

LEY LINES and EARTH ENERGIES

A GROUNDBREAKING EXPLORATION OF
THE EARTH'S NATURAL ENERGY AND
HOW IT EFFECTS OUR HEALTH

DAN PAGAN

CHRIS ARNOLD

LEY
LINES
AND
EARTH
ENERGIES

The Lost Science Series:

Lost Science
The Energy Grid
The Tesla Papers
Ether Technology
The Bridge to Infinity
The Time Travel Handbook
The Anti-Gravity Handbook
Quest for Zero Point Energy
Anti-Gravity & the World Grid
Anti-Gravity & the Unified Field
Tapping the Zero Point Energy
The Harmonic Conquest of Space
The Free-Energy Device Handbook
Harnessing the Wheelwork of Nature
The Fantastic Inventions of Nikola Tesla
Secrets of Cold War Technology
UFOs & Anti-Gravity
The Cosmic Matrix
The A.T. Factor

LEY LINES AND EARTH ENERGIES

An Extraordinary Journey
into the Earth's Natural
Energy System

DAVID R. COWAN
With CHRIS ARNOLD

Ley Lines and Earth Energies

Copyright 2003 by David Cowan and Chris Arnold

ISBN 1-931882-15-0

Cover art by Kevin Belford.

Design by Harry Osoff.

Published by
Adventures Unlimited Press
Kempton, Illinois 60946 USA
www.Adventuresunlimitedpress.com

This book is dedicated to my parents,
Joan Anderson Duff
And
Robert Hogg Cowan

Contents

Foreword by David Hatcher Childress

Introduction

Chapter 1: Early Researchers of Earth Energies:
Alternative Theories on Ancient Enigmas

Chapter 2: Listening to the Planet's Pulse:
The Strange Energies from Standing Stones

Chapter 3: Walking the Energy Leys:
Cup-Marks – the Key to Ancient Art and Science

Chapter 4: The Strange Qualities of Cup-Mark Energy:
An Intriguing Insight into the Earth Energy System

Chapter 5: The Cup-Mark Skeleton:
A Portal into the Past

Chapter 6: The Secret of the Petroglyphs:
A Mass Murder, an Unknown Cup-marked Stone and the Bubonic Plague

Chapter 7: The Road to Rannoch:
Walking the Serpent

Chapter 8: The Final Circuit:
Cup-Mark Maps Across Scotland and Northern England

Chapter 9: Straight Leys:
And How They Work

Chapter 10: Earth Acupuncture:
Volcanic Plugs, Burial-grounds, 'Spirit Paths' and the 'Electric Brae'

Chapter 11: The Leys from Pillar Island:
The Glen Lyon Ley

Chapter 12: Circular Burial-grounds:
Four-Poster Leys

Chapter 13: Sacred Geometry:
A Town Based on the Earth Energy System and Feng Shui

Chapter 14: Powering-up a Ley Line
Using Crystals to Energize Standing Stones

Chapter 15: Rebuilding the Ancient Magic:
A Hypothetical Reconstruction of the Ley System

Chapter 16: Strange Happenings on the Earth Energy System:
Black Spirals, Ill-Health and Apparitions

Chapter 17: Poltergeists:
Some Insights into Various Phenomena

Chapter 18: Lethbridge's Legacy
Tuning into Geological Faults

Chapter 19: Ball Lightning and Earth Lights:
Unidentified Aerial Phenomena

Chapter 20: Earth Gases and Volcanic Tubes:
Spontaneous Combustion and Mud Springs

Chapter 21: Crop Circles and Chladni Patterns:
Chaotic Systems and Natural Patterns

Chapter 22: The Devil's Footprints in the Snow:
A World-Wide Phenomenon

Conclusion

Further Reading

Index

Figures and Illustrations

<i>Figure</i>	Chapter One	<i>Page</i>
1.	St. Adamnan's Stone, in beautiful Glen Lyon, Perthshire.	3
	Chapter Two	
2.	Seeking the energies from a standing stone at Dunruchin Moor, Comrie.	10
3.	The standing stone at Stonefield Farm, near Crieff.	13
4.	A simple pair of divining rods.	14
5.	Standing stones are carefully situated above crossing underground streams.	16
6.	This is a cup-marked standing stone at Kilmartin, Argyll.	17
7.	Plan view of the double waves from the Chieftain.	18
	Chapter Three	
8.	Meggernie Castle, Glen Lyon.	20
9.	A fine display of cup-marks at Ormaig, near Kilmartin, Argyllshire.	36
10.	Cup-marked stone at Pitcur, near Dundee.	37
11.	The cup-marked cliff face at Mauchline, Ayrshire.	38
12.	The cup-marked stone at Connachan Farm, in the Sma' Glen, Crieff.	42
13.	This dumb-bell shaped petroglyph eventually revealed its secrets.	43
	Chapter Four	
14.	This old burial-ground has been placed at the outer edge of a cup-mark ley.	51
15.	The telluric pattern of energy around a sheep's skull.	53
16.	'The Chieftain', Loch Rannoch.	56
17.	" " " "	56
	Chapter Five	
18.	A wide stream of energy, from the Highland Boundary Fault.	60
18a.	The primary spiral.	61
19.	" " "	61
20.	" " "	62
21.	The Druid's Cave.	63

22.	Fionn MacCumhail's Swordcut.	66
23.	The 'Praying Hands of Mary'.	67
24.	” ” ” ” ” ”	69
25.	Plan view of the recumbent stone at Connachan Farm.	71
26.	Types of parabolic surfaces.	74
27.	Plan view of Newgrange, Ireland.	74
28.	A concave object, with sound waves, below ground, reflecting to a point F.	78
Chapter Six		
29.	St. Adamnan's stone.	85
30.	This cup-marked stone is on the west of the Sidh of Ardtalnaig.	86
31.	The dumb-bell shape. Note the 'S' shape inside.	86
Chapter Seven		
32.	The Rocking Stone of Glen Tarken.	91
33.	The 'Crocodile' or 'Serpent' of St. Fillans, near the end of a ley line.	93
34.	The cup-mark (arrowed) resembles the circuit around Loch Earn.	96
35.	Clach-na-Tiompan in Glen Almond.	99
Chapter Eight		
36.	This is a stylized map of the ley circuits from Killin stone circle.	105
37.	'Phadruig' inear Balquhidder.	106
38.	The tiny 18 inch high 'Bhacain' in Glen Lyon.	108
39.	The cup-marks on the Connachan Farm stone.	110
40.	This is the 'local' cup-marked stone which has yielded its secrets.	113
41.	Plan view of cup-marks.	114
42.	Telluric energy is emitted from this stone to surround ancient shielings.	115
43.	A typical Highland shieling.	116
Chapter Nine		
43a.	The Cailleach and Bodach, a strange family set in stone.	122
44.	The inhospitable island of Boreray, (left) St. Kilda.	127

	Chapter Ten	
44a.	Leys from distant volcanic plugs pass through this burial-ground.	134
	Chapter Eleven	
45.	The ley from the volcanic island of Staffa.	136
46.	Fingal's Cave.	139
	Chapter Twelve	
47.	Cam Bad an Fraoich.	141
48.	4-poster at Lundin Farm.	143
49.	Dundurn church and burial-ground, St. Fillans.	144
50.	The ley from a four-poster.	145
	Chapter Thirteen	
53.	Dalchirla standing stone, roughly lined up with King Street, Crieff.	149
54.	Balmuick four-stone circle, lined up with High Street, Crieff.	149
55.	The standing stone at Scone.	151
56.	The star of Crieff, with standing stones forming the pattern.	152
57.	The star-shaped pattern of energies across the surface of the Earth.	153
	Chapter Fourteen	
58.	The ley from twelve standing stones.	160
59.	A line of eight standing stones from the stone circle of Clach-na-Tiompan.	161
60.	This standing stone at Dunruchin Moor, Comrie, has an excavated grave at its foot.	163
	Chapter Fifteen	
62.	Kilmartin lunar observatory.	176
63.	The standing stone at Kilmartin is part of the twin lunar standstill observatory.	177
64.	The stone on the banks of the river Forth.	179
65.	Line drawing of cup-marked stone in souterrain near Dundee.	179
66.	Plan view of souterrain at Pitcur.	180
67.	Goshen, Massachusetts. Side view of the stone shaft and tunnels.	181

	Chapter Sixteen	
68.	A subterranean vein of water (pipe or fissure) emits energies.	186
69a and b.	Two brain scans taken of one individual at different locations.	187
70.	A case of plantar fasciitis.	188
71.	This petroglyph is on a stone near Loch Tay.	190
72.	A stylized circuit of telluric energy from Killin stone circle.	192
	Chapter Seventeen	
73.	The City Prices store.	221
	Chapter Eighteen	
74.	The caldera of Crater Lake, Oregon.	250
75.	Bidean nam Bidean in Glencoe, Argyllshire.	251
76.	The “Earthquake House” in Comrie.	256
77.	The waves to be found in a fault.	256
	Chapter Nineteen	
78.	Ball of light over Banbury.	274
	Chapter Twenty	
79.	A giant excavator loads burning sulphurous rock into trucks for disposal	284
80.	‘100 figures of men, holding flaming torches, dancing across the road’	289
81.	Ghostly figures related to Earth energies through the centuries.	291
82.	Natural Earth energies.	298
	Chapter Twenty-One	
83.	Four stages in the development of a simple ‘spin’ vortex.	307
84.	The beautiful Julia set, near Stonehenge, England.	310
85.	Acheroptira (faces not made with human hands).	313
	Chapter Twenty-Two	
86.	Two eye-witness sketches of the ‘Devil’s Footprints’ seen in Devon	321
87.	The one-legged mythical monster of Highland Scotland. A ground wave, spinning between the ground and the icy surface of the snow	330

89.	The Dwarfie Stane, Orkney	336
90.	The red sandstone cliff face at Mauchline, Ayrshire, covered with cup-marks	337

Introduction

I was born and brought up in Glasgow, Scotland, during the war years, to be, like practically all of the rest of my generation, hard-headed, hard-working, and logical.

Imagine my surprise, then, twenty-five years later, at the age of forty, to be walking around a standing stone on the misty, lonely moors of Highland Scotland, with a pair of divining rods, looking for ‘ley lines’, which were then thought to be the province of what archaeologists happily called ‘the lunatic fringe’. The problem was, the divining rods actually worked, and remarkably well at that! This was the start of a 3,000 mile odyssey which took me eight years of hard walking.

Not only could I easily find ley lines, but also the energies which powered them

- energies emitted from geological faults, fissures, volcanic plugs, calderas and sills
- energies which I came to understand in the following years were world-wide, were known and used by our ancestors, and not only that, but to this day seem to cause severe ill-health to the unfortunates who unwittingly live under their malign influence.

Our ancestors were, thousands of years ago, well aware of the energies involved in what we now call the *genius loci* – the spirit of place, where for example, the American Indians built their underground kivas. These energies were used in Scotland and other highly geologically faulted parts of Europe to build a remarkable and infinitely sophisticated system of Earth energies channelled through standing stones and circles which had a profound effect on their lives, and possibly even their spirits after their death.

For many years, hill-walking the length and breadth of much of Scotland, these same ancient and hoary old standing stones and circles had exerted their attraction to me. Often I would pause and study these decaying remnants of our misty past, thinking sadly that their function in bygone days was, and always would be, almost totally unknown. The best and most intelligent scientists and archaeologists in the country have studied these artefacts for almost a century, finding few clues to illuminate their function, therefore they were obviously, I thought, destined to remain a puzzling enigma forever.

There were, however, certain individuals who could see them as a knowledge beyond our present science: Watkins, Thoms, Stukely, Underwood, Michel, Hamish Miller and Paul Broadhurst and a few others, ignored contemporary thinking and began to see their function in a different manner.

Largely due to their intuition and dedicated hard work, scientists are becoming increasingly aware that standing stones and circles are still, even thousands of years after their construction, emitting strange and subtle energies. Some work has already been done in monitoring these emissions scientifically, notably by members of 'The Dragon Project', and there is no doubt that an increasing amount of literature will stem from these studies. With modern equipment at their disposal, they are now able to measure magnetic fields, ultrasound, radioactive anomalies, etc., but when they have all of the results, they will still largely be unable to find out exactly what these stone-age relics were used for and how they worked, unless some people attempt to rediscover our forgotten past, *using the same methods the stone-age builders used*, to find these energies and follow them, learning *en route* the qualities which the different types of energies possess, and discover, through folk-lore and personal experience, what effects they have.

That is the essence of this book. There is little use here for modern and sophisticated equipment. That will be covered adequately by the scientists themselves. Instead, we must use nothing more than the simple divining rod, used by diviners for centuries to find underground water and minerals, now being used by a few enlightened people to tune into the songs of the megaliths once again.

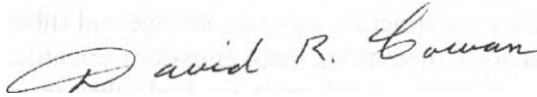
We have entered a new millennium, and now there is a noticeable change in our culture. The general public, and some scientists, are becoming much more aware of the hidden side of nature, seeking knowledge beyond the scientist's test tube. This book, I hope, is just a part of the recovery of the knowledge of our forefathers, a knowledge which might be termed the Occult, or Magic. These are simply terms to label the unexplained.

The area involved, the beautiful Highland of Scotland, in all likelihood, is unknown territory to the reader, but nevertheless this work deserves close study, since it is the microcosm of the world-wide system of telluric energies which covers our globe. This book reveals to the general public, for the first time in modern history, the beginnings of a working understanding of our stone-age culture, a re-awakening of our senses and a recovery of a long-lost knowledge.

As the strange qualities of Earth energies became clearer, I realized that there were similarities between Earth energies and some phenomena, like ball lightning, Earthlights, apparitions, missing time experiences, and poltergeists, etc. There must be a rational explanation for all of these, even if it is simply misidentification, parts of the brain and body stimulated by external magnetic/electrical fields, or even by hoaxing.

Chris Arnold, co-author, addresses these Earthlights, planet outgassing, hauntings, poltergeists, crop circles and the mysterious one-legged devil which occasionally hops across our planet as manifestations of natural Earth energies.

David R. Cowan

A handwritten signature in cursive script that reads "David R. Cowan". The signature is written in black ink on a light-colored background.

Foreword

By David Hatcher Childress

CHAPTER ONE

Early Researchers of Earth Energy

Alternative Theories to Ancient Enigmas

‘Knowledge is of two kinds – we know a subject ourselves, or we know where we can find information on it.’

DR. JOHNSON IN A LETTER TO WILLIAM STRAHAN, 27/3/1775

Alfred Watkins

In 1921, Alfred Watkins, Hereford business man and magistrate, expert on local folklore and antiquities, inventor and photographer, was on a visit to Blackwardine. According to tradition, he pulled up his horse to survey the landscape below.

It was then he became aware of ‘a network of lines, standing out like glowing wires across the country, intersecting the sites of churches, old stones, and ancient sites.’¹ This was to be a significant step in the re-discovery of our past.

Alfred Watkins’ ‘vision’ was no accident, however, as he had spent years in study and had a wide knowledge of classical mythology and local archaeology. Indeed, it is more likely, according to his son, that the insight occurred when he was looking at a map.² As far back as the 1820’s, archaeologists had described ancient monuments as forming ‘lines across the landscape’, while in the late nineteenth century, at the age of barely 15, William Henry Black had spoken of ‘grand geometrical lines across the country.’

Watkins believed that ancient man used straight tracks for the transportation of flint and salt, which were generally only available in coastal areas. He suggested that staves were used to mark out these straight lines, marking stone circles, cairns, ponds, mounds, notches cut into hills, ancient tracks and other sacred sites upon which castles and

¹ Alfred Watkins, *The Old Straight Track*, Abacus.

² Tom Williamson and Liz Bellamy, *Ley Lines in Question*, World’s Work.

churches were subsequently built. Ponds, Watkins argued, were to act as flashing reflectors for beacons. Cairns were alignments to distant hills, but not always on the summit. Mounds were made to be seen from a distance and standing stones were placed at the crossing-point of two tracks, with their spine, if any, indicating the direction of a ley. Stone circles and holy wells were initial points of a ley, and hill notches invaluable sighting points.

Ancient homesteads, Watkins surmised, ought to be included, but decided against this, as they were too numerous, and it was difficult to say which were old and which modern. (Later I will explain the positioning of some of these sites and their relationship to cup-marks, engravings in stone, which are fundamental to the workings of energy leys).

Unusually perceptive, Watkins summarized the work of the builders, the early surveyors, or 'Dod-men' as he called them in his book *The Old Straight Track*:

I feel that ley-man, astronomer-priest, druid, bard, wizard, witch, palmer and hermit were all more or less linked by one thread of ancient knowledge and power.³

³ Watkins, op. cit.



Fig. 1: A standing stone, one of many scattered across Britain. This one is St. Adamnan's Stone, in beautiful Glen Lyon, Perthshire.

EARLY RESEARCHERS OF EARTH ENERGY

He emphasized the straightness of a ley:

It should be noted that these and other alignments are, and must be,

exact and precise through the mark points. ‘Close to’ must never be accepted. The sighting method is just as exact as the aiming of a gun, bringing the two sights and the objects in line.⁴

Archaeologists have used this idea to reject the concept of leys, pointing out that even the finest line drawn on a 50:000 OS map is in the order of 11 yards (12 metres) wide on the ground.

As my investigations have uncovered, however, energy leys are comprised of a large number of vertical sinuous waves with their own specific wavelength and amplitude – a stream of energy – and so appear to weave across the surface of the planet like a serpent. Bronze Age man and his successors, I am sure, did not intend energy leys to be absolutely straight, probably caring not at all for such a level of accuracy, and for modern man to insist on it effectively stymies the recovery of this knowledge.

Nevertheless, there *are* lines of ancient sites, therefore those who propose that straight leys exist must be correct in their conclusions that there are energy leys which do fall within acceptable limits and which will reward researchers with leys accurate enough to satisfy the demands of archaeologists.

A book by Nigel Pennick and Paul Devereux, *Lines on the Landscape*, (Robert Hale, 1989), takes the concept of leys as archaic alignments much further, and argues that straight leys do exist, but as alignments of burial-grounds. In *The New Ley Hunter’s Guide* (Gothic Image Publications, 1994) Paul Devereux describes straight roads as ‘faery and spirit paths’. He argues that ancient cultures across the planet believed that the souls of the dead could only travel in straight lines.

These books should encourage archaeologists to take a closer look at the enigma of leys. It will take some time, however, before they will be prepared to admit that the leys have life, have energy flowing through their veins and can provide a fascinating insight into our ancestors’ strange beliefs and practices. Our understanding of ley energies may yet re-shape our own culture in ways which cannot even be guessed.

Other Early Researchers

Watkins laid the foundations for others to follow and much more

⁴ Ibid.

understanding slowly came to light. As knowledge of the ley system developed, a major disagreement erupted amongst researchers. Some now see the archaic track as simply a line of ancient and holy places (sometimes evolving to the present day, where, for instance, a church may be built next to a standing stone, incorporating it into its fabric), while others see the same line as an energy ley, a straight line alive with an as yet unidentifiable form of energy.

Some researchers consider the energies to be the Earth's electric field, that is, the voltage gradient which exists between the negatively charged planet and the positively charged ionosphere. This gives voltage without appreciable current. There are others, however, who say that this theory is untenable.

Whatever the source of leys, it is obvious to me that those which have been built in the past are circuits of energy which have a source and a distant target. After many miles traversing the country in a line they may return, running parallel to the source, whence once again they start the circuit afresh. This gives, in effect, two or more energy leys side by side.

A great deal is owed to the archaeologist Guy Underwood in the further evolution of the rediscovery of the Earth's energy system. In the 1930's Reginald Allander Smith of the British Museum, suggested to him that underground water might have a connection with the siting of ancient monuments. As a result, Underwood taught himself water divining. Lacking sensitivity, he designed his own 'geodetic rod' with which he surveyed a number of sites. He discovered different patterns, each having a unique shape, which he described as 'Primary Geodetic Lines, including Water Lines, Track Lines and Aquastats, which appeared to have wave motion; had great penetrating power; to form a network on the surface of the Earth, to affect the generation and the growth of certain trees and plants; to be perceived and used by animals; to affect the opposite sides of the human body, and to form spiral patterns.'

Underwood's main theory was that all prehistoric sites were situated with respect to the various coils, spirals and twists of these patterns. Churches, he claimed, were carefully constructed to allow aquastats (a form of energy derived from running subsurface water) to pass through spirit holes, founts placed on 'blind springs', stoups and altars. This view has since been modified, as some buttresses, doors, etc., actually cause the effect, and are not placed there because of it. Churches and other ancient monuments, however, have certainly been carefully positioned over powerful points of Earth energy.

Guy Underwood also realized that the 'Earth force' affected animals

and vegetation. This was investigated by J. Havelock Fidler, a scientist living in Shialdaig, Scotland, who had spent a long career in agricultural research. One of his many experiments involved measuring plants' rates of growth when exposed to the radiation from a 'charged' stone.⁵ This was, I think, his most interesting contribution to the field. His discovery was that stones (neutral stones, untouched by hand), can be charged, both by hammering and heating. (This was later to play an important part in my recovery of the knowledge of the petroglyphs. Hammering or percussing a rock or boulder – carving a cup-mark, for instance – causes the stone to emit a much enlarged 'telluric shadow' of that engraving, as we shall see later).

J. Havelock Fidler further postulated that the designers of the energy system interred their dead in certain places to insert the psyche of a particular person into the telluric pattern of the Earth as a 'guardian spirit'. He argued that this was delivered initially by normal interment, and later, with the discovery that the spirit grew weak and faded over time, by cremation, where the 'psyche' was fixed.

Professor Alexander Thom, at one time in the chair of engineering at Oxford University, discovered that stone circles appeared to have been constructed to precise geometrical formulae, and also that stones in a circle were set apart at a specific distance, 2.72 feet (0.83 metres), which he called the 'Megalithic Yard).

A knowledge of mathematics and astronomy on the part of the ancient builders was also postulated by Professor Gerald Dawkins, who wrote *Stonehenge Decoded*. (1978). He pointed out that Stonehenge and Callanish in the Isle of Lewis appeared to be huge astronomical calculators, situated at advantageous positions for some lunar and solar observations.

As more discoveries are made in the layout and workings of stone circles and standing stones, some authors are crediting the builders with almost superhuman powers of strength and knowledge. This is unlikely to be an accurate description.

They simply had a different culture.

Archaeologists have recently been able to provide a picture of the Megalithic builders from their skeletal remains. It appears that they were slightly smaller than we are today, the male averaging 5 feet 7 inches (171 cm), and lived for a comparatively short time. In Orkney, an island off the north coast of Scotland, for instance, the average age at death was

⁵ J. Havelock Fidler. *Ley Lines, Their Nature and Their Properties*. Turnstone Press, 1983

a mere 25 years old, and in other areas, around 30–35, so the builders of such massive structures were little more than teenagers, slightly built, with delicate features and physically smaller than their modern counterparts. They had a strange culture, certainly, but what strange path would our own civilization take, if few of us survived to be adults, and it was left to teenagers to carry on our culture?!

The Sun and the Serpent

In the last few years others have picked up the gauntlet of exploration, notably Hamish Millar, an experienced dowser, and Paul Broadhurst, who have both investigated the St. Michael's Line, which runs across southern England. This is not the traditional straight energy ley they had initially expected, but two tortuous streams of energy through Glastonbury Tor, Avebury and Silbury Hill, amongst others. These lines are similar to the cup-mark leys described in this book, with some differences, one being that the St. Michael's line tunes into holy wells, which cup-mark leys avoid. Basically, there are two currents of energy in the St. Michael Line, crossing at important node points.⁶

Carrying this a stage further, they have recently followed another remarkable pair of leys from the south of Ireland, through Cornwall, England, France, Italy, Greece and Israel, marked by sanctuaries dedicated to the Archangel Michael and Apollo, the Greek God of Light. This pair of intertwining leys is 2,500 miles long.⁷

In a similar manner, using divining rods, I have followed energy leys of different types, which have been intelligently controlled, focused and manipulated in prehistoric times across Scotland and North England. This has given me an insight into an undiscovered world of subtle energies which has been woven into extensive and complicated circuits, using the energies emitted from standing stones and circles and volcanic plugs, faults and fissures for a purpose which I can only guess.

Hostile to the very idea that ley lines even existed to begin with, I became amazed to find active energies forming vortices which can cause severe illnesses in the population. Apparitions, poltergeists and even demons began to come to my attention. Shunned and ignored by science

⁶ Hamish Miller and Paul Broadhurst, *The Sun and the Serpent*, Pendragon Press, Cornwall.

⁷ Ibid, *The Dance of the Dragon*, Pendragon Press, Cornwall.

and the scientifically-orientated general public, such ‘beings’ nevertheless made their presence felt to some unfortunate individuals.

As my knowledge grew, so did my awareness that our culture is over-dependent on science and is badly out of balance. Delving back into our past can throw light upon our ancestors’ understanding of Earth energies and on the ancient, mythical warriors who understood them – and who never did die, according to folklore.

CHAPTER TWO

Listening to the Planet's Pulse

The Strange Energies from Standing Stones

'Laugh not so lightly O King, for in these stones Is a mystery and healing virtue'

MERLIN SPEAKING TO ARNELIOS IN *THE HISTORY OF BRITAIN*

My initiation into the mysterious world of Earth energies came from an unusual source – the UK's BBC television programme *Tomorrow's World*.

One evening in 1978, Henry Lovelock, an inventor, showed a 'terrahertz generator', a device which, he hoped, would enable aircraft and ships to navigate a very precise course. It was simply a box which emitted a form of energy. The twist in the tail was that Lovelock used a pair of divining rods to find the energy.

The following weekend I took with me on my usual hill-walking expedition a pair of divining rods of the same type used in that programme. These were angle rods, very simply fashioned from two metal coat-hangers.

My chosen walk that weekend was high in the hills above the beautiful village of St. Fillans, Perthshire, one of the most scenic areas of Scotland. To the north of the village the Hydro-Electric Board had constructed a number of dams, underground tunnels and water pipes, so it was an excellent place to make my first attempt to discover underground water.

It was with a mixture of curiosity and almost total disbelief that I tracked across a partially buried pipe with my angle rods at the ready to find that the rods, apparently of their own volition, turned downhill. Following their direction with some hesitation and growing amazement, I followed the pipes for some distance, until I had traced the pipeline down to the Hydro-Electric station.

The following *Tomorrow's World* programme showed the construction of the terrahertz generator. It was nothing more than a box

with an electric light bulb inside it, shining through a window of clear quartz!

Once again the *Tomorrow's World* presenter used his divining rods to detect the energy from the 'black box', and then switched it off. To everyone's astonishment, the energy could still be found, streaming across the room. He moved the box, still switched off, to a different location, and the energy could still be traced in its original position. He said that in a previous trial, the waves could be detected even several days later.

This was quite an astonishing revelation, but little did I realize then that it was only the beginning of a long series of astonishing revelations for me, which now span many years and several thousands of miles of tough hill walking.



Fig. 2. Seeking the energies from this standing stone at Dunruchin Moor, Comrie.

Coincidentally, at the same time, a book on the subject of water divining

and allied subjects appeared on the market. Written by Tom Graves, it has since been reprinted as *The Diviner's Handbook* (Destiny Books, 1990). The contents ranged from water divining and finding drains to discovering oil and minerals, looking for lost objects and people, and the compatibility of food and medicine to people. The final chapter discussed 'ley lines', an unknown energy travelling across the country in straight lines from standing stones to stone circles, churches and burial-grounds. To me, back in 1978, this seemed quite ludicrous.

Energies from Standing Stones

The following weekend I walked across the heather-clad moors of Dunruchan Hill to the south of Comrie, Perthshire, where a few years previously I had found twelve standing stones set out in a row. Approaching one of them, I took out my divining rods and proceeded to walk round it, to be pleasantly surprised to find a faint reaction in the vicinity of the monolith. Following the rods carefully, it soon became obvious that they were picking up a spiral of energy. I walked for some distance, further and further out from the huge stone, still tuning into the spiral until I had satisfied myself that my attempts were, indeed, correct. Apparently, standing stones were powered by subterranean energies of some sort, whether from fissures, underground streams or volcanic sills. Obviously, a great deal of work would have to be done to solve the mystery of these energies from standing stones. Little did I realize then exactly how much hard work and how long it would take!

Another standing stone, this time at Lawers Farm, some few miles from my home town of Crieff, Perthshire, Scotland, one of the "Gateways to the Highlands", caught my attention. I resolved to discover more about this curious energy by spending several weekends working around this stone. With my back to this stone, I fixed my eye on a point in the far distance, and walked towards it, carefully holding the divining rods. Every few yards they would cross, indicating the presence of some form of energy. Since there must surely be a relationship in the distance between each reaction, I reasoned, I marked each point on the ground and measured the distance between them, only to find that there was no correlation whatsoever.

The following weekend I returned, and with no clear idea in my mind, tuned into the energy from the stone. Without realizing it, this time I had actually tuned into one of the many waves emitted by the stone and my

rods took me in a wide, sinuous line, rather like the movements of a snake. This explained the odd figures I had been getting the previous week. This, one of many sinuous waves *did* travel to the point I had walked to the previous week, but on that occasion I had simply walked straight towards it, the rods crossing when they chanced to encounter the wave.

Vowing quietly to myself that I would eventually get the measure of this strange business, I continued for a few more weekends, discovering in the meantime that there were more than 40 waves coming from this stone. There was little more to be found here, as it happened. The only item of real interest was that four of these waves travelled to a nearby priory, each of them picking out a cornerstone of the old building, whilst a fifth spiralled up the path and inside the priory. Later I discovered that this stone was actually a Roman stone indicating a river ford, coincidentally placed on this ley line (*see Chapter Fourteen*). The fact that it incorporated itself into the ley system and worked in a slightly different manner, even though it was not intended to, was an eye-opener, but my confidence and knowledge were growing rapidly, and it was time to progress to another standing stone, this time at Stonefield Farm, to the north of Crieff (*see Figure 3, over*).

A Working Standing Stone

This monolith seemed rather different from the previous ones. It had a faintly ominous feel, whereas the others had a natural, balanced feeling. I spent some months mapping out its waves of energy which travelled to a rather peculiar artificial mound, now badly destroyed, with 28 boulders at its circumference. These boulders returned the waves back to the standing stone. One boulder, which had rolled down into low-lying ground, had yet another wave pivoting over it, so I returned this boulder to its proper place at the periphery of the mound and the wave obligingly followed. Apparently, these 29 boulders were all charged in some manner to attract the energy from the standing stone. Perhaps the synodic lunar month, 29.5 days long, has some bearing on this discovery.



Fig. 3: The standing stone at Stonefield Farm, near Crieff.

Water Divining and Dowsing

Now that I had experience of locating energy using divining rods, I was able to look at the subject in a new light. There are many different types of Earth energies, with different properties, and those who work with them are prone to giving them different names, a problem presently being addressed by the British Society of Dowsers Earth Energy Group. To find these energies, however, there is really only one way, and that is

to learn the ancient art of dowsing.

Using Divining Rods

Most people think of the tools of the dowser, water diviner, or bio-locator as the traditional ‘V’-shaped hazel twig. In fact, there are over 200 different types of divining instruments, but for following the various types of telluric energy, the best of all is the simple angle rod (*Figure 4*) a length of wire, some 16 inches (40 cm) long, with another 6 inches (15 cm) bent over at right angles to form a handle. Made from heavy fence wire, or even from metal coat hangers, these rods are extremely sensitive, even in the hands of a complete beginner. For working outdoors, they should, ideally, be made of the heavier fence wire, which is much less influenced by rough terrain and wind.

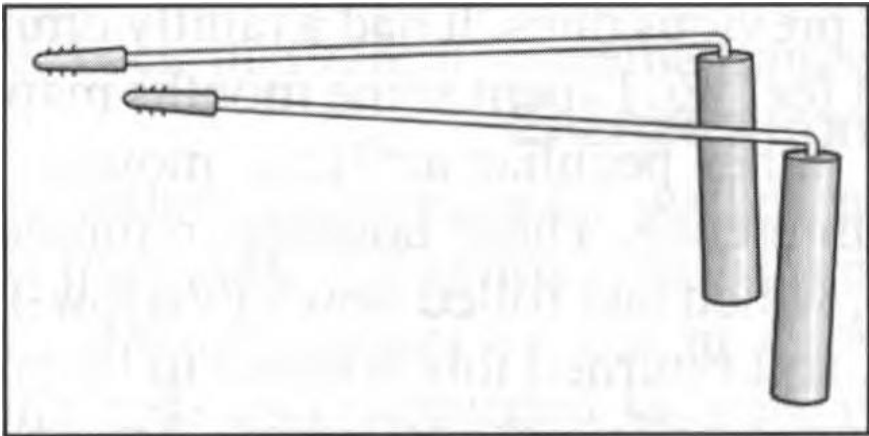


Fig. 4: A simple pair of divining rods.

Some people find it an advantage to have handles of some description, whilst others prefer to feel the bare rods turning in their hands. For handles, ballpoint pen cases may be used, or 1 inch (2.5 cm) diameter dowelling rod bored down its length to take the short ends of the instruments, or even several cotton reels glued together. For safety's sake, the bare ends must be protected with electrician's tape so that they will not penetrate the body in a fall. In all cases it is essential that the rods move freely in their holders.

Do not be misled by the simplicity of this instrument. The amount of knowledge which you can obtain from it is astonishing.

Like any other dowsing instrument, these rods work because they are in a fine state of balance. Try holding them perfectly level in front of you, in a comfortable position, just above waist height, facing away from your body. Now, gently raise the tips, so that they are slightly above the horizontal, and you will find that they go out of control and swing back towards you. The rods are at their most sensitive position when the tips are a few degrees below the horizontal. Lowering the tips further makes them less sensitive.

It is unlikely that the reader will have access to a standing stone, especially in the USA, although there are some in New England, but for the moment we will use this as an example – geological fault lines, volcanic sills, dykes (*see page 183*) and underground streams are natural sources which you can try, and quarries, open cast mines, microwave towers, electric sub-stations and generators. Even television sets, computers and kitchen microwaves give a similar effect.

Back at the standing stone, choose a fairly calm day to begin with, to avoid any chance of the wind influencing your results. To make them more sensitive, give each divining rod a brisk rub lengthways with your free hand before commencing work.

Every standing stone has at least two veins of water (or fissures) crossing beneath it at different depths, and the energy from these travels vertically to the surface (*Figure 5*). It can be found entering one corner of the monolith, and exiting via the diametrically opposite corner. This is the raw material each standing stone uses, via, presumably, the quartz crystals in its structure, to form an energy ley, a straight corridor of waves between ancient sites.

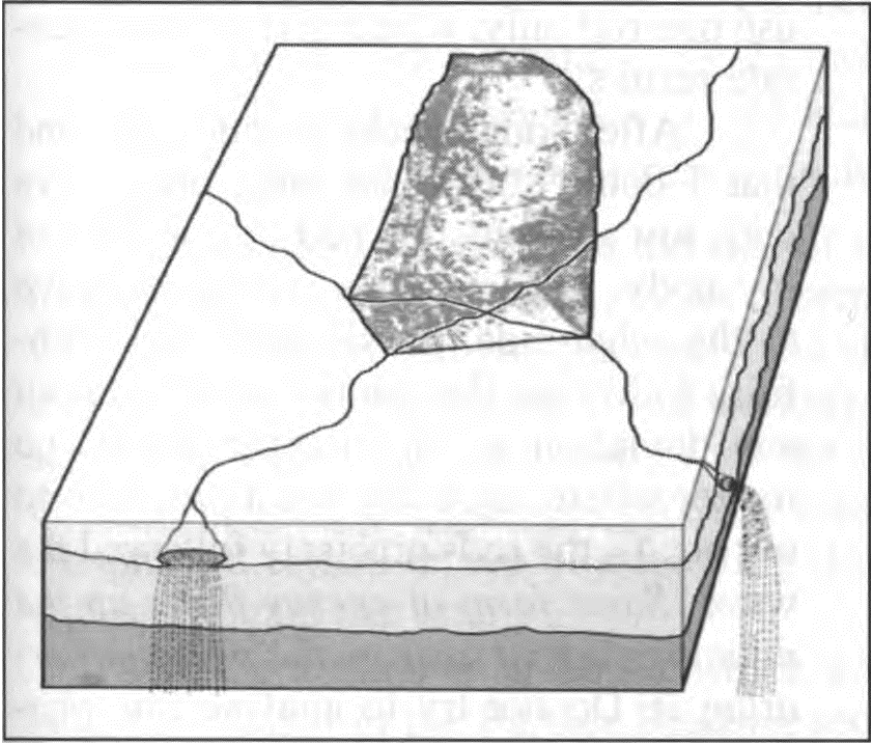


Fig. 5. Standing stones are carefully situated above crossing underground streams or fissures.

Silently commanding the rods to move in the direction of any energy which may be emitted, walk across the face of your standing stone (in the absence of a standing stone you can try to find the radiating waves from your television set). Specify clearly what you are trying to tune into – woolly minded dowsing gives woolly results. Try and make your mind as detached as possible and relax. The rod tips should move slightly away from the stone. Carefully turn and follow the rods in the direction they indicate. With just a few minutes' practice you will gain confidence. The energy you should find is a wave, a sinuous, snake-like line emitted vertically from the stone (*see Figures 6 and 7*). It is important to note that you must be walking to make the rods work – they will not work when you are standing still.

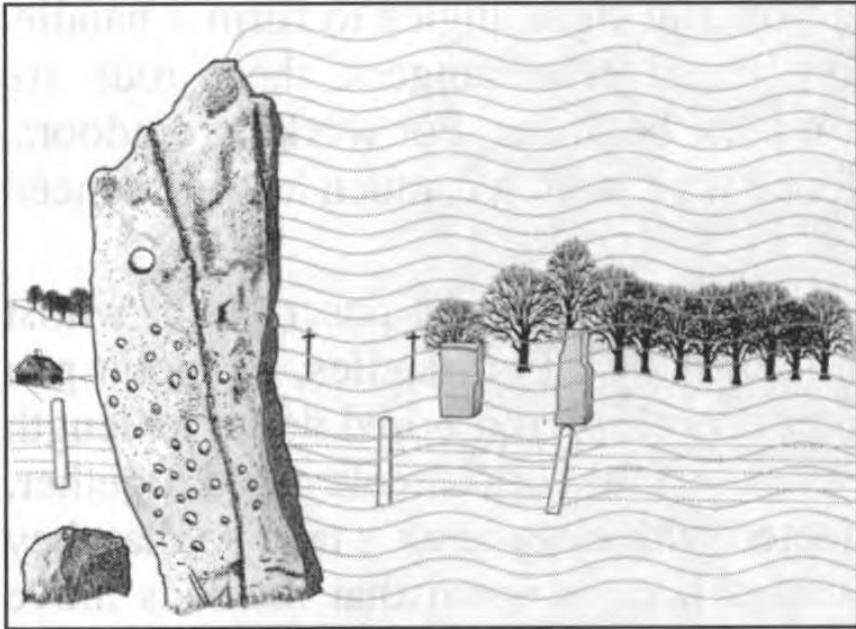


Fig. 6. The structure of a wave. This is a cup-marked standing stone at Kilmartin, Argyll.

Some people may find that one rod points in one direction while the other points at right angles to it. This is simply failure to 'program' your mind properly. What usually happens in this case is that one rod follows one wave and the other tunes into another, crossing, wave. Simply repeat to yourself firmly that the rods must follow one individual wave and they will 'come to heel'. After a little time, you will gain confidence and the conscious instructions to search for telluric energy can be discarded as the subconscious mind will take over, enabling you to walk any distance without concentrating on Earth energy at all. Sooner or later it will be possible to use one rod only, which gives more accurate results.

After some weeks practice, I found that I could follow an individual wave with my arm outstretched to one side of my body, then traverse across the wave to the other side, the divining rod faithfully following the sinuous wave without any deviation at all. In other words, no matter where my body was in relation to my hands, the rods precisely followed the wave. *Some form of energy flows up the divining rods to or from the person operating it.* Do not try to analyse this phenomenon unless you are

particularly interested in this facet of the art, just use it.

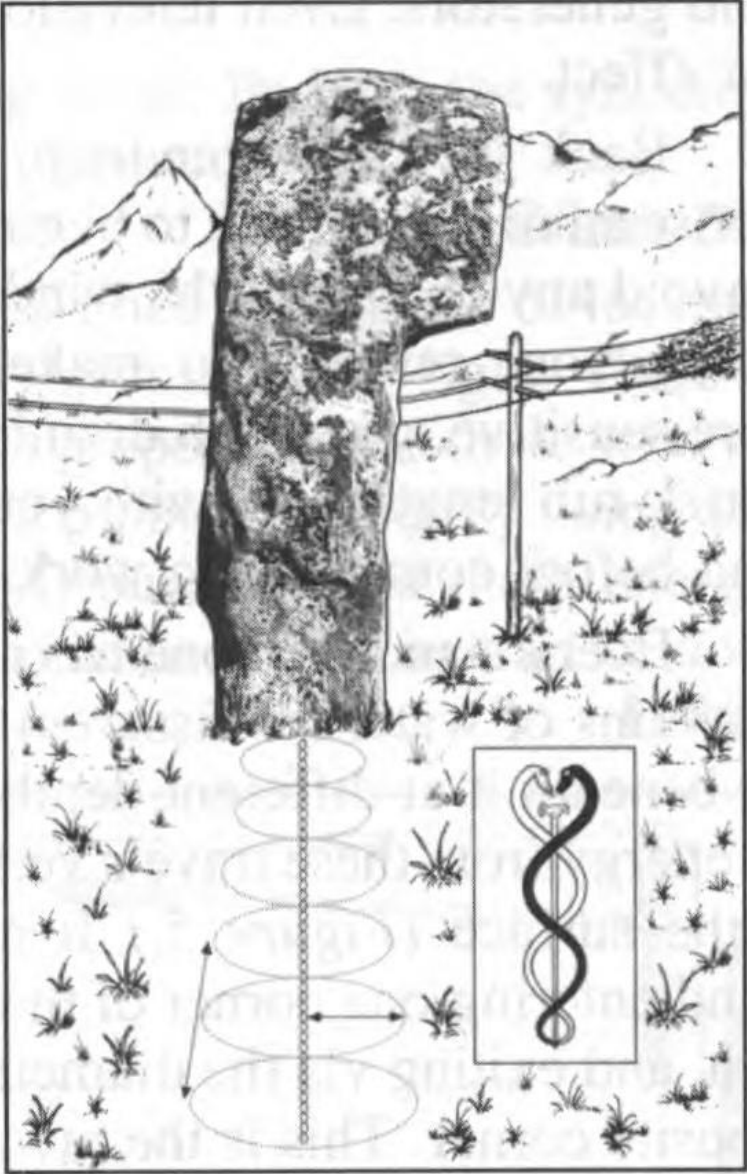


Fig. 7. Plan view of the double waves from the Chieftain

The traditional forked twig used for locating water is useless in following energy leys, as the operator has to reset his grip continuously, and the twig will show wave direction and amplitude only with great difficulty. There is no harm in trying this type of divining rod initially, however, if you find it easier to use.

As you become more proficient, you will discover that it is quite possible to use the rods with their tips pointing sharply downwards, at their most insensitive position. This is very useful in adverse weather conditions, a high wind, for instance. Sometimes I have used rods with no difficulty at all in winds which literally snatched the breath out of my mouth and drove me to seek shelter behind the nearest rock or wall.

Reducing Unhealthy Energies from Televisions and Computers

As I mentioned at the start of this chapter, computers and television sets also emit energies which can be found with divining rods. Again, with the rods pointing slightly down, walk in front of the computer screen, and command the rods to move when they find ‘unhealthy energy’. To differentiate between healthy and unhealthy energies, you can paint the divining rods black for “unhealthy energies” or white for “healthy energies.” (This is an age-old method of programming your mind. If you are looking for underground water you may paint the divining rods blue or purple, whatever colour means ‘water’ to you, or grey to tune into Earth energies from standing stones).

You will find at some point they turn at right angles away from the screen. Follow carefully, and you will see that you are tuning into a wave, which will return to the computer after a few feet. My own computer (240 volt, in the USA you will have a different reaction) gives out about 30 waves, most of them from the back.

Interestingly, if you put a quartz crystal on the top of your computer you will find the distance these waves travel is much reduced, but I have found that if you put a small crystal under stress – squeezing it in a G-clamp or small vice, and leaving it on top of the screen of your computer, the waves are even shorter. The distances they travel on my own computer are roughly:

Without crystal - - - - - 68 inches (73 cms)

Large 5 inch citrine crystal -- 27 inches (69 cms)
Small 1 inch quartz crystal -- 25 inches (64 cms)
Small 1 inch crystal under stress 7 inches (18 cms).

You will see from this that the size of the crystal does not seem to matter very much (but note that the massive types of semi-precious stones like pink or rose quartz will not work) and that you can easily and cheaply reduce at least this type of energy into your person. Personally, I find working with computers very tiring, which is not surprising when you are aware of all the different types of electric and magnetic fields which these appliances produce (see my book *Safe as Houses*). (Placing a compressed crystal on top of a standing stone amplifies its existing ley line, but we will investigate that later).

There are a number of books which go into this subject of dowsing in detail, (some are listed in the Further Reading section at the end of this book) and it is a good idea to read as much as one can on the subject, to enable your mind to accept what is, certainly, a very strange art.



Figure 8: Meggernie Castle, Glen Lyon, where the designers diverted the river beneath the dungeons to dispose of its miscreants.

A Tunnel Beneath a Dungeon

Some of the easiest things to find are tunnels, as the US Army

discovered in Vietnam, locating underground complexes built by the Vietcong. Some years into this fascinating research, I followed a ley line to Meggernie Castle, Glen Lyon, Perthshire, and met the gamekeeper and his wife. They asked me to locate a tunnel which was said to pass from the castle to the nearby river. When the castle was built this tunnel was incorporated into its structure and the unfortunate inmates of the dungeons, when they had finally succumbed, were tossed into it, their bodies being swept into the river. This gruesome tale seemed impossible, however, as the castle is only a few feet above the river, and any tunnel leading to or from it would be full of stagnant water.

The 'keepers wife pointed to a deep depression on the flat, expansive lawn. This she said, was another tunnel, partially collapsed, running westwards from the castle to a small burial-ground, and I could practise locating the tunnel there.

A wide, sinuous wave of energy was emitted vertically from the partially collapsed tunnel, and this ran towards the old burial-ground, but unexpectedly curved past it, and ran beneath the castle and on to the river, to disappear at the riverbank. Retracing my steps, the wave, almost as if it was bouncing from one wall of the tunnel to the other, ran from the river, beneath the castle and back to the river, further downstream, in a crescent shape, to give a good flow of water beneath the dungeons – a very simple solution to a perplexing problem.

If it is so easy to find tunnels, then you may like to find and follow hidden lava tubes or 'firehose entries' as they are sometimes called in the USA, or fissures and faults, like the notorious San Andreas Fault line in California. More of this later.

Investigating this fault with divining rods might yield some surprising results, as Antony Fraser-Smith, a professor of geophysics and electrical engineering at Stanford University has picked up sharp ultra-low frequency magnetic field signals several weeks prior to earthquakes. These signals persisted for two months after the 7.1 Loma Prieta 'quake, and he also picked up a signal a week before the 5.1 magnitude Parkfield 'quake of 1994. Since faults and fissures emit so-called "black streams" which are very injurious to our health, you can try and locate these with relation to any existing ill-health problems.

Indian sacred sites and the many pre-Columbian megalithic structures scattered around the USA are also worth investigating, and if you are interested in oilfields, then try and locate these, using a sample of oil as a 'witness'.

Chris Arnold

Chris Arnold, the co-author, has long been interested in the human brain's ability to sense subtle energies and the reasons why some, but not all, people see or hear phenomena and why these phenomena are very often specific to place. With a professional background in optics and a lifelong interest in geophysics and for the past decade in electromagnetics, she believes many of the visual, acoustic and tactile reports are explicable by the laws of physics, with eddy currents in the brain from natural high-amplitude energies. The human brain may be thought of as a tiny part of a global and natural Internet, responsive not only to endogenous (internal) signals, but also exogenous (external) signals. The human body is very sensitive to static electricity and geomagnetism and in these facts lies the answer to the question: phenomena – or physics?

In 1939 she was, with many other children, evacuated to Cornwall to escape the bombing of London. At play, other children told her about the 'jewels' to be found on the nearby beaches, so, many happy hours were spent poring over handfuls of sand and tiny pebbles looking for these coloured 'jewels'. Soon she had collected tiny green, red and, rarely, blue crystalline treasures, carefully hoarded and gloated over in a small box.

'Rubbish', said the adults. 'That's just broken glass rolled in the waves.' But the sharp eyes of the optician-to-be knew glass from crystal even then. Many years later, to her great delight, she read in a text on geophysics of the gemstones to be found in certain parts of Cornwall. Tourmaline (green like an emerald), pyrite (fool's gold), chalcedony (a form of quartz ranging from white to grey, blue or black), quartz and serpentine (green) are just a few of the many gems and minerals which have developed as millions of years ago magma welled up through the cracks – faults in the granites of the West Country. This was her first intimation of the wonders Nature could produce from her energies far below. The old legends were indeed true.

Then there were the ghostly outlines of buildings which appeared in the grounds of her boarding-school in Hertford, England – but only in frosty weather. Quite invisible normally, the outlines of ancient walls were clearly marked on the ground, to the wondering eyes of schoolgirls looking down from the height of the dormitory windows. This led her to think back in time to earlier people, their mode of life, their thoughts, and marvel again how natural energies (in this case very cold weather) could show as such a 3-D image. And then there were the special places – but

you must read on to find the reasons why a place can so affect us . . .

We do not think of our bodies as being magnets on two legs, but nevertheless this is so, and like all magnets, the system will respond, in a greater or lesser way, to an ambient magnetic field, whether man-made, like an electric shock, or from the Earth, as with walking across an active fault. Remember that all flowing electrical current has a mirror image of itself at 90 degrees to the direction of flow – this is the magnetic field. Our nervous system is a giant electrochemical matrix and our brains are effectively a 3 lb (1.4 kg) power station constantly sending electrical signals down the neurons to our toes, fingers, gut, etc., along intermediate channels, the nerves, blood vessels, cell membranes, bioelectrical closed circuits, myelin sheaths and muscles. We may think of these as the power lines of our bodies.

There are many sites where clumps or chains of magnetosomes (like tiny bar magnets) only nanometres in length will all dance and swivel to the call of a local magnetic field. When such magnetosomes are suddenly ‘zapped’ by an electrical shock, or lightning, or maybe the charge in the quartz (piezoelectricity) of a standing stone, the rotation of the particles is affected, as is the electrical potential of cell membranes, neurotransmitters and synapses, and this in turn affects the chemistry of free radicals, extremely energetic particles which zip around the body. As Dr. Galt, at Gothenburg University, states, the particles are ‘free to rotate like a torsion pendulum’. With an external magnetic field, which may be in the local environment, a ‘sick office’ or a RF (radio frequency) hotspot, an enhanced sensitivity follows. Imagine a grandfather clock with a biomagnet as the pendulum, but now, instead of a gentle side-to-side motion, it revolves as well. Impossible? No, at microscopic cell level, this is happening.

Electrosensitivity

This is the term applied to the problems of a growing group of sufferers found in technologically advanced countries who have the ability to affect, and are themselves affected by, electronic and electrical equipment. Electrosensitive (ES) people are also found in areas of high natural geomagnetism, for example, the Highlands and Islands of Scotland and parts of Wales, Cornwall, Oregon, California and Iceland, to quote but a few. This syndrome has been derided by many in the medical profession, but is taken seriously enough in Sweden, Norway,

Germany and Austria for ophthalmologists, dermatologists and immunologists to have set up special clinics to treat those affected.

So what is ES? On the equipment side, it means that an individual can, quite unwittingly, wipe bank cash machines after touching the central panel. Computers can crash, radios will crackle and TVs can even change station and crackle loudly when they pass by, due to the enhanced radio frequency energy emitted by the stressed body. Such individuals can also stop watches or cause them to run fast or slow when in use and give big electrical shocks to people they touch. Some have even had such a high charge that a mini-lightning flash is visible when, for example, they attempt to kiss or embrace. Dr. Michael Shallis was one of the first scientists in the UK to draw attention to this effect, though he received little acknowledgement for his pains. But it is obvious when their symptoms are compared from their personal notes and reports (remember that they are unknown to one another), that this is a real syndrome which is, with very few notable exceptions, not at all well addressed by GPs.

In interviewing ES people, it appears that certain factors are common to all:

- The person has had an electric shock, perhaps from a live wire or power point. The person has been struck by lightning or been in a lightning 'splash'.
- The person was born in or now lives in an area of high geomagnetism, a geomagnetic anomaly area, where the magnetic field can range from a few tens of nanoTesla (nT) over deep metamorphic basements to several hundred nT over basic intrusions and several thousand nT over magnetic ores. Igneous rocks, basalt and some ironstones are noted for such anomalies.
- The person carries a very high electrostatic charge.

(All of the above can send currents flying around the body, triggering great eddy currents in the vessels, brain, brainstem, etc).

It is clear that there is no joy in the phenomena. Rather, it is a source of embarrassment and disruption – imagine not being able to stroke your cat, as it is terrified of your touch, or kiss your partner, lest a shock be transmitted as lips meet. Other symptoms are sudden acute pain, specific to place, with no logical reason, sudden nausea, extreme weakness, the sensation of ants walking on the skin or water dripping on the head. Some of these are skin effects from the electrical field while others are due to

magnetic fields (to which the skull is totally opaque) causing eddy currents deep in the brain, etc).

When someone who is ES passes close to a device which is itself emitting an electromagnetic field, albeit small, the two may be imagined as 'talking' to one another, the positive poles being attracted magnetically to the negative poles, and interference and malfunction are the extreme results.

Symptoms of Electrostress

Typical of the problems with electrostress are the problems which Mr and Mrs John MacKenzie (pseudonym) of Banff, Aberdeenshire, Scotland, have suffered.

It started with a persistent and continuous whine, 24 hours a day and seemed to be on two levels, one a low continuous drone, and the other a high pitched frequency, both almost imperceptible, although they were strong enough to hurt their ears and gave a slight headache in their foreheads and made them feel spaced out and nauseous.

After a few hours in their house they feel pressure at the top and back of their heads, and sometimes a sensation of crackling and worms moving in their skulls, and once Mrs MacKenzie felt something like an icy cold raindrop zig-zagging down the centre of her forehead.

The noise peaks between midnight and 6 a.m. when they awaken with racing hearts (tachycardia) and on one occasion felt as if their brains had been on top of a spin drier all night, with the added complication of ringing ears (tinnitus).

Eventually they were forced to flee their house and stay in a tent when the 'humabuz' got too bad, something they had to do quite frequently, at times sleeping in their car in a layby.

Since Mr. MacKenzie is a teacher he had an associate, a physics teacher, check his house. The experience he had was of a whispering in his ears, and since then a large and varied number of experts have examined their house with no success.

A clue Mrs Farquharson revealed was that one day she heard a voice in her head saying just two rather rude words. It is not unknown for people to hear radio stations in their heads, particularly when close to a powerful transmitter, and this occasion happened just at the start of the Gulf war, when signals communications would be at their peak.

Some years ago, when David Cowan was researching the energies

from nuclear submarines moored in a line at Faslane, Gareloch, on the west coast of Scotland, he discovered, via his divining rods, that each submarine was emitting waves of energy in a radial pattern, and two or more submarines emitted overlapping waves, sending a powerful and artificial 'ley line' both fore and aft for some considerable distance. Going to the small village of Clynder two miles down the coast, he found the tightly overlapping waves quite easily, and using his binoculars noted six Trident missile submarines in a line pointing towards the village.

Seventeen miles further down the coast and in line with the submarines is Largs, where some people have complained of the 'hummbuz', and it may be that it is a synergistic combination of radio waves and earth energies at certain points – each nuclear submarine uses enough electricity to power a small town.

The Seven Senses of Man

Classically, man has five senses. Twentieth-century research adds two more: electricity and magnetism. The full list is:

- Sight: visible, infra-red and ultraviolet
- Hearing: audible sound, ultrasound and infrasound
- Smell: variable sensitivity
- Touch: variable sensitivity, neuropathies reduce
- Taste: variable sensitivity, illness affects
- Electrical: We all emit and are sensitive to, electricity. Excitotoxins can trigger, in the brain of fit, normal people, motor, somatosensory, autonomic or psychic symptoms, with no impairment of consciousness. Hairs rise, fingers, toes and lips tingle, hallucinations of sight, smell, taste and touch can occur.
- Magnetic: We also emit and are sensitive to magnetic fields, whether these are man-made or natural (seismic). We have magnetosomes in the brain, thymus, lungs, spleen, liver and ethmoid sinus and in the haem in our blood. The pineal, hypothalamus, Ammson's Horn in the hippocampus and the ethmoid sinus are all highly magnetosensitive to very small field strengths, as is the limbic system.

Our direction sense, biolocation (dowsing) ability and the ability of some to affect compasses, electrical and electronic equipment appear to be related to our electrical and magnetic senses.

Biolocation

In the Middle Ages the Germans named this *da Sein* ('it is there'), and before them the Romans knew it as 'Augury' and its users 'Augers'. Unfortunately, in the UK it is known as 'dowsing', a word with somewhat negative connotations since we 'douse' fires to put them out, and in the USA it is known as 'Witching, or Water Witching' by some, hardly a better phrase. The Russian twentieth-century terms 'biolocation or biosensing' are the most accurate and logical and describes exactly what happens – the human body can locate objects.

Having been used for many centuries to detect underground water and minerals, dowsing has now become much broader in scope, as mentioned earlier, with individuals specializing in discovering oil reserves, tracing geological faults, and locating the origins of unhealthy radiations from a variety of sources, including from the fissures in the geological strata – nearly every house and office has unhealthy radiations from subterranean sources. It is also used in archaeology to find underground remains and the foundations of buildings.

A Marvellous Device

However, dowsing needs a sophisticated vehicle. This marvel was developed long before *homo sapiens* began to walk upright. It had an electrochemical structure with exceedingly complex wiring and built-in indicators for heat and cold, which enabled it to tell when it was too hot for its own correct function, or too cold for its safety. It could automatically adjust itself for humidity, had sensors for particulate matter, an inbuilt compass for direction finding and could easily tell if it was light or dark.

Some of these built-in sensors darkened to protect the invention's vehicle if the sun gave out too much ultraviolet energy, and it could tell if a surface was hard or soft. Its automatic sensors also knew just how much liquid it needed to function, and most models could sense water, even though it could not be seen. This marvellous device could even sense subterranean metal ores, and through its complex sensors locate all manner of objects, both natural and man-made, including metals. You,

the reader, have the latest version – it is, of course, the human brain.

What Is Going on in the Brain in Distant Sensing?

Natural Earth energy bands are in the same frequencies as those of our own brain waves. Within the brain, certain areas, like the pineal and the hypothalamus, are extremely sensitive to magnetic fields, to which the bones of our skull are totally transparent. The temporal lobes, the limbic (edge) zones are also magnetosensitive to magnetic fields, however sourced. Eddy currents, from Lenz's Law, are set up in deep layers of the brain, thus stimulating areas biochemically and electrochemically.

In high magnetic fields, slow waves of the brain *increase* their rate of firing. Slow wave nerve cells increase in *coherent* activity. Such eddy currents in local tissue can rhythmically depolarize deep neural structures which are normally accessible only by surgery. These effects will vary between fat and thin people, whether standing, sitting, or reclining, walking barefoot or shod, or standing on grass, granite, quartz, or on a non-conductive surface.

The most ancient and therefore most essential part of the brain is the vestibular apparatus with the cerebellum and its philogenetically most ancient section, the medial area. Is it possible that this part of the brain, once vital for existence, is slumbering, waiting to be awakened into action by the art of biolocation? It is indeed curious that so many people who have either received a powerful electric shock or been near to, or even hit, by a lightning strike seem to develop faculties which they did not exhibit before. In fact, medical research is now being undertaken into sub-clinical electrical effects. We now know that profound but yet subtle effects are caused in the brain and body. One of the pointers to field effects are the natural (endogenous) magnetosomes found in the brain, ethmoid sinus, thymus, spleen, lungs (of smokers) and liver.

In the sensory perception of dowsers four factors are paramount:

1. Magnetite particles, magnetosomes in the body
2. Minute gravitational anomalies over the Earth
3. The speed at which the brain and body traverse such areas
4. The natural magnetic field of the Earth, which has enormous local variations.

Every living thing on Earth is subject to a multitude of forces: gravity,

magnetism, planetary forces, the Coriolis Effect and the Sun, to which we must now add man-made fields. We have some idea of the rise and fall of the tides and sunspot activity, but are in the main far less familiar with the subtle energies from flowing water, buried ore bodies, the oscillation of the planet itself, and its interaction with the energies from beyond and above the Earth.

Living systems will normally react to these infinitesimal changes connected with the lithosphere and atmosphere with climate changes. However, if the ambient fields reach sufficient strength – and this response will vary with different individuals – there will be a nulling or negating effect to the biolocator's response. Many a TV documentary on dowsing in a crowded studio has been a disaster as the combined magnetic fields from TV cameras, lights and humans override the subtle effects on the brain of the dowser; this is known as 'magnetic saturation'.

Few people realize that simply by walking across the ground, and thus cutting across the natural geomagnetic field of the Earth, they are producing electromotive force, voltages in the body from the application of Faraday's Law. By moving very slowly at the rate of 1 metre a second, an internal field of 4 microVolts/metre is generated (equal to 2 milliGauss), but if one runs very fast at a speed of 8 metres a second, the internal electric field is 400 microVolts/metre (or 200 milliGauss).

Static Charge in the Human Body

Apart from this, our bodies carry a natural static charge, about 100 v/m for every one metre we stand above the ground. A six-foot tall man, for example, carries 200 v/m and if he extends his arm fully above his head the charge will rise towards 300 v/m. Conversely, if he comes closer to the ground, whether kneeling in prayer as a Christian, kissing the ground like the Pope, bowing with the forehead touching the ground as Muslims, or prostrating himself, he will literally earth his body, and the excess static charge is discharged.

How It Works

There are almost certainly two modes for the biolocation process, both located in the brain. The first is the response of magnetite to minute field

strength changes from deep flowing water (ion potentials), minerals, rocks and ore bodies, etc.

The second is what Prof. Erwin Laszlo, leading scientist and philosopher, calls the 'Psi phenomenon', and Robert Sheldrake the 'morphogenetic field'. Most people are familiar with the Internet, which enables instant communication between people world-wide. Think now of your brain, that 3 lb. (1.4 kg) of grey matter, nerves and neurons as the Internet of nature, a distant location system and even on occasions communication channel between yourself, other people and objects. Both Laszlo and Sheldrake, with many other serious researchers, believe that the ancient methods of communication over distance, as practised by the Australian aboriginals and the Kogi people of Columbia, for example, can be activated by many people, especially at times of high emotion.

In Arabic there is a word which is of great significance. It is the word *baraka* (spirit). This may refer to the 'spirit' of an object, implying association with its maker. When we say we feel 'drawn' to an object, perhaps an antique, or an image, we sometimes say 'It speaks to me.' And so it does, but in subtle ways, quite beyond its artistic or practical usage.

Professor Laszlo writes that we have to open up our minds to this sensitivity. If people are 'shut off and say, like some sceptics, that it does not exist, they will not be aware of it. They walk through life, so to speak, with their mental eye closed. Open up your awareness and this information channel will flow – your very own Internet!

Both macro- and microscopic effects of the electromagnetic radiation, which is all about us, are determined in humans and animals by the direction and magnitude of the fields inside the head.

Magnetic Anomaly Point

Now for a little quantum physics! As light is now known to be both a wave and a particle, so Man is both physical and spiritual. We can no more separate the one from the other than water can flow uphill.

The letters M A P mean to most of us a cartographic representation of roads, towns, hills, etc., but within every map of this type there lurks another, albeit unseen. This is the Magnetic Anomaly Point, the summation at a point in space, on or under the ground, of the totality of magnetic fields, including seismic, solar, planetary local and magnetic fields.

When geophysicists speak of ‘percolation theories’ and dowzers of ‘veins of water,’ both are addressing the same subject. Porous rocks and reservoir rocks (those holding water in strata) exhibit permeability to liquids and act as conduction fluids for Earth (seismic) energies. We know that springs emerge on the spring line, a junction between rocks at discontinuities. In the same way, oil seeps from shales along lines of weakness and over millennia, mineral-laden fluids seep up from the magma far below, metal ions are deposited as the superheated liquid cools and we find seams of gold, tin, silver, copper, and so on.

Electrofiltration potentials on the Earth are created by the combination of flowing water, both above and below the ground level, and the filtering actions of rocks, chalk sediments and aquifers. Depending on the body resistivity of the dowser (high resistivity=poor dowser, low resistivity=good dowser) so response to the natural electromagnetic gradient of any traverse will be poor, good or excellent.

This is complicated by the fact that what is known as ‘dip’ is also involved, the angle of a MAP to the central core of the Earth, that dynamo which drives all life, in conjunction with solar energy. This dynamic movement is now considered to be the major cause of continental drift or plate tectonics, a subject first postulated a mere 40 years ago and now the subject of major research by Earth scientists.

To return to the magnetic field, the average magnetic field in the UK is 50 microTesla, but it varies enormously, often over a very small area, depending on the deep rocks below ground (ironstone, basalt, haematite, etc). and nowadays also on the presence of TV and radio transmitters, together with other equipment which emits electromagnetic fields in order to carry its signals. The field also varies around the steel cores of modern buildings.

Bewitched

The New Builder in September, 1991, carried a strange story regarding building works at Castle Mall in Norwich, England, where a £125 million shopping mall was being built beneath an ancient castle mound. It was on a 164 feet (50 metre) stretch outside the old fortress gates where workers found that steel piling sections were rejecting each other in a manner similar to the like poles of a magnet. It was impossible to get welds to take and some cracking of underground sections was discovered. Expanded Pilings, the installation company, quickly found that the piling

casings seemed to be strongly magnetized. The casings, however, only became charged (with magnetism) when brought on to the site and further investigations showed that “previously cast piles were found to be affected, together with their steel reinforcement.” A search of the area failed to find underground cables, generators, or substations capable of producing magnetic fields strong enough to affect the work. Attempts to degauss the casings (neutralize their magnetic field) were unsuccessful but welding was eventually restarted using industrial magnets to counteract the force.

The source of the magnetism remained a mystery, but Geotechnics managing director George Ballard was recorded as saying that an electric or magnetic source was inducing a flux in the casings. A look at the map of Norwich shows clearly that Anglia TV headquarters is located 135 yards (125 metres) from the site and BBC TV 820 yards (750 metres). Was it the reactive fields of the nearby TV stations or a power surge or over-voltage from a lightning strike (which may have been some distance away) which affected the metal casings?

Further, ‘Chips’ Barber, writing in *Ghosts of the West Country* (Jarrod Publishing, 1996), reported a similar occurrence when building work was being carried out at St. Anne’s brewery in Exeter. Here, metal pilings, lying flat on the ground, ‘jumped about in the air’ terrifying the workmen carrying out the building operations.

A riddle, noted by Prof. Zasbig Harvalik may be also explicable in bio-electric terms. His experiments showed that in a magnetic field produced by a DC current, the dowsing reaction succeeded only when the left side of the dowser was towards the electrode carrying the negative flow. When the dowser turned around and walked back towards the start of the route, the reaction ceased. When we consider that, amongst the *mêlée* of natural currents in the brain then, is one which flows constantly, as DC current, from back to front, along the calcarine fissure (the middle of the brain, where the two halves meet), we can see that an equal, but opposite current will negate, or cancel out, the natural brain signal. The brains of dowsers show higher than background Delta and Theta rhythms when dowsing.

The late Dr. Bill Sutherland, who was working on the physics of the dowsing response prior to his death, discovered that areas of high energy, which Guy Underwood called ‘blind springs’, exit the earth vertically, or nearly vertically at the end of a fault (these blind springs are similar to the black or white spirals from underground sources and may cause ill effects on some individuals who are sensitive to them. We will discuss these

shortly). To visualize a fault, think of a line of trees running for perhaps a few thousand yards. Then, in your imagination, turn the line of trees upside down and place it well below the surface of the Earth. There is, then, a main trunk (the primary fault) the thick branches (the secondary order fault) the thinner branches (third order fault) and the twigs (fourth order fault). In addition, there will be dilation (expansion) or compression of the rock strata below the earth, and the clay, chalk, or sandstone, etc., near the surface, depending upon the deep strata movements, so it is easy to see why the ends of such faults have powerful blind springs at their ends.

Spirals of Insects

Many insects and animals are drawn to Earth energy sources in just the same way as they are drawn by the energy emitted near electric cables (as distinct from the energy running inside them). Many have also observed how ants and termites like to crawl along such cables. In *Pattern of the Past* (Abacus 1970), Guy Underwood noted that cattle tended to congregate on top of barrows (man-made mounds from the pre-Roman period), and that these are located over blind springs. Cows and deer like to sleep at these places, hares make their forms (nests) there and blackcocks (a type of grouse) have their ritual courting at such spots. Hares were considered to be sacred in the past. Could this be due to the fact that they unerringly make their way to areas of high, naturally healthy energies? Also as Underwood remarked, ‘The nest hills of moles, “fortresses”, where they give birth to their young are always on “blind springs”, as are badger sets’.

Underwood also relates an interesting story from an old book on the Peninsular Wars. Old campaigners, sleeping rough, would always choose a place where a cow had laid down, due to the fact that ‘if they slept there, they knew they could not get rheumatism.’ In classical literature Cadmus founded Thebes at the place where a sacred cow came to rest, and Troy was reputedly selected for the same reason.

The Clerk of Works at Salisbury Cathedral told Guy Underwood that sometimes great swarms of gnats would arrive in a cloud. In 1736, 1952, and on other occasions, when the gnats circled the spire, the sight was mistaken for a fire, and the fire alarm sounded. The clerk told Guy

Underwood that ‘these gnats or flying ants were half an inch long and if a workman was bitten by one, the bite was very painful’¹.

We are all familiar with those irritating columns of flying insects in our summer gardens. These columns, comprised of hundreds of gnats or midges, will, if disturbed by someone walking by, or swatted away, return speedily to the same place, a vertical column of Earth energy. In Chris’ large garden in the Chilterns, three such columns were visible year after year, always in the same places. What is especially curious, is that tulips planted in two identical dwarf wall beds on the terrace, each 17 yards (15 metres) long, grew prodigiously in the bed by the insect column. Indeed, the above ground part of the tulips was often measured at 3 ft. (91 cm), whereas in the other bed, planted with the same type of bulbs at the same time, the height was a modest 18 in. (46 cm). Sunlight and watering were identical, the only variable, apart from Earth spirals, was the height of the plants.

¹ Guy Underwood, *The Pattern of the Past*, Abacus, 1970.

CHAPTER THREE

Walking the Energy Leys

Cup-marks – the Key to Ancient Art and Science

'Everybody placed in the luminous air spreads out in circles and fills the surrounding space with infinite likenesses of itself and appears all in all and all in every part'

LEONARDO DA VINCI, *JOURNALS*

Cup-marks, sometimes called petroglyphs, cupules, or rock art, have puzzled scientist and layman alike for over a century. They range from simple hollows about half an inch (12 mm) across, carved on rock, to large 'basins,' 6 inches (15 cm) wide. Some are surrounded by a ring or rings which may be gapped or have a groove running through them. Others are joined together by a groove usually running from the cup, suggesting to some people that the stones have been used for sacrificial purposes, to let the blood run away, although there is no archaeological evidence for this.¹

Since there is very little dateable evidence associated with cup-marks, experts can only guess their age. In 1979, one eminent archaeologist, Ronald W. B. Morris, who spent the major part of his working life investigating them, suggested a date of approximately 3,200 BC to AD 100. This vague dating has not been improved upon by other researchers.

Cup-marks can be found world-wide, usually in clusters. In Britain there are few north of Perthshire or south of Yorkshire,² although some can be found in Derbyshire.³ They may be discovered on standing stones, in cists, stone-age coffins, on earth-fast boulders in fields, small movable boulders, horizontal rock faces, or hidden in caves, like Wemyss Cave, Fife. They can also be found below ground in chambered mounds and

¹ Ronald W. B. Morris, *The Prehistoric Rock Art of Argyll*. Dolphin Press.

² Ronald W. B. Morris, *The Prehistoric Rock Art of Galloway and the Isle of Man*. Dolphin Press.

³ Stan Beckensall, *Rock Carvings of Northern Britain*. Shire Publications Ltd.

souterrains (sometimes called weems, fogues, or earth houses), thought by archaeologists to be simply cellars for storing grain and keeping livestock, like Pitcur near Dundee. Here a heavily cup-marked stone guards the interior chamber to the right of the author in this picture (*see Figure 10, below*).



Fig. 9. A fine display of cup-marks at Ormaig, near Kilmartin, Argyllshire, Scotland.

Some earth houses of this type have cup-marked stones in their structure, possibly having been cannibalized from more ancient structures in the area, but there is a more intriguing theory which will be discussed later.

A few years ago, a remarkable discovery of rock carvings was made near the village of Mauchline, Ayrshire, in Scotland, where a cliff face, with cup-marks, sun symbols and other carvings was uncovered, having lain unnoticed behind the thick vegetation which preserved the figures in the soft sandstone (*see Figure 11*). To the left of the person in *Figure 11* is a line of cup-marks, which can also be seen at some other sites, like a cliff face at Petroglyph Point, Near Newell, California. This site was an island at that time, and the carvers had to approach the cliff face by boat in order to peck out these strange inscriptions, said to be 2,500 to 4,500

years old.



Fig. 10. Cup-marked stone at Pitcur, near Dundee.

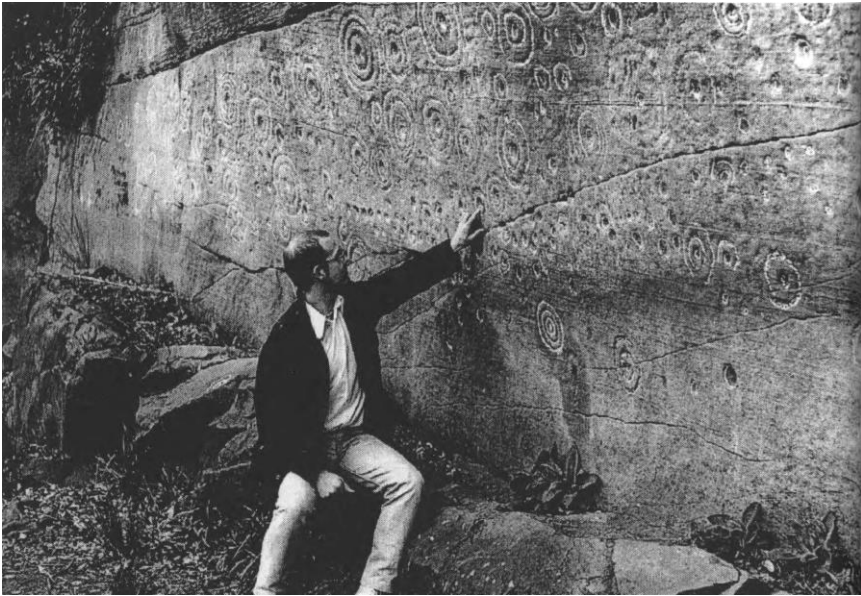


Fig. 11. The cup-marked cliff face at Mauchline, Ayrshire. Notice the line of small cup-marks extending to the left and right of the raised hand of the figure, very similar to marks found at Petroglyph Point, Newell, California.

Salvatore M. Trento, a researcher in the USA has discovered that the magnetic field at one end of this cliff face was much higher than the other. The lowest readings coincided with the highest concentration of petroglyphs, a feature which will recur throughout this book.⁴

Back in Scotland, at Ormaig, near Kilmartin in Argyllshire, another beautifully preserved series of carvings of over 300 cups, rosettes, keyholes and cup-and-rings has been preserved under a carpet of grass (see Figure 9). R. Morris, in *The Prehistoric Art of Galloway*, gives 104 different theories regarding the reason behind cup-marks. These include a belief in magic, in the afterlife, use as a tuning device and a plan for Megalithic structures. As will be shown, each of these theories appears to have an element of truth in it. Morris also provides some clues, which he thought might lead to the rediscovery of the reason behind this ancient art:

⁴ Salvatore M. Trento, *Field Guide to Mysterious Places of the Pacific Coast*. Henry Holt & Co. Inc.

1. Cup-marks are nearly always carved where there is a fine open view, often within sight of the sea or estuary.
2. Carvings on outcrops of rocks are usually made on parts of the rock which are horizontal.
3. There is no evidence of any fortification of the site.
4. On standing stones, carvings appear on the principal stones on an astronomical alignment.
5. If they are on outcrops of natural rock, they are within 6 miles (10 kilometres) of a site where copper or gold ores have been worked.

Most petroglyphs are carved in such a position that the sun can shine on their surfaces, even in some underground structures like Newgrange in Ireland. Here, Martin Brennan and researchers have discovered that the remarkable construction techniques of the builders allow thin shafts of light to penetrate the furthest recesses of the chambers to highlight specific carvings for a short period of time at important days of the year.⁵

This form of 'light-beam dialling' has been noticed in other countries, too. At Fajada Butt in Chaco Canyon, New Mexico, a similar form of light enhancement takes place on two spirals carved on a rock face. A sliver of light shining between two rocks moves vertically across the faces of one carving at noon on the summer solstice, while a narrow beam crosses the smaller spiral at the equinoxes, although some researchers, I have heard recently, are not entirely convinced that it is a genuine ancient artefact.

In Italy, some interesting discoveries were made under the leadership of Emmanuel Anati, who researched 130,000 carvings in an area north of Milan. He discovered that the ancient artists used a wide variety of colours to emphasize their carvings.

One site he surveyed was the 'Map of Bedolina' at Valcamonica Lombardi, a flat outcrop of rock which had been carved with cup-marks surrounded by squares and rectangles, and rather more unusually, some reasonably straight lines which are thought to be a map showing buildings, fields, paths and streams.⁶ This is likely to be closer to the truth than many of the theories proposed to date. The carvings are no ordinary map, but a pattern of telluric or Earth energies, with the petroglyphs transmitting telluric energy between standing stones, stone circles, burial-grounds and homesteads in an astonishingly highly evolved manner.

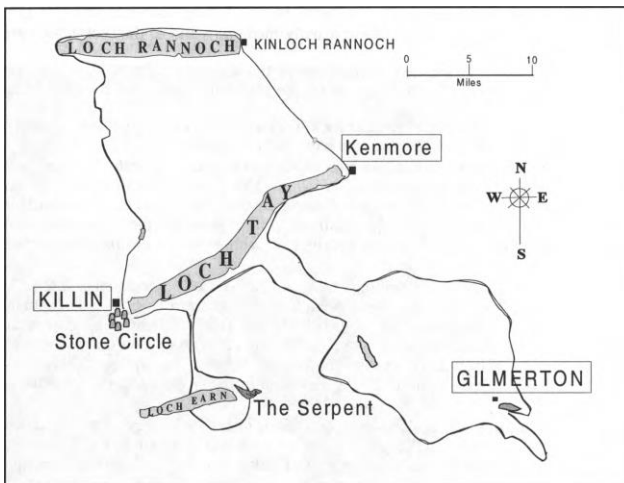
⁵ Martin Brennan, *The Stars and the Stones*. Thomson and Hudson.

⁶ P. and O. Stochan, Ireland. *A Journey into Lost Time*.

Many archaeologists regard these ancient marks inscribed on stone to be of less interest than standing stones and circles. However, I am sure it will be found, in due course, that they are basic to them. This book argues that the carvings, or at least some of them, can be decoded to explain many of the mysteries behind the perplexing stone monuments. In Welsh folklore it has even been claimed that they hold the key to all the knowledge of the arts and sciences of the ancient world.⁷

The Engraved Stone at Connachan Farm

Following my initiation into the energies between the standing stone at Stonefield Farm and its nearby earthworks, I decided to spend a quiet hour or two mapping the energies around a recumbent cup-marked stone at Connachan Farm. This lies in the centre of a hollow in the hills near the entrance to the beautiful Sma' Glen, to the north-east of Crieff. Little did I realize that my 'quiet hour or two' would stretch into eight years hard labour!



Map 1. This circuit of energy at first made no sense. This was to come later.

From this stone I found many waves of energy, so I picked one at random, intent on following it until I discovered its purpose. The summer and the autumn had slipped past, winter was approaching, and it was time

⁷ Rodney Castleden, *The Stonehenge People*. Routledge & Kegan Paul.

to start walking the peaks in earnest.

Mile after mile, I plodded along, quite unsure that I was going to find anything at all, but glad to be back walking the two and three thousand foot hills covered with snow and ice. Every so often I would encounter something of interest on this energy ley, which I came to call cup-mark leys (all of the leys in this book are comprised of waves of energy, therefore from now on I may omit the word energy). Sometimes it was a church, sometimes a burial-ground or castle, and even, on occasion, ancient tracks which had evolved into modern roads. Many of the old burial-grounds were unknown to me, and were not marked on the 1:50,000 O.S. map, convincing me that I was following an ancient circuit. The cup-mark energy had been used and deliberately focused through the dead in these prehistoric burial-grounds.

This area is wild, mountainous country and the telluric energies were still working through the burial-grounds and other ancient sites, much the same as they had done when they were constructed thousands of years ago.

My research was beginning to take on the air of a major undertaking, judging by a large board which I had constructed, with several 1:50 000 Ordnance Survey maps pinned to it. I could watch my progress growing week by week, but unfortunately, the cup-mark ley I was working on seemed to be going nowhere at all. It appeared to wander in a haphazard fashion across country, and at times I became dismayed and frustrated with the pattern which was beginning to emerge – it bore no resemblance to the cup-marks on the parent stone at Connachan Farm. Nevertheless, I obstinately followed the energy, which took me north to Loch Tay, further north to Loch Rannoch, round the northern shore, and at last, to my relief, worked back southward to Loch Tay, with an almost circular excursion around Loch Earn.

Then, to complete the circuit, it returned to Gilmerton, a small village to the east of Crieff. Here are some artificial mounds, which I later realized were part of the circuitry responsible for directing the cup-mark leys over a wide area of Scotland and northern England (*see Map 1*).

The Circuits Take Shape

Many hundreds of miles of walking later, other patterns emerged inside the first, each becoming a little more like a dumb-bell in shape, until the basic dumb-bell circuit emerged, just like a very prominent cup-

mark on the Connachan Farm stone (*see Figure 12*). Yet even this cup-mark ley had another circuit inside it, a mere skeleton, which in turn was composed of other fields of energy building the pattern piece by piece.

It had become obvious that I had been blindly following the complicated dumb-bell shaped energy fields from the outside to the inside, rather like opening Pandora's box. Earth energy researchers are often accused of having 'belief systems,' of forming a theory and subconsciously following their own 'thought patterns' to prove that their own theories are correct, but most of the research in this book cannot be dismissed in this manner. The energy systems were discovered by following them with divining rods, the theories came later.



Fig. 12 The cup-marked stone at Connachan Farm, near Foulford Inn, in the Sma' Glen, Crieff. This is the centre piece of a whole system of Earth energies.

The dumb-bell shaped ley closely resembled the cup-mark on the stone at Connachan, and the circular detour around Loch Earn on the outer circuit neatly mirrored a smaller cup-mark nearby. Eventually, other roughly circular leys were found which could be associated with the patterns carved on the stone.

Through experimental work I had discovered that when a cup-mark ley encountered a stone circle, it was warped to a different area, so I went to the stone circle at Killin, west of Loch Tay, to pick up this warped energy, and in the depths of winter, followed it, sometimes floundering on my belly like a penguin on snow too soft to stand in – this research can become a compulsion. Three streams of energy were emitted through the six gaps of this stone circle all travelling to the Balquhiddar area, famous for the outlaw Rob Roy MacGregor.

This pattern and the dumb-bell shape, together with the circuit from the stone circle, tallied with the dumb-bell cup-mark and one of its smaller satellite cup-marks on the stone (*see Figure 13*).



Fig. 13. This dumb-bell shaped petroglyph eventually revealed its secrets.

The mystery of the petroglyphs had at last been discovered, and the secrets of the standing stones revealed – a secret which may have profound effects on our modern cultures world-wide.

'Straight' Leys

There was, however, much more to the energy system in this area than this. For some years I had realized that burial-grounds, churches, etc., had streams of telluric energy passing through them, not only from cup-mark leys, but also from other directions. These were the traditional 'straight' leys. They intersected the terrestrial cup-mark energy system and at these crossing points, ancient sites had been placed. My evolving telluric map was slowly and painfully taking shape.

I also discovered another type of straight ley, with surprisingly few ancient sites upon it, that just touched the cup-mark leys, apparently moulding them into shape.

But to gain further insights into our ancestors' use of telluric energy, it was necessary to understand what it is attracted to and what repels it.

CHAPTER FOUR

The Strange Qualities of Cup-mark Energy

An Intriguing Insight into the Earth Energy System

'He who has a professorship may be said to receive his food from the stall. But he who finds his food for himself at the hands of Nature is better off in the open field.'

SCHOPENHAUER, 1788–1860

Cup-marked stones emit energies of unusual qualities. The waves associated with the cup-marked stone at Connachan Farm, for instance, are quite different from the straight leys which most people associate with Earth energy or telluric energy. (We will have a closer look at these later).

The energy emitted from the cup-marked stone in the Sma' Glen follows the contours of hills and valleys. It does not travel over the hills as straight leys do and has similarities to the Chinese *ch'i*, which flows along the 'dragon paths' the Chinese geomancers know so much about. In addition, this particular site is located in a saucer-shaped depression amongst the hills, a *Yin* (female) power point. Examples of *Yang* (male) power points are Edinburgh and Stirling Castles, and The Devil's Tower, Wyoming, dominant rocks surrounded by plains.

Even though some of the standing stones and circles associated with Connachan Farm stone have been partly or completely destroyed, it is still 'working', and I was able to use it to uncover some of the startling properties of telluric energy.

Taking the Easiest Path

As the circuits slowly came to light, it became apparent that apart from following the contours of hills, the energy also followed ancient tracks and modern roads, the roads simply having evolved through time from the tracks along the original route of the telluric energy. This seemed logical, since the weak cup-mark energy always follows the easiest path, free of obstacles. On occasion it would follow railway tracks for some distance, until it abruptly broke away from its modern route and went back to its prehistoric path. The rails, in most cases, had been removed long ago and the cup-mark ley simply followed the easiest route once again. Often it followed sheep tracks across hillsides heavily overgrown with ferns, or even ran down ‘tramlines’ in cornfields.

The Attraction to Water

The cup-mark leys I followed are attracted to bodies of water including lochs, (lakes) the smaller lochans, and quite small puddles of water, even when they are covered in ice, but not if frozen solid.

That this type of energy was attracted to water and followed the contours of hills was easy enough to understand, but some months later there occurred a series of bizarre incidents which gave me a unique insight into the manner in which these circuits propagate, even thousands of years after their construction:-

Tuning into Animal Carcasses

It was late spring in 1981, and I was hard at work following the almost circular cup-mark ley around Loch Earn (*see Map 1, page 28*).

Near St. Fillans on the shore of Loch Earn is a rock, some 10 yards in length, visible from the roadside, called ‘The Crocodile’ which I had discovered on my endless perambulations of this energy system to be part of the circuit. More correctly known as ‘the Serpent’, it is not a stone carved by nature in one of her capricious moods, but one carved by man, and no doubt painted by him from its earliest inception (*see Figure 30*). The tradition of painting this rock is still regularly carried out by a local resident. I followed the sinuous energy down a glen to this peculiar stone

with some amusement, realizing that it was part of the age-old serpent cult. Stone-age man, unable to understand the propagation of wave energy as we do to-day, must have regarded any creature which moved in a sinuous fashion with great reverence. The wave led me to a narrow gorge a few hundred feet up the hillside.

The winter had been harsh, and nature had taken her toll of the unfortunate and weak of the wild animals, so I was not surprised when my divining rod led me over the carcass of a deer in that narrow ravine. There seemed, however, to be something more to this – the rod seemed to ‘tune into’ the remains of the beast. I recalled a similar incident on another hill a few years prior to this, when the rods had responded in a similar manner. As I mentioned earlier, this form of telluric energy is very lazy, and picks out the weak points on a hill, the lowest point of a ridge, for example, so it came as no surprise that the dead deer was on the path of energy in this ravine, which is possibly what Earth energy researchers call a ‘hill notch’, carved out of the hillside by human hands. This acts as a ‘telluric flyover’ with another ley crossing above at this point. My angle rod did seem, however, to pull me towards this carcass, accurately over the centre of the partially frozen animal.

There was no time to investigate further, however, a bitter wind and snow scudding horizontally across the hill forbade me to do anything else but walk on to keep warm. Several hundred feet higher I gave a grunt of disgust, the snow-covered ‘boulder’ I had just stood on was soft and mushy – a dead sheep this time! Slightly perplexed, I carried on once more, until a few hundred feet higher, on the summit of a small heather-covered mound swept bare of snow by the bitter, screaming wind, the ever-weaving wave led me to the remains of a racing pigeon killed by a bird of prey, judging by the feathers scattered around.

Puzzled, I walked on, to be led to another dead bird, and another, and yet another, each time my divining rod tuning in with unerring accuracy.

Further on, as I jumped down from a high peat bog, something gleaming white caught the corner of my eye. There, in the lee of the mound was the skeleton of a large seagull, lying on its back, wings outspread. This too, was on the outer edge of the cup-mark ley. At this height I could spare no time at all for a closer investigation, as the ground was frozen solid and the biting wind and scudding snow insisted that I keep going. Exhausted and weak, I suddenly tripped, and without even the strength to put my hands out to save myself, I tumbled head first into a tussock of grass. Finding myself losing consciousness, I struggled to my feet, knowing perfectly well that lying on the ground unconscious for

even a few minutes was courting disaster, I struggled to my feet and kept going, the black cloud in my head gradually dissipating. In the distance I could see a small stream in full spate dashing down the hillside. This, I thought, would slake my thirst and could also be used to mark the point at which I had left off, so that I could return the following weekend.

Carefully following the ley to the stream, I put my divining rod down and drank copiously from the foaming water, then shrank back in amazement. There, indistinct in the rippling water, just beneath my cupped hands, was yet another dead bird! I stared at it for a few seconds in disbelief, then walked back down the glen and home.

Homesteads on the Circuit

The following weekend I returned to that little stream from the Loch Tay side. The previous week's storms had abated and it was a beautiful spring day with blue skies and a hint of warmth in the air. With some misgivings, remembering the strange – even sinister – events of the previous week, I started where I had left off following the cup-mark ley the previous week, this time down to Loch Tay.

On the way I occasionally tuned into the remains of some unfortunate animal or bird, until contouring the side of a hill, several hundred feet above Loch Tay, a ruined building came into view. As I drew closer it became obvious that this was no derelict farmhouse, but an old church with its attendant burial-ground. It was not marked on the map, and was one ancient site I certainly did not know about: Cille-ma-Charmaig, the cell of St. Carmaig.

The fact that this old site was unknown to me and on the circuit boosted my morale, and I took a short break to investigate the old gravestones, while giving some reflection to their position, several hundred feet above the loch. The modern road was far below, near the loch, which was much more convenient, but there was no doubt that the ancient shielings, the crude little stone-built homesteads, were built higher up, alongside Cille-ma-Charmaig and in the closely spaced waves which were always a feature of the outer part of the cup-mark circuit. It was obvious that the little houses were built to take advantage of the waves of energy which contoured the hill at this point.

In many years of hill walking I had come across many puzzling features of our past in the landscape, such as these old homesteads. Many of them seemed to be situated strangely far from water, a basic necessity

of life. Now the siting of these little shielings and churches was beginning to fit a pattern – a pattern of telluric energies.

Walking briskly now, over the grassy farmland, with my divining rod smoothly following the sinuous wave, I began to feel more comfortable since this recent discovery. Something, however, in the distance gleamed white, something I couldn't identify at that range. Nevertheless, my divining rod was turning towards it and, somewhat apprehensive again, I carefully followed it. A few score yards away, the object became clearer. It was a skull – a sheep's skull!

Bewildered, I decided to call it a day and walked back to my car. Driving home, I pondered over the recent events. Discovering the church and burial-ground was a bonus which verified my research, but this energy seemed to possess the strangest qualities. It tuned into so many different and strange objects: skulls, dead deer, sheep, birds, caves, and also, I reflected, a discarded oil drum, and cattle troughs.

Then, as I drove along, the answer came in a flash – the objects were all resonant cavities. If you can imagine standing in a cave whistling, and increasing the pitch until your whistling vibrates, you will get the idea of a resonant cavity. The sheep's skull was a perfect one. Whether clothed in tissue and flesh, or the bare bone, apparently, it made little or no difference. This was one of the most fascinating and important discoveries of my research.

Cavity-seeking Energy

Later that spring it became obvious just how sensitive to cavities this type of energy is. On one occasion it warped from its normal path, around a hillock to focus on the pelvic girdle, all that remained of the skeleton of a deer, and a short time later it did the same with the scattered vertebrae of yet another animal. On yet another occasion it deviated to the body of a fox, lying with its head on its paws at the entrance to a rabbit warren and literally frozen solid.

Over the years I have made more discoveries about this curious effect. It has become obvious that the energy in a cup-mark ley responds to a number of objects, besides bones and skulls. Cars, lorries and tractors parked near a circuit will immediately draw the energy into them, and in Glen Almond I found a derelict cottage that attracted the energy into it. The energy passed neatly through the door and out of the fireplace. Later I found many such houses whose chimneys and doors were usually the

entrance or exit points of this particular type of energy. Windows, another weak point in a building, were also an attraction.

Curiously, although the outside ‘working edge’ of the cup-mark ley tuned into the centre of a deer stalkers’ one-roomed bothy near Schiehallion, (the faery hill of the Caledonians, multi-roomed houses (and burial-grounds as I discovered later), are just on and within the outer circumference.

Near Killin, at the west end of Loch Tay, a concrete conduit underneath the road pulled a circuit well away from its original track and neatly gathered the energy into its mouth. On other occasions, a number of similar concrete and iron pipes stacked awaiting construction of a Hydro-Electric scheme were also powerful attractions.

Mounds of boulders had the same effect, as the interstices between the stones were sufficient to create a strong attraction. This was, presumably, one of the reasons why they were used in the construction of burial-chambers – to attract this energy into them.

This also helped to explain why I had so often come across old shielings on my journeys. Along with the prehistoric burial-cairns, our ancestors had built their little stone-built dwellings on cup-mark leys. It was also noticeable that the major cup-mark leys passed through these shielings along their lengths. I discovered the reason for this much later, when I stumbled upon another form of Earth energy which entered the broad face of the buildings, and was responsible for their precise location.

New Graves Attract Energy

Other intriguing aspects of this phenomena revealed themselves. At the burial-ground of Lawers, on the north side of Loch Tay, some friends asked me to teach them to find this particular form of Earth energy, so I showed them how to find the outside ‘working edge’, with other similar waves running parallel to it (burial-grounds, like castles, were always placed on these powerful points). One person found that many of the waves were eerily focused into a recent interment instead of flowing evenly across the burial-ground. This was another aspect of the cavity-seeking qualities of cup-mark energy – in this case it was tuning into a cavity below ground (*see Figure 14*).

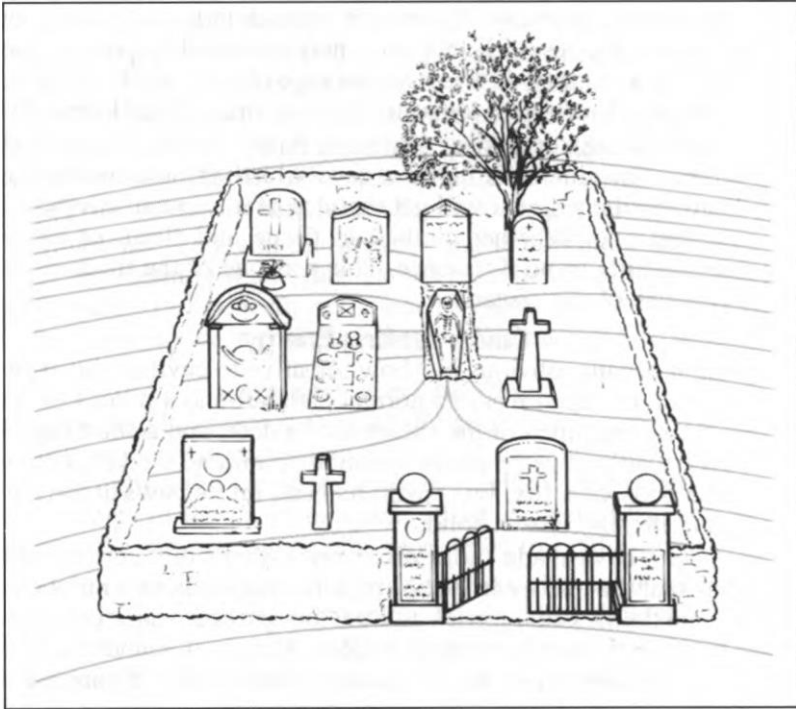


Fig. 14. This old burial-ground has been placed at the outer edge of a cup-mark ley. The wave effect is not shown for clarity. Notice that the waves are more concentrated at the outer edge (top of illustration), and that the recent interment attracts a number of waves.

Quarries

Sheep fanks (circular structures of drystone walling) and quarries also pulled this circuit in from some considerable distance. While doggedly following a cup-mark ley, I would sometimes be confronted with a yawning chasm directly in my path, through the centre of which the working edge of the cup-mark ley neatly passed.

Quarries, like any other resonant cavity – a sheep’s skull, for instance, emits one wave, which is projected out for some distance, eventually collapsing back to complete the circuit, then out again, forming a spiral, and another wave in the opposite direction, which does likewise. When I walked out from the centre of the spiral in a quarry, the interval between each wave decreased until I found the outside ‘working’ wave, several

hundred yards away. This is similar to the cup-mark leys, which have waves compacted close together at the outside edge where burial-grounds are situated.

Wavelength and Amplitude

The sinuous waves in both straight and cup-mark leys both have amplitude and wavelength. The wavelength is measured from two similar points on each wave, whilst the amplitude is from the central line to the crest of the wave. Straight leys have waves which do not move, (standing waves), and cup-mark leys have waves which have a cycle – imagine tying a rope to a pole and shaking it slowly from side to side.

If you carefully follow such a wave on snow-covered, sandy or muddy ground, your footprints will indicate the wide sinuous energy. After a few minutes, stop and retrace your steps. Initially, you will retrace your footprints, but after a few seconds you will be out of phase, and it will take almost two minutes before you are completely back in phase again, irrespective of what speed you walk.

Shape Waves

The discovery that cup-mark energy is attracted to cavities had been preying on my mind for some time that winter. I was still working the cup-mark leys when an opportunity for further research presented itself, after another series of winter storm casualties. This culminated in the skeletons of several sheep dotted along a cup-mark ley.

On my first encounter with the sheep's skull I had noticed that the outside wave I had been following had given a curious little circle directly above the skull, which made me suspect that the skull itself radiated energy. Now, when I tuned into one skull, I found a 'shape wave' circling around it, similar to the stone at Connachan Farm, as well as to quarries, and other resonant cavities. The wave spiralled out from the skull until it collapsed back to begin another circuit *ad infinitum*. It was emitted from one side of the skull, spiralled clockwise in an ever-increasing replica of the skull's shape, eventually collapsing back into it from the opposite side, no matter which way the skull was turned. The image formed by this shape wave from the skull was 354 feet (108

metres), taken across the width of the skulls image. There was also an identical shape wave, but *in the opposite direction*, anti-clockwise. The waves were compressed together at the outer edge, just like the cup-mark ley (see Figure 15).

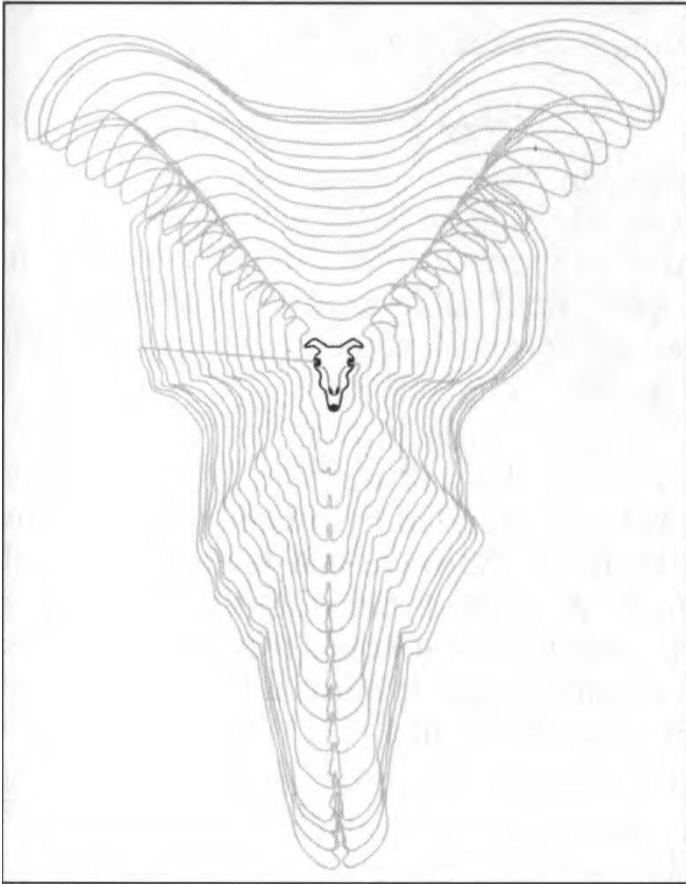


Fig. 15. The telluric pattern of energy around a sheep's skull.

What had happened was now becoming clearer. The incoming cup-mark energy, as it chanced to touch the shape wave created by the skull, was deflected into the centre, passing through it and continuing on its way. There seems to be a law of physics which insists that the incoming cup-mark waves radiate inwards at right angles when they contact such a

shape wave.

A similar type of shape wave is produced by any object standing on the surface of the planet – a telephone pole or high-tension pole, for example. I tested an ordinary wooden pole to find its energy field and found that the shape wave around it was circular, as one would expect, and travelled out clockwise before collapsing back to begin the anti-clockwise circuit again. This field extended as far as the shadow of the pole.

This type of shape wave may be induced by solar energy. The wavelength is 144 inches (366 cm), and the amplitude 24 inches (61 cm). The cycle is a standing one.

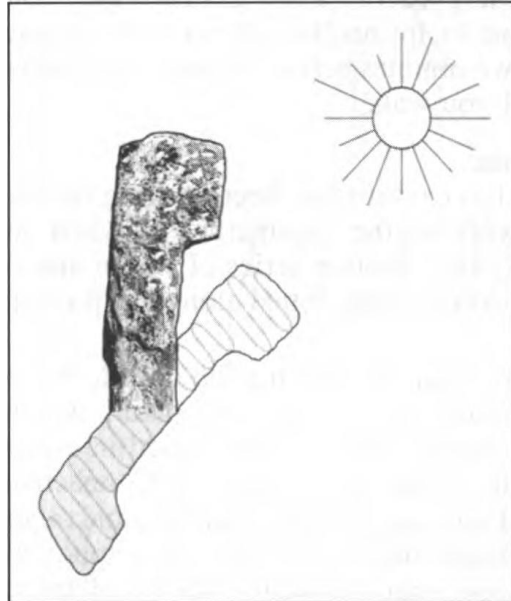


Fig. 16. A wave of telluric energy flows down the shadow of 'The Chieftain' standing stone, accurately following its contours. There is also a mirror image of energy into the sun.

The Chieftain's Grave

Following this discovery, I decided to investigate the Chieftain's Grave, a standing stone on the shore of Loch Rannoch, to find its solar-induced shape-wave (*see Figure 17*).

A wave of energy was emitted down the shadow of this stone, faithfully following the outline on the ground, wavelength 86 inches (218 cm), amplitude 8 inches (20 cm). This is a standing wave. It also has a strange ‘mirror image’ circuit copying the shadow of the stone but falling in the opposite direction, *into the sun* (see *Figure 16, page 37*).

Other Strange Qualities

In open country, cup-mark energy travels in smooth, sinuous waves, which can be followed using the divining rod. I found that, on a number of occasions, however, after encountering boulders, it would veer towards other boulders, as if it were selectively tuning into them. A wave was sometimes compressed, sometimes expanded. This perplexing problem was resolved by yet another coincidence.

Following the outside working wave across a steep hillside full of boulders, I found that the wave suddenly turned at right angles and travelled uphill for some distance – quite unusual. As I walked slowly on, puzzled by this curious departure from its route, I noticed that one of the boulders the wave had tuned into had the remains of an iron spike embedded into it. A short distance away, other similar boulders, also with decaying iron spikes, were the focal point, then, as abruptly as it started, the wave swung back on to its original track, towards a loch, almost as if it had strayed too far from its original, programmed route.

The iron-studded boulders had been part of a dry stone wall, and at one time had been strung with wire to form a boundary fence until an avalanche had destroyed it, leaving the boulders scattered in disarray. In effect, there were now a number of boulders, each with an iron core, randomly distributed.

With mounting curiosity, I retraced my steps. The cup-mark energy had, purely by chance, encountered the first iron-spiked boulder, and then began to seek out other similar boulders, before breaking off, back to its original route. These particular boulders had, apparently, a powerful attraction, which I was later to call ‘sympathetic resonance’. Later still I was to encounter a similar effect with the stumps of trees in a cleared forest. It is probable that any objects in tandem, made of the same material, would exhibit this effect, providing the cup-mark ley had been programmed to find it, simply by touching it.



Fig. 17. 'The Chieftain', Loch Rannoch. There is a tiny incised carving of an axe on the reverse. Schiehallion, the Faery Hill of the Caledonians is at top left.

Reflecting upon my original theory of cavity-seeking energy, which had picked out the bodies of animals between Loch Tay and Loch Earn, I could see that sympathetic resonance of this type could also have been a factor in the attraction of this energy to these animal carcasses.

The Strangest Characteristic of All

Some months later I was following a long sinuous cup-mark wave in Glen Lyon. With years of experience, I had no need to concentrate at all, and my mind wandered as I walked along, enjoying the scenery of this

remarkably beautiful and colourful glen, thinking of a host of trivialities as I walked.

Without warning the wavelength began to decrease. From a measured 24 feet, 2 inches (7 metres 32 cm), it suddenly decreased to less than 1 metre, while the amplitude remained the same (3 feet 8 inches or 1 metre 7 cm), making me weave sharply from side to side. Obviously, there had been an input of energy from some source, but where? As I concentrated on this new quirk, the wavelength gradually increased, until it was back to its original length. 'Perhaps it was interference from a crossing ley', I thought, so I followed the wave back the way I had come, only to find that it obstinately refused to repeat the occurrence, so I walked on and gradually forgot about the incident.

A few minutes later there was a repeat performance, and I floundered around, bewildered at this sudden change in the waves' characteristics. Again reversing direction and concentrating on trying to explain this anomaly failed miserably.

Puzzled, I stopped and took stock of the situation. After a little while, with growing trepidation, I realized that there *was* a link. On both occasions I had been thinking of the years a friend and I had roamed the hills together, before his early death. When I once more concentrated on these thoughts, and followed the wave, the same effect took place!

When I cleared my mind of any thoughts, the wavelength eased out to its normal distance, but every time I concentrated on my deceased friend, or anyone else who had died, the wavelength decreased, although it did take a little while to take effect with some people I had known – the longer they had been dead, it seemed, the longer it took for this strange energy input to take effect. Thinking of Fingal, the ancient semi-magical warrior, for instance, also worked, but concentrating again, on someone still alive had no effect whatsoever. It was many years later that I discovered that this is a classic case of wave interference – the existing cup-mark ley being modified by an external source, in this case myself concentrating on someone who had died, but why did it only work when I thought of someone who had passed on?

It was with unease that I realized that this type of energy was one of the most important of the telluric energies connected with the ancient burial-grounds. If other researchers can duplicate this extremely bizarre discovery, then the only interpretation is that our ancestors believed they were communicating with the spirits of the departed.

Modern Attraction

On several occasions the circuit would pointedly swing away from its normal route and tune into one of the high tension suspension towers of the national grid, noticeably on the north shore of Loch Rannoch where it passed neatly between the legs of the pylons, one after the other, for some miles, until it abruptly veered back to its original path. A few other researchers had noticed this before, and believed that the wave had simply attached itself to the electric or electro-magnetic fields associated with H.T. cables. However, on several occasions, in open farmland, the wave I had been following had tuned into water derricks (windmills with a very similar construction to H.T. pylons), therefore the electric field theory could not be valid.

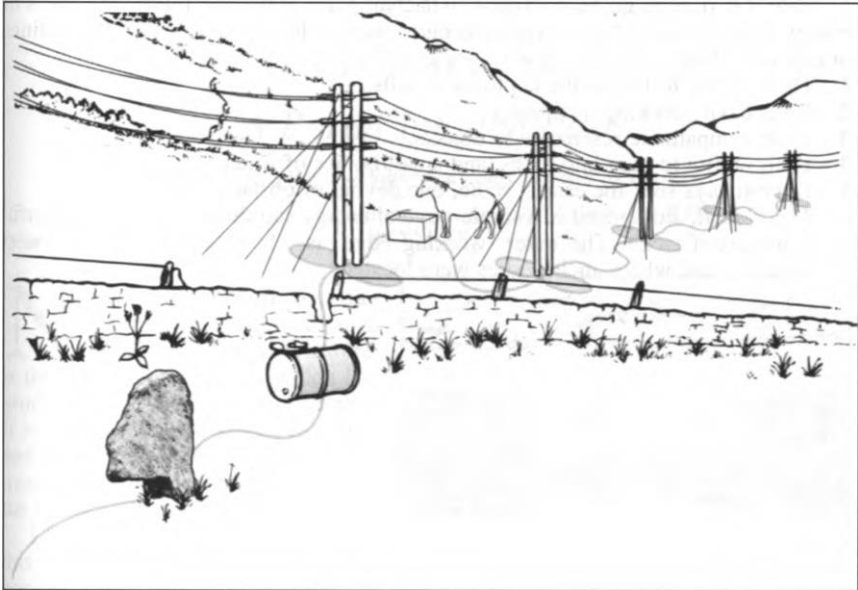


Fig. 18: The outside 'working' wave of this cup-mark energy ley passes through the tiny standing stone, then tunes into a resonant cavity (oil drum) and through the weakest point in the wall. It is then attracted through the H.T. pylons, to the horse trough containing water before passing down the line of H.T. pylons.

Closer inspection revealed that the legs of the pylons each emit their own highly elliptical circuits, radiating away from each other. (The

wooden two-legged pylons had similar telluric loops from their legs). The energy induced by the feet of pylons, whether of wood or metal, form a telluric 'net' which capture the roving cup-mark ley when it happens to be in the vicinity (*see Figure 18*).

Barriers

There is another quirk of cup-mark energy – it avoids Forestry Commission plantations. The trees are so close together that they form an impenetrable barrier. Often, the energy will deviate some distance to pass by the edge, or travel down the firebreaks. Wire fences are another noticeably awkward barrier. I noted that where a cup-mark ley crossed a field surrounded by a wire fence it would enter by a wooden gate, or an open metal gate, and exit by the distant corner post, almost as if it were leaving the unpleasant obstacle to the last possible moment. Other favourite entrance and exit points were via collapsed or partially collapsed drystone walls.

Now it is time to go back to the Connachan Farm stone and follow the shells of energy from its basic shape-wave to its outer energy shell, remembering the qualities of cup-mark leys:

1. Their ability to follow the contours of hills.
2. Their cavity-seeking qualities.
3. Their sympathetic resonance to objects.
4. Their ability to tune into lochs, and small bodies of water.
5. They always seek the easiest route, one devoid of obstacles, if possible.
6. Their 'shell,' comprised of a single wave of energy spiralling out from a powerful cup-marked stone. The outer 'working edge' is where the waves are closest together, and where ancient sites were located.

CHAPTER FIVE

The Cup-Mark Skeleton

A Portal into the Past

'The Great Book of Nature can only be read by those who know the language in which it was written.'

GALILEO GALILEI, ITALIAN PHYSICIST

Near Connachan Farm, opposite Foulford Inn, at the entrance to the Sma' Glen in Perthshire, is the recumbent megalith which has grudgingly yielded many of its secrets. It is heavily adorned with cup-marks and serves an entirely different and more powerful function than any of the standing stones in the area.

I originally thought that the energy this stone used was emitted from an aquifer several hundred feet wide and several hundred feet deep beneath it, but over twenty years later, working on an updated version of this book and following the Highland Boundary Fault or Fracture Zone which traverses Scotland, I found, to my amazement, that it is one of the faults on this zone which is the source of energy that powers this stone and the ley line system over much of the country. (*Figure 18, above and Map 22, page 174*).

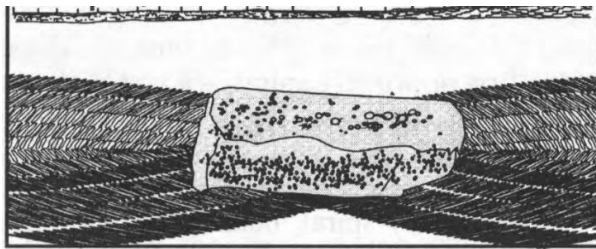


Fig. 18. A wide stream of energy, comprised of many thousands of waves from a fault on the Highland Boundary Fracture Zone traverses Scotland and focuses into this cup-marked stone. This megalith is the most powerful and most important part of the ley line system over much of the country. (Orientation of stone altered for these illustrations for clarity).

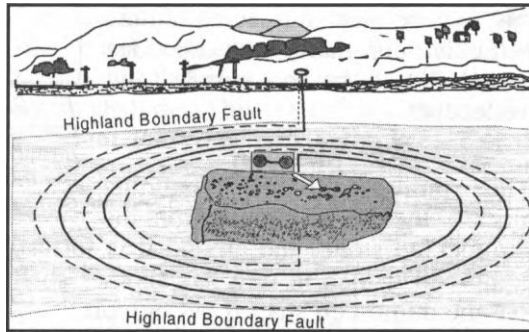


Fig 18a. The primary spiral. A wave is emitted from the recumbent monolith, spirals around it to the edges of the fault, then is ejected to the small mound at the top of picture, returning to the stone. Inset shows the dumb-bell shaped petroglyph.

The width of the Fracture Zone here is about a mile across and this particular fault varies from 20 to 30 yards wide, and the powerful waves, less than 1 millimetre in wavelength and less than 1 mm apart and about 30 cms in amplitude, focus into this stone on their way across the country. This was the only place where this focusing effect took place (spirals attract and focus some types of Earth energies) and this is the only megalith in the area on the HBF.

Percussing this stone induces another type of wave which can be found spiralling out clockwise from the stone until it abruptly leaves at an acute angle and travels across country to a small mound several hundred yards away, spirals around this in turn, then returns to the stone, inside the original spiral (see Figure 18a)

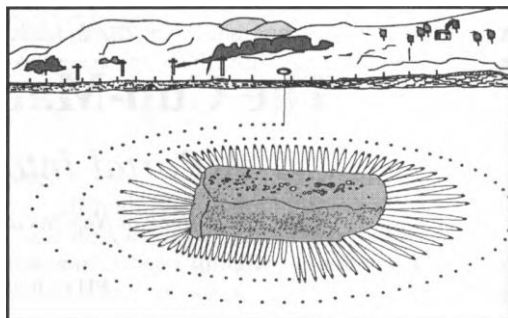


Fig. 19. Imagine the spiral above as a series of dots. A second wave is emitted from the stone around each dot and back. . .

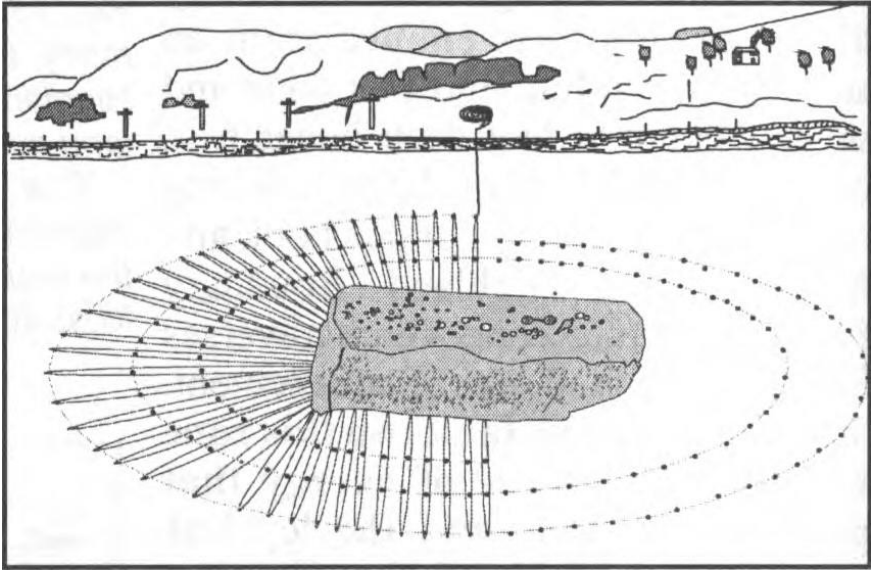


Fig. 20 . . . until it reaches the edge of the fault and collapses back into the stone to begin the circuit afresh. The primary wave is now free to travel to the mound. Note that the area round this stone is concave in shape, like a modern TV satellite dish.

The basic spiral is formed by a secondary wave of energy pulsing from the stone and interacting with the spiral. To understand this, it is better to think of the first or primary spiral as a series of dots, travelling outwards in ever-increasing circles from the stone. The secondary pulsing energy travels from the stone, around every dot and back until, having reached its zenith, it collapses, ready to begin the circuit afresh (*see Figures 19 and 20*).

The primary spiral, held in place by this pulsing energy which travels only as far as the edges of the fault, collapses and is now ejected to find an attractive location, in this case the low mound, which it spirals around a few times, before returning to the stone, inside the primary spiral, forming a dumb-bell shape, very similar to a prominent cup-mark on the surface of the stone (*arrowed in Figure 18*). Initially, I believed that this pattern was the secret of this particular cup-mark, but this idea turned out to be too simple, and misleading.

The Skeleton

This spiral is the initial building block of the energy circuits from the cup-marked stone, and around it is formed a larger circuit, like the skeleton of a dumb-bell, which in turn has another shell of energy, this time, at last, strikingly like the dumb-bell shaped petroglyph.

Let us follow the skeleton circuit from the stone.

For the sake of simplicity, assume that the energy is emitted from the stone and travels in a clockwise direction, although in practise it is very much more complicated than this, since there appears to be inputs of energy from other sources at various points.



Fig. 21. A portal into another world – the Druids' Cave from the remains of The Kirk of The Grove. This, the focal point of the cup-mark leys for a wide area, may explain why this type of ley tunes into cavities as it crosses the country.

The energy leaves the stone (*lower right of Map 2, page 46*) and travels along the road to Monzie, where it passes through the first of the churches and burial-grounds on this circuit. From here it contours round to the standing stone at Stonefield Farm mentioned earlier, before travelling in a north-easterly direction to the Druid's Cave, and, as it does so, through the site of another chapel, the Kirk of the Grove, just a few yards from the cave. Around this chapel, long ago, according to one source, there was a

burial-ground, although there is nothing to be seen of any graves to-day.¹ (The word 'grove' at the focal point of this system would have delighted Alfred Watkins, since his studies led him to understand that any place so named was on a ley line).²

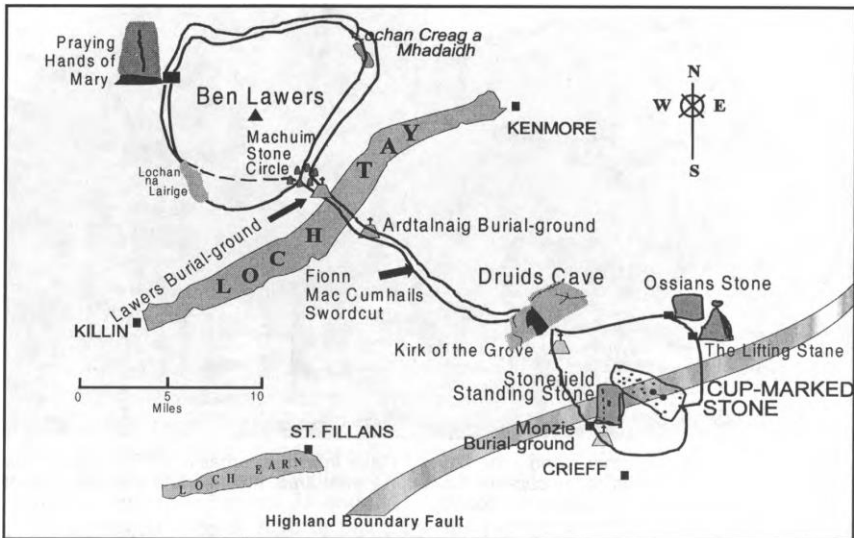
The Druid's Cave

Just a few hundred yards from the cave entrance in this bleak, inhospitable landscape, is a lone, battered and aged Scots pine tree. It has been left in peace for a long time, as there is a strange story attached to it. It is said that if any man cuts off a branch of this tree, the tree shall survive, but the man shall die. This is similar to the classical story of The Golden Bough, where the current *Rex Nemorensis*, the keeper of the tree, is challenged to mortal combat by any contender who wishes to fight to the death, simply by breaking off a branch of the sacred tree and offering it to the current king.

The Druid's Cave itself is an impressive man-made cave, built from several large rocks. The largest is a 16 foot, (5 metre) square block, with another five large slabs placed against it to form a cavity slightly smaller than the average living room. Not surprisingly, this cavern attracts the cup-mark energy from a wide area, and is the heart of the energy system for a large area of Scotland and Northern England. The structure is primitive, the size impressive (*see Figure 21, above*). Since the cave is the nucleus, the resonating part of the system, with energy of different types associated with it, it is not surprising that there is at least one unusual story connected with it.

¹ Oliphant Anderson and Ferrier, *Historic Scenes in Perthshire*, 1880.

² Alfred Watkins *Early British Trackways*, Simpkin Marshall. 1922.



Map 2. Powered by energy from The Highland Boundary Fault, telluric energy from the cup-marked stone (bottom right), is attracted clockwise up to the concave cavity of The Druid's Cave, passes through interstices at the rear and then travels across the hills to Fionn MacCumhail's Swordcut and further north to the centre of Loch Tay.

Passing across the loch it enters Machuim stone circle and is then warped in two circuits around Ben Lawers. Exiting from the stone circle it travels back to the Druid's Cave and on to the cup-marked stone.

This type of energy has several peculiarities: it normally contours hills; it is attracted to the centre of bodies of water, like lochs; and resonating cavities, which attract it uphill. There are four old communal burial-grounds and two individual cists on this circuit. The dashed line from Machuim stone circle to the north-west is this circuit's presumed original route, as the modern reservoir, Lochan na Lairige, deforms the original path.

The shepherd who supervises this area told me that he climbed up to the cave one day to see if there were any dead sheep inside. With his collie at his heels he entered the cave and was startled to hear a moaning sound, as if a wind was souging around the massive boulders. It was a hot day, however, hot enough for him to be in shirt sleeves, and not a breath of wind in the air. His collie, meantime, remained at the entrance, cowed, with ears held back, refusing to go any further.

The slabs resting against the boulder have been cunningly placed to form a concave shape, with interstices at the rear, to the north, and

through one of these gaps, the cup-mark energy streams out, contouring high across the hills, the huge cave having already attracted the circuit to a height of 1,600 feet (9487 metres).

The Flower of Highland Manhood

Some 3.5 miles (6 kilometres) to the north-east, the circuit tunes into another form of cavity – Fionn Mac Cumhail’s Swordcut, a large ravine near the summit of the Sidh (pronounced shee) or faery hill of Ardtalnaig, to the south of Loch Tay.



Fig. 22: Fionn MacCumhail's Swordcut. This ravine was carved, according to legend, by the warrior Fionn Mac Cumhail, using his magic sword. Snow still lies here at the beginning of July.

Fionn Mac Cumhail, better known as Fingal, was one of the mighty warriors of old, who kept the peace in Ireland as well as Scotland. Thought by some historians to have been the Captain of the warriors of

King Cormack around 224–283 AD³, it was he who gave the ravine its name. Standing with one foot on a hill to the east of The Sidh of Ardtalnaig, and one foot on a hill to the west, he is said to have stooped to drink out of Loch Tay. Then, with one swipe of his magic sword, Mac-an-Luin, every stroke of which was mortal, he carved out this chasm (*Figure 22, page 47*). He was indeed a mighty man, as the hills are several miles apart!

This is not the last we shall hear of Fionn, or of his band of warriors, the Fian, or his father Cumhail, for that matter. Even his son Ossian, the warrior who became blind in later life and who ended his days as one of the greatest bards, crops up again on the other side of this circuit.

The name Cumhail signifies a sky god (hence the word cumulus). Early in this research I came to the conclusion that these ancient legends of the ancient warriors, who may well have existed as early heroes, poets and Kings, were often allegorical tales of the qualities and location of the cup-mark circuits.

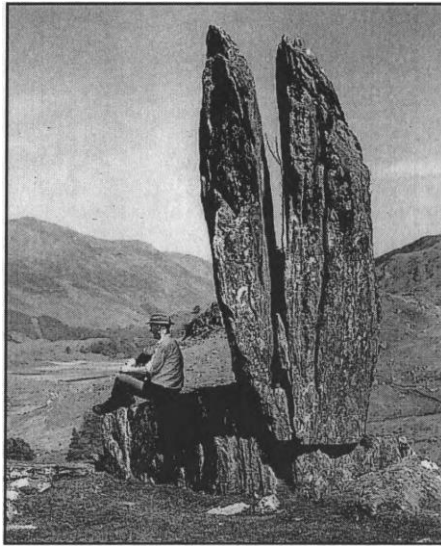


Fig. 23. The 'Praying Hands of Mary', looking towards Fortingall burial-ground.

³ P. S. Hall, *Battlehead Weapons Systems*, Brassey, 1991.

Energy Tunes into Centre of Loch Tay

From this ravine, where the stream of energy is focused to a few feet wide, it now descends rapidly, tuning into the centre of Loch Tay, a very powerful attraction and passes through the burial-ground at Ardtalnaig, the third burial-ground so far, down to the shore and into the loch. Adept at following this form of energy by now, I picked it up on the north shore and followed it up to the church at Lawers, then further on to the burial-ground there, and higher still to the stone circle at Machuim. Entering this six-stone circle from the south, the energy was warped through the gap between two of the stones on the west side and up over the foothills of Ben Lawers, to Loch na Lairige, now a reservoir, perched near the top of the pass, and down into Glen Lyon, the Crooked Glen of the Stones.

'The Praying Hands of Mary'

On a blistering hot day, I followed the circuit until I was confronted with a huge rock, almost like an unusually large standing stone. It was immediately apparent to me that this was not natural. Some 13 feet (4 metres) high, its massive bulk overshadowed me. Sensing something unusual and important, I walked round it and was thrilled to see the broad face change into two narrow pillars (*see Figures 23 above, and 24 page 49*). As I looked between the split stone, in the distance I knew, just out of sight, was Fortingall burial-ground, famed for its ancient yew tree, beyond that, a cluster of four-stone circles, and beyond that again, Croftmoraig stone circle, all in a straight line.

From the other side, the summit of Creag nan Eildeag appeared to the west in accurate alignment between the two narrow tongues of rock. There could be no mistaking it – a straight ley it must be. A glance at the map revealed that Meggernie Castle was next in line to the west, and a little further on its tiny burial-ground, where I had found the tunnel.

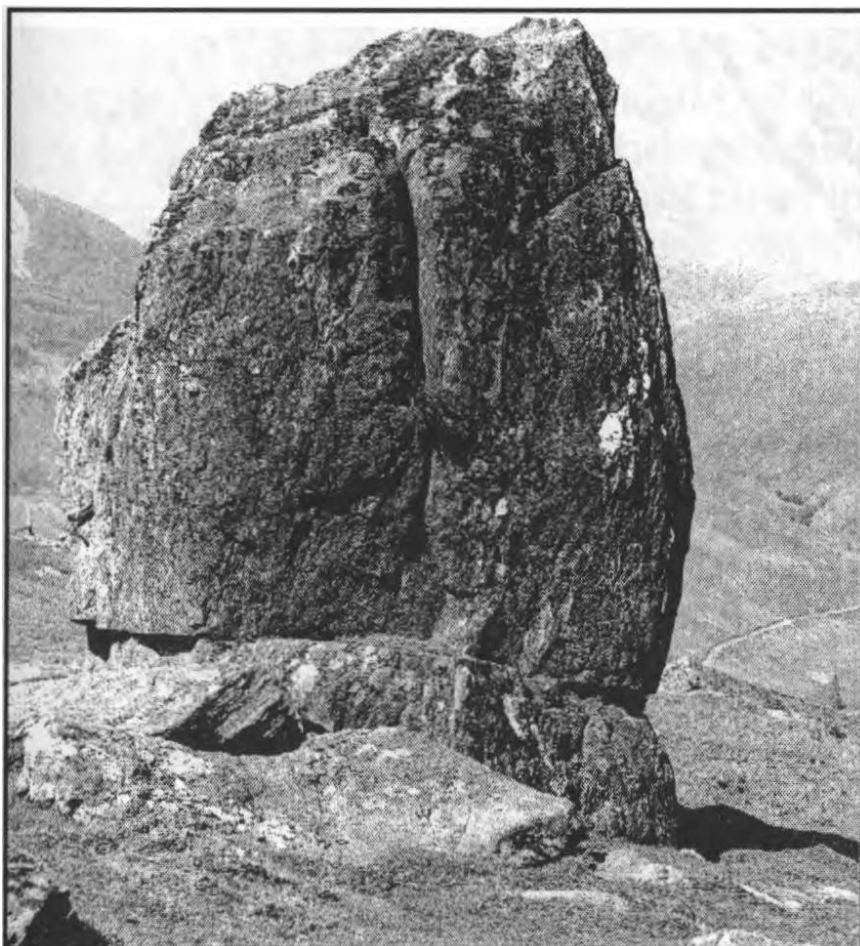


Fig. 24. The 'Praying Hands of Mary" from the south.

The original size of the stone pillar must have been impressive, judging by the amount of debris scattered at its base. Its width is now less than half of what it must have been, and its height must have been appreciably higher.

The Ghost of a Roman

I followed the old hill track, as old as the circuit itself, down to the

floor of the glen. This was as far north as the circuit travelled, and I now followed it alongside the river, through the site of another old church at Roro Farm, and on to another isolated farm, Roromore, where the intrigued shepherd asked me what I was doing. Can that explain the ghost in my upstairs corridor? he asked brightly, after I had given him a rough outline of my research:-

Apparently, several years ago, a guest, a business man from London, had to go to the toilet early in the morning and was aghast to see the figure of a Roman centurion materialize in the corridor, then fade away. As it happened, there had been a small Roman Camp at Fortingall, 5 miles (8 kilometres) to the east, where Pontius Pilate was reputedly born.

I continued following the circuit and it became obvious that it was returning over the top of the hill again, this time through a jumbled mass of debris from the scarred hill face above. Guessing that another loch was attracting the cup-mark ley, I wasn't in the least surprised to see Lochan Creag a Mhadaidh (the loch of the rock of the fox), in front of me at the summit of the east shoulder of the Ben Lawers range. Then the cup-mark energy ran down into Machuim stone circle and through the gap between another two of the stones, before warping out to begin another circuit roughly parallel to the first, back to the stone circle.

From here, on its homeward journey, it passes through Lawers burial-ground for the second time, the old cemetery having one of its corners truncated, perhaps because of the curving nature of the cup-mark ley here, and back across Loch Tay, into Fingal's Swordcut. From here it crosses the hills back to the Druid's Cave, where it entered one of the gaps at the rear, then exited from the mouth, down the Auchnafree road to Craignaver burial-ground, close to the road, down the Sma' Glen, under a bridge, and on to Ossian's stone. This is a large square stone, which rested at one time, reputedly, on the remains of Ossian, the blind poet son of Fingal.

The last leg of this circuit now, just a few miles, followed the old road up through this beautiful narrow glen to the 'Lifting Stane,' part of the original circuit. It was later used as a test of strength for Covenanters, who had to lift the heavy boulder on top.



Fig. 25. Plan view of the recumbent stone at Connachan Farm. The cup-marks, for some reason, are deeper at the far end. Twenty-five years later they are fast disappearing.

It is interesting to look at the complete circuit (*see Map 2 page 46*). It bears a striking similarity to the dumb-bell shaped cup-mark, but almost like a skeleton. It shows the circuit designed to accept seven burial-

grounds.

Cave Roofs, Domes, and Satellite Dishes

There are two important focal points of telluric power on this circuit: the concave cavity inside The Druid's Cave, and the concave depression in the hills which houses the Connachan Farm cup-marked stone.

Down the millennia, from the Neolithic period, through to the Bronze Age, the Etruscan, Greek, Roman, Christian, Islamic religions to the many others of to-day, there is a common denominator in their sacred places – the physics of the dome. This continues quietly to work its magic upon us, from the earliest realization of its significance of this special factor, to the fainter echoes of its potential to-day. Renaissance architects believed that the classical domed temple had special associations with divinity, perfection and unity, while in Roman times a *cella* was the underground central chamber in a temple. Over the centuries this has been corrupted into the word cellar.

A knowledge of the power of the dome can explain some types of 'paranormal' phenomena. Both spherical and parabolic curves will focus energies, not only light, as in a mirror, but also sound, acoustics (as with radars and sonars, heat (as in the thermal cookers used now in the Third World) and energy.

For gardeners, a simple example of the power of curved surfaces to focus energy is a dome-shaped drop of water on a plant leaf. In bright sun this will focus heat from the sun and burn the leaf below, and for car owners, a puddle of water on the roof and bonnet of some cars can have the same effect, leading to light patches on the paint work.

The principle of energy focusing by domes was described by Nikola Tesla in 1900, and in 1904 Hulsmeyer, a German, designed the *telemobiloskop* (mobile telephonescope) as an anti-collision device for ships, based on this idea. The first patent for radar was credited to the Germans.

In Sardinia there are 50 sophisticated sanctuaries dating from 1000 B.C. all with domes of stone, built over sacred springs and wells, scattered all over the island. Some of these waters are still credited with healing powers.⁴

If you look around, you will probably see the same dome shape on the

⁴ D. Mackenzie *Crete in Myth and Legend*. Senate, 1996.

satellite TV dishes of your neighbours' houses, but you will also see, in the centre of the dish, a rod-like antenna which picks up the focused signal and transfers it down the cable to their television sets. Similarly, at the beginning of the Second World War at least one cliff face on the English coast had a special concave alcove sculpted into it, and other listening posts – concrete mirrors and huge walls, which were constructed with moveable 'stethoscopes' in their centres, ready to pick up the first amplified hum of invading enemy aircraft, their distance and height. Special listeners, some of them blind, since such people often have more acute hearing, manned these posts⁵ Unfortunately, these structures only gave about three minutes' warning, and were quickly abandoned in favour of the early radar warning system, although they can still be seen there, sixty years later.

An easy and practical demonstration of this focusing effect, which applies to light, sound and all electromagnetic signals, is the small magnifying mirror found in many bathrooms for men to shave with or for women to apply make-up. Here again the signal input, in this case light, is amplified and focused to a point. Exactly the same effect is found with any energy, whether light waves or acoustic waves. It is relevant to note that Apollonius Rhodius, a Greek poet, is reported as writing: 'Stones placed at the apex of a Tumulus are so sensitive as to be movable by the mind.'⁶

⁵ Robert Buder, *The Invention That Changed the World*, Little, Brown and Company, 1996.

⁶ Apollonius Rhodius, quoted in M. A. Thalbourne's *Apollonius of Tyasna*, 60:837 (1995) 240–8.

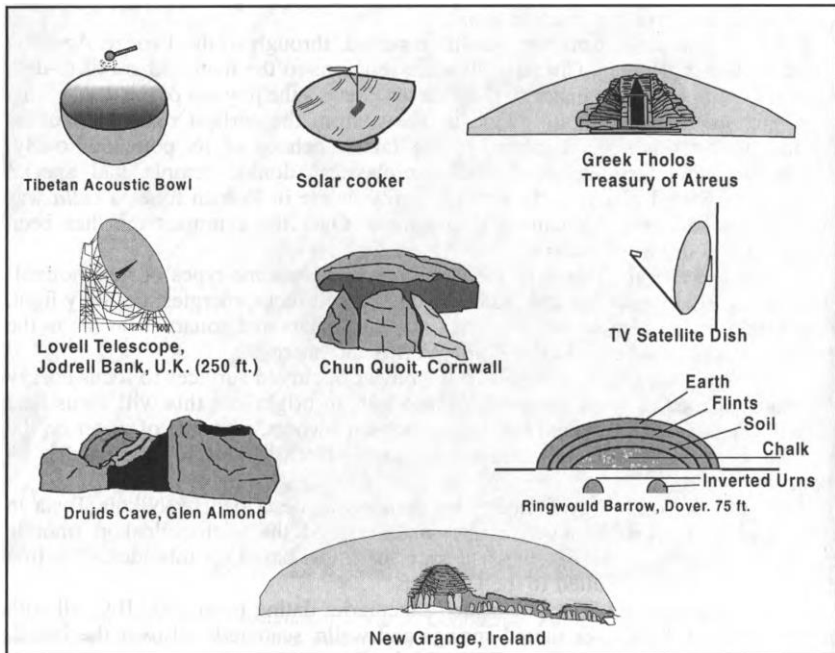


Fig. 26. Types of parabolic surfaces used to focus energies down through the ages. Notice the passage in this plan view of Newgrange (bottom right) has a kink in it, presumably to make the sound waves produced in the interior chamber to conform to a wavelength of around 24 ft before striking the reflecting stones outside the mound.

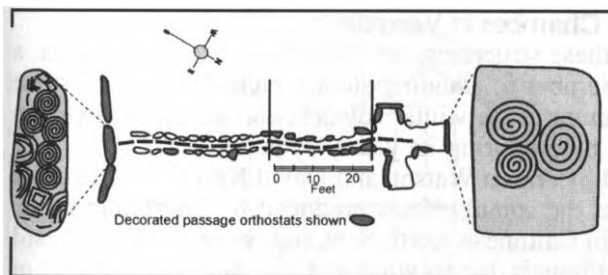


Fig. 27. Plan view of Newgrange, Ireland, showing passageway built to channel sound waves from cruciform chamber (right) down waveguide to reflecting stones, one on the far right carved with spirals and the heavily carved stone at the entrance Bronze-age, (left). The carved stones are shown here enlarged and the patterns are as would be viewed from the south-east.

Figure 26 shows some of the domes worldwide, and also some very twentieth-century uses for (nearly) the same effect. In Holland, for instance, at Hune-bedden (Giant's Bed, not shown here), on the northern outskirts of Borger, sitting beside an 80 foot (24 metre) dolmen is a fine trilithon where the 'capstones are rounded like tortoiseshells.'⁷ This is dated to before the around 3400 BC, and is similar to the many other dolmens, or cromlechs scattered around the British Isles, like Chun Choit in Cornwall.

As we go to press, a new book, *Stone Age Soundtracks* reveals that chambered cairns, such as the famous Newgrange in Ireland, built around c. 3200 BC (*see Figure 26, page 53*) are purposely built to allow the chambers to resonate at a frequency of around 110 Mhz, the resonant frequency of the male voice, and it is now thought by some researchers that these structures were built very much with sound effects in mind.

Not only is sound involved, but light too. At the Winter solstice on December 21st, the rising sun gradually illuminates the Newgrange passage, using a purpose-built "light box" above the entrance. This illuminates the chamber at the start of the sequence, then a narrow beam of light sweeps across a stone, carved with spirals, standing vertically at the far end of the chamber (*tone at far right in Fig 2, page 53*).

It can be seen that the passage leading into the chamber is not straight as one would expect, but has a noticeable kink. This could possibly be explained as the passage stones shifting over the centuries due to the weight of the material above, or much more likely, to focus the strange light effect down the passage.

This sounds entirely plausible, but a look at the plan view shows that the kink in the passageway looks like a waveguide of around 26 feet, suspiciously close to the Druid's Cave of 24 feet, which may mean that it also emits telluric energy similar to the Druid's Cave. From experience, I have found that passageways such as this are powerful emitters of telluric energy – for instance, a vertical fissure in a hill containing lead which had been mined at Tyndrum, Argyllshire, showed an extremely powerful emission from the narrow entrance to the workings.

One of the stones at the entrance of the passageway (*far left of Fig. 27*) is heavily carved with spirals and chevrons just where sound waves/ley line energy would strike it, possibly transmitting a ley line, presumably a cup-mark ley, across the country through the stone itself with special characteristics due to the carvings. Newgrange seems to be

⁷ A. Burl. *Prehistoric Stone Circles*, Shire (1977).

an infinitely more sophisticated version of the Druid's Cave.

Stone Chamber in Vermont

The USA has its own version of these structures. At South Woodstock, Vermont, a stone chamber, surrounded by a number of standing stones, etched rocks and stone platforms also allows the light to enter at the winter solstice, and shows the extreme rising and setting positions of the moon during its yearly cycle.⁸

Another important effect found by Aaron Watson and David Keating, researchers from Reading University, was that the sound effects produced by drumming in the passage grave of Camster Round in Caithness, north Scotland, were distinctly heard in another similar cairn nearby, although due to wind and the dampening effect of the material in the Camster Round Cairn, the sound could only be heard at half that distance in the open air.⁹ It was over 20 years ago when I investigated the Camster Round Cairn, which has concave-shaped forecourts at either end. My divining rod easily picked up the individual waves, all coming in parallel to each other, until they touched the stones forming the façade, whereupon they focused into the central chamber. Unfortunately, I did not make any notes at the time and I neglected to trace where the waves were coming from – could both cairns be linked by telluric energy? – entirely possible. Here again we have sound combined with telluric energy, which leads me to think that the builders may have used telluric energy to carry sound.

Otherworldly Whistlings in Cave

The acoustics of concave surfaces are legendary. In the 1990s, Sean Jones, a British traveller in Tibet, was close to Zutrol Puk, on the sacred Mount Kailas in Tibet. Seeking shelter for the night, he entered a cave-like place. Under a concave slice of rock, to his great surprise, when he awoke, he found himself serenaded by otherworldly whistlings, and what

⁸ *Stone Age Soundtracks, The Acoustic Archaeology of Ancient Sites*, Paul Devereux. Vega (2001).

⁹ Salvatore M. Trento. *Field Guide to Mysterious Places of North America*. Henry Holt and Company Ltd.

seemed to be bird calls mixed with the sound of rocks and water falling. ‘Am I really hearing this?’ he asked himself. Then he realized that the naturally-shaped rock was a kind of acoustic dish that gathered all the sounds of the mountain and transferred them into a form of natural music, rather like the noise the shepherd had heard in the Druid’s Cave. Like the shepherd, Sean Jones had been honoured by a practical demonstration of curved surfaces.¹⁰

Keeping Bad Spirits at Bay

Another indication of the reflective and refractive properties of concave surfaces is their appearance in both historical and mythical tradition.

A curious fact from Babylonia, for example, is that the citizens there were found to have made ‘Devil Traps’ by burying inverted bowls beneath the floor, concave sides up. These were to keep bad spirits away. It is interesting to realize that 5000 years ago, the fact that not all Earth energies were good was already known.¹¹ The archaeologist and historian Dr. Tom Lethbridge noted also that centuries ago in the UK bells were buried to ward off malignant forces. There is the legend that at Thetford Castle in Norfolk, when the priory was destroyed in the Dissolution, six silver bells were buried beneath the hill on which the castle now stands.¹²

On the other side of the world, in Japanese myth, Emm-O was the chief of the Jigokan, the underground Hell. He would ride past lines of men to pass judgement upon them and the sentence would be reflected and amplified back to them by a great bronze mirror on his chest.

And what is the significance of the bowl of the Nig-Gil-ma of Babylon, made of silver, and known as the Preserver of the Seeds of Mankind?¹³

¹⁰ J. Snelling, *The Sacred Mountain*, Tibets’ Mt Kailas, East-West Press, 1990.

¹¹ *Electronics World*. January, 1995.

¹² P. Howat, *Norfolk Ghosts and Legends*, Countryside Books, 1993.

¹³ D. A. McKenzie, *China and Japan: Myths and Legends*, Senate, 1995.

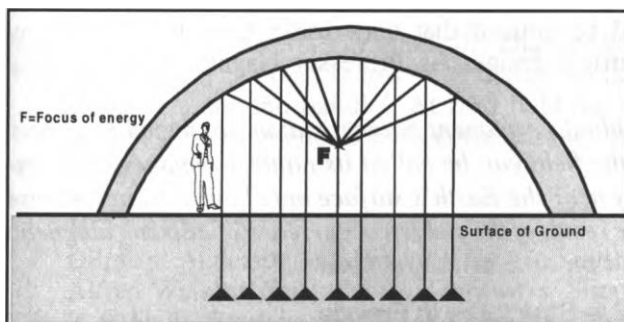


Fig. 28. A concave object, a burial mound for instance, with sound waves, in this case, below ground, reflecting to a point F.

Greek Caves

The word ‘Hypogeum’ is derived from the Greek ‘*Hypogeios*’ meaning underground, and is used as a term to cover the cult centres of Chalcolithic Malta, built about 3500 BC. It is thought that this complex had its beginnings as a natural cave to the rear of a temple, and the cave was progressively enlarged and embellished in an exact imitation of a temple.

An intriguing part of the Hypogeum is the Oracle Chamber, which had a strange acoustic property. In this chamber is a shallow hole in the wall, something like a niche. The voice of a man facing the hole will echo eerily, but there is no such effect with the higher pitched female voice.¹⁴

In *Unknown Greece* (Johnson, 1973), Pillemont describes the Tholos at the Tomb of Agamemnon, or Treasury of Atreus as ‘one of the most extraordinary monuments in the whole of Greece’.¹⁵ It is reached by a deep trench whose sides are lined with carefully hewn stones. The Tholos is shaped like a beehive, 33 feet (13 metres) high and 48 feet (14.5 metres) in diameter. The cupola (or dome) is formed of 33 superimposed corbelled rings, surmounted by a round slab. Pausanias and other writers of antiquity called these tholoi treasure houses. What was the treasure?

¹⁴ J. Bradbury and A. Service. *The Standing Stones of Europe*, J. M. Dent (1993).

¹⁵ Pillemont, *Unknown Greece, Athens, The Peloponnesus*, Johnson, London, 1973.

Dragons

Let us come forward to our own Anglo-Saxon history, and the epic poem Beowulf. In the Gnostic verses is written *draca sceal on Hlaewe, frod, fraetwum wlanc* (the dragon shall be in the tumulus, old, rich in treasures). As Margaret Gelling notes, in relation to place names of tumuli, or domed man-made forms in the landscape, 'If not flying through the air, a dragon was most likely to be found in a barrow'. When this very visual remark is placed in the context of place names in England, with 'Draca,' or 'Wyrm' in the name, dozens of them relate to tumuli, where dragons guard treasure. She lists Drakelow, Dragley, Drech-owe, Drakehowe. Drakestone, near Sudbury is at the eastern end of a fault, Wormegay south-east of Kings Lynn in Norfolk has a legendary dragon. Then there are the 'Shuck' place names – 'Scucca' was an early name for a demon – including Shugborough in Staffordshire, Shuckbough in Warwickshire, Shucknall in Herefordshire. There are many others. Pucca, Puck and Pouke, meanwhile, mean goblin, as does Hob.

Field names, as well as place names, can also yield a rich haul of meanings, provided that the antiquity of the field name can be verified from old county records offices.

One has to ask, what phenomena did our ancestors experience in these places to lead them to give such names to sites? The many 'Grim' names, Gelling feels, are associated with Woden. Chris Arnold has found a possible link with lightning-prone areas, with ironstone, or basalt below ground. Further work has to be done on this theoretical aspect, but it should be noticed that once rocks have been struck by lightning, their magnetic properties change, As Professor Nagata writes in *Rock Magnetism*:

Generally speaking, the residual permanent magnetization possessed by a rock mass in its natural state in the field can be called its natural remanent magnetization. But a rock mass very near the Earth's surface may have a rather intense residual magnetization as the result of the sudden occurrence of a strong magnetic field caused by a thunderbolt on or near the rock mass.¹⁶

¹⁶ T. Nagata, *Rock Magnetism*, Maruzka, Tokyo, 1953.

Beehive Structures in France

Most people have heard of Rennes-le-Château in south-west France and the strange story of the priest, Father Saunière, who reputedly stumbled upon a great secret and then came into great wealth. But the historian Henry Lincoln has found another feature which has so far received little attention. In the area known as Capitelles, high in the hills above Coustaussa, where there are hundreds of stone-built cells thought to be of great antiquity. As Lincoln states 'little has been written about the early history of this part of France.'¹⁷ These beehive-shaped structures are 'scattered across the countryside as far as the eye [can] see.' Each contains one small room with a doorway and a narrow window. Some are square, some are rectangular, some ovoid and some circular. All had 'beautifully and skilfully constructed dry-stone domed roofs.' A historian who examined Lincoln's photographs described them as reminiscent of neolithic chambers. Roy Davies, then the editor of the BBC Timewatch programme, found the whole site similar to Mycenae in Greece.

Rennes-le-Château is only half a mile (800 metres) away from Capitelles. However, if we consider Earth energy (seismic) sources, there are some surprises. Equidistant from Rennes-le-Château and Coustaussa is Roque Fumade, (smoking rock), which Lincoln says, 'certainly still smokes'. Four miles (6.5 kilometres) to the east is Forêt de l'Orme Mort (Forest of the Dead Worm), and at Rennes-les-Bains, 1 mile (1.6 kilometres) away, there are geothermal hot water baths.

The Physics of Concave Surfaces

Concave surfaces, then, such as those on saucer-like satellite dishes, had a special significance for peoples of old, to focus sounds within a 'burial chamber' and give strange acoustic properties for the voices and chants of the druids/priest/shamans, as well as magnifying the natural telluric energies of that site.

As we have seen, such surfaces have a special property by virtue of their concave shape. This is the ability to focus many types of radiation into a very small area, due to the fact that the angle of incidence for incident light, sound and radiation, equals the angle of reflection (*see Figure 28, page 55*).

¹⁷ H. Lincoln, *The Holy Place*, Jonathan Cape, 1991.

Ultrasonic energy for therapeutic and military use is normally focused by means of either a curved transducer or an acoustic lens. For the former the energy is brought to a focus at its centre of curvature. Quartz is also used for ultrasonic propagation, the lower frequencies being produced when the crystal is cut across its width.¹⁸

Many writers have observed the layering of alternate and inorganic matter in the roofs of tumuli. There is an interesting parallel in physics known as giant magnetoresistance. In this, the resistivity of a layered structure of alternate magnetic and non-magnetic materials dramatically changes when a sufficiently high magnetic field is applied. The effect seems to be due to the fact that the magnetizations in the alternate layers are anti-parallel. At zero field the resistivity is at a maximum, but in high fields the magnetizations become parallel to the applied field and resistance drops sharply.

¹⁸ J. Blitz. *Ultrasonics*. Butterworth (1962).

CHAPTER SIX

The Secret of the Petroglyphs

A Mass Murder, an Unknown Cup-marked Stone, and the Bubonic Plague

'If the doors of perception were cleansed, everything would appear to Man as it is – infinite.'

WILLIAM BLAKE, 1775 – 1827,
THE MARRIAGE OF HEAVEN AND HELL

When working on the previous circuit, I had often noticed that there were many ancient sites running roughly parallel to it. Burial-grounds, churches, stone circles and standing stones were all tantalizingly close, but appeared to belong to another circuit running a few hundred yards alongside. When I eventually followed the leys through these sacred sites the entire dumb-bell shape on the Connachan Farm finally emerged.

For clarity, it is best to follow this circuit in a clockwise direction from some mounds near the village of Gilmerton (*bottom right of Map 3, page 59*). There is another connection here with the ancient warriors. According to local legend, Fingal's father, Cumhail, was defeated here by the Romans. Significantly, this site is where the circuit about to be outlined terminates, reflecting, perhaps, the death of the warrior.

There are numerous legends of the burial places of these warriors in Scotland and Ireland, which may mean that they have similar telluric circuits.

The next site on this ley is Ochtertyre Mausoleum and burial-ground on the site of a church, destroyed in 1490 by two feuding clans, the Murrays and the Drummonds:-

One of the Murray archers, hiding in this old heather-thatched church, was foolish enough to send an arrow from the window at a

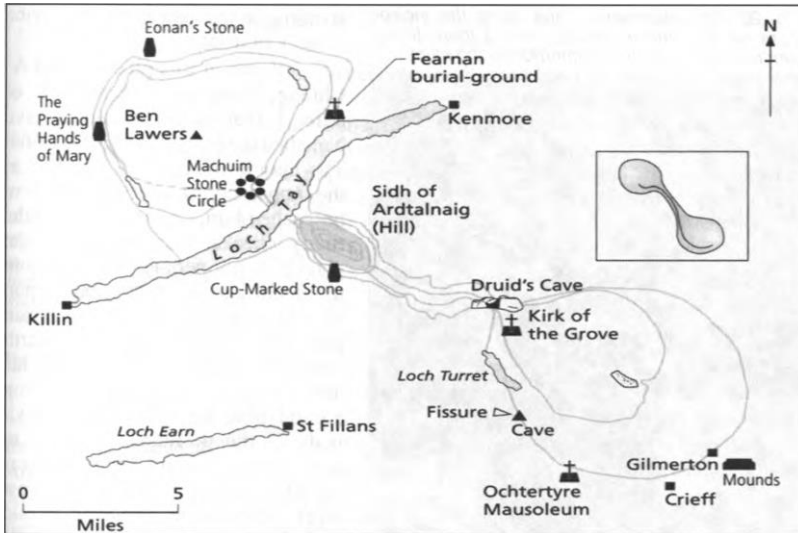
passing group of Drummonds, who took fearful revenge, by piling combustible material around it and setting it on fire. According to legend, 120 families hiding there were incinerated alive. The number must have been grossly exaggerated, as the church is rather small, but when the modern Mausoleum was being built, a large quantity of burned bones was found, which took some days to remove and re-inter in another part of the churchyard.¹

Another Cave

The circuit now gently rises, taking me to a small cave at the base of a perpendicular cliff. Inside the cave is a fissure, which I climbed until I popped out at the top of the hill, some 50 feet above the cave. I did not realize then the significance of this fissure until much later, when I noticed that there were a number of such geological features associated with leys. We will return to these later.

The cup-mark ley travels on and up to the very powerful attraction of the Druid's Cave, again passing through the Kirk of the Grove. Entering the mouth of this cave it behaves in a similar fashion to the previous circuit, running out through another of the interstices at the rear, and contours the hills to the Sidh of Ardtalnaig again, but this time much lower down, to another split stone, this time heavily cup-marked. Whether this stone has been carved by man or nature I have yet to find out, but the circuit goes on, through a nearby shieling (homestead) and down towards Loch Tay, to an old road which it follows, until, about a mile from the shoreline, both the road and cup-mark ley turn sharply to follow the loch. Intrigued at the energy unexpected and abrupt change in direction, I retraced my steps to the bend in the road, to find that the road had been carved into the living rock. This 'peat road' as it is called, may well have been used for carrying fuel, but it is more likely to have been part of the construction of the cup-mark ley.

¹ *Chronicles of Strathearn*, W. B. MacDougall.



Map 3. This circuit mirrors the dumb-bell shaped petroglyph on the Connachan Farm stone (inset, top right). From several mounds at Gilmerton (bottom right), it curves round clockwise to the Druids Cave, and north to Loch Tay. The previous circuit tuned into the centre of the loch, and this circuit now 'sees' the loch as two separate halves and crosses one quarter of its width to the west, over to Glen Lyon and back across Loch Tay to the Druid's Cave and further on to Gilmerton. There are three communal burial-grounds on this circuit: Ochtertyre Mausoleum, Kirk of the Grove and Fearnan.

The Bubonic Plague

The previous circuit centred itself on Loch Tay, and this one now 'sees' the loch as two separate halves, and contours the shore, before crossing the loch at the centre of the western half. It was with a wry smile that I followed the wave through thick undergrowth to the water's edge to find a dead sheep floating in the water, just where the cup-mark ley crossed the loch. On and up to Lochan na Lairige and through 'The Praying Hands of Mary' I went, to Glen Lyon, where I waded across the river waist deep on a pleasant summer's day to continue the circuit on the far bank. I could see the next site even as I waded – St. Adamnan's or St. Eonan's stone, a Christianised standing stone dedicated to the scribe of St. Columba.



Fig. 29: St. Adamnan's stone. Note the incised cross on this ancient stone, carved there fifteen hundred years ago to commemorate the saint.

It was at this place, called A'Chreag Fhiannaidh (the Rock of Safety), that Eonan is said to have banished the plague in about AD664. The

people of the glen, terrified at the approach of the plague, here beseeched him, saying ‘Eonan of the ruddy cheeks, rise and check the plague of thy people. Save us from the death and let it not come upon us, east or west.’ It is said that Eonan put his knowledge (of Earth energies?) to the test, by raising his arm and with the people kneeling around him, he exhorted the devil body of the pestilence to come to him – almost too late, for a child was already dying just a stone’s throw away. The plague, however, is said to have vanished into a nearby boulder, making in its passage a deep, round hole, almost as if it had been carved.



Fig. 30. This possible cup-marked stone is on the west of the Sidh of Ardtalnaig.

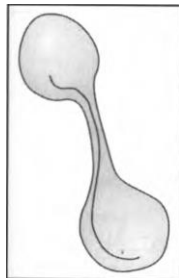


Fig. 31. The dumb-bell shape. Note the ‘S’ shape inside.

This fascinated me. Is it possible that plagues can follow telluric energies? It is well known that fleas from rats can carry bubonic plague, but I agree with other investigators that there are 'black streams' of natural Earth energies which are associated with illness in the population. Perhaps this cup-mark ley had turned 'black', attacking the immune system of those living upon it until they were at risk of infection.

The plague, however, could hardly have bored a hole in the stone. It is more likely that Eonan did. In effect he may have short-circuited the cup-mark ley, stopping the plague in its tracks.

He also took the very sensible precaution of sending the remaining healthy people up to their shielings in the hills, well away from the disease.

The most northerly point of the circuit travels eastwards, following the road for some distance, but occasionally wandering off into nearby fields, then turns south, through the burial-ground at Fearnan and across the loch to the little village of Ardtalnaig, just touching its burial-ground. Along by the foot of The Sidh of Ardtalnaig it passes through a line of old shielings, down their long axes as usual, then back to the Druid's Cave. Here it enters one of the remaining gaps at the rear and circles down to the nest of mounds at Gilmerton.

Comparing Map 3 to the close-up picture of the dumb-bell cup-mark on the stone at Connachan Farm (*Figure 31*), it can be seen that this circuit now shows a definite similarity to the cup-mark. Note also the weathered and incised line inside, which indicates the inner skeleton.

CHAPTER SEVEN

The Road to Rannoch

Walking the Serpent

‘Great things are done when men and mountains meet’.

WILLIAM BLAKE, 1757 – 1827,
GNOMIC VERSES

Flanking the previous cup-mark system is another shell of energy. It is very similar in character, but a look at Map 4 will show that it has been constructed in a slightly different manner.

This cup-mark ley also has the ability to tune into lochs and lochans, but, surprisingly, it also contours the edges of some lochs. I suspect that a special type of straight ley moulds the cup-mark ley into shape. We will investigate this shortly.

Again, for the sake of clarity, let us assume that the circuit travels clockwise from the mounds at Gilmerton at the bottom right of Map 4, page 90. This circuit is emitted from these mounds as before, then follows a straight road for several miles to Drummond Pond.

Looking at the circuit on the map was very disconcerting, as there is a very obvious kink on its route. All the lochs in the past had helped mould the outline, but this one appeared as an anomaly, warping the system extensively. A little research, however, revealed the cause. Drummond Pond is a very recent addition to the topography of the area, and has provided the cup-mark ley with a new and powerful attraction. In 1762, on the orders of the Countess of Perth, this area was flooded in order to cover the houses and land of the families who took part in the 1745 rebellion and had, in consequence, been granted land in this area. She was determined that their loyal service would be forgotten as quickly as possible.

This is a good example of a comparatively modern construction altering the pattern of telluric energy. It can also be seen that a major long-distance ley from one of the most important sites in Scotland, also warps the circuit. This is from the circle-henge of Cairnpaple, 40 miles to the south-east, and runs accurately along the Muthill/Crieff road,

originally an Old Straight Track, through Ochtertyre Mausoleum to The Druid's Cave, and terminates at the 4-stone circle near Clach-na-Tiompan standing stone.

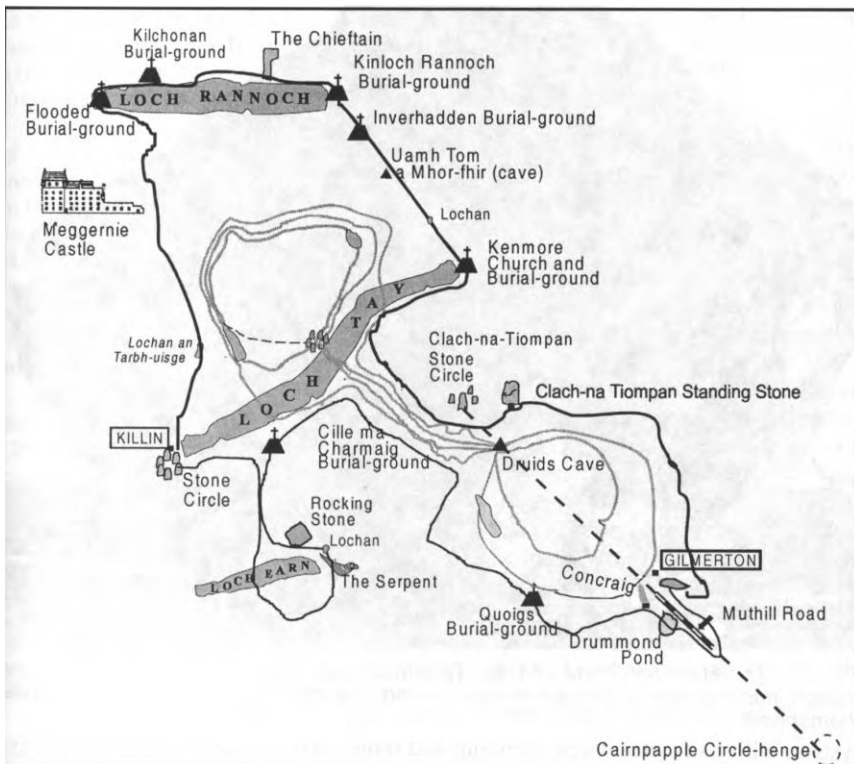
The Rocking Stone of Glen Tarken

The circuit runs clockwise to a standing stone at Concraig Farm, then to a monument occupying a prominent position on a hill, once dominated by a castle, then travels round to Quoigs burial-ground, across the hills to the Sidh of Ardtalnaig and Loch Tay, to the burial-ground of Cille-ma-Charmaig. Still contouring the hill, the circuit starts to travel in a southerly direction, down Glen Beith. Following this section, I was dismayed, as the route was not my idea of how the circuit should look. It was leading me across a desolate six mile stretch of high moorland towards Loch Earn, and there was little I could do but follow it or abandon the project entirely.

Eventually my persistence paid off handsomely. A huge boulder came into view, my divining rod leading me unerringly towards it. This was the Glen Tarken Rocking Stone, (*Figure 32, page 64*), the size of a small bungalow, and poised like a faceted diamond on its point. It is estimated that at a height of 10 feet (3 metres) its circumference is 110 feet. (34 metres), and it is about 25,000 cubic feet in mass. Sixty men can stand in shelter under its overhang at this wet and windy site. At one time this huge boulder could rock to and fro at a push, but now it stands motionless, as solid as the hills themselves.

The effort and skill which went into its construction left me in awe – megalithic engineering at its finest. Years later I was to see it as a key part of the Earth energy system, with its faceted faces receiving and transmitting streams of telluric energy. Possibly, when it was working, its oscillations altered the wavelengths of the energy system.

As I left this strange monster, I cast many a long, wondering look at it as it gradually faded from my view, and was lost in the corner of the glen. It was not to be the last time we would meet, as my research brought me back again and again.



Map 4: Another shell of energy from the Gilmerton mounds (bottom right of illustration). Again, travelling clockwise, it travels up to Loch Tay, contouring the hills to run back southwards to tune into the centre of Loch Earn, then north to Killin stone circle, further north to Loch Rannoch and south to Loch Tay, to Clach-na-Tiompan standing stone and Gilmerton. There are seven burial-grounds on this circuit. Notice how the circuit has been badly warped by tuning into Drummond Pond, a recently built loch (bottom right), and also the deliberate alignment from Cairnpapple, 54 miles to the south-east, to an 'Old Straight Track' between Crieff and Muthill, now a modern road, through Ochtertyre burial-ground and the Druid's Cave to the 4-stone circle near Clach-na-Tiompan.

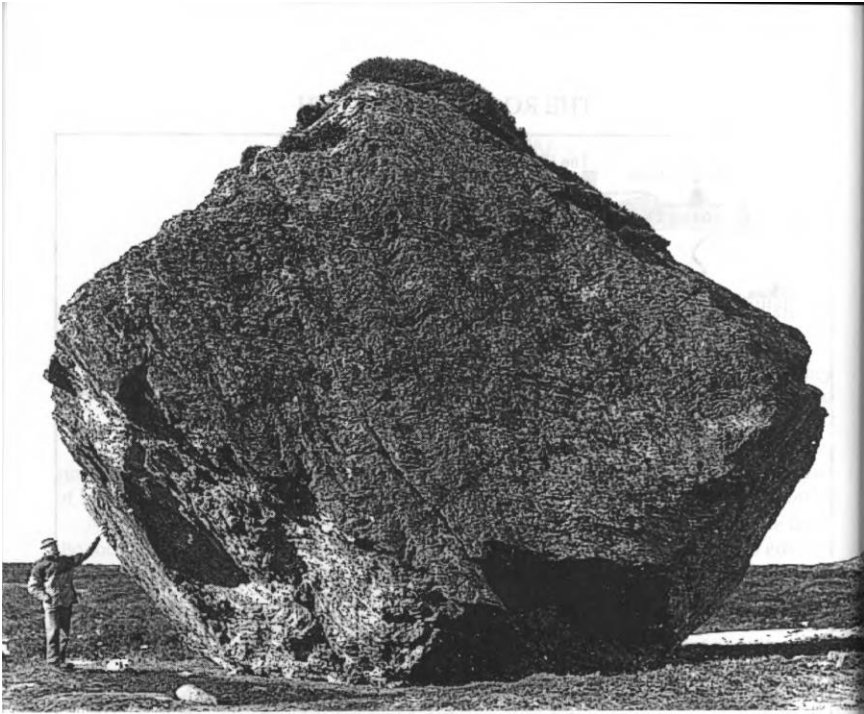


Fig. 32. The Rocking Stone of Glen Tarken. Designed to rock, for some obscure reason, this example of Megalithic engineering now stands as motionless as the hills themselves.

The Serpent of St. Fillans

Across the hills in the direction of St. Fillans the circuit led me to another small loch, Loch Boltachan, and down a few miles towards St. Fillans on a day of thick fog. Walking slowly along I was startled to hear a car a short distance away and, now aware that I had come much further than I had intended, I knelt down and peered through the swirling mist over the edge of the strangely familiar rock I was walking along. A huge eye and garishly coloured teeth stared back at me! I had walked down the spine of the Serpent, (*Figure 33, page 65*) on to its head. If the car had not passed, I would have walked off its nose into thin air. Again, we will return to this strangely shaped rock, built to conform to the weaving nature of Earth energies shortly.

Serpents Across the World

Evidence of the sinuous nature of Earth energy can be found at certain healing wells. These give rise to legends about 'wurrams' as a guardian, or a fish, such as a trout, as the personification of wave energy. In ancient Gaelic stories we hear of the venomous serpent, the Buarach Bhaoibh. This has its origins in fact, as it is a lamprey, a type of eel which frequents rivers and lochs, and was thought at one time to possess magical properties.

The legends and myths which have come down to us over thousands of years are of special interest to Earth energy researchers as Chris Arnold has discovered. The many tales of 'waves and lines' together with the prodigious feats of 'giants' who, in the long ago, threw rocks at one another, bear striking resemblance to geophysics and known Earth movements. Magma explosions, such as are now happening on the Hawaiian island chain, at Mount Etna, and Alaska on the Kamchatka Peninsula, send out molten magma in great volumes. Whether it flows down to the sea, or is explosively erupted into the air depends on the depth from which it has come. Sometimes it creeps up through fissures and dykes are formed. There are swarms of such dykes in Scotland.

Worms, by definition, move on and under the earth. They can vary in size from the small compost heap worms and glow worms to large worms perhaps 10 inches (25 cm) in length. Although they do a great job of aerating the soil and making compost, they most certainly do not have the power to throw rocks, so why do they figure so strongly in myths and legends from all over the world?

Place names, as already mentioned, give us the pointer to interesting facts. The word 'worm' in Anglo Saxon was Wurm; in German, Wurm; in Iceland Orm; in Greek, Rhomos; Latin Vermis; and French Orme.

The worms of legend, like the giants, achieved prodigious feats, far beyond those of the fattest and well-fed earthworms of to-day. For example, in Hebrew legend the Shamir was a magic worm, able to cut through stone. As no axe or metal tool could be used to cut the stones to build an altar, the ability of the Shamir was reputedly used by Solomon to aid him in building the temple in Jerusalem.

Snakes, serpents, dragons and worms were all considered as protectors of hidden treasure. In our material world, we equate treasure with gold, wealth, and gems, but what greater treasure in the world is there than good health, serenity and fertility?

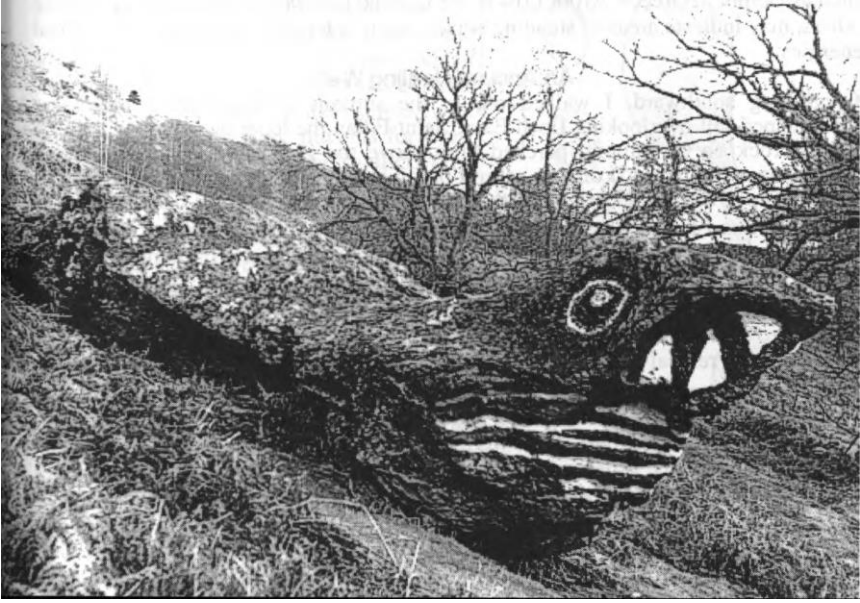


Fig. 33. The 'Crocodile' or 'Serpent' of St. Fillans, near the end of a ley line.

There are some remarkable parallels in the legends of serpents, wouivres, dragons and other wavy creatures as they wandered across the Earth millennia ago. Some are listed below:

Kuei (Chinese). This spirit could only travel in straight lines, and disliked iron and steel.

Echidna (Greek). This worm-like spirit lived in caves, moved only at night and shunned the light of day.

Orme (Gaelic) A worm which shunned daylight.

Tiamat (Mesopotamia). A dragon which lived below the water, and was evil natured.

Omniont (Native American). Giant snake god and a powerful deity, who, when angry, made thunder and lightning, hail and rain.

Whiowie (Aboriginal). A worm-like spirit which lived in caves and travelled at night.

Bunyip (Aboriginal). A similar spirit which lived in damp sand.

Uroo (Aboriginal). A giant water serpent which twisted and turned below the surface of the Earth.

In the world-wide tales of sinuous forms which have phenomenal properties for both good and ill, there are remarkable parallels with sinuous, natural waves. The great number of locally considered 'centre of the world' or omphalos (navel) sites, such as Delphi in Greece, Arbor Low in the UK and Nan Madol in the Pacific, among others, may indicate areas of standing waves due to intersections of multiply sourced energies.

An Ancient Healing Well

Continuing southward, I walked on, to the summit of Dundurn, a prominent cone-shaped hill overlooking Loch Earn. Saint Fillan the leper once prayed here on the flat rock on its summit, perched high above the glen. Two very faint, round depressions (cup-marks?) on this natural pulpit with its curious lipped edge used to mark the spot where he knelt, with the breathtaking scenery spread below.

There was, I knew, a healing well just below the summit. For centuries, people with rheumatism would drink the water, and then be pulled several hundred feet to the bottom by their ankles, a sure cure for their ailment!

I fully expected the circuit to tune into this well, but it was not to be. Pointedly refusing to touch the well, the ley passed just a few yards away, I walked on, rather irritated by its refusal to add such an obvious power point to my map.

In *The Sun and the Serpent* (Pendragon Press, 1989) Hamish Miller and Paul Broadhurst consider wells to be on particular energy systems, rather similar to cup-mark leys. Most of these wells were used to cure specific illnesses, perhaps the mineral content of the water, and the telluric energy focused into them, giving them curative properties, at least when the system was working properly. Some wells were at their most powerful on certain days of the year.

Back to the Circuit

In the weeks that followed, I carried on, following the weaving Serpent's path, contouring gently up and over Glen Ghoinean and down to the centre of Loch Earn on its south side. I picked up the circuit on its north shore and walked back to Loch Tay, to stand in the narrow glen just

a few yards away from the spot where I had reluctantly turned south a few weeks before. The ley, had, in fact, followed the contours of that narrow glen to tune into the centre of Loch Earn, round in a rough circle and back to the other side of the glen. On the map it looked very like one of the cup-marks next to the dumb-bell shaped cup-mark on the stone at Connachan (*see Figure 34, below*) – a powerful insight to Earth energies and well worth investigating further, but I would have to leave that to a later date.

Heading at last to Killin, the cell or burying place of Fingal, the circuit approached the six-stone circle which I had been so eagerly anticipating. However, it avoided it by a few yards, and contoured round, close to the loch, in very boggy ground. Disgusted, I squelched past, sometimes knee deep in mud and water, past all the historic sites only a few hundred tempting yards away, into a culvert under the road, where the cavity-seeking energy naturally focused, and then headed northwards into the 3,000 foot hills of the Ben Lawers group.

The Loch of the Water Bull

The circuit climbed ever higher, to the west of Loch na Lairige, with the black clouds lowering threateningly a few feet above me. ‘There must surely be another loch here to pull the energy to this height’, I muttered to myself. Sheltering from the screaming wind, a quick look at the map revealed that there certainly was a loch, only a short distance ahead: Lochan an Tarbh-uisge. My elementary Gaelic recognized the words immediately – the loch of the water bull.

This was the second occasion I had come across the site of this fabled creature, which is sometimes a water bull, sometimes a horse, sometimes the terrifying water kelpie, with hair of rushes and sedges, mussels for eyes, huge fins for arms and a scaly, shell-covered tail. In Highland folklore these creatures are said to inhabit specific lochs, to appear in the guise of a horse or bull, and tempt any passer-by to sit on its back. Once seated there is usually no turning back, as the rider is firmly stuck to the seat. Sometimes these creatures appeared on the Sabbath with murder in mind, when all good people should really be in the Kirk!

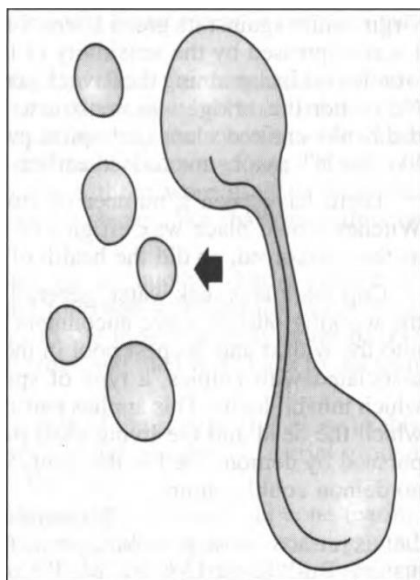


Fig. 34. The cup-mark (arrowed) bears a remarkable resemblance to the circuit around Loch Earn.

Water bulls are sometimes helpful, and let themselves be used for ploughing or stud, as in the case at Lochan an Tarbh-uisge, where a local farmer is said to have used one to sire cattle, which had crumpled horns and coats like black velvet. On the other hand, the water horse, though a magnificent animal, was invariably evil. If you happened to come across a horse at the side of one of these Highland lochs, you had to inspect it carefully – if there was sand or seaweed caught in its mane, it was time to make a sharp exit!

On this occasion the elements and the very loch itself seemed to resent my intrusion. The screaming wind sent curtains of spray high into the air, and the troubled waters heaved, flecked with foam. I could imagine our ancestors fearfully scanning the loch for the fabled water spirits.

Only Their livers Survived!

Among the many tales of the water creatures there is one from Perthshire, in which ten children climbed on the back of a water horse and became stuck fast. Only one boy survived when the beast plunged

into the watery depths. In other versions, one child notices something amiss, as at Aberfeldy. Here, six girls and a boy chanced upon a beautiful pony on the shore of a loch. The girls jumped on the beast's back, while the boy stood in growing trepidation as the horse's back slowly grew in length to accommodate each small addition!

Realizing what was about to happen, he hid himself amongst some rocks, and watched helplessly as the water horse plunged into the depths of the loch to devour the unfortunate girls. Strangely, the viscera of the victims often remain untouched, and here six small livers were later washed ashore.

Bridges

Lochan an Tarbh-uisge, like its neighbour, Lochan na Lairige, eight miles away, is a high point on this circuit, which now carries on down to Glen Lyon.

Four miles away from the loch, my divining rod led me towards Meggernie Castle, virgin white against its green lawns, brown heathery hills and blue skies. Once again, I was impressed by the sensitivity of this form of energy, which tuned into the little wooden bridge spanning the River Lyon. I had observed this on a number of occasions. No matter if a bridge was constructed of steel, stone, or wood, the foundations on the banks emitted elongated spiral patterns which captured the cup-mark ley, just like the HT pylons mentioned earlier.

There have been a number of stories handed down to us concerning bridges. Witches would place wax effigies of clay or lead under a bridge, in the belief that as they dissolved, so did the health of the victim.

Cup-mark leys seek water, generally in the form of lochs, but what happens when the working outside wave encounters a river? The answer is quite simple – it tunes into the widest and deepest pool in the vicinity. Pools such as these have long been associated with kelpies, a type of spirit similar to the water horse and water bull which inhabit lochs. This applies particularly to pools under bridges, 'the bridge over which the dead and the living shall pass'. Robert Burns tells how Tam o'Shanter, pursued by demons, fled to the safety of the centre of a bridge, for past the keystone no demon could venture.

Sixteenth Century Justice

Let us retrace our steps to Meggernie Castle. This place has had a wild and colourful history. Built about 1585 by 'Mad' Colin Campbell, it was originally a square tower house. Some years prior to building Meggernie, Colin received a violent blow to his head, which reputedly made him unpredictable. Gorach (foolish) was the term the Highlanders used.

Once, a band of cattle thieves raided his land and left two of his Campbells dead. Mad Colin and his followers took their weapons and followed them, returning with three dozen of the raiders and the leader. The little dungeon was quite incapable of holding them and so they were temporarily imprisoned in another part of the castle, until Colin's son went to Edinburgh to seek justice from the Privy Council. When he returned, however, he found that 'Gorach' Colin had meted out his own brand of justice – thirty-six bodies were swinging from thirty-six trees. The leader, however, was treated with respect and traditional Highland chivalry – he was shot dead.

Meggernie castle was still in private hands, so, I sought permission from the factor before walking round the perimeter of the building, where the outside wave of the circuit passed just wide of the cornerstone in a similar manner to skirting the edges of old burial-grounds. The other waves, about a yard apart, went through the remainder of the castle, like the burial grounds mentioned earlier, a peculiarity of cup-mark leys, (*see Figure 14, page 36*).

A Flooded Burial-ground

Continuing northwards, over the hills and down to Loch Rannoch, something unusual happened to the circuit. Instead of contouring the loch neatly, as it had done at Loch Tay, the cup-mark ley went down to the loch, to enter it some little distance from the western end. The circuit obstinately refused to run around the loch as it had done with other lochs, so I had to walk round and pick it up on the other side.

I was puzzled as to why this ley had such unusual characteristics. The loch had been dammed at one end and the water raised by some 10 feet, but the cup-mark ley still travelled along its original path and into the loch. Some research revealed part of the answer.

An old burial-ground at this end had been flooded when the dam had

been built. The cup-mark ley could still travel to that site, even although it had been submerged. It was not, therefore, only the lochs which were shaping the circuit, some other agency must be at work. It was some years later that I discovered what it was – a form of straight ley from stone circles. It appeared these were used to build the circuits, forming them, moulding them into complex shapes. We shall leave this for the moment.

Ploughing waist deep in ferns, I walked on to another burial-ground at Killiechonan. I tuned into the ley again here and followed it around the north shore of Loch Rannoch, aptly named ‘the fern loch’, to the most northerly point of this circuit. It continued to ‘The Chieftain’ standing stone and then went back to the loch near the eastern end of Kinloch Rannoch.

Another healing well, Clach na h’Tobairte (stone of the sacrifice) is close to this circuit. However, the circuit avoids it and passes through another old burial-ground at Kinloch Rannoch, then turns southward into the hills.

As I plodded determinedly along, with Schiehallion’s symmetrical cone rearing to my left, I got another surprise. Deep in a wood I stumbled upon a tiny burial-ground at Inverhadden. Some distance from the road, and hidden by trees, this neglected little cemetery lay decaying on Schiehallion’s foot-hills, the outside working wave again taking me accurately to one corner.



Fig. 35. Clach-na-Tiompan standing stone in Glen Almond.

The Cave on the Hill of the Big Men

There was a long walk ahead, up over the shoulder of Schiehallion and down into Glen Mhor, (the big glen), where the cup-mark ley unerringly found Uamh Tom a Mhor-fir (*the cave on the hill of the big men*), tucked out of the way from the prying eyes of the casual sightseer. Years ago, before I started this research, I had set out to find this cave, without success, as I had no idea that it was so tiny. There is a story that a piper had walked into it, following it deep underground, his pipes becoming more and more faint. He was never to be seen again. Despite the story, here it was, barely a foot (30 cms) high!

Continuing on, up and over to Fortingall I walked, to Drummond Hill, sometimes called Fingal's Ridge, again into a tiny lochan at its summit, and down to Kenmore, through the neat white church and burial-ground, and contoured round Loch Tay, close to the shore to Ardtalnaig. Turning south here, the circuit follows close to the previous one, over Auchnafree Hill to another standing stone, the remains of a four-stone circle, Clach-na-Tiompan, (stone of the musical instrument, *Fig. 35* above) down the old road, veering off to a stone ring in a nearby glen. This stone ring, I might add, is close to the remains of an old wooden shooting bothy, and can barely be recognized – if this circuit, and the next, had not deviated so obviously into it I would never have noticed it.

The circuit goes down to the Sma' Glen now, and is captured by a large slate quarry on its way to the mounds at Gilmerton.

CHAPTER EIGHT

The Final Circuit

Cup-Mark Maps Across Scotland and Northern England

‘When a scientist states that something is possible, he is almost certainly right, when he states that something is impossible, he is very probably wrong.

ARTHUR C. CLARK

The next circuit once again behaves in a very similar manner to the previous one. It travels from the mounds at Gilmerton (*bottom right of Map 5, page 103*) to the outer edge of Drummond Pond, then on to Strowan burial-ground and the standing stone at Lawers, the same stone which initiated this research some years ago.

A short distance to the north the circuit encounters the old priory mentioned earlier, then runs parallel to the previous circuit to Loch Tay, returning to the burial-ground at Dundurn, St. Fillans, before making another circuit around Loch Earn and returning to Loch Tay and Killin.

Several hundred yards from the previous circuit, running parallel to it, I walked on, aware that on this occasion the circuit was at last heading to the stone circle at Killin, having previously missed it by a few yards, as related in the previous chapter. This was the second major stone circle I had encountered on this project, and I was not quite sure what to expect, so I slowed down to concentrate on following my divining rod.

The wave led me directly between two of the stones, then warped to the west, towards Glen Ogle (terrible Glen). The streams of energy here are so confusing, however, that for the moment it is best to by-pass the circle and leave it until later in the chapter. I carried on a short distance to the little burial-ground of the McNabs on Inchbuie (the yellow island) below the picturesque Falls of Dochart in Killin.

This, the tiniest of burial-grounds on the tiniest of islands, with the thundering river foaming on either side, has an ancient story: The spirit of

the last person to die must keep vigil over the resting place of the McNabs, until another dies to take over.¹ This has telluric similarities to Lawers burial-ground, where the circuit is strongly attracted to the most recent burial, since that is the most attractive cavity. Perhaps this is the reasoning behind the stories of graveyard guardians, spirits who have the task of looking after the dead.

On the other side of the river I passed through the old village burial-ground, and on to yet another, this time a very modern one. The ever-searching energy encompass it, presumably attracted to the many underground cavities.

The Beheading Pit

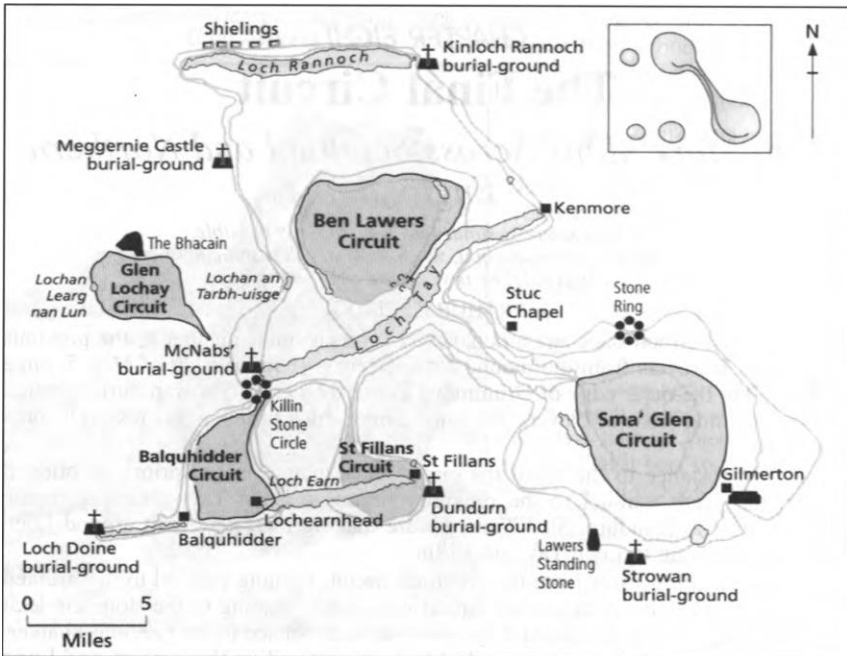
A short distance away were the ruins of Finlarig Castle. The remains of this decaying pile includes the grim beheading pit at the foot of the castle windows, where Grey Colin Campbell held out the hand of friendship to the chief of the MacGregor clan and his two sons. Little did the MacGregors realize that they themselves were to be the climax of festivities. They were dragged out, all three of them, and lost their heads to the beheading pit.²

The son of Grey Colin, Black Duncan of the Cowl was to become even more infamous than his father for his atrocities. Once he sentenced a clansman to be hanged on a huge sycamore tree which was growing nearby. While walking towards his fate, the clansman began to falter at the sight of the suspended noose. His wife, watching nearby, and eager to please Black Duncan, pleaded to her husband 'Just a few steps more Colin, to please the maister'!

Northwards again, I climbed up towards Lochan na Tarbh-uisge. The ley passed it a little to the west to another small lochan, too small to be shown on the Ordnance Survey (OS) map, then it travelled down into Glen Lyon to the tiny graveyard just to the west of Meggernie Castle, ran across the hills to Loch Rannoch and contoured the shore, higher up the hills this time, lengthwise through some more shielings.

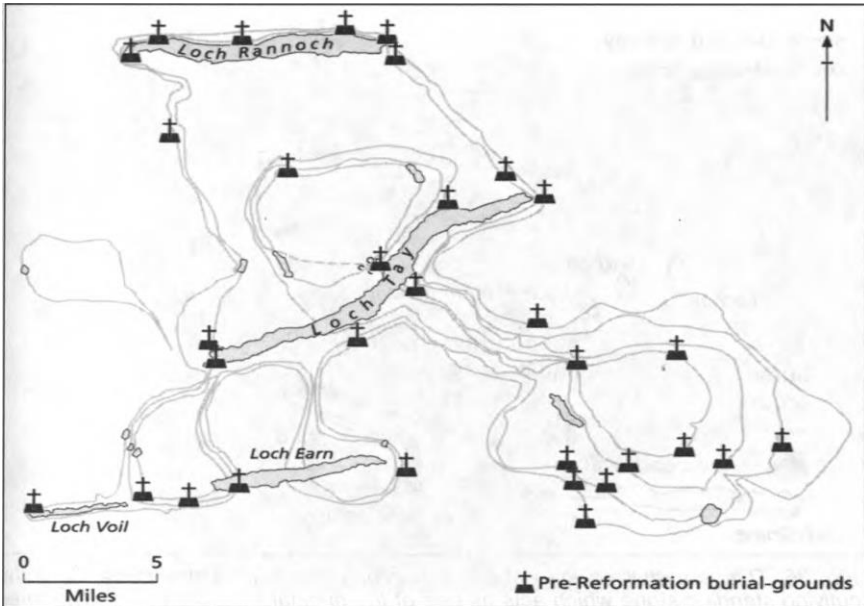
¹ Duncan Frazer. *Highland Perthshire*, Montrose Press, 1969

² *Fair Perthshire*, 1930



Map 5: The outer shell from the Gilmerton mounds, travels clockwise to Strowan burial-ground and north-east to Loch Tay, back to St. Fillans and round to tune into Loch Earn. From there it travels to Killin stone circle, where it makes three circuits around Balquhider. The five circuits (shaded in this illustration), plus the dumb-bell shape, are similar to a group of petroglyphs on the cup-marked Connachan stone (inset). There are seven burial-grounds on this circuit.

The circuit is captured here by a number of high voltage electricity pylons for most of the length of the loch. It then passes through another church and burial-ground before turning south to the slopes of Schiehallion again, to a little deer stalkers bothy (shelter) in Glenmore, and on to the other lochan at the top of Drummond hill as per the previous circuit, then down to Kenmore and Stuc Chapel, in Glen Almond. There was at one time a burial-ground here in this once thriving valley; now the glen is almost empty, leaving only a war memorial. The circuit then pays another visit to the stone ring mentioned in the previous chapter before it turns in a wide sweep back to Gilmerton.



Map 6: Pre-Reformation burial-grounds situated on the cup-mark energy system.

A Working Stone Circle

The most interesting part of this circuit is the stone circle at Killin. This circle is still intact and gives an excellent working energy circuit, probably much the same as the original. There are actually three circuits involved here (*see Figure 36, page 74*).

Most of the stones in the circle have a wide V shape in their plan view, one part facing inwards, and one facing outwards. From the flat face of each stone a wave of energy can be found, spiralling out clockwise for seven circuits around the circle, then back into the stone on the opposite side. In the same way, another wave spirals out anti-clockwise.

From the north, the cup-mark ley enters between two of the stones, and, since the circle is actually oval, its point of exit is between the two adjacent stones on the opposite side, which are closest and most attractive to it.

Now clear of the circle and the energy pattern around it, it finds another more distant attraction, this time Lochan Larig Cheile or Eala

(Loch of the Swans), at the top of the pass leading down to Glen Ogle).

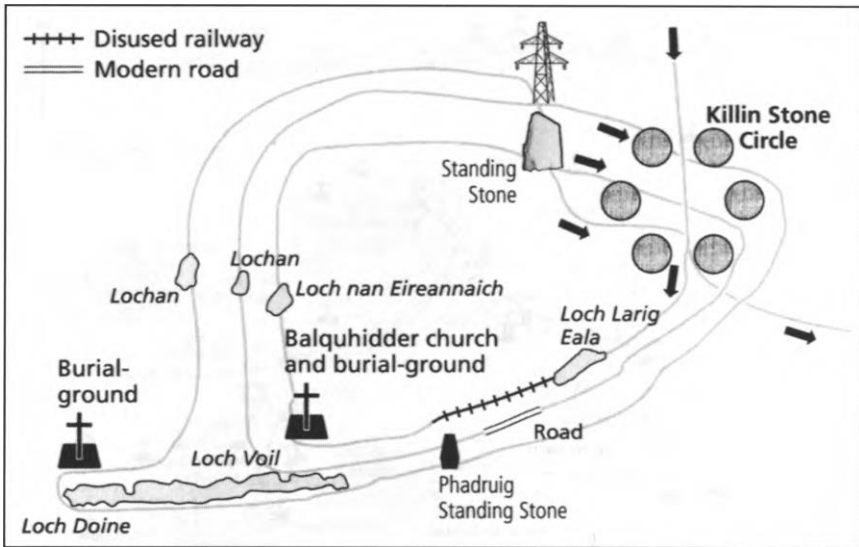


Fig. 36. This is a stylized map of the ley circuits from Killin stone circle. Note the outlying standing stone which acts as one of the original crossing points. The three small lochs to the left are situated at the top of hills, to attract the cup-mark ley up and over the top.

There are three circuits from the stone circle, tuning in to two churches (not shown) and also two burial-grounds: the important Balquhider church with its burial-ground, Loch Doine burial-ground (far left) and the MacGregor Mausoleum on the road to the east of the Phadruig standing stone. Another three lochs at the summit of the hill (to the left of illustration), pull the energy up the hills and help the circuits on their way.

There are also two standing stones: Phadruig, on the flat top of which funeral parties would leave the coffin on its flat top, and another standing stone on the Killin road acting as a cross-over point. I had often wondered why some stone circles had outlying standing stones, and this neatly explains the puzzle. Obviously, the H.T. pylon in the illustration is a modern attraction, taking over another missing crossing point for that circuit.

There is only one remaining gap in the circle which the energy can use, and it passes through this and out of the circle back to its original

route, as the stone circle's task is to warp the ley to a different area.

Notice that the outside circuit circumnavigates Loch Voil at foot of illustration.

A Ghastly Beheading

The church at Balquhiddier has two cup-mark leys running through it. This is where the famous outlaw, Rob Roy MacGregor lived. The beauty of this area is breathtaking, the cruelty of past generations frightening. One of the cruellest stories in the Highlands is connected with this picturesque little church.



Fig. 37. Centuries ago, mourners, journeying to the distant burial-grounds of Loch Doine and Balquhiddier, would place the coffin on the flat top of 'Phadruig' where the working edge of the cup-mark ley is most powerful.

One day the McDonalds were poaching deer in Glenartney, where they were caught by the 'keeper, Drummond of Drummondemoch. He cut off (cropped) their ears. Sometime later the McDonalds took fearful revenge when they ambushed Drummond and beheaded him, then they

carried the head in a plaid (a kilt which could be used as a blanket) to the home of his sister at the side of Loch Earn.

Upon entering they demanded the traditional Highland hospitality, which was duly given to them. Mrs. Stewart, heavy with child, laid bread and cheese on the table before them, then withdrew to obtain more substantial fare.

When she had gone, the McDonalds took out the head of her brother and laid it, still dripping with blood, on the table, and stuffed some bread and cheese into its mouth. When Mrs Stewart returned and beheld the atrocity, she fled screaming into the hills, quite insane. It was some days before she could be pacified and brought home, where she had her child, a boy, who was destined to have a notorious reputation. He made many enemies when he lived, and when he died his mourners carried his body along the road towards the burial-ground at Dundurn. Caught in a severe snowstorm, they buried his body temporarily by the roadside, fearful lest his enemies might get hold of it. A stone to mark this temporary burial still stands at this spot.

The Glen Lyon Circuit

To complete the map of telluric energy it was necessary to discover one more circuit which would coincide with a cluster of cup-marks on the Connachan stone. Since the other cup-marks featured standing stones, I went to a tiny standing stone in Glen Lyon and picked up the circuit there.

This, the most charming of standing stones, only 18 inches (45 cm) high and shaped like a dog's head, is called 'the Bhacain', and stands a short distance from one of Fingal's castles. It is said to have tethered the hounds of the Fian, and no doubt the warrior Fingal's own hunting dogs, Bran and Sgeolan, both as black as the darkest night, with yellow paws and collars and chains of purest gold.³

The circuit passes through this stone, and as it journeys up the glen passes through Fingal's castles one by one. They are rather curious, these castles, and have been recognized by archaeologists as homesteads, often taking commanding positions at the entrances to glens. There is little remaining of these ancient positions now, but it appears that they were built and placed with telluric energy very much in mind.

³ John Matthews and R. J. Stewart, *Celtic Battle Heroes*. Firebird Books, 1988.

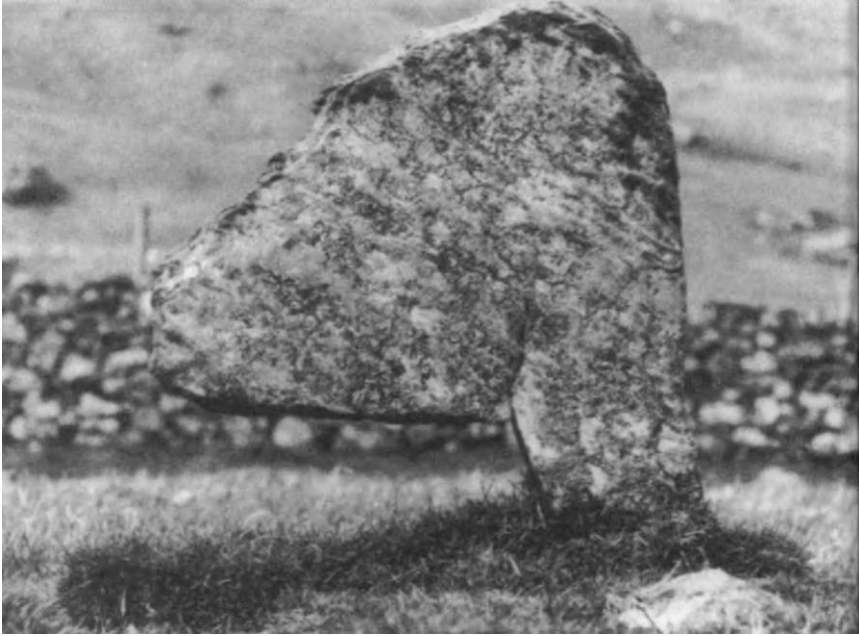
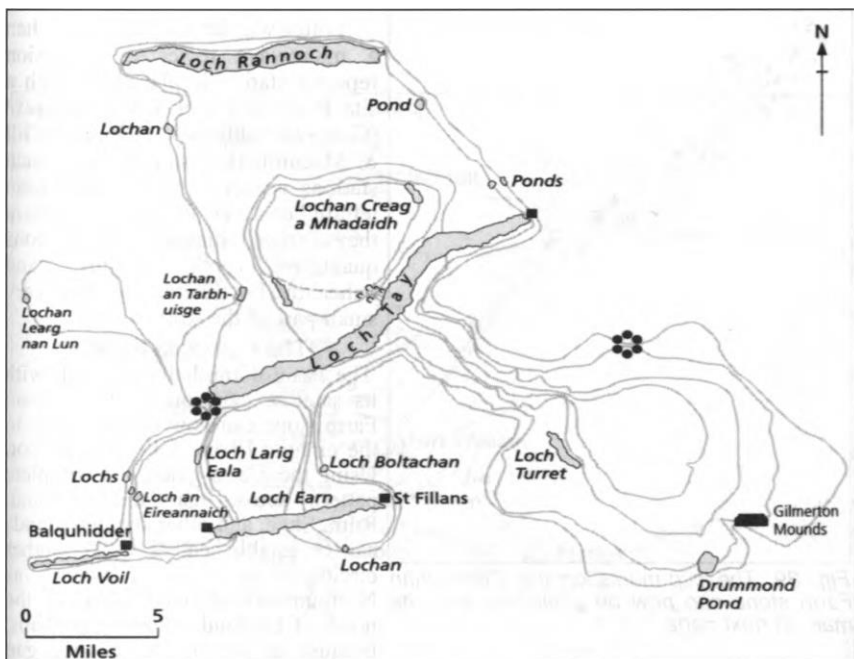


Fig. 38. The tiny 18 inch high 'Bhacain' in Glen Lyon. Centuries ago, young girls were forced to crawl beneath this stone. It was used as a primitive form of contraception before the girls were sent to the lawless lowlands to work.

At the highest point of this circuit is yet another loch, Lochan Learg nan Lunn, which, like the other summit lochs, attracts the cup-mark ley to the top of the hill and down into Glen Lochay, where it is once again captured by HT pylons, this time the wooden two-poled type, which the circuit follows down towards Killin passing under a modern bridge.

From the Bhacain eastwards, there is little of interest. It passes under another bridge, then contours down towards Killin.

The circuit follows an old track, now metalled, and reaches the pass via a cairn which marks the point used as a respite by funeral processions not so long ago. It was the custom to place a stone on the cairn when they left for the remainder of the journey.



Map 7. Lochs, large and small, help form the telluric pattern around Perthshire.

The Telluric Centre

Now that the four cup-marks had been mapped out, it seemed to me that there must be some focal point within each cup-mark ley, so I went back to the Balquhiddy circuit and the standing stone, Phadruig, and once again tuned into the cup-mark ley along its spine, then I turned at right angles and walked towards the hypothetical centre, into the hills.

At first the waves were quite close together, but they settled down to around 20 feet (6 metres) apart. Eventually, I reached the centre – the summit of a hill near the centre of the cup-mark shape. I walked carefully to the focal point, spiralling in to the summit cairn, a loose heap of boulders on the very summit of the hill.

There is more to this than a simple clockwise spiral from the summit of this hill, as there is also an anti-clockwise one. To complicate matters further, there is now a square survey cairn nearby, which has spirals from each of its concrete faces! Possibly, the summit of every hill emits spirals

of telluric energy for some considerable distance in the form of shape waves from the cairn or cairns on its summit.

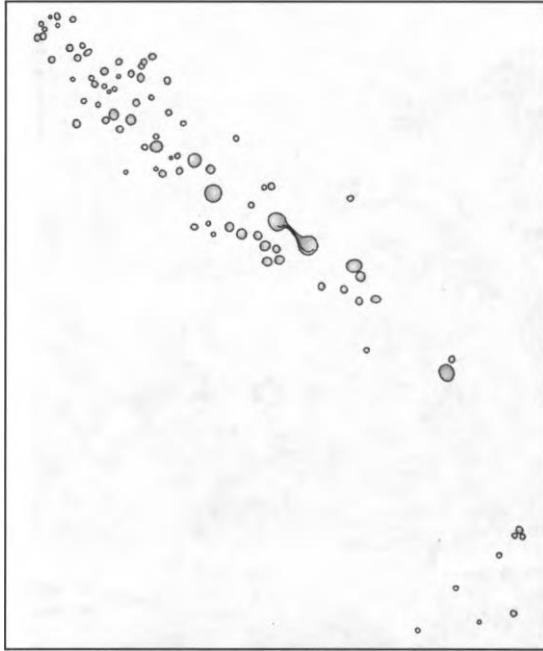


Fig. 39. The cup-marks on the Connachan Farm stone can now be compared with the map on next page.

I often wonder what happens when a microwave tower or television repeater station is placed on such a site. In my first book *Safe as Houses?* (Gateway Publishers, 1996, now Gill & Macmillan), I showed how such stations attract natural subterranean telluric energies up to them where they are then radiated out in enormous quantities, both healthy and unhealthy, but this can only be a very small part of the story.

The Complete Pattern

The basic dumb-bell cup-mark with its satellite cups on the Connachan Farm stone can now be compared to the circuits I have followed on foot. Using these as a guide, the complete pattern across

mainland Scotland, Rum, Skye, and other smaller islands can be established, as well as other circuits as far away as Northumberland and Durham in the north of England. There is, perhaps, because of weathering, a wide gap between the cup-mark circuit to the west of Edinburgh and the Duns (Borders) area and a cluster around Newcastle-upon-Tyne. (See *Figure 39* above, and *Map 8*, page 79). The projected cup-marks should also coincide with burial-grounds, standing stones and circles across the country, like the circuits in previous chapters, although it must be realized that this is the crudest of maps.

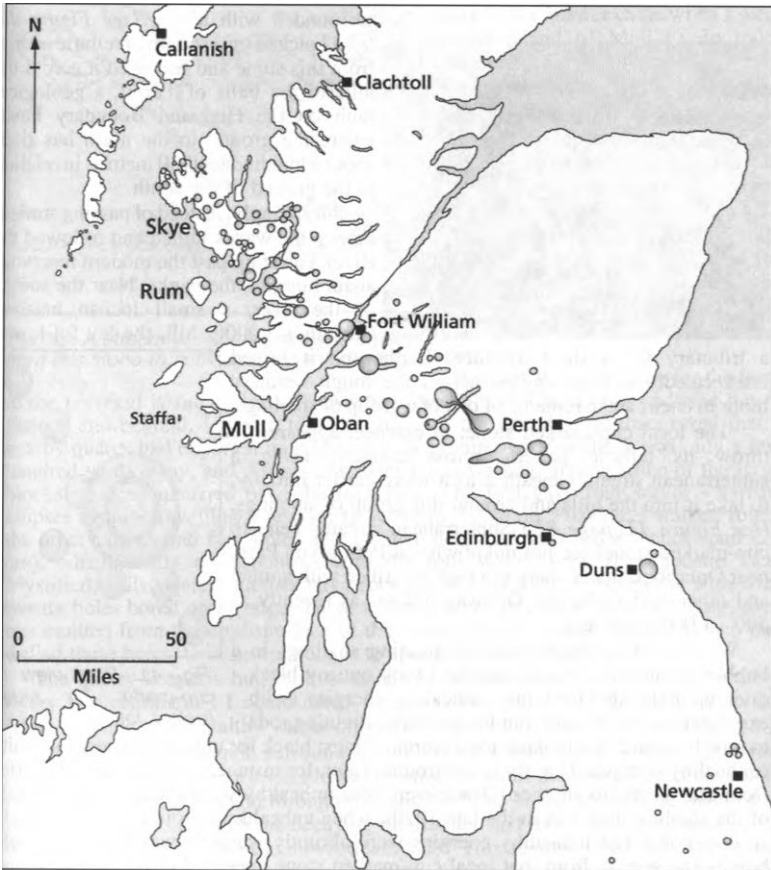
A Different Type of Circuit

I have mentioned on several occasions that the cup-mark leys pass through the longitudinal axes of old shielings.

One day, following a cup-mark ley up a remote glen, I stopped and sat on a boulder, exhausted. As I recovered, I noticed that the boulder was part of an old shieling, and decided that this was a good opportunity to find the crossing energy which must surely be focused through the dwelling.

The pattern, however, was totally unexpected. The cup-mark ley passed through the long axis of the little building, but this crossing wave turned to my right, around the building, and back to the nearby stream. Another wave also crossed the building, then turned in the opposite direction, across to the other bank of the burn, forming a bifurcated bubble of energy which completely surrounded the shieling. I traced the energy downstream, following the high banks which the dashing waters had carved for themselves, down on to the floor of Glen Lyon. Here, the tributary entered the River Lyon, and the energy waves continued along both banks of the river for some distance, hugging the banks all the time.

Leaving Glen Lyon, I found a local cup-marked stone more suitable for my purpose, close to the Connachan Farm stone in the Sma' Glen. This had been carved with nine cup-marks, one surrounded with a ring (see *Figure 40*, left). I picked up a stream of telluric energy from this stone and followed it across the hills to the Falls of Turret, a geological fault on the Highland Boundary Fault, where the ground to the north has risen about a hundred feet (30 metres) in relation to the ground of the south.



Map 8: Cup-mark circuits across Scotland and Northern England.



Fig. 40. This is the 'local' cup-marked stone which has also yielded its secrets.

Surprisingly, instead of passing straight across, the waves turned and followed the River Turret up past the modern reservoir, again hugging the banks. Near the source of the river, a small lochan nestling beneath a 3,000 ft. hill, the ley followed a tributary for a short distance. Further on it turned unexpectedly at right angles, across the rough heathery moor to encircle the remains of one of a group of shielings.

The local cup-marked stone, in essence, appeared to throw its telluric pattern across country, using a subterranean stream beneath it as a wave carrier initially, to take it into the hills and around this group of shielings. (see *Figure 42, page 81*). Subterranean streams beneath cup-marked stones are not unknown – at Petroglyph Park, near Ontario, Canada, there is a rock inscribed with animal and other designs by the Ojibway Indians as recently as 500–1,000 years ago.

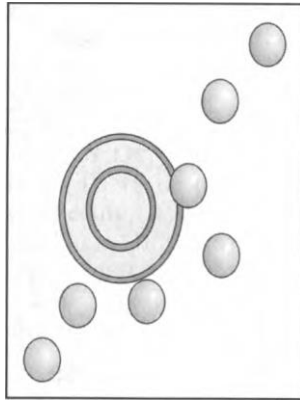


Fig. 41. Plan view of cup-marks on stone (below, left).

Why go to all the trouble of encasing shielings in a bubble of energy? On an impulse I took out my black divining rod and tuned into unhealthy energies (with experience, a bio-locator can use coloured divining rods to tune his mind into looking for different things: black for unhealthy energies, white for healthy energies, blue for underground water, for instance. The colours will differ from one person to another). There were four unhealthy waves heading to one side of the shieling (this was in the late 1970s, when unhealthy energies were not nearly so common). The unhealthy energies were abruptly warped away around the old home. The energy from that local cup-marked stone appeared to protect the house from these unpleasant influences.

It is possible that this bubble of energy could give the inhabitants good health and a feeling of well-being by projecting healthy negative ions through their homes. These would be carried by the energy waves from the cup-marked stone. Probably, they pick up the ions from the little stream as its waters dash and foam down the bed of the stream.

Another mystery was the energized cup-marked stones. How were the varied shapes, pecked into stones, transmitted across country as a magnified telluric replica of a cup-mark? The answer came when I went to the island of Mull to do more research.

Flooded out of my tent during the night, I put my sodden clothing on a nearby fence to dry. One of the iron stanchions had been inserted into a large earth-fast rock, and I tried my divining rod there to see what I could find. Incredibly, there was a little ellipse of energy which extended for a few yards, before returning to the stone. Apparently, percussing a hole in

a stone causes it to emit a form of energy.

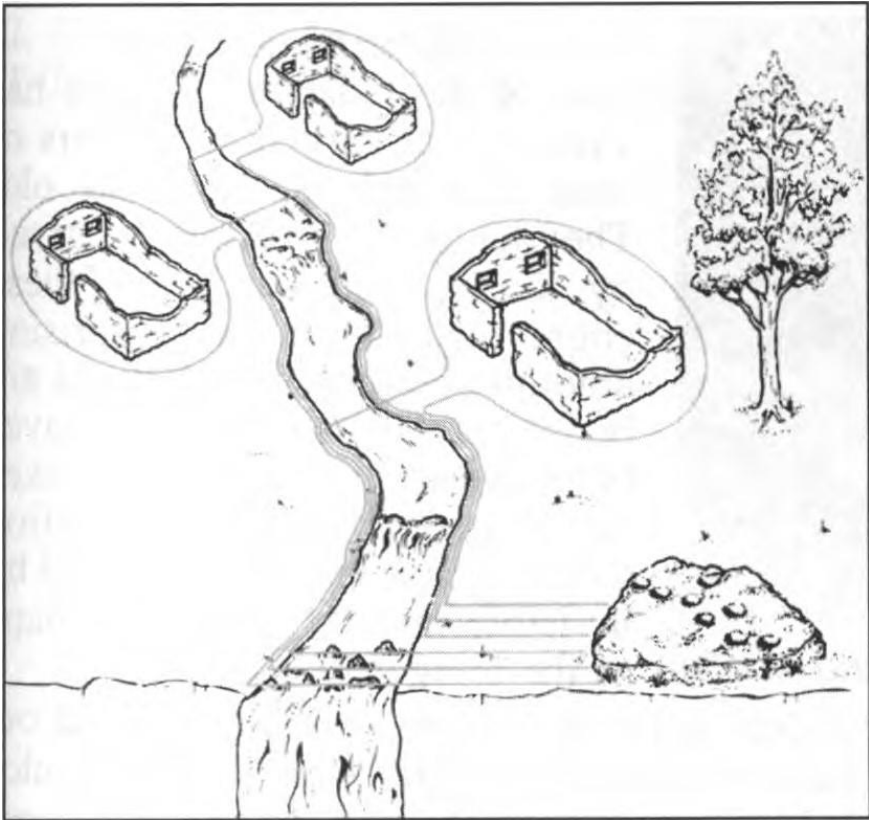


Fig. 42. A stream of telluric energy is emitted from this stone to surround ancient shielings.

Later that day, waiting for the ferry to the mystical island of Iona, from where the light of Christianity radiated out to Europe and beyond, I read a tourists' guide to the islands, and discovered that a nearby quarry had exported its beautiful pink granite world-wide. It was only a few hundred yards away, and a short time later I was walking among some of the large blocks of stone quarried from the rock face. The first gave four waves – narrow ellipses again – travelling a few yards out from the stone. Puzzled, I walked round the other side to find four holes about 1 inch deep (2.5 cm) and 8 inches apart (20 cm), which neatly corresponded with the four waves from the opposite face. Mystified, I discovered another large rock the size of a small bungalow with over twenty holes

bored on its edge. There was one wave of energy for every hole, each one emitted from the opposite face of the stone. To split rocks, the quarry men had drilled these holes, then insert wedges to split the stone roughly into shape.

The quarry-keeper's hut, built of hand-carved and faced granite, stood nearby. Every few centimetres I could detect waves of energy which reacted only to my white divining rod – healthy waves only. The wavelength was 66 inches (168 cm).

A nearby burial-ground, surrounded with the same faced granite stone, gave rise to an intriguing new theory – could the healthy ley from the nearby volcanic island of Staffa, passing down and through the length of this burial-ground, be changed to black as it crossed through the decaying interments, and then become cleaned up by the faced granite walls on the downstream side? This seemed to be the case, as my black divining rod worked only on the waves inside the graveyard, but not on the upstream or downstream side, and also the healthy waves gave a peculiar little twist above some of the interments, before changing to black.

To check this theory further, and since I knew that healthy energy waves could pass through glass easily, while the unhealthy ones avoided it, I obtained a sheet of glass from a nearby rubbish dump and tried again. Outside the cemetery the waves passed through the glass. Inside they were warped around, which appeared to further demonstrate their polarity.



Fig. 43. The remains of a typical Highland shieling.

Museum on Iona

One of the museums in Iona has a number of carved cist covers of nuns and abbots, centuries old. They had been laboriously carved by hand, and each of these engravings emit a surprising amount of energy which could not be interpreted as individual waves but was more like an aura. It takes no great stretch of the imagination to see the carvings surrounded by invisible energy, the same shape as the images themselves.

The next step was to carve my own cup-mark on a loose boulder and find out what pattern emerged. With a heavy hammer and cold chisel, I pecked out a nice deep depression on a boulder in a field. My divining rod showed me that the stone, still lying flat on the ground, now emitted a narrow beam of energy which widened out after several yards to form a small telluric circle. Why in that particular direction? I eventually discovered that the energy from the stone was transmitted *into the sun* at the time of carving. When I completed carving the stone, I turned it. The cup-mark energy obligingly followed. Using my black divining rod, I found that all the unhealthy waves in that area were diverted around the pattern on the ground.

Placing the stone above an underground pipe filled with running water, I discovered that the energy turned and followed the pipe downhill, using it as a carrier wave.

Locating such a carved stone outside my house caused the bubble of energy to expand until it encompassed the entire building. I was to use this later as an extremely effective method of eliminating unhealthy Earth energies, especially black spirals in the houses of people suffering from the many illnesses related to geopathic stress. Having worked in this field for a number of years, it is obvious to me that many illnesses, from minor to major, are at least exacerbated, and possibly even initiated, by black Earth energies. People living in the Scottish Highlands, and no doubt California and other areas of highly stressed geological formations are particularly prone to such telluric energies.

For anyone wishing to experiment with this, please use a good pair of goggles when you carve the stones. You will find more detailed instructions on how to protect houses and other buildings using this technique from the ever-increasing problem of unhealthy Earth energies will be found in my previous book. Most important points are that when you carve a cup-marked stone you must not move it until you have completed the carving. After the first few heavy blows to form the cup, you must then carve a line directly into the sun. Finish the carving, then

place the stone, lying flat (within a yard) close to any wall of your house. Bed the stone down in the earth, with the carved line pointing exactly at the wall (even a few degrees to one side or the other will stop it working).

CHAPTER NINE

Straight Leys

and How They Work

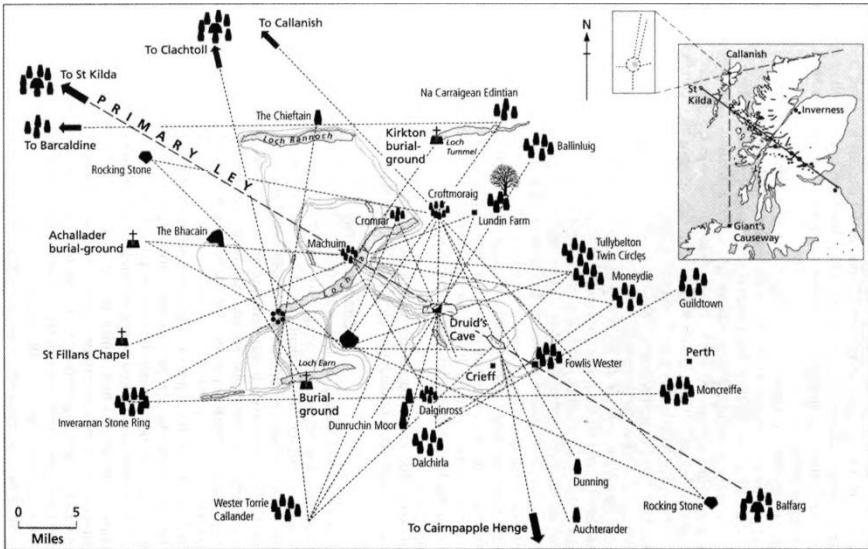
'Many roads hast thou fashioned and all of them lead to the light'.

RUDYARD KIPLING, *SONG TO MITHRAS THE SUN GOD*.

As my map of the cup-mark leys progressed, I was often struck by the peculiar and unexpected shapes which had evolved. Some of the circuits had been altered by roads and pylons pirating the energy, but that by no means explained all of them. Some had been moulded by straight leys – corridors of telluric energy comprised of individual waves which cross the country in straight lines, oblivious of hills and valleys (the cup-mark leys which we have just investigated tend to contour hills, unless attracted up to them by lochs or caves). As the cup-mark leys had been completed, I turned my attention to following the exhausting straight leys – walking across the Highlands of Scotland in straight lines is very difficult, to put it mildly!

A complete ley may focus in to half of the width of the broad face of a standing stone before it crosses the country and returns to focus in to the other half. A cup-mark ley may also be present, with the standing stone situated at the perimeter or working edge of the stream of energy.

The wavelength and amplitude of straight leys are also noticeably different from those of cup-mark leys. Over the few I have investigated, the amplitude of straight leys is about 12 inches (31 cm), whilst the wavelength varies between 39 inches (99 cm) and 59 inches (150 cm). Perhaps the width, depth and quantity of water under the monolith and the type of stone are responsible for the differences. There is one other important factor – the energy in a straight ley is a coherent standing wave, unlike the cup-mark ley which has a periodicity of almost two minutes, derived, as we have seen, from the resonant qualities of the Druid's Cave.



Map 9. Some of these straight leys were followed on foot. Since they appeared to be just touching the cup-mark leys, this map has been compiled from leys from stone circles and the three rocking stones in the area. It seems that there is at least one type of ley which helps to form the cup-mark leys.

Three long-distance leys have been included, one from the Callanish stone ring on Lewis and also the primary ley from St. Kilda to Balfarg stone circle. Only a few standing stones on this complex have been shown for clarity.

The inset shows the ley from the Giants Causeway in Ireland to Callanish which may act as a telluric block for the cup-mark energy ley across mainland Scotland. The east arm of Callanish may emit another ley across the north coast of Scotland, blocking yet another cup-mark ley complex.

The stone circles in Perthshire also have subterranean water beneath them. From the little work I have done, it appears almost as if a capped well had been formed over these sites, with veins of water spreading from the centre of the stone circle, between each standing stone. On occasion the water comes to the surface only a short distance away.

Other researchers had also found that each stone in a stone circle is on the boundary of a straight ley which ran just outside the circle. Some of these straight leys, however, were subtly different, as they just touched each *pair* of stones in the circle. These seem to have the specific function

of forming the cup-mark leys, moulding them into shape, almost like a magnetic bottle. The wavelength is 24 feet, 3 inches (9.4 metres) amplitude 42 inches (107 cm), with a cycle time of 1 minute 53 seconds. This is in the VHF range, where bodily absorption of energy increases dramatically.

Late in my research programme I followed a straight ley from the stone circle at Machuim, just to the north of Loch Tay, north-eastwards to Loch Tummel, then followed another which ran in a slightly diverging course, also from Machuim, to Kirkton burial-ground. Both were devoid of sacred sites, but they did just touch the boundary of the cup-mark leys I had already plotted.

One of these straight leys is of particular interest. It runs from Machuim stone circle to the north-west. Inside the Ben Lawers circuit, just to the north of Loch Tay (*see Map 9, page 85*). The cup-mark ley which it forms is shown as a dotted line, since this is the presumed original path of the cup-mark shape, as the modern reservoir has warped it out of its original shape, but the straight ley, following its presumed original path, carries on to the little Bhacain standing stone, then westwards through several of the Fingalian castles, and in doing so, forms the upper part of the Glen Lochay circuit.

Following this line, it passes through one of the strangest of all the ancient sites in the area, Taigh-nam-Bodach (the House of the Old Man), on its way to Achallader burial-ground.

A Strange Family

The first time I had visited the little old Bodach's house, long before my interest in Earth energies had begun, was simply to see the curious little structure. This had been during one of the most violent gales I have ever encountered, powerful enough to blow a ram into a tree, where it hung helplessly, its hooves clear of the ground. On this occasion, however, it was early summer, good walking, and comfortable.

As I approached the Bodach's house, a feeling of being swept back hundreds, even thousands of years, came over me. Here, time had stood still, the hills forever unchanging.

The Bodach and his wife, the Cailleach, were standing at the entrance of their little home to welcome me, as they may have welcomed many travellers over the centuries. They are not mortals, like you or I, but little water-worn stones, 18 inches (45 cm) high, and surprisingly heavy, if you

are foolish enough to pick one up, as I did, unaware of the bad luck which are associated with anyone who tampers with the family. The stones themselves came from one particular spot in the nearby tumultuous burn which gave them their curious shape. Now this timeless couple have five children, but they are not nearly so well formed as their parents – the locals, however, swear that they are still growing!

At one time this small shrine was thatched. When the people down in the glen, mainly MacGregors, took their cattle and possessions from the lower wintering pastures to the high ground here in the summer, the first thing they did was to take out the old couple and arrange them carefully around the little house and thatch it.



Fig. 43a. The Cailleach, the Bodach and family. These little water-worn stones have greeted generations of our ancestors taking cattle up to their summer pastures. (Picture R. Money)

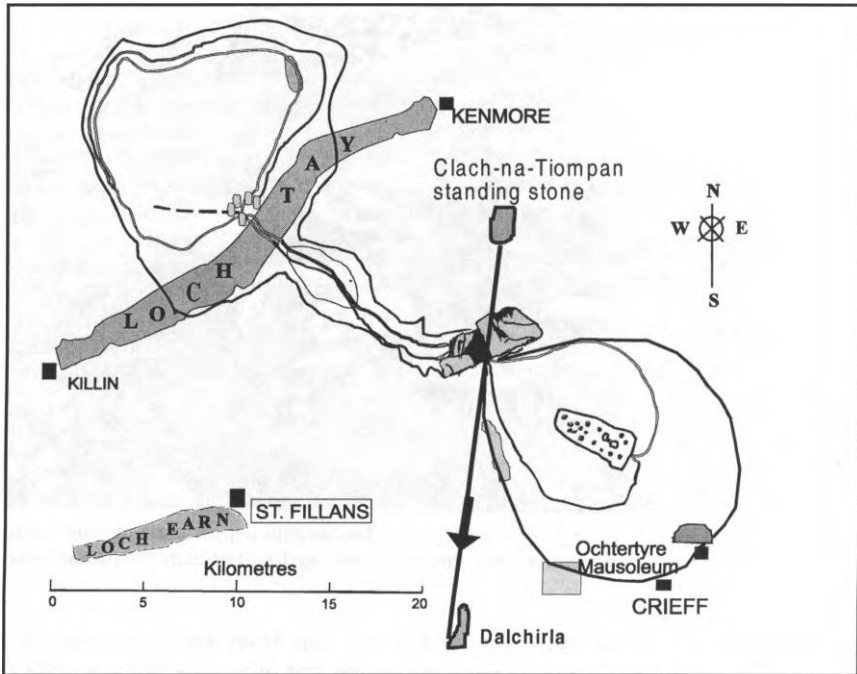
Nowadays, early every May, the 'keeper takes his boat up to the mouth of Gleann Cailleach and walks the remaining few miles to this house. He then opens it and arranges the family outside the entrance to

welcome the spirits of the people who lived in this remote glen. In late September he returns to replace them in their little stone house, tucked safely away from the winter storms. (See *Figure 41, above*).

Straight Leys as Formers for Cup-Mark Leys

Using my knowledge of straight leys as formers for cup-mark leys, I constructed Map 9. The cup-mark leys, of course, have all been followed on foot, although I have adjusted the ley near Drummond Pond to its original presumed route. Many of the straight leys have also been followed on foot, but now that the bones of the cup-mark system have been laid bare, it is quite easy to draw the straight leys between stones and circles which form the cup-mark leys, such as the Clach-na-Tiompan stone to Dalchirla stone circle ley, which just nudges a short stretch of the cup-mark ley out of the mouth of the Druid's Cave, This ley travels on to a four-stone circle near Clach-na-Tiompan, Auchnafree, and further on to a four-poster at Lundin Farm (*see Map 10, page 88*). Some leys between single standing stones are involved in Map 9, but are not included, as it would complicate the map enormously.

The cup-mark leys to the east and west of Loch Tay and Loch Rannoch must also be formed by straight leys from Croft Moraig and Killin stone circles respectively, but there is a dearth of stone circles to the north-west of Perthshire.



Map 10: The ley from Clach-na-Tiompan to the Druid's Cave.

Projecting a straight line from Killin north-north-east to form the cup-mark ley around the western side of Loch Rannoch leads eventually to a recently discovered 9 yard wide stone circle with a huge central stone by the sea at Clachtoll, near Ullapool.

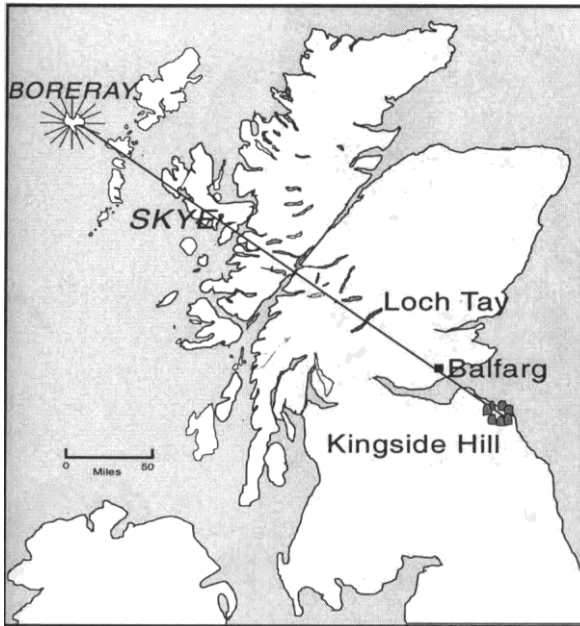
From Croft Moraig, another line can be drawn to Kinloch Rannoch, forming the cup-mark ley at the eastern side of Loch Tay/Rannoch. Extending this, there is nothing of note until the remarkable stone complex of Callanish on the island of Lewis (*inset, Map 9*), where the ley enters (or exits) its south eastern flank. These two long-distance leys are purely hypothetical, based on experience, of course, but there must be many other long-distance leys across the country which are part of this cup-mark ley system in Perthshire, which in turn, is only a small part of the overall picture country wide, or even world wide.

The one major problem I cannot resolve at the moment is that straight leys sometimes pass through cup-mark leys, occasionally using a standing stone as a cross-over point, and sometimes help form them.

The Powerful Primary Ley

Shortly after this, I found the main energy ley powering the entire system. It runs between two stone circles with centre stones (*see Map 11, page 89*).

Until now I had explored the leys using some six 1: 50 000 OS maps pasted on a large board, but it was not until I extended this with a further two maps that I discovered the fuller extent of this ley. From Balfarg stone circle (*bottom right of Map 11*). I plotted this ley through the nearby Balbimie henge, on to two stone circles with standing stones at Fowlis Wester and to the main target – the cup-marked stone at Connachan Farm. From there it travels north-west, neatly through the Druid's Cave and on to Machuim Stone Circle and northwest off the map. Projecting this line to the south-east as far as I can, it goes to Balfarg, north of the Firth of Forth and possibly further on to the 30 stone circle of Kingside Hill, near the village of Duns on the Scottish/English border.



Map 11: The ley is initiated on the volcanic caldera.

Back to the north-east this line carries on to Skye, probably through a

stone circle there, across the Little Minch to North Uist, close to or through the massive standing stone Clach an t'Sagairt (The Stone of the Priest) and, very disappointingly initially, disappearing into the vastness of the Atlantic.

Back to the Beginning

Later, reading through Aubrey Burl's book *The Stone Circles of The British Isles*, I was astonished to see a stone circle with a possible centre stone listed on Boreray, part of the island complex of St. Kilda.

Boreray is a tiny speck of an island (*see Fig. 42, page 90*), some 50 miles (80 kilometres) from the nearest land. Its precipitous cliffs inhibit any but the hardiest of men and women from living there. Nevertheless it did have a small village near the tiny landing site, but even at that, a metal pin had to be inserted in the cliff face to make landing easier for the St. Kildeans, who had to leap on to the cliff face, often from a 30 ft. (9 metre) swell when they went to collect the eggs (and the sea birds themselves) for food. This bare, windswept island has now been left to the mercy of the gales and the wild Atlantic swell, with nothing left but the largest colony of gannets in the world.

Yet, even here, megalithic man has left a stone circle on the rim of this ancient, partially submerged volcano. Extinct volcanoes, caldera, plugs, etc., seem to be the most important source of telluric energies our ancestors used.

It would appear that this ley, when working, resonated the cup-marked stone at Connachan Farm, throwing its cup-mark circuits across mainland Scotland as far as Skye. Why as far as Skye? Is there some system which determines the distance the cup-mark system can travel?

The answer may lie in another powerful energy ley from Callanish on the island of Lewis which acts as a telluric block or stop. This remarkable but uncompleted stone circle, in the shape of a cross, has several stone rows running from it. A line drawn down the southern avenue of stones, which is almost precisely on the north/south meridian, just touches the western-most cup-mark circuit on the island of Skye. Projecting it further, it arrives at the possible source – The Giants Causeway in Ireland (*see inset, Map 9*).



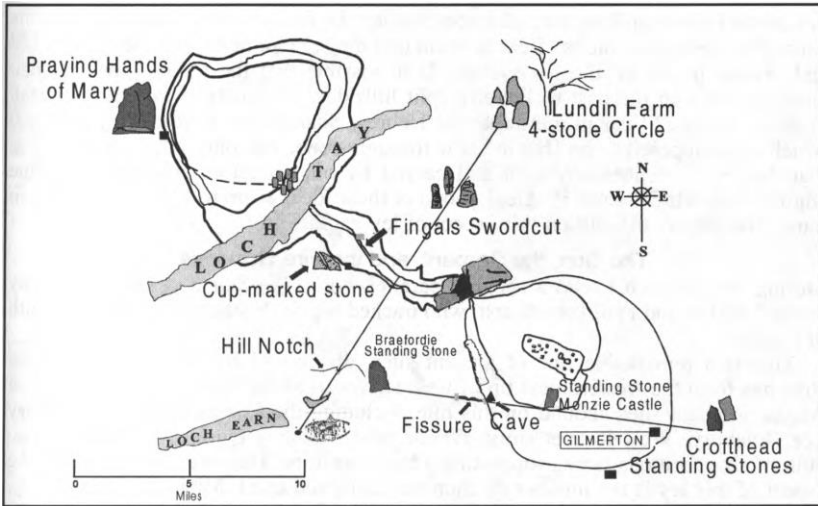
Fig. 44. The inhospitable island of Boreray, (left) St. Kilda, far out in the Atlantic, has a stone circle on it. The world's largest gannetry, Stac an Armin, is at centre. Stac Lee is to the right. Nature has at last recaptured these islands – all the inhabitants have left (©Colin Baxter).

Splitting Stone

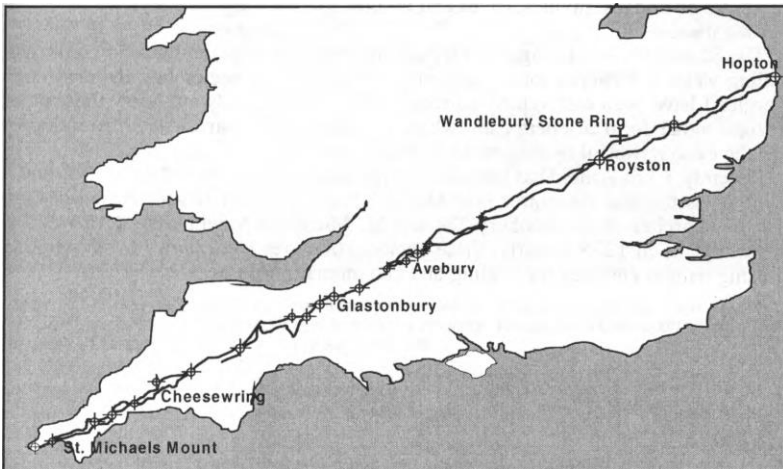
Following a hunch which had bothered me for some years, I returned to the fissure above the tiny cave near Loch Turret (*see Map 12, page 91*) and found, as I suspected, that there was an energy ley running straight down the fissure roughly east-west. To the west it flows from the standing stone/circle near Braefordie, and to the east I followed it part way to a standing stone at Monzie Castle, just touching the foot of the dumb-bell shape, to the two standing stones at Crofthead mentioned in Chapter Fifteen.

I was now forced to contemplate the unusual number of geological fissures and split stones on the circuits: – The Praying Hands of Mary, Fingal's Swordcut on the summit of the Sidh of Ardtalnaig, and the split cup-marked stone at its foot, the ravine forming the hill notch at St. Fillans, where I had found the dead deer, several other boulders, the locations of which I have long forgotten, and now the Loch Turret

fissure.



Map 12. The ley from the standing stones at Crofthead to Braefordie passes through a fissure behind a cave near Loch Turret. This fissure is similar to Fingal's Swordcut, and there is a cup-marked stone, also split, at the foot of the Sidh of Ardtalnaig. Are they natural, man-made, or part of the phenomena of energy leys?



Map 13: The St. Michael/Mary Line across Southern England – not a straight ley, but two intertwining leys. The places where they cross were marked by sacred sites.

Were these stones split by lightning and weather? The Praying Hands

of Mary has certainly been split by natural forces, but are the fissures in the hills natural splits caused by geological faults? Bear in mind that they are all neatly situated at specific and pivotal points on the ley system. Is it possible that the telluric energies had enough power in the past to literally split hillsides, especially if they had a weak point or fracture? Bear in mind that the Hebrew Shamir was a worm (ley energy?) which was supposed to be able to chew through stone. The only other alternative is that they were deliberately split and carved by our ancestors as part of ley line engineering, which seems illogical – none of these ideas seem to fit, but one of them must. The jury is still out on this aspect of ley engineering.

The Sun, the Serpent, and the Fire Goddess

During my research I read a roughly parallel work, *The Sun and The Serpent* by Hamish Miller and Paul Broadhurst, who tracked the St. Michael's Line in the south of England.

This is a remarkable line of ancient sites, discovered by John Michel, which stretches from the westernmost tip of west Cornwall to the eastern seaboard of East Anglia. Ancient sites abound on this line, including the Cheesewring, Glastonbury Tor, Avebury, West Kennet stone avenue, and Trethevy Quoit, a Neolithic tomb built of six enormous stones supporting a huge capstone. However, the most striking aspect of this ley is the number of churches dedicated to St. Michael and St. Mary. (*See Map 13, page 91*).

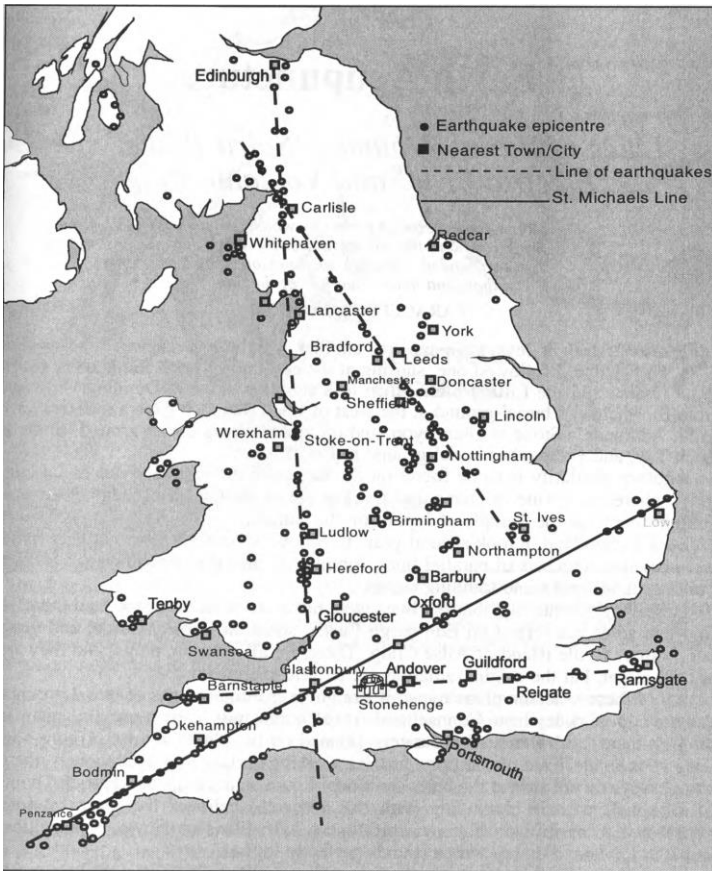
When Hamish Miller and Paul Broadhurst, with Vivienne Shanley and Ba Russell followed this line, also using divining rods, they made the fascinating discovery that it was not one thin line of energy, but two intertwining streams intersecting at nodal points where the important sites were situated.

The St. Michael Line is composed of a stream of energy about twenty paces wide, with the most powerful part in the centre, and tends to meander snake-like across the country, tuning not only into ancient sites, but also modern quarries, buildings, the centre of bridges, ravines, caves and castles, like the cup-mark leys we have just investigating.

The St. Mary's line is slightly different: it meanders more, and tends to tune into healing wells and church fonts – something which, if you remember, the cup-mark energies I have been researching pointedly refused to do. I always knew there must be some other form of energy ley

which excluded the cup-mark leys from tuning into the once powerful healing wells in Perthshire.

Recently, Chris Arnold has been discovered that the St. Michael/Mary line follows a line of earthquake epicentres (*see Map 14, page 93*). This is verified by the fact that the churches on Glastonbury Tor and St. Michael's Mount were destroyed by an earthquake in 1275. Clearly, these ancient structures were built for the purpose of using natural energies for healing and ceremonial purposes.



Map 14: The St. Michael/Mary line (from bottom left of illustration) can be seen as one of several lines of earthquake epicentres across the country. These have been plotted from 1992 to 1996. (Composite map from many sources). CA.

CHAPTER TEN

Earth Acupuncture

Lines of Burial-grounds, 'Spirit Paths,' the 'Electric Brae' and Volcanic Plugs

'Man also possesses a power by which he can see his friends and the circumstances by which they are surrounded, although such persons may be a thousand miles from him at the time.'

PARACELSUS, 1493–1541

Several straight leys gave me yet another insight into ancient legends and knowledge. I followed one, starting at the east end of Loch Rannoch to Clach Ossian and the Lifting Stane, then to a standing stone at Dunning. Another, from St. Michael's burial-ground at the west of Loch Rannoch gave a difficult walk to St. Adamnan's Stone in Glen Lyon, and on to Ardtalnaig burial-ground, south of Loch Tay, and yet another burial-ground in Crieff.

Another similarity is to be found on the slopes of the extinct crater of Latium, Italy, where the Shrine of Diana and the Temple of the Queen of Heaven are in a straight line from the Temple of Jupiter on the summit.¹

Back in Scotland, it took several years to follow the straight leys, until my maps were covered with sets of parallel lines, running in three directions through ancient burial-grounds and some standing stones.

Observing, eventually, that the lines were not quite parallel, I projected them, to find that some converged on Edinburgh Castle, some on Stirling Castle, and years later, others to the island of Ailsa Craig. These are all volcanic plugs, and they are not the target, but the origin, radiating out telluric energies.

All of these volcanic plugs transmit straight leys through lines of burial-grounds and the cup-mark ley from Connachan Farm also transmits its own peculiar energies through them, with the dead

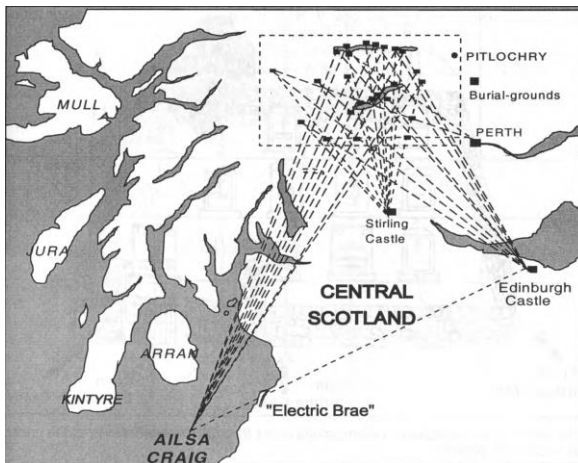
¹ Margaret Stenhouse. 'The Goddess of the Lake.'

accurately situated on the planet's pulse. *Figure 44a, page 96* is an idealized illustration of such a working burial-ground. Obviously, these straight leys do not stop at the burial-grounds shown on the map, and Patrick Thoms of Glasgow, who is continuing with this research, believes that they continue northwards to earth themselves via prominent hills, like Ben Nevis, Schiehallion, and Ben Lawers, a theory which sounds perfectly logical.

Ancient burial-grounds were sometimes placed where these straight leys cross. As my map grew, it even became possible for me to predict the sites of burial-grounds unknown to me. Another volcanic sill, at Kinnoull Hill, near Perth, also emits streams of energies through these burial-grounds.

The waves emitted by volcanic plugs are the usual standing waves, 85 in. (216 cm) wavelength, and 12 in. (30 cm) amplitude, not dissimilar to those emitted by standing stones and are in the VHF waveband.

At the centre of these radial leys, castles were sometimes built and these, of course, were the seats of the reigning monarchs, or rulers (hence the term 'as straight as a ruler' as Paul Devereux points out). What the reigning monarchs of the past, sitting in the centre of these strange energies, with a crown of precious stones on their heads used this energy for, is an interesting question.



Map 15: Simplified diagram of burial-grounds across Central Scotland (a few shown as black rectangles). The dotted rectangle shows the mapped leys before they were projected to the volcanic plugs of Edinburgh and Stirling Castle and Ailsa Craig.

These leys must end somewhere, and one theory is that they earth

themselves through major hills to the north of this map.

These straight leys are not unlike 'spirit paths', roads which lead to cemeteries. Medieval straight track roads, called Doodwegen, which run from villages to cemeteries (hence the term dead straight!) still survive in Holland. In several countries it was illegal to take the dead in anything but a straight line, and another similarity can be found in the Gilbert Islands, West Pacific, where the islanders believed that the newly released spirits from bodies travel in straight lines. In the Celtic culture too, can be found the concept of 'faery paths' like the Muthill/Crieff road, (*see Map 4*) in line with the henge of Cairnpapple which had an important burial at its centre. These paths were considered unlucky to build upon.

The 'Electric Brae'

If you draw a straight line between the volcanic plugs of Ailsa Craig and Edinburgh Castle, it will run through Croy Brae. This is sometimes called 'The Electric Brae', and is said to defy the laws of gravity. Sure enough, when I drove there, I had to change down to third gear to go down what appeared to be a steep hill, and when I stopped half way down, the car slowly reversed and gathered speed 'uphill'. My collapsible push bike gave an even more vivid interpretation of this phenomena – it is quite galling to expend so much energy in pedalling down this hill!

There are other places around the UK which exhibit the same phenomena. One is on Ranmore Common, Surrey, on a road coming from Dorking and another is in Mull. Abroad, there is a new motorway in Cairo, where the road surface has been quarried from the same site as the granite blocks of the pyramids. Yet another road is in Italy, near the small town of Rocca di Pappa, high up on the conical tip of Mt. Cavo, another extinct volcano, where families may be seen on Sundays rolling bottles and cans up this 'magnetic' hill.² Even streams can have this effect – one at Long Mynd, Shropshire, and another near the B797 in Ayrshire.

² Ibid.

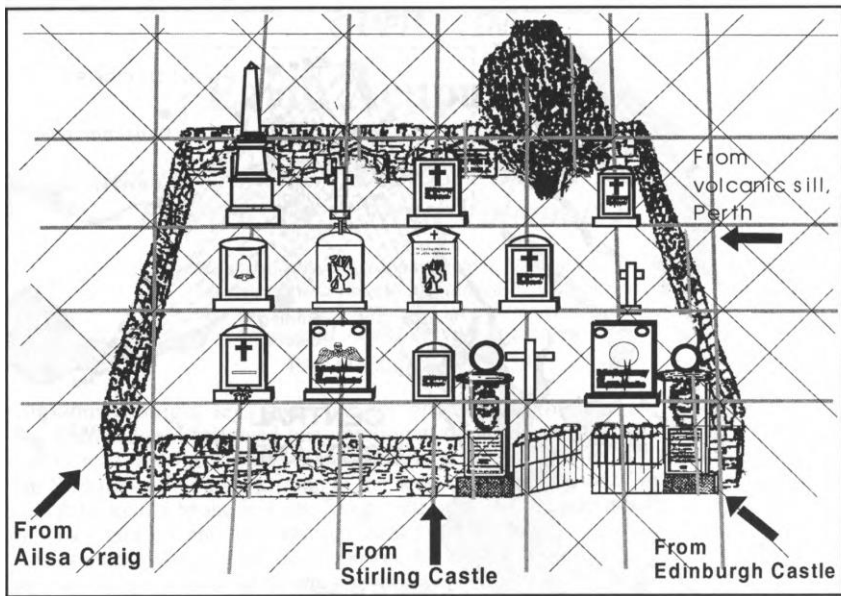


Fig. 44a. Leys from distant volcanic plugs cross through the headstones of the graves at this burial-ground.

When any track or road is cut through virgin ground it forms its own energy “ley”, consisting of a series of vertical waves running parallel with the road, following the twists and turns. It is usually 1 metre apart, with a wavelength of 16 ft. 8 in. (508 cm), amplitude 23 in. (58 cm), and is a standing wave. But here on the ‘Electric Brae’ the wavelength is amplified to 1 ft. (30 cm), and only on this part of the road. There is a small lay-by here, which has the same effect. The peaks of the waves are very close together on the tarmac, but ease out to the normal wavelength on the grass verge, both above and below the lay-by. When I tried the fields on both sides of the road, these showed no amplification at all. It was only on the tarmac road that the compressed pattern of waves occurred.

Unfortunately, surveyors have confirmed that there is no gravitational anomaly – it is an optical illusion, but that doesn’t fully explain this strange effect, which I have heard was unknown until the road was metalled.

CHAPTER ELEVEN

The Leys from Pillar Island

The Glen Lyon Ley

'The Earth hath bubbles, as the water has, and these are of them'.

WILLIAM SHAKESPEARE, *MACBETH*, 1, iii.

One of the most interesting straight leys must be the one which runs through Glen Lyon to the west of Scotland, and I was determined to find both its source and destination. The destination was easily discovered. A little to the east of Fortingal there are three stone circles, close together, which are the terminal points of three streams of leys which sweep across the country. Moreover, being circuits, they run in both directions, giving six streams of energy spread across the floor of this beautiful glen.

Walking westwards, the first element is Fortingall burial-ground, in line with 'The Praying Hands of Mary,' the peculiar split stone I had encountered years ago which initiated my interest in this particular ley, then another burial-ground at Bridge of Balgie, rectangular in shape like the others, and pointing down the glen.

Next is Meggernie Castle. Part of the haunting has already been recounted. It is one of the better authenticated stories of a haunting in this country:-

The Ghost of Half a Woman

The wife of Captain Menzies was brutally murdered when he suspected her of having an affair. After hiding her body beneath the floor of a closet in a space between two of the rooms in the castle, he took his leave from Glen Lyon to go to the continent, returning after a suitable time, to say that his wife had died during their visit. Shortly after returning, he recovered his wife's remains, cut the corpse into two pieces, and carried the legs and torso unseen to the nearby graveyard in the castle grounds, where he buried them. He did not survive to finish his grisly task, however, and a short time later his body, with a gruesome

expression on its face, was discovered at the entrance to the tower. Some say he saw the ghost of his wife and was frightened to death. Or did her suspicious lover murder him?

In any event, the upper part of her body lay undisturbed for a long time under the floor of that little closet, between the two rooms.

In 1882, two friends of the tenant of Meggernie, Mr. Fetherstone and Mr. Simons came to stay at the castle, occupying these rooms. During the early hours of the morning, Simons awoke with what appeared to be a burning sensation on his cheek, like a scalding kiss, which seemed to cut his flesh to the bone. The room around him glowed with a strange pink light. Terrified, he saw the ghostly upper half of a woman drifting away into the closet. His friend in the adjoining room later corroborated his experience, saying that in his case he was awakened by the light and the figure bending over him. As he rose in terror, the apparition moved back into the closet. Many of the servants had also been frightened of the ghostly figure, although the two gentlemen had no knowledge of this at the time of the incident, having only just arrived at the castle after a long journey.

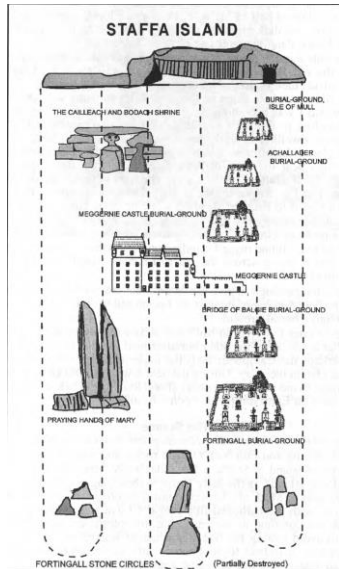


Fig. 45. The volcanic island of Staffa shown at the top of the illustration radiates telluric energy in all directions, like the spokes of a bicycle wheel. Here, a ley runs through a line of burial-grounds, an ancient shrine and some castles to Fortingal stone circles at foot of illustration.

Comparatively recently, the upper part of a skeleton was found under the floor, when renovations were being carried out in the castle, and within living memory, a Doctor MacKay from Aberfeldy was astonished to see the ghostly upper part of the woman float past him at ceiling level. The ceiling had been raised, but the apparition stayed on the same level.¹

The third burial-ground, on the trail of this ley, is the castle graveyard, where Captain Menzies buried half of his wife. One young local, trying to keep a straight face, told me that, one dark night, he passed this eerie spot, to be confronted with a ghostly pair of legs, dangling over one of the gravestones!

There was little more in the way of ancient sites as I followed the ley up to Gleann Cailleach to the old Bodach's shrine. They were still there, as usual, in a neat semi-circle, outside their house, so I paid homage to them in passing, placing a small offering of a white quartzite stone on the roof. After so many years of research into this strange world I was becoming wary of the unseen, and, in any case, the word cailleach, according to Dwelly's Gaelic dictionary, also means "a supernatural or malign influence dwelling in dark caves, woods and glens". Better to be safe, I thought, as I placed the offering and walked on, up to the ridge, over and down to the burial-ground near the farm of Achallader. A short distance away is another castle, built by Black Duncan of the Cowl, which may have been on this wide ley. I ignored it as I had a long hard slog to Barcaldine Castle and further west to the coast, where I hoped to find the standing stone or stone circle which, I presumed, started this multiple energy ley.

There was no stone circle, no standing stone, nothing. After an exhausting walk over rough bogland, I found myself standing on the seashore, quite exasperated, with my divining rod pointing across the sea to Lismore Island, and beyond that, the mystical island of Mull.

The ley was long enough to give me an accurate projection on my map, however. Lismore Island held nothing of interest, so I projected the line further to Mull, where it passed through a burial-ground.

A few weeks later I arrived on Mull and picked the ley up at this burial-ground, to discover that it, like all of the other burial-grounds on that ley were predominantly Campbell. Perhaps the Campbells had 'the understanding' – they were certainly a very powerful clan in their day. During the next few days I tracked across the island, until I once again

¹ Archie McKerracher. *Perthshire in History and Legend*. John Donald Publishers, Edinburgh.

found myself on a sandy shore, looking out to sea, more exasperated than ever. Where on Earth did this ley come from?

The Source

Again I projected the ley westwards on the map, and this time the source was revealed, as obvious as Stirling and Edinburgh Castle rocks, and made from similar material as well. It was the island of Staffa, a few miles away, across the sea.

Stafrey (Pillar Island), as the early Norse in their long ships called it, is a unique island 7 miles west of Mull, off the west coast of Scotland. It has beautifully formed basalt columns, with the cathedral-like Fingal's Cave a prominent feature. Fingal and his giants are common in ancient Celtic mythology, as one might expect – he built Staffa to avoid getting his feet wet when he walked across the sea from the Giant's Causeway in Ireland to Scotland to 'lift' cattle, according to legend. The Wishing Chair inside also has his name appended to it, although it was originally called the Priest's Chair, and the cave was at one time called the Gaelic equivalent to 'the musical cave'. There is also 'The Herdsman', a short distance away, which reputedly had a pedestal for each of Fingal's warriors, the Fian. The basalt, poured from a volcano during the Tertiary period, has contracted into the hexagonal columns which are a feature of the island, further sculpted by the pounding Atlantic breakers.

The island shakes so much during violent storms that one family occupying a tiny clachan near the centre of the island in the late 1790's were forced to leave.²

Unfortunately, it was some years after my visit that I realized that the caves were even more powerful than the island itself. I have read that a light at the back of Fingal's Cave can be seen on the nearby island of Mull, the Sacred Isle, and of course, if a light can do that, so can a ley. It must be unusually powerful – the famous Iona Abbey is situated on it.

² Donald R. McCulloch. *Staffa*. David and Charles.

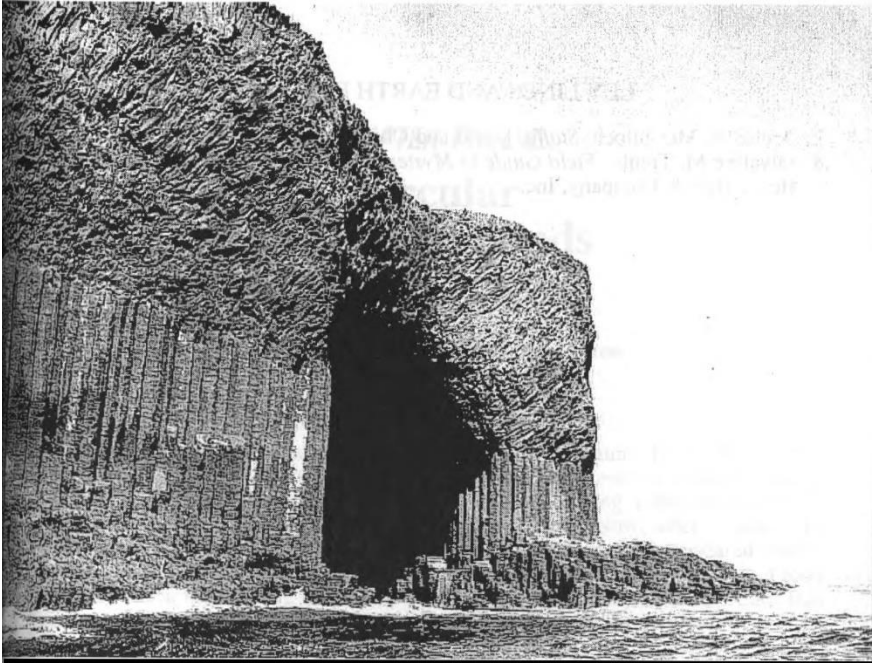


Fig. 46. Fingal's Cave.

The hexagonal columns of basalt on Staffa seem to be possessed with unusual qualities, as there are similar columns at Yakima, Washington, USA, dating back 1,200 years, which have been painted over with red and white paintings of faces with halos and rays pulsing from the head.

Again, S. Trento has discovered that there is a magnetic anomaly here. Twenty feet from the cliff face very high magnetic readings were recorded, but close to the highest number of painted faces the milligauss readings dropped. He believes that the ancient artists chose specific locations with low magnetic readings which altered their perceptions of reality, a theme which we will return to later.³

³ Salvatore M. Trento, *Field Guide to Mysterious Places of the Pacific Coast*. Henry Holt & Company, Inc.

CHAPTER TWELVE

Circular Burial-Grounds

Four-poster leys

*‘Where plants perish and animals are absent, there thou should not live,
the place is unhealthy.’*

MICHAEL NOSTRADAMUS, 1503–66

Four-stone circles (four posters) work in a different manner from other circles. After several weekends following a ley from a four-stone circle at Lundin Farm near Aberfeldy, (*see Figure 48*), I was becoming a little disillusioned, having encountered nothing in the way of sacred sites. Now, after 7 miles (12 kilometres) plodding through deep snow in a blizzard, something appeared briefly in the distance. This was a group of three cairns at the head of Glen Sharvie. I took my map out in the howling wind and found that it was actually marked – Cam Bad an Fraoich, The Cairn of the Clusters of Heather (*see Figure 47*). On closer inspection I found a pile of stones in a heap below the cairns, possibly the remains of an earlier and larger structure.

As I followed the ley through the cairns and, 9 miles (14 kilometres) further on, approached the east end of Loch Earn, I discovered that it was behaving in an unusual manner. There was no indication of it attempting to tune into the loch as I had expected. Nevertheless, I plodded doggedly along, down to St. Fillans, and for the second time, along the tail and nose of the Serpent. The ley ran on across the river and the golf course, continuing perfectly straight until it began to turn towards the burial-ground of St. Fillan (*see Figure 49*).

An Unusual Holed Stone

This burial-ground is the last resting place of St. Fillan the leper, and is circular, not rectangular like most of the other burial-grounds in the area. Here, the outer wave of the ley curves around the burial-ground, with the other waves, as usual, passing through the old graves, and then

runs back parallel to the incoming energy, presumably returning to the four-poster from which it had come from.

Initially I thought that the ley collapsed naturally at the burial-ground, or possibly the burial-ground itself turned the ley on its reciprocal, but many years later, more in touch with Earth energies, I realized that the mechanism for this unique feature may be another ley, this time from a pair of standing stones just a few miles away from the burial-ground. These stones are nicely lined up with this burial-ground, and the ley which they produce may act as a 'stop' for the four-poster ley, turning it completely around (see Figure 50).

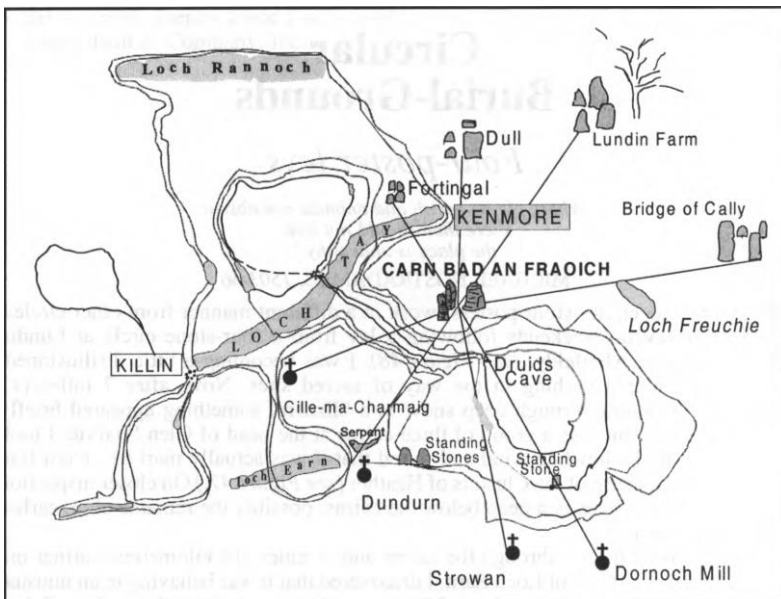


Fig. 47, Cam Bad an Fraoich (centre) is the focus of leys from four-stone circles (four posters), which transmit ley streams through the cairn and on to circular burial-grounds. The ley from Fortingal is the only one which was not followed on foot to verify it. Note how the standing stone at Stonefield and the Druid's Cave act as cross-over points on the cup-mark ley system.

Another ley from two standing stones to the east of Dundurn may act as a 'stop' for this type of ley, turning it on its reciprocal. Cille-ma-Charmaig and Dundurn burial-grounds are positioned on cup-mark leys as well as the leys from four stone circles. Strowan and Dornoch Mill are, in all probability, also on cup-mark leys which have not yet been mapped.

Circular graveyards are of considerable antiquity, and in the grounds

of this ancient cemetery is a peculiar gnarled stone, set upright among the gravestones. Many years ago, a friend and I had noticed this stone, which had two holes pierced deep into its side. Inevitably, we tried to see if there was anything of interest in the cavities. Some old tarnished sixpenny and threepenny pieces came to light. We replaced them carefully, and added some more of our own coins to the collection. I had never heard or read anything about this stone or the votive collection of offerings inside it, and even to this day, it seems to have been ignored by local historians.

Now, after years of research, I thought this old stone must be part of the Earth energy network. Carefully, I followed one of the curving waves from the outer edge of the cup-mark ley into this stone, through it and out the opposite side.

A more careful examination revealed that one side of the stone had been flattened, rather similar to some standing stones which emit waves from their flat faces. Intuitively, I tried to find similar waves from the flat carved face of this stone. There were only two, one travelling to the nearby church, passing around it neatly and back. The other wave, a much thinner loop, travelled towards the centre of the church and into the corner, through St. Fillans grave, and returned through a little window. (*see Figure 49*).

The two holes in the stone were of different shape and size. One was wide, which amplified the incoming telluric wave around the church, and the other was deep and narrow which projected the second narrow wave through St. Fillans grave. In effect, the two circuits from that stone tuned both the church and the remains of the saint into the telluric system.

Curiously, there is a remarkably similar stone outside Leech church, in Graz, Austria.¹ This, according to a plaque, was placed (or relocated) there in 1621. Nearby is the Herz Jesu Church, which has a chapel used by The Knights of the Holy Grave. This has three freshly made cup-marked stones outside it, affording protection, the occupants obviously having read my first book!

¹ Letter from Dr. J. Schneck of Bideford, Devon.



Fig. 47a. Carn Bad an Fraoich.



Fig. 48. 4-poster at Lundin Farm.



Fig. 49: Dundurn church and burial-ground, St. Fillans. The stone in the foreground warps telluric energy around the church and through St. Fillan's grave.

Now it was simply a matter of following other similar leys from four-posters through Cam Bad an Fraoich to other burial-grounds to complete the picture. There is one anomaly: these leys are not straight, they have been warped by the Cairn at the centre, although there is one which should satisfy the purist: from Fortingall to Cam Bad an Fraoich, Druid's Cave, the standing stone at Stonefield and Dornoch burial-ground although I have not yet walked this one to verify it. The standing stone at Stonefield may have been used as a crossover point on this particular circuit. (*see Map 16*).

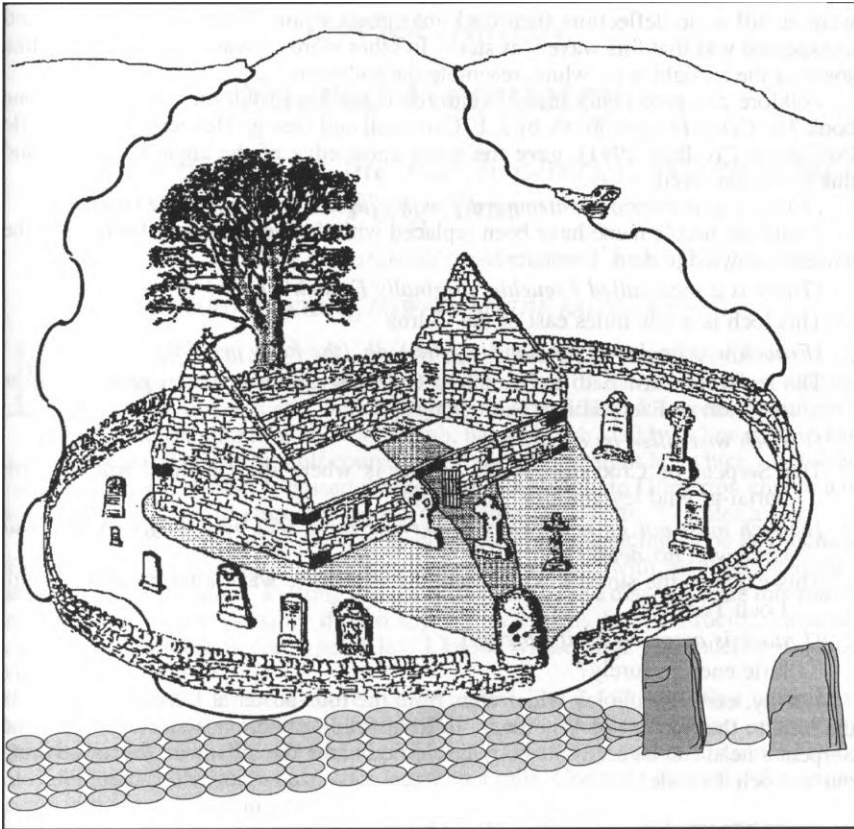


Fig. 50. The ley from a four-poster travels across the hills, around the burial-ground and back (outer wave only shown for clarity. The other waves pass through the old burials) through 'The Serpent' and is warped around the old burial-ground by another ley from a pair of standing stones 3 miles away. Notice the hill notch at the top left of illustration.

The 'Death' of Another Ancient Warrior

As I mentioned earlier, I was surprised to find that this particular type of ley was intentionally vectored away from lochs. There was one, however, the Dull to Strowan Ley, which passed through the southern edge of Loch Turret, now a reservoir, with its raised waters encroaching on the ley.

When following this particular circuit, I had noticed a barely discernible change in its character after it had crossed the loch. It had

been snowing, and the only thing I could think of was to turn and follow the wave back the way I had come.

On the other cup-mark circuits I had been following up until then, including this one, the sinuous waves of energy should have moved gently out of phase until they were at full scale deflection, then back into phase again. What was quite new and unexpected was that this wave was static. In other words, it was a standing wave like some of the straight leys, which resemble the caduceus.

Folklore can give many insights into the operation of telluric energies, and one book *The Celtic Dragon Myth*, by J. F. Campbell and George Henderson, (Newcastle Publishing Co. Inc., 1981), gave me some knowledge of the ancient story behind this particular circuit:-

[There was a warrior contemporary with Fingal. His name was Fraoich].

Could the hero's name have been replaced with the word fraoich (heather) as the ancient knowledge died, I wonder?

[There is a loch called Freuchie, originally Fraoich's Loch]

This loch is a few miles east of the Cairns

[Fraoich was healed at the hands of the Sidh, (the faery people)]

The ley from Cam Bad an Fraoich to Cille-ma-Charraig burial-ground crosses the Sidh or Faery Hill of Ardtalnaig

[Fraoich was killed by a serpent]

The Serpent or Crocodile at St. Fillans is where the Lundin Farm/Dundurn burial-ground ley ends, or 'dies'

[Fraoich must not go near water, otherwise there will be a conflict which will issue with his death]

This explains the sinuous wave changing to a static wave after passing through Loch Turret

[Fraoich is associated with energy]

Telluric energy, surely?

Finally, consider the ley which runs from the four-poster at Lundin Farm across the hills to the Serpent of St. Fillans. In local folklore there is a story that only the Serpent's head can be seen – its body lies buried under the hills, with the tail sticking out in Loch Tay side!

CHAPTER THIRTEEN

Sacred Geometry

A Town Based on the Earth Energy System and Feng Shui

'Science at its best should leave room for poetry'

RICHARD DAWKINS, *UNWEAVING THE RAINBOW* (1998)

My home town of Crieff, situated in the heart of Perthshire, has two long straight streets which converge to the south of the town, rather like the bottom arm of a star, which prompted me to search for a telluric pattern.

King Street, running roughly north/south, has a church visibly in line with it, and a stone circle in the nearby golf course, and it was this straight ley which I followed on foot to the north-east. It passed through the stone circle to Gilmerton church and eventually, to a pair of stone circles at Tullybelton, near Perth, 17 miles away.

To the south, I ploughed my way in deep snow, to a standing stone at Dalchirla Farm, (*see Figure 53, page 110*), set like a playing card with its edge lined up – almost – with King Street. Plotting this ley on the map gave a disappointing mis-match of about 100 yards, possibly due to my following this ley in atrocious weather conditions, but there is one type of ley, I knew, whose edge just touches standing stones in this manner.

The other major street is Burrell Street, whose ley I followed, first north-west towards the Sma' Glen, through several hill summit cairns. I was almost crippled by this demanding research, so I had to project this ley on my map to a standing stone at Ballinluig. To the south-east, after less than a mile, Concraig Farm standing stone came into view, neatly in line.

So here were two of the main streets of Crieff, in line with the megaliths, quietly chattering away to each other in their own code, century after century. It seemed extraordinary, however. It is an ancient town, certainly, but there was no denying that two churches had been

built on these two leys. How could standing stones have anything to do with relatively modern town planning? Had the knowledge been passed on until comparatively recent times, or was it a coincidence?

Reconstructing the Pattern

The most obvious next choice of streets was the High Street. There was a ley here too, which I followed, passing through the parish church and burial-ground, town hall, clock and stocks, and out of the town in the direction of Killin stone circle. Faced with a difficult 20 mile walk over 2,000 foot hills, I was more than relieved when I suddenly came face-to-face with a standing stone on the summit of a hill at Balmuick, near Comrie, only 5.5 miles away (*Figure 54, Page 111*). This is actually a destroyed four-stone circle, not at that time shown on the map, and includes a 9-foot broken monolith. Almost 20 years later I found that the natural lines of energy at this point are very close – about 1 inch apart, gradually widening out to about 1½ feet apart two miles away, as this stone circle draws its energy from a small granite intrusion (pluton) about four miles diameter, which, as it happens, also has a volcanic dyke running close to, or through the circle – some, at least, of the circles and standing stones on this map also appear to be located near or above volcanic dykes and faults. This area, as it happens, is one of the most seismically active areas in the United Kingdom.

In the opposite direction, and to the east of town I projected this line, and followed the ley to a standing stone near Aberuthven (7.2 miles), and another 3 miles to a standing stone in the centre of Dunning. Whatever anyone might think, there could be no denying it now, the town did have a structured layout. What kind of pattern could have been used? If there was a pattern, it must surely have been a meaningful and powerful symbol. I found a clue in the street layout, however: King Street and Burrell Street meet at a point, as I have already mentioned. On a large-scale map, they have a curious similarity to the point of a pentagram, an ancient and powerful symbol, but this pattern just did not fit.



Figure 53. Dalchirla standing stone, roughly lined up with King Street, Crieff.



Fig. 54. Balmuick four-stone circle, lined up with High Street, Crieff. This is located on the summit of a hill, at the most powerful point of a small granite intrusion. This area is one of the most seismically active parts of the United Kingdom.

Co-incidentally, a letter arrived from a friend, who had been to a talk by the late Wing Commander Beadon. He had discovered that in open countryside, unspoiled by human hand, a natural, complicated, interlocking series of star-shaped patterns could be found (*see Fig. 57, page 114*). When I copied the star on to acetate and overlaid it on the map of the town, the whole layout immediately sprang into shape. There were the standing stones sending ley after ley through the old roads in a highly complicated pattern.

One ley at the bottom of the hexagram caught my attention. Open country to the south-west of the town enabled me to pursue this hidden ley on foot to a small burial-ground 5.6 miles away, near Comrie. In the opposite direction I followed the ley for 18 miles to a standing stone near Scone (*Figure 55, page 113*). This took care of the lower arm of the hexagram.

The Spider in the Web

For the pattern to be of significance, I reasoned, there must be a powerful site in the centre. Indeed there was – in this system the omphalos is St. Michael's church. In fact this church was built on the site of a very much older church and graveyard, so old it had a heather-thatched roof and a wooden idol, long since lost or destroyed.

St. Michael and St. George were the dragon slaying (or dragon manipulating) Saints. The dragons, of course, were telluric energy (St. George's sword, and St. Michael's lance are symbolic of the weapons which pierced the dragon's head, to fix it as the focal point of the earth energy system.¹

The Crieff Masonic Lodge, No. 38, is a very old one, and is also called St. Michael's – the Freemasons crop up occasionally in this line of research. Most people are aware of the Mason's symbol, a compass with its points facing down, intertwined with a set-square with its points facing up, but few people realize that part of the symbol is 'hidden'. If you draw a line across the open points of the compass at the bottom of the symbol and another across the set-square at the top you have a six-pointed star.

¹ *The Ancient Science of Geomancy*. Thames and Hudson, 1979.



Figure 55: The standing stone at Scone.

The angle between Burrell Street and King Street is a disappointing 28.5 degrees. Ideally the correct angle ought to be 30 degrees, half of an equilateral triangle. The correct angle, however, would have been an immediate give-away of the true nature of the symbol. Another possibility is that the symbol on the ground is not theoretically perfect, but an energy pattern, capable of being warped by various factors. A map of 1822 shows newly-built houses along Burrell Street and a Square at a nodal point of leys called 'The Octagon' which is not shown in an older map of 1783.

The knowledge of this sacred geometry must have been handed down through the years to the practising Knight Templars and Freemasons, only to be lost, comparatively recently, because of the powerful vows of secrecy kept by these lodges.

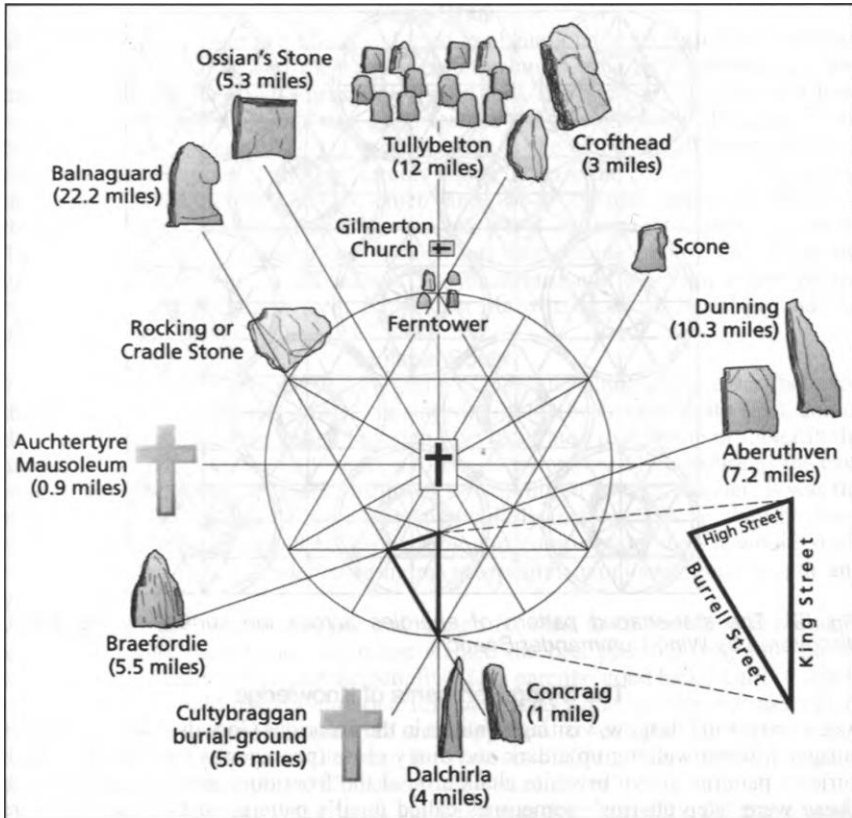


Fig. 56. The star of Crieff, with standing stones, burial-grounds and the four-stone circle at Balmuick above a granite intrusion forming the pattern. St. Michael's Church is at the centre of the pattern.

The Spider's Web of Glasgow

Ludovic Kennedy Mann in the 1920's, discovered that Glasgow had been laid out like a clock face, or a gigantic spider's web:

His (Neolithic philosopher and astronomer) radii, usually set out in a 19 divisional system (subdivided at times into 38ths and 76ths) dictated the positions, and ran through loci of prehistoric importance.

Glasgow might of course, have had a similar pattern to the Crieff one. It

may not be a coincidence that the symbol of the 33rd and final degree of Freemasonry is a spider with three heads. It may be simply the telluric likeness to the web some old towns were constructed on. It is also interesting to note that Glasgow Cathedral, the omphalos, (some say the nearby Necropolis is the centre) was constructed over a sacred healing well, which radiates out its pattern of energies. Faint vestiges of knowledge have come down to us over the centuries, in very individual form.

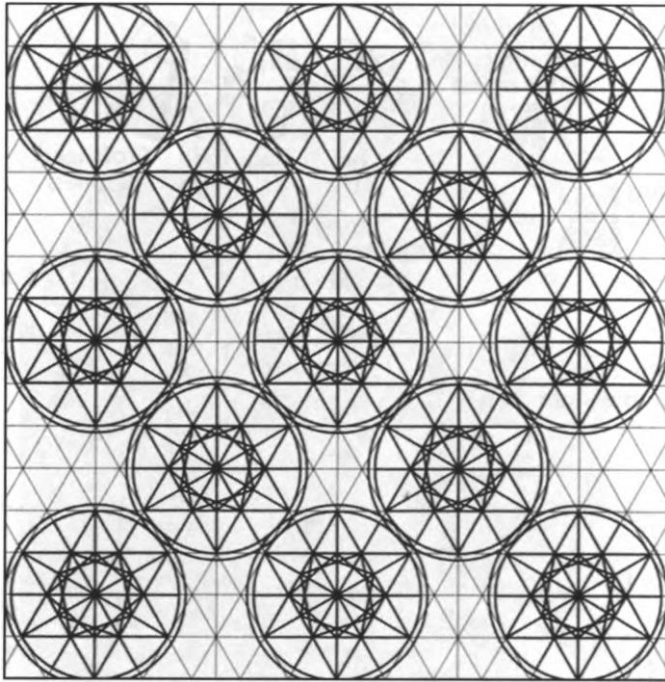


Fig. 57. The star-shaped pattern of energies across the surface of the Earth, discovered by Wing Commander Beadon.

The Dying Remnants of Knowledge

As a teenager in Glasgow, visiting relatives in the notorious Gorbals, I was sometimes intrigued, when walking up a dark and dingy close (passageway), to find beautiful, intricate patterns drawn in white chalk around the front door mats of some homes. These were 'step charms', sometimes called devil's patterns in the UK, and were handed down from

mother to daughter. They were originally executed in white chalk, flour or sand, and later in coloured crayon, all of them with an intricate weaved pattern as a basic part of the design. They were, in all probability to be found in any city in the United Kingdom, but gradually vanished about the 1950s.

They have been revived in India, and are called kolams, and the lady of the house spends some time, early in the morning, drawing the pattern in various coloured chalks, so that when her husband went to work through the front door, he would be entering the benevolent energy field which she had created. During the afternoon she would spend some time redrawing the pattern so that her husband would gain the benefits of the energy when returning home.

The problem of towns built on star patterns remains, however. Why should towns be built to a pattern at all? Wing Commander Beadon pointed out that the pattern was natural, until buildings containing glass (windows, for example) were erected, then it collapsed. If our ancestors wished to remain in harmony with natural energy, then they must rebuild the existing, natural energy system by using standing stones and circles.

Feng Shui

Other countries have known about and used the beneficial aspects of Earth energies for millennia. In China and the Far East, feng-shui is used to promote peace and harmony with the land, with prosperity, good luck and health. Providing one lives and works in a good feng-shui site, good fortune and a longer life will ensue. China has the ancient concept of *ch'i*, Dragon Lines, as the Chinese call them, which is comprised of two types of energy currents which traverse the country, one being yin, the weaker female element, and the other yang, the strong male aspect. Both follow the contours of the land, similar to the cup-mark leys outlined throughout this book. The two forces of *ch'i* travel along streams and watercourses, above and below the ground, and originate in the mountains. It is thought that at the point where yin the tiger, and yang, the dragon meet is the best place to situate a burial-ground, for example.

Multiple Souls

The location of burial-grounds was very important to the Chinese, since they believed that every person had three souls. One stayed with the body after death (Po), and of the other two (collectively called Hun), the first migrated to a shrine or tablet in the ancestral home, and the second went on to purgatory or possibly paradise as the case may be, out of reach of feng-shui influences, evolving in its own manner. It was the first soul that the ancient Chinese were particularly interested in, as they believed that if this animal soul could be kept happy and comfortable, then it would smile benevolently on its descendants, bringing prosperity, happiness, good health and good luck.

After a bereavement, it was not uncommon for sons to be unable to agree as to who was to bury their father. Each son wanted the best possible feng-shui site so that he and his family could reap the benefits of his parents 'good luck.' Unfortunately, the dead parent could remain unburied for some time while the site was agreed! In Amoy, not so long ago, missionaries were appalled to see large earthenware jars dotted around the hillside. Inside were the remains of Chinamen awaiting burial at a more propitious time. Potted Chinamen, they were called!

Even the time of burial was crucial, since if it was done correctly, the grave would accept beneficial energy from a particular vein of *ch'i* and keep it all year round, instead of just a few days when interment was haphazard.

The preservation of the body and its bones in as good a condition as possible was of crucial importance. If the entire body decayed, then the animal spirit would leave, since it was bound to its remains, so hard, loamy soil, well drained, was considered best. Rock is not good, as it cannot breathe the vital energy.

The position of the body in the grave also had to be precise, and the professor of feng-shui sometimes took an hour to correctly position it. He placed a red thread along the precise axis of the coffin, lined up with a similar thread held by the mourners above the grave, together with a geomancer's compass to assess the best alignment for good feng-shui. This has similarities in other cultures as mentioned earlier, like the Celtic 'faery paths', the Dutch doodwegen (death roads), and also the 'ghost paths' of Medieval Germany. These straight paths end or originate at a cemetery.² Likewise the paths of energy from the megalithic culture pass

² Ludovic Kennedy Mann, *Institute of Geomantic Research*, Paper No. 7, ISSN: 0308-

through burial-grounds, individual cists and in which the dead have been laid to rest.

Straight roads and streets (called secret arrows) are very bad feng-shui to the Chinese, especially living in a house facing a long straight street, as are railways, tramways, quarries, lines of electric pylons and telephone poles.

It is easy for our culture to dismiss these concepts out of hand as superstitious nonsense, but most religions had very similar understandings. The ancient Egyptians, for instance, believed that the individual on death would separate into three souls, the Ka, the Bai, and the re-animated mummy. They were experts in the art of embalming, which they believed enabled the animal spirit to stay with the mortal remains as long as possible. The Huna tradition of the Polynesian Islands, like the Chinese, encompasses three spirits: the lower (animal), middle (conscious), and the higher (superconscious). The Native American Indians had a similar belief, which was personified by their totem poles. These were composed of three figures, the lower being an animal, the animal spirit, with above this the figure related to the middle self, and above this again, occasionally with outspread wings, the Guardian Angel, or High Self.³

In the Scots Gaelic tradition, meanwhile, the remains of the person in the grave were distinguished by a type of 'shade', which travelled around its usual haunts or over the grave itself. On the island of Inchbuie, Killin, one of the McNab family's stone coffins was pierced with a hole 'so that the spirit can wander across the country it once knew so well.

This is similar to stories from Ireland and elsewhere, where it was said that spirits or faeries travelled along straight lines (faery paths) which we now call leys. The modern concept of faeries is the tiny impish or ephemeral figure waving a wand – the Celts, however, believed that faeries were very real, and to be treated with the greatest respect.

Faery Paths

What can we make of the strange cocktail of energies which our ancestors used, moulded and focused through their houses and burial grounds? They seemed not only to know about life after death and the

1996.

³ Max Long *The Secret Science at Work.*, Devorss and Company, 1953.

benefits which could be gained by keeping the animal spirits of our forefathers happy, but that they practised this knowledge in a similar manner to the Chinese tradition.

Ancestor worship is an obvious link to ensure 'good luck' and good health and prosperity is still practised in some countries. The system may have been used to promote health with the use of healing wells and a form of benevolent witchcraft and to install the psyche of individuals into the energy leys via their remains interred in power points.

The basic energy used for the construction of such a highly sophisticated system is entirely natural, coming basically from the Earth herself, a system which town planners in the future might eventually copy, as its importance to our ancestors seems to have been all important.

CHAPTER FOURTEEN

Powering Up a Ley Line

Amplifying a Twelve-stone Energy Ley

Those of us working on Earth energies are unlikely to get any credibility until scientists discover some way of determining exactly what types of energy we are investigating and develop apparatus to measure ley lines. The following may help:

I have recently tried some very simple methods of injecting power into a line of standing stones in order to determine their reaction to a variety of inputs of energies, although monitoring this scientifically is beyond my abilities.

This ley is no less than twelve standing stones in a 30 mile-long, 150 yard wide line terminating at the four-stone circle, Clach-na-Tiompan in Glen Almond, from here, travelling to the south, it runs down to the standing stone at Lawers Farm, near Crieff, then on to a group of six standing stones on Dunruchin Moor, near Comrie and on again to another group of five standing stones, two heavily cup-marked, near the 'Banks and Braes of Bonnie (Beautiful) Doune' to the west of Stirling Castle (*Figures 58 and 59, pages 118 and 119*). Unfortunately, it carries on through Glasgow, and its destination can no longer be found.

As I have mentioned several times before, I have long since established that a standing stone emits many vertical waves of energy. Again, *Figure 6, page 12* is the cup-marked standing stone at Kilmartin Argyll, and shows the vertical aspect of the waves, and *Figure 7* is another standing stone, 'The Chieftain' at Loch Rannoch, showing the plan view. Most of the waves from the various standing stones I have checked are a little under 2 metres wavelength, 30 cms amplitude.

Using Crystals to Amplify the Energy from a Standing Stone

My attempt to energize the ley on Dunruchin Moor was simplicity itself – a 5 inch long quartz citrine crystal sitting on top of one of the standing stones with a large boulder on top of it to give it a more intimate contact. The effect was encouraging – the wavelength from the stone decreased (more powerful), the amplitude staying much the same. Compressing the crystal with the boulder enhanced the effect, although I knew of course this was simple piezoelectricity, commonly used in quartz watches and many other applications, but when I removed the boulder on top of the quartz crystal it was obvious that the crystal on its own altered the wavelength, as the wavelength was still reduced.

The next step was obvious – a small crystal held tightly in a g-clamp and placed on top of the standing stone reduced the wavelength from its basic 1 metre 68 cms to 81 cms, although it depended just how much pressure I was prepared to subject the crystal to – the more the crystal was compressed the more power was applied to the standing stone (the size of the crystal seems to make little difference).

Another experiment was to leave three small crystals held in g-clamps on top of three of the standing stones on Dunruchin moor and travel the 20 miles to the standing stones on the Doune site, where they ley was found to be still amplified, much the same as I had left it on Dunruchin moor. Three of the standing stones at Doune are just a few feet apart, with a suspected fallen monolith to the north, 5 feet to one side. The middle of the three remaining stones has a number of cup-marks on its flat top, and there is another 6 foot high cup-marked standing stone a few hundred yards to the north, although it has been displaced some few scores of yards, apparently by some farmer in the past.

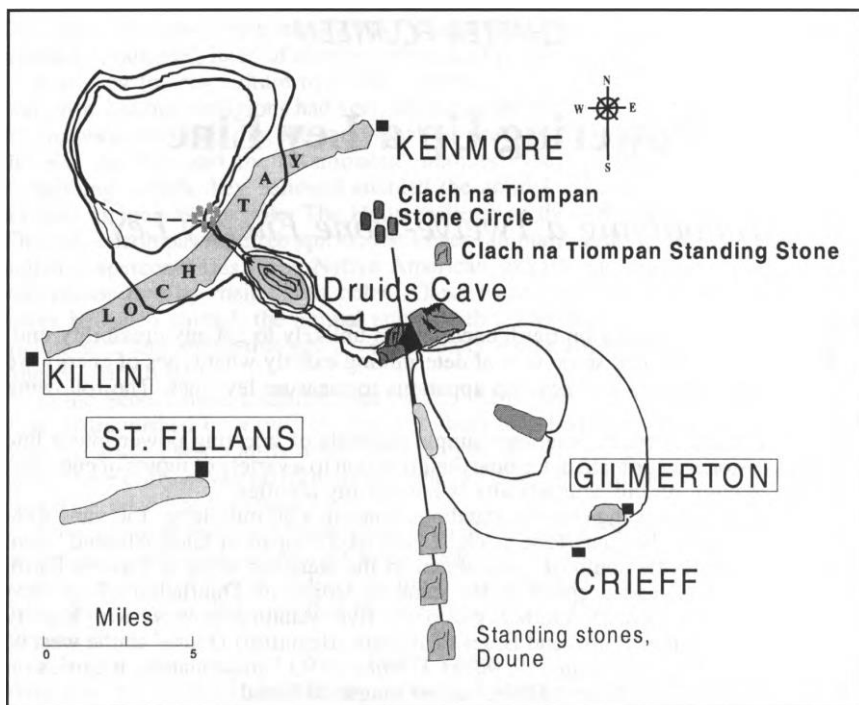


Fig. 58. The ley from twelve standing stones (only three shown) and one four-stone circle just touches the edge of one of the shells of energy.

One of the standing stones on the Dunruchin moor is of particular interest, as it appears to have had a later interment at its foot and has been the subject of an archaeological dig in the past. The flat face of this stone faces a different direction to the ley line, but the reason for this is that it neatly diverts the ley line across and through the ancient grave before it turns back on course to Clach-na-Tiompan (*see Figure 59*). The 4-stone circle of Clach-na-Tiompan was excavated in 1957,¹ but no interments were found, as in many other four-posters, just scattered white quartz pebbles, perhaps used to mask any black energy (*see next page*).

¹ Aubrey Burl, *The Stone Circles of the British Isles*, Yale University Press, New Haven and London 1979.

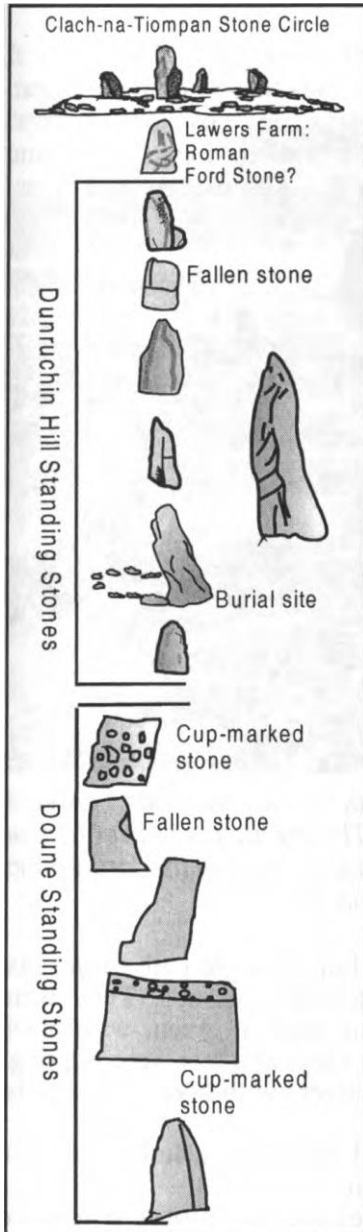


Fig. 59. A line of twelve standing stones and a hill cairn lead to the stone circle of Clach-na-Tiompan (the stone of the musical instrument). Note the stone with the grave at its foot. The ley changes direction through this grave.

Increasing Ley Energy with a Signal Generator

The next phase was to inject even more energy using a portable and very simple signal generator. This unit can apply electrical frequencies and power which can be adjusted by the operator. The output lead was attached by a Bulldog clip to one of the many pebbles sticking out of this conglomerate monolith, and the wavelength was found to be decreased still further to 43 cms at low power/frequency and to 36 cms at its highest power/frequency.

Most interestingly, when I left the generator attached to the standing stone, still pulsing its energy into the monolith, I walked to another stone, not on this ley line (shown on right of illustration) $\frac{3}{4}$ mile away to find that this 12 foot high monolith was also now emitting waves at 36 cms. After switching the generator off and removing the output lead from the stone, I found that it and the other stones vibrated at that frequency for some time after. If it is so simple to amplify a ley line then it must be equally simple to reduce it, and this has already been done by J. Havelock Fidler by using quartz pebbles, and outlined in his book *Ley Lines, Their Nature and Properties*. The stones he used, as far as I can tell, are not the clear terminated crystals, but the white massive quartz and similar types of semi-precious stones of the quartz family.

When I tried putting a large quartzite block of massive quartz on top of one of the Dunruchin Moor standing stones, however, I was puzzled to find that the waves stayed at the same wavelength and amplitude, but when I smashed the block into small fragments and put some of them on top, the wavelength was reduced to 23 cms., quite unlike the experiments made by J. Fidler. The few 'black' lines from the standing stone were masked, however, and I surmise that it was the black lines from his charged stones which he had been working on.

A small Witch-like Creature Shows Herself

Some 20 years ago I tried my first experiment when a friend and I attached a crystal to a standing stone using superglue (this is one reason I did not include this in the first imprint of this book as I did not want people desecrating these stones – simply putting the crystal on top is sufficient), when I discovered that at the same time we amplified that standing stone a family in nearby Crieff got a terrible shock.



Fig. 60. This standing stone at Dunruchin Moor, Comrie, has an excavated grave at its foot. Notice the other standing stone in the distance. The ley travels between these two stones, but is warped through the grave by the standing stone in the foreground, then on to the stone circle and the other megaliths on this ley.

A woman and four children were walking along a long straight path to the east of the town, gathering plants for one of the local school's lessons. They were astonished to see a little woman coming towards them, clad in green, with black spots on her face, apparently walking on air, as part of her legs and feet were missing! Floating up to the terrified party she raised long, dirty fingers with black fingernails, and said 'tee hee, tee hee' and vanished into thin air!

The children are now grown up, and the last time I met them a few years ago, they were still terrified at the memory of this apparition.

This raises the question of whether or not I should release this information, since anything we discover, from genetic engineering to nuclear power can be used for evil as well as good. If this was, perhaps, a trapped spirit the family saw, was it ethical for me to make it visible? The

family certainly did not think so, but the people in Crieff had varied reactions, from ‘extremely exciting’ ‘fascinating work’ to ‘you are in league with the Devil!’, but if this was a spirit and it was released, then I think I would be justified in encouraging scientists to investigate the ley system. Once scientists can inject signals into one standing stone and find that they can pick up the same enhanced frequencies at another many miles away, we can be assured that interest in Earth energies will explode and we will no longer be viewed with such disdain from academics.

Respect the Megaliths

It is extremely important that anyone who wishes to enhance or investigate the megaliths by using crystals or by scientific instruments respects them – remove any crystals when you are finished and do not leave any crystals buried close to them, unless you mean to come back in a short time. Remove any litter lying around and leave a small offering – I sometimes leave a small offering such as an apple in appreciation.

Table of Wavelengths Standing Stones (Cup-mark energy)

<p>Lawers (Roman stone on ley) Wavelength 24 ft. 2 in Amplitude 3 ft. 8 in. Cycle 12 min. 50 secs.</p>	<p>Phadruig (flat face) 26 ft. 8 in. 2 ft. 9 in. 1 min. 55 secs</p>	<p>Phadruig (along spine) 22 ft. 6 in. 3 ft. 4 in. 1 min. 55 secs</p>	<p>Connachan Farm 24.2 ft. 3 ft. 8 in. 1 min. 50 secs.</p>
---	--	--	---

Standing Stones (Straight Ley Lines)

<p>Dalchirla (from flat face) Wavelength 8 ft. 8 in. Amplitude 0 in. 11 in.</p>	<p>Dalchirla (along spine) 9 ft. 2 in. 1 ft.</p>
--	---

Druid's Cave

Wavelength 24 ft. 2 in. Amplitude 3 ft 8 in. Cycle time 1 min 55 secs

<p>Electric Brae Wavelength 1 ft 0 in. Amplitude 1 ft. 6 in. Cycle Standing</p>	<p>Above and below Electric Brae 13 ft. 1 ft. 8 in. Standing</p>	<p>Ordinary Road 16 ft. 8 in. 1 ft. 11 in. Standing</p>
--	---	--

<p>Stirling Castle Volcanic Plug To Burial Ground Wave 7 ft. 2 in. Amplitude 10 in. Cycle Standing</p>	<p>Edinburgh Castle Volcanic Plug To Burial Ground</p>	<p>Kinnoull Hill, Perth Volcanic Sill To Burial Ground 6 ft. 9 in. 10 in. Standing</p>	<p>Staffa Fault line 8 ft. 11 in. 24 in. Standing 23 ft. 4 in. 3 ft. 11 in. Standing</p>
---	---	---	--

Standing Stones (straight ley line)

<p>Dargill Wave 3.3 ft. Amplitude 6 in. Cycle Standing</p>	<p>Stonefield 4 ft. 11 in. 8 in. Standing</p>	<p>Concraig 4 ft. 6 in. 1 ft. Standing</p>	<p>Comrie Far 4 ft. 5 in. 10 in. Standing</p>
---	--	---	--

Sheep's Skull

Wavelength 18 ft. Amplitude 1 ft 8 in.

Stone Circles

From Stone Circle, Kinnel, near Killin, west of Loch Tay.

Wavelength 24 ft. 3 in.

Amplitude 3 ft. 4 in.

Cycle 1 min. 56 secs.

Black Spiral

Wavelength 16 inches Amplitude 1 5/8 inches

CHAPTER FIFTEEN

Re-building the Ancient Magic

A Hypothetical Reconstruction of the Ley System

'The fairest order in the world is a heap of random sweepings'

HERACLITUS, 553–475 BC

Now we know enough about the energy leys to rebuild a theoretical system from the basic standing stones and circles, burial-grounds and homesteads on the ley circuits, to the sophisticated cup-mark complex, much the same as our ancestors did some 3,000 – 4,000 years ago.

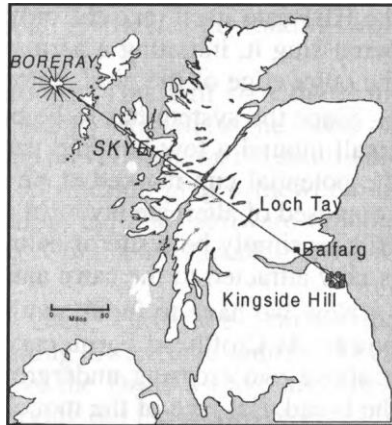
The area, of course, will be the one which has been the focus of this book, from Skye to Newcastle, although I have used the henge of Balfarg, near the Forth estuary as the most southerly point as part of this long ley is off my maps and I am uncertain of the henges and stone circles around Newcastle. (*Map 17, below*).

First, we must understand that Loch Tay is the key point of this corridor of energy leys, as the basic cup-mark ley we are building will automatically seek out the centre of this loch, so a starting point will be mid-way along its length.

Secondly, this primary ley we are about to rebuild, should extend at roughly right angles to Loch Tay. Projecting this line to the north-west from Machuim, we find that our planned ley passes to the north-west, neatly across the island of Skye.

Next we must find a starting point for our ley, one of great natural telluric power, and there is really only one, far out in the Atlantic, the group of islands forming the volcanic caldera of St. Kilda.

Every volcanic plug, caldera, etc., as we have seen, radiates out energy like the spokes of a bicycle wheel, and we must now find the segment of the caldera which emits the radiating waves to the centre of Loch Tay and build a stone circle just at that point. This will be on the island of Boreray.



Map 17. Using the island of Boreray, an extinct volcano near St. Kilda as the source of telluric energy, a primary ley can be built across the country through the centre of Loch Tay. Balfarg stone circle can now be built on a natural power point on this hypothetical line. Once built, the power ley is established. Projecting this line to the southeast, Kingside stone circle is also on this ley. Extending it further across Europe may give further clues – a volcano, perhaps, as another source.

Project the line from Loch Tay to the south-east and find a power point as near the coast as you can, Balfarg, near the Forth estuary, as it happens. This power point may simply be a place where underground streams cross. Plan your second stone circle there, but do not build it yet.

A Major Site

The next stage is to find a site for the major cup-marked stone, and the place we shall choose on the primary ley from Loch Tay to the south east site must be at the precise point where the powerful Highland Boundary Fault crosses the primary ley from Loch Tay – in the Sma' Glen, as it happens.

Since this is a major site and will be responsible for the initial shaping of the telluric image, we must landscape the area into an amphitheatre with a level floor – the amphitheatre will shape the initial spirals which will eventually be a vital part in the structure of the cup-mark ley (*Fig. 60, below*).

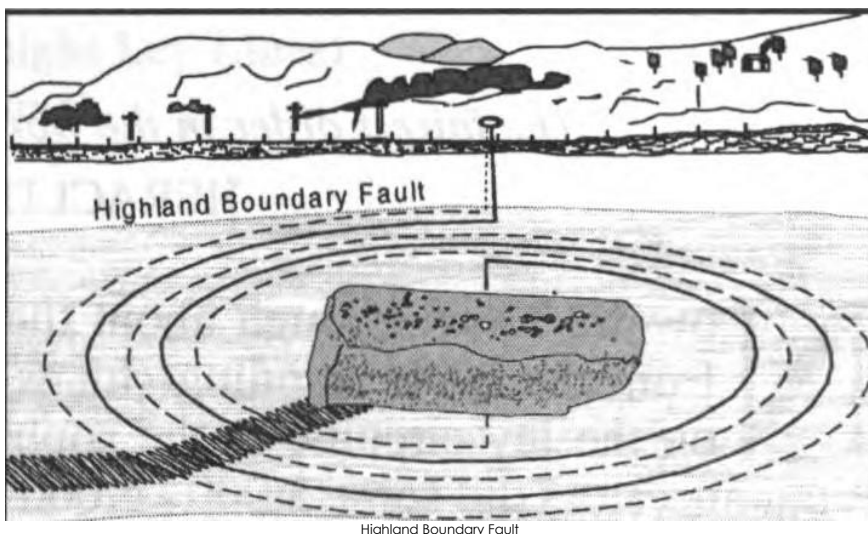


Fig. 60. The stone, energized by percussion, emits a spiral around itself which is projected to the low mound in the distance. The size of the spiral is dictated by the edges of the Highland Boundary Fault. One wave of the HBF is shown being warped into the stone by the spiral.

For the sake of simplicity, we shall make this stone a recumbent one, although we shall shortly come to another similar cup-marked stone which is upright. Place a very large stone in the centre of the HBF which run through the amphitheatre.

This must have the capability of focusing the wide stream of energy from the HBF into itself, and the only way to do this is to make the boulder resonate by percussing it, initiating a permanent spiral. Each wave of the HBF, upon touching the outer edge of the spiral, automatically focuses into the centre.

Since the system has to be built up layer upon layer, the next step is to build a small mound a few hundred yards away to act like the positive pole of a battery, the potential cup-marked stone itself being the negative one. The mound may be composed of alternate layers of clay and earth, much in the same manner as Silbury Hill, or simply be a site of natural energy. The energy from the cup-marked stone is now attracted to the cairn and returns to the stone to complete the circuit.

Now we have to input another energy ley to further increase the main stone's power. At Crofthead Farm, carve a large monolith, giving it a flat face, and place it above two crossing underground streams. Since the ley

will be projected from the broad, flat face of the monolith, you will have to turn it gradually, until the ley is projected across the country to the blank cup-marked stone at Connachan Farm. You can also put two standing stones close together a short distance from the monolith to help focus the ley.

Project this ley through and past the Sma' Glen stone, into Glen Almond, until you find another power point, and build a four-stone circle there, Clach na Tiompan. You now have your first working ley focused on the cup-mark stone (*Fig. 61*).

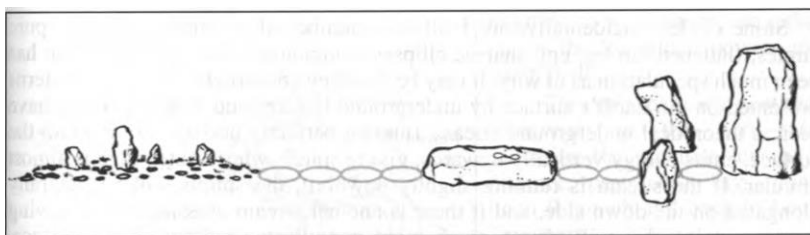


Fig. 61. This ley has been constructed from Clach na Tiompan 4-poster (left of illustration) to Crofthead standing stones and has been used to give the initial power to the stone which will be the cup-marked stone at Connachan Farm (centre).

This 4-poster is also the start of a line of twelve standing stones running to the south.

Making the First Cup-mark

It is time to make your first cup-mark to initiate the cup-mark system. Peck out a small depression on the Connachan Farm stone and, carefully checking at intervals, find the perimeter of telluric energy which will be emitted from the stone. When the cup-mark ley is large enough to contour around the hills, find where it crosses the primary ley, still to be activated, and build a large cave from boulders, making sure that there are interstices at the rear for the cup-mark ley to flow out of when the cup-mark ley is started and also that the interior of the cave is dome-shaped resonating at the same frequency as the male human voice.

Now that the cave is in position, you can adjust the shape of the southern circular cup-mark ley by making other minor leys, just touching the sides – Lundin Farm 4-stone circle to Dunruchin Moor, the stone circle at Braefordie linking with Crofthead, etc. (*see Map 9*).

Finish building Balfarg stone circle near Glenrothes. This will start the main primary ley across the country to resonate with the energy from the stone circle on Boreray. (It is probable that Balfarg is not the ultimate power point on the south-east part of this ley. More likely it is another volcano or volcanic plug somewhere in Europe, or an ancient and major artificial construction, but until software capable of projecting this line accurately enough across the Continent is available, I will leave this open).

Back at the cup-marked stone in the Sma' Glen, carve the arm of the dumb-bell-shaped petroglyph, ensuring that it is pointing towards the centre of Loch Tay. The embryonic cup-mark ley should now leave the Druid's Cave and cross the hills towards the loch, and may be helped by carving out the chasm of Fingal's Swordcut, leading the ley over the hills, down and across the centre of Loch Tay.

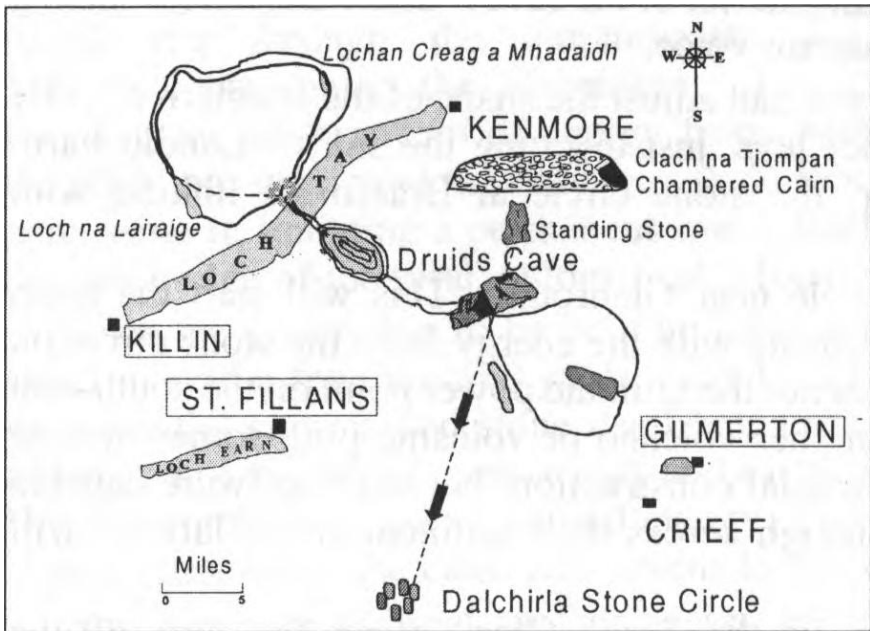
Building a Stone Circle

Find the energy exiting the north side of the loch and at the nearest power point on that line, build a six-stone circle. The circuit is now warped eastwards, contouring the hills, and is attracted up to Loch Creag a Mhadaidh, down into Glen Lyon, then, back up to the hills to another powerful attraction – Loch na Lairaige, before contouring the hills to the stone circle at Machuim. Entering the circle, it is expelled for another circuit outside the first and back to the stone circle again.

Stone circles, incidentally, are built in a number of geometric shapes – pure circles, flattened circles, egg-shapes, ellipses, compound rings, etc., and there has been much speculation as to why. It may be that they conform to the natural patterns presented on the Earth's surface by underground fissures and streams. As we have seen, a theoretical underground stream, running perfectly horizontally beneath the surface, emits energy vertically upwards, giving spirals whose outer edge is almost circular. If the stream is running slightly downhill, the spirals will be naturally elongated on the down side, and if there is another stream crossing below, giving a power point, this will give a much more complicated pattern on the surface, entirely natural, obeying the laws of physics. It may be that our ancestors simply built their circles on top of this complicated geometric pattern, without necessarily knowing anything about the geometry involved.

Leaving the circle for the last time, the ley tunes into the centre of

Loch Tay, and naturally flows back up to Fingal's Swordcut and further on to the rear of the Druid's Cave. This form of telluric energy has a tendency to attach itself to similar energies, and flows parallel to them, but since we don't want it to follow the ley entering the mouth of the cave from the east, we nudge the energy out of the cave to the west by constructing another straight ley from the standing stone at Clach-na-Tiompan to Dalchirla stone circle, and adjust it so that it passes close to the mouth of the Druid's Cave (interestingly, Clach-na-Tiompan means the stone of the musical instrument, and is only a few feet from a chambered cairn, now destroyed. The musical instrument may have been a trumpet (tromb-pan) according to Dwelly's Gaelic dictionary, which was probably used in chambered cairns to give strange acoustical effects).¹ The cup-mark ley is now warped to the south-west, contouring the hills, back to the cup-marked stone in the Sma' Glen.



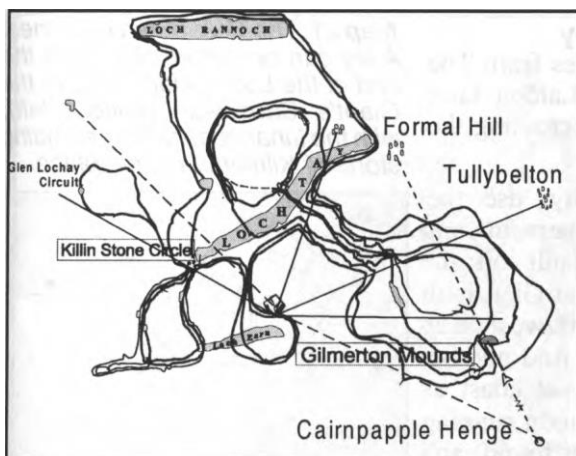
Map 18. The ley from Clach na Tiompan to Dalchirla has been constructed to force the cup-mark ley from the mouth of Druid's Cave to the south-west.

¹ Paul Devereux *Stone Age Soundtracks: The Acoustic Archaeology of Ancient Sites*. Chrysalis.

Now that the circuit has been established, the resonating effect of the Druid's Cave at the focus will alter the original wavelength of the cup-mark ley to its working attitude – wavelength, 24 ft. 2 in. (37.4 m)., amplitude 3 ft. 8 in., and also give it its vital cavity-seeking effect which I discussed in Chapter Four.

The two outer shells can be taken together, since they are so similar:

Construct the mounds at Gilmerton and shape them so that the ley will attach itself outside the circuits we have just constructed. The basic ley to power this may come from Cairnpapple henge to the south. As you can see from *Map 19*, the ley (*bottom right*) seems to push the outer shell straight to the Gilmerton mounds, so we must presume that this is the ley which powers the outer shell.



Map 19. A ley from Cairnpapple Hill to Formal Hill has been constructed to push two shells of telluric energy to the Gilmerton mounds. The rocking stone has been put in place. Its rocking motion may alter the wavelength/amplitude of the straight leys.

Notice also that the two leys from the Rocking stone to the north-west form the boundary of the Glen Lochay cup-mark ley.

This cup-mark ley contours clockwise, to the north-east, following the previous leys at a distance, past Loch Tay, round Loch Rannoch and back to Loch Tay again.

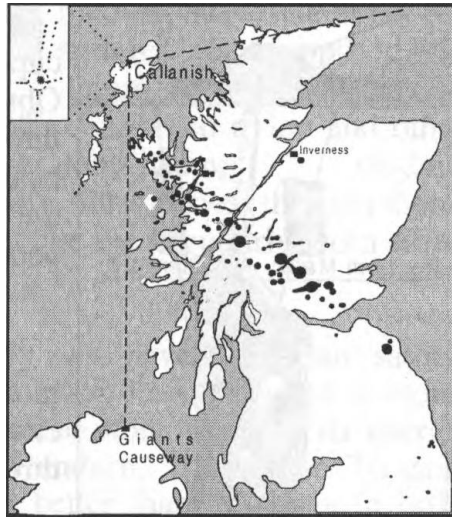
Killin Stone Circle

Here we wish to warp the energy to Balquhidder, so build Killin stone circle at a power point on this line, and warp the energy over Glen Ogle to Loch Larig Eala and down the hill to the Balquhidder area, constructing lochs where necessary to complete the three circuits around Loch Voil (*Map 19, above, bottom left*).

Now percuss this satellite cup-mark into the Connachan Farm cup-marked stone to coincide with this circuit.

Follow the energy from Killin stone circle, which naturally contours round the hills to centre on Loch Earn and back northwards to Loch Tay through the Serpent Stone and place the Rocking Stone (above) at an appropriate point. This has to be at a site where it will form as many straight leys as possible.

Construct another satellite cup-mark on the Connachan Farm stone to augment the energy on this, the Loch Earn circuit. The other cup-marks can now be pecked out on the cup-marked stone to conform to the circuits required across the mainland of Scotland and the island of Skye. (*Map 20, below*). Since the island of Skye is the northern limit of our intended cup-mark system, we must build another 'blocking' ley from Callanish on Lewis down to the remarkable geological feature in Northern Ireland, The Giants Causeway. These basalt rocks, so similar to the Island of Staffa, are only a part of this volcanic intrusion and it is probable that the hidden focal point of this site is several miles to the south of the well-trodden visitors' sight-seeing area.



Map 20. Callanish stone circle (extended to upper left) sends out a ley south to the Giant's Causeway to contain the mainland cup-mark leys.

A Crossing Primary Ley

We can also use the natural energies from The Giant's Causeway and the Loch Laidon fault line to build another cup-mark ley crossing the original Connachan Farm one.

Back at the Giant's Causeway, use the powerful energies running from here up and down the Loch Laidon/Ercht fault on the Scottish mainland, part of the Great Glen fault complex, which runs north-east/south/west (*Map 21*). On this powerful line, find another spot, this time as close to the west coast as possible, where sightings of the moon running down the backdrop of hills can be found, and erect another cup-marked stone there – in this case the unique lunar observatory of Kilmartin (*Figure 62*).



Map 21: The Great Glen fault lines. A ley can be constructed from the end of the Loch Laidon fault to the Giant's Causeway (bottom left), with the lunar observatory standing stone at Kilmartin now in place.

On this primary ley, and a short distance from the cup-marked stone, find the spot where the moon, at its northern major standstill, can just be seen behind, in this case, a hill notch. Erect two standing stones, straddling the centre of the primary ley, and far enough apart that the full disk of the moon can be seen just touching the top of Bellanoch Hill, to the south, at the southern major standstill. This gives a precise timing for ceremonial practises, observes the maximum and minimum cyclic perturbations of the moon, and also gives an input of lunar light.

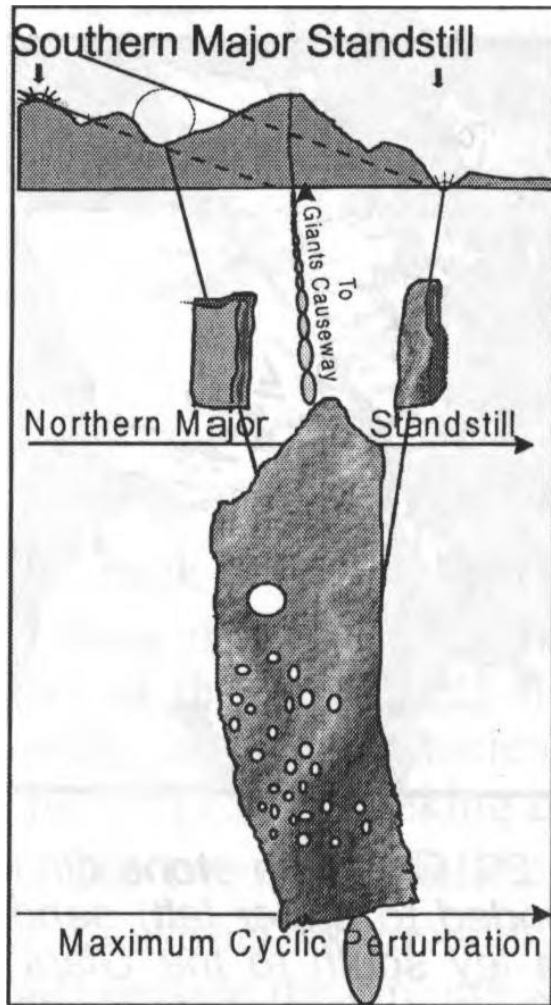


Fig. 62: Kilmartin lunar observatory.

This ley, now working, will project the percussed cup-marks on the Kilmartin stone across country. Obviously, the cup-marks will be precisely carved to throw their telluric shadow across the country as before, bearing in mind that they are required to travel around the valleys and glens, generally, where the majority of people lived, farm, and worshipped.

Siting Homesteads

You can also construct your little homesteads, which must have their long axes on the cup-mark leys, and circuits from smaller local cup-mark circuits running through their short axes.

Burial-grounds are also based on the major cup-mark circuits, but must also be placed where leys from volcanic plugs cross.

Villages can be planned using standing stones, flat face in line with the cup-mark ley, also with their burial-grounds and churches located at power points.

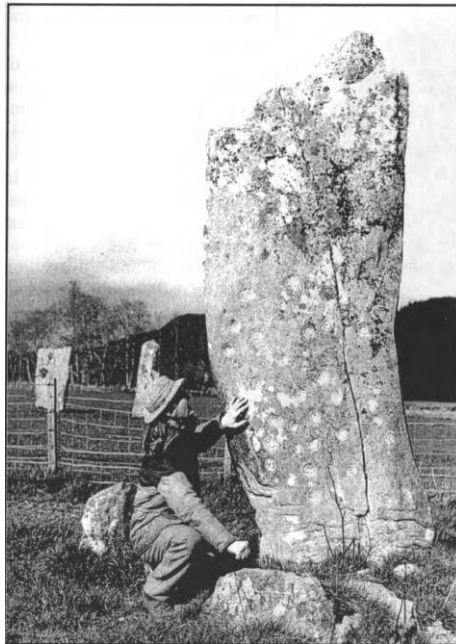


Fig. 63. The standing stone at Kilmartin is part of the twin lunar standstill observatory.

These geometric shapes must be the same as the underlying, natural pattern of earth energy.

Large stones hollowed by hammering into founts and placed at the correct point inside a church can be used for baptisms, since the water they contain picks up telluric energies readily, especially if it contains salt as holy water does (salt acts as an electrolyte), and small hand-held

rubbing stones such as those on show at Killin can be used for the treatment of various diseases and ailments. Springs and pools in rivers which are on the energy circuits can also be used for healing. Drinking the waters, of course, is one way, and leaving an offering in the shape of a garment is another method, but the health of the sufferer is supposed to improve as the garment decays, so nylon and other long-lasting modern materials are definitely out! Some standing stones have holes carved through them, sometimes for healing, sometimes to assure fertility, like the peculiarly worn stone on the banks of the River Forth (*see Fig. 64, next page*).

Spirit Guardians

The remains of venerated individuals in your society who have passed on: saints, bards, chiefs, warriors, etc., can be patched into the system by interment at stone circles and standing stones, or by making a cup-marked stone to focus its energy around the church and through their graves, as at Dundurn, St. Fillans. (To gain acceptance and benevolence from the spirits, what better than to donate a little personal gift – a coin, perhaps, as a votive offering, into one of the holes in the stone?)

Returning to infusing the system with spiritual energy. Balbirnie stone circle, near Balfarg henge (both major points on the primary ley), has a stone-lined grave with a heavily cup-marked stone at the head of the cist, presumably to allow the dead, then it must also do the same for the living, so building an underground chamber, tunnel or souterrain, like the one at Pitcur, near Dundee (*Figure 65 below*) will enhance the effect.



Fig. 64. The stone on the banks of the river Forth. The flutes are caused by weathering, Note the hole near the top-it almost goes through the stone.

This earth house originally had a powerful cup-marked capstone on the roof (this has been drawn in above the standing cup-marked stone, although it may have originally been a little further along the passage), so that any person or persons there will be under the influence of focused telluric/sound energy. Just behind the figure of the spirit access to the telluric system.



Fig. 65. Line drawing of cup-marked stone in souterrain near Dundee with capping stone above. Bottom right is the narrow entrance leading into the labyrinthine inner chamber.

Some of the other remaining roof slabs have small cup-marks on them as well.

Another method, of course, is by burial or cremation at burial-grounds carefully situated on power points. This allows the dead to be carried to their final resting place in straight lines down 'faery paths' or on circuitous routes on purpose-built roads on cup-mark leys, and even, on occasion, allows the coffin to be to rested on the powerful outer working edge of a cup-mark ley, as in the case of the standing stone, Phadruig, near Balquhidder.

The Purpose of Earth Houses?

If the energy from cup-marked stones can, indeed, allow access to the system for the spirits of author and to the right the entrance narrows abruptly to form a bottleneck (if you blow across the top of a bottle you will hear the Helmholtz effect, although it is difficult to see how this would work in this case). Perhaps to enhance the sound/telluric effects, this earth house was built spiralling in to the centre, not unlike the human ear (*Figure 66*).

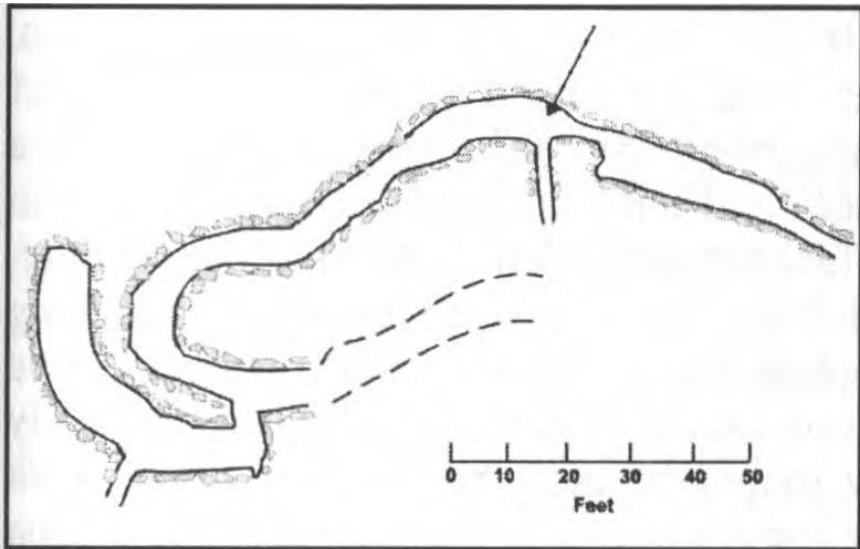


Fig. 66. Plan view of souterrain at Pitcur. The arrow shows site of previous picture, with the narrow entrance to the inner chamber to the right.

A similar procedure took place at one time by the native Americans

who built subterranean Kiva – magnetic chambers – where they could achieve lucid dreaming and imagery, helped by using hallucinogenic plants, and at Goshen, Massachusetts, a stone tunnel, not unlike the souterrains just mentioned, but straight, and with a vertical shaft for access, has been found. An archaeologist, Jim Whittal, and his team excavated this 80 foot long tunnel, thought to be about 10,000 years old, and found that one end had been cut into the bedrock in an apparent attempt to keep the floor level.

Again, Salvatore Trento found that there was a geomagnetic anomaly at this site, and writes that ‘it was another geo-magnetic hot zone’.²

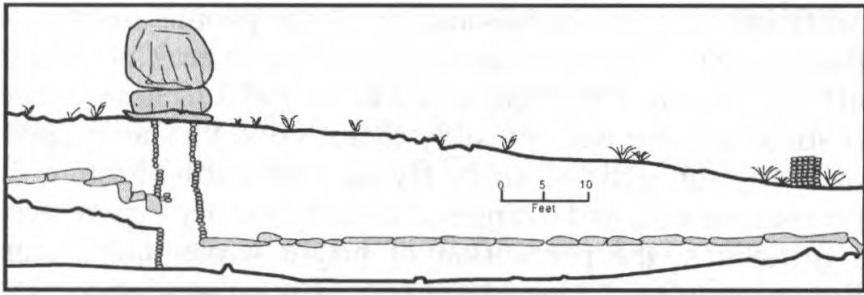


Fig. 67 Goshen, Massachusetts. Side view of the stone shaft and tunnels.

Using Hallucinogenics

In the underground caves in France, some rock faces, covered in paintings, have been found to be the areas where sound effects have been amplified. Here, manganese oxide has been sprayed from the artist’s mouth over his hands on to the rock face. This chemical has hallucinogenic properties, and must have given the artist a glimpse of his own inner world, if not the spiritual one.³

For the inauguration of a King, footprints or a single footprint incised in the living rock, overlooking the land about to be ruled over, could be used, as at Glen Lyon and Dunadd in Argyll. This ancient and tellurically powerful hill fort overlooks fourteen of Argyllshire’s hill forts, and no

² Salvatore M. Trento. *Field Guide to Mysterious Places of North America*. Henry Holt and Company Ltd.

³ Paul Devereux *Stone Age Soundtracks: The Acoustic Archaeology of Ancient Sites* Chrysalis.

King, surely, could rule with authority if he had not undergone the correct ceremony at the correct time and place, linking, as Paul Devereux puts it in his book "*Shamanism and the Mystery Lines*", the spiritual life of the people and the maintenance of the health of the land to him. There are other 'kingstones', across the United Kingdom, including that of the Saxons at Kingston-upon Thames, and the double footprint on the St. Magnus stone in Orkney. Ireland, as one would expect, has several stones: the 7-foot square stone of the Kings of O'Doherty in Derry, (Londonderry), the Lia Fal at The Mound of Hostages, which is said to cry out when the correct king sits upon it, and at Tullahoge, where there is a stone fashioned into a throne by placing three slabs around it.

A more mobile stone may also be used, one of great antiquity and veneration, like the black meteoritic stone from Scone, Perthshire, used for the inauguration of the early Kings of Scotland, "carved with symbols and hollowed out on top like a font." Its replacement was stolen from there and built into the Coronation chair at Westminster Abbey in England in 1298. This, corruptly called the Stone of Destiny, was undoubtedly a fake as the monks of Scone knew six weeks in advance of King Edward I's raid to steal the stone and replaced the original black meteoric stone with a worthless ashlar slab.⁴ Meteoric stones such as this must have been highly venerated in the past as they are strongly magnetic and arrive on the planet with thunderous bangs and streaks of fire. The most famous is undoubtedly the Kaaba at Mecca, but there are many more, at the temples of Capernaum (Israel), Cybele (ancient Phrygia), Zeuss (Olympia, Greece), Apollo (Delphi) and at the temple of Atun in Egypt there is the Ben Ben stone.

Religious Experiences

Today scientists study how magnetic fields affect the human brain, by creating artificial fields in the laboratory. Some people are more affected than others, but if the source is near the temporal lobes, fit and healthy people report the most astonishing affects (*Koren, Persinger and Ruttan 1990*). These include the sense of presence, as if someone else was invisibly there, vivid virtual images in primary colours, senses of flying through the air or flying backwards through the air, strong smells, either pleasant or vile, and a range of bizarre sensory experiences which may be

⁴ A. C. McKerracher. *Where Is the Real Stone?* The Scots Magazine.

of religious significance: the perception of bright white lights, stars, walls, and ladders, etc. Reverting to the Stone of Destiny, it is interesting to note that this stone is believed to be the original biblical Jacob's pillow, on which Jacob slept upon:

“and he dreamed, and behold a ladder set up on the earth, and the top of it reached to heaven: and behold the angels of the God ascending and descending on it.”

In addition to this, Saint Adamnan told the story of Saint Columba, who had earlier acquired that same stone: he also had dreams of ladders and angels⁵ – not religious experiences, but again the brain playing tricks.

There we have a rough picture of how to construct and use the quite extraordinary ley system, using primitive tools, and natural energy from the planet to power it. It was extremely difficult to recover this knowledge, even with the aid of accurate Ordnance Survey maps, but, of course, 3–4,000 years ago this must have been an immense undertaking, reflecting its importance to the communities it served.

⁵ Ibid.

CHAPTER SIXTEEN

Strange Happenings on the Earth Energy System

Black Spirals, Ill-health, and Apparitions

'The lodestone causes mental disorders, makes people melancholic and is often fatal. With a sort of fumes it can greatly affect the mind'

WILLIAM GILBERT, DE MAGNETE, 1600

Earth energies play a major part in phenomena of various types. The apparitions, poltergeists and strange phenomena with which I have been involved seem to be broadly divided into three types:

1. Holograms, where the image of a person or object is captured in crossing energy leys
2. Earth energy spirals, (blind springs) where spirits are trapped
3. Hallucinatory experiences caused by telluric spirals, 'hot spots' from modern electrical sources, natural Earth and seismic energies (including outgassing from the planet).

The first, the hologram, is an automatic repeat performance of an event. The second is where an apparition sometimes shows awareness. The third, the hallucinatory experience, may be caused by an input of external extremely low frequency (ELF), radio frequency or microwave energy into the brain, causing the temporal lobes to produce powerful hallucinatory images. These, plus seismicity and outgassing, will be discussed in more detail in later chapters.

Earlier I explained how leys were formed from standing stones situated on 'hot spots' directly above at least two veins of water crossing underground at different depths. Energy from a vein, fissure or pipe is emitted vertically to the surface. There are also two other waves, at an

angle of 45 degrees on each side which, together form three parallel lines on the surface, down the length of the vein. The centre line is the centre of the interconnecting spirals, and the width of the spirals is determined by the outside lines. The spirals may be healthy (white spirals) or unhealthy (black spirals, which are clockwise spirals with an anticlockwise spiral superimposed upon it), depending upon the subterranean rock and other factors. The distance from the centre line directly above the water to the outer parallel is the same as the depth of the vein (*Figure 68, page 134*). This is used by water diviners to gauge the depth of subterranean water sources.

When some types of ley, comprising individual vertical waves (overgrounds, *Fig. 6, page 12*), encounter the outside of such a spiral, they automatically tune into its centre, giving a powerful 'hot spot'. A few decades ago, these overgrounds were mainly natural and the spirals were comparatively weak, but in this modern age we have 'artificial leys' from other sources: nuclear submarines and missile stores, radar stations, microwave towers, television repeater stations, electric sub-stations and power station generators, for example. In addition, we have an increasing amount of disturbed Earth energies from quarrying, deep mining, and in particular, open-cast coal mining (oil drilling may also be bad, judging from a conversation with an oil-rig employee). These activities create micro-seisms and draw unhealthy Earth currents to the surface, and on their journey across country to eventually earth themselves, perhaps in a quarry, they focus into the centre of black spirals. Basically, the more electricity we use and the more we disturb the planet, the more powerful these telluric spirals, both black and white, become.

Living, and especially sleeping, above a subterranean fissure emitting such vortices can have a profound effect on our brain wave patterns as you can readily observe in *Figure 69 a and b*. The top scan was taken in the clinic of a complementary practitioner, and shows the normal electroencephalograph readout of a patient. The practitioner then took another EEG, this time with the patient lying on his bed below which a water diviner had previously discovered an underground stream. The lower scan is the result. As can be seen, the difference is marked, to say the least, and anyone sleeping in such a place will suffer depressed brainwave activity which can only result in an eventual illness, as one of the purposes of sleep is to enable the body to repair cellular damage. This is called geo- pathic or geopathogenic stress. The patient's wife, not surprisingly, had Post Viral Fatigue Syndrome.

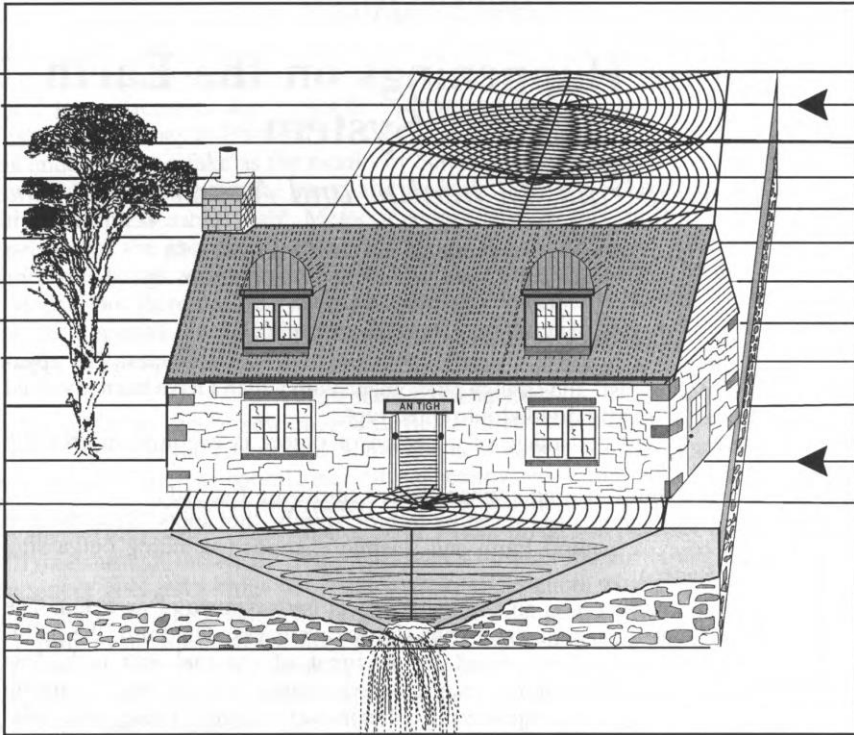


Fig. 68. A subterranean vein of water (pipe, or fissure) emits energy vertically to the surface and also one wave to each side at an angle of 45 degrees. The central wave is also the centre of a series of overlapping spirals whose width is determined by the two outside ones. Incoming leys, (arrowed from right of illustration), comprised of vertical waves of energy are automatically focused into the centre of the spirals.

In this illustration the spirals are clockwise from the centre, with anti-clockwise spirals superimposed upon them) showing that they are malevolent, not conducive to health. Spirals such as these can occur anywhere in a house, as the house itself has little effect on the energies from subterranean sources. The vertical waves of energy from the ley, however, will be diverted by glass, ceramically tiled kitchens and bathrooms, etc. Natural Earth energies such as these seem to be pan of poltergeist phenomena, demonic attack and various illnesses.

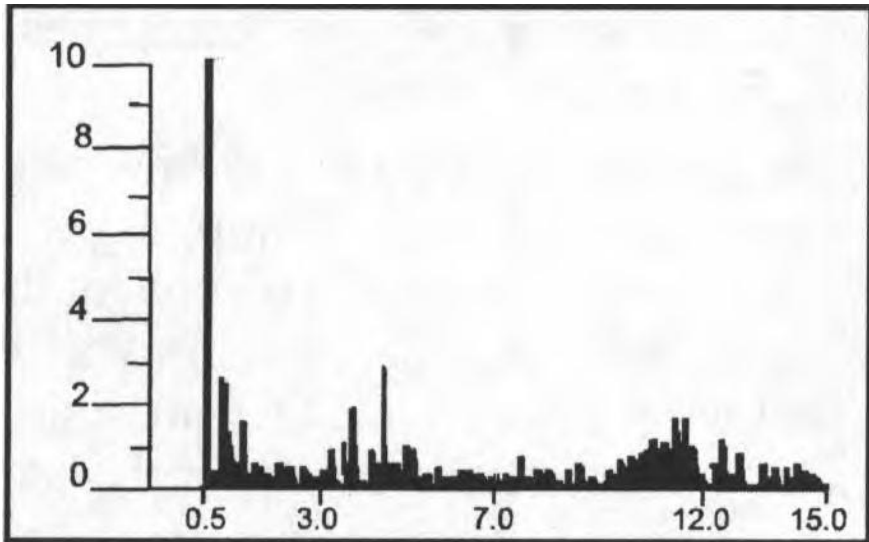
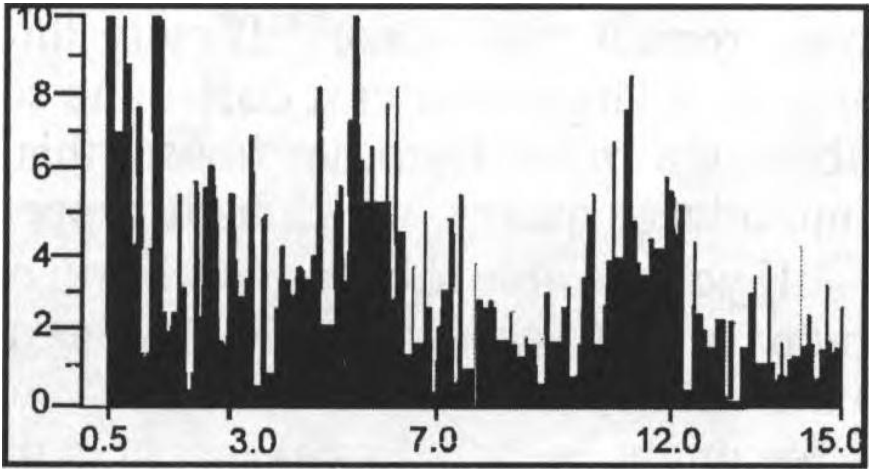


Figure 69a and b. Two brain scans taken of one individual at different locations. The top one has been taken in a 'healthy' place, tellurically speaking, and the bottom in the patient's bed, above an underground stream.

One of the worst cases of illness I have investigated was of plantar fasciitis, the so-called flesh-eating disease. This was in the tiny coal-mining village of Bonnybridge near Stirling. The lady, a nurse, woke up

one morning after a hysterectomy to find her stomach was turning black and a doctor ordered an immediate operation. She had about 7 lbs. of flesh removed from her abdomen, round to her buttocks, and the unfortunate woman lay in hospital for some days with her stomach open so that surgeons could make sure that the disease did not return. When a nurse entered her room to give her treatment, the poor girl fainted at the sight.

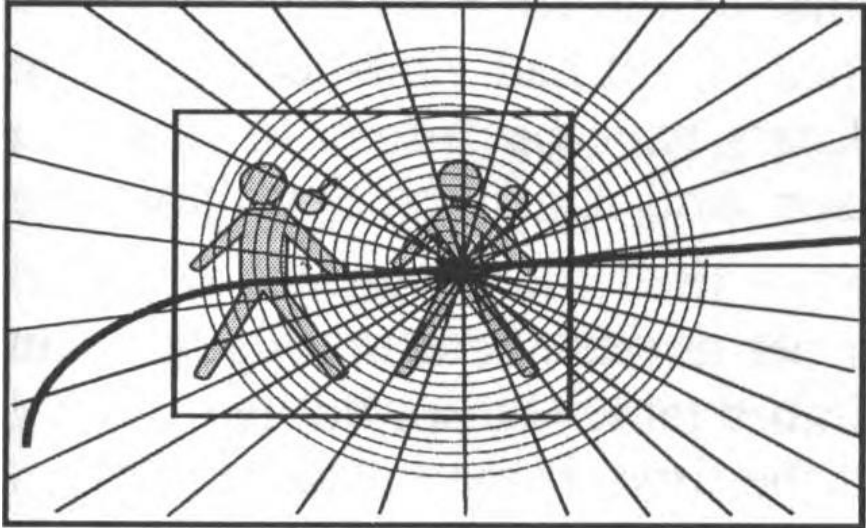


Fig. 70. A case of plantar fasciitis. The thick horizontal line is energy from a fissure which causes the spiral (actually a clockwise spiral with an anti-clockwise spiral superimposed on it) which in turn, attracts the overgrounds into the centre. The lady on the right had the flesh-eating disease at her abdomen, while her husband had cancer of the liver.

At her home there was a black line crossing her bed, with a black spiral centred upon her abdomen (*Fig. 70, left*), the possible cause of this dreadful illness. When I showed her the telluric energies in her bed, she said, 'that explains my husband's cancer of the liver last year.' The line also crossed at his abdomen.

In the following weeks I followed the overgrounds with some difficulty through the village, eventually coming to the source, a large open-cast coal-mine some few miles away. In the other direction, about ten miles from her house, this mile-wide stream of energy earthed itself into a large quarry, which as it happened, was still being worked.

If you are able to dowse for Earth energies, you may find the black line emitted more or less vertically from a subterranean source through the bed of an invalid. Fortunately, black lines have an Achilles' heel as they prefer to enter houses by what might be called weaknesses in their fabric – windows, doors, chimneys, etc., and the overgrounds also have an Achilles' heel, as they are unable to pass through glass, like windows, mirrors, etc.

Simply shifting the bed to another part of the room does not always work, as the black line, if it happens to touch the bed at all, will alter direction. The reason for this strange behaviour is that this type of black line, like cup-mark leys, have a sympathetic resonance, and having accidentally touched one bedspring, actively seeks out other springs, sometimes even travelling down the length of the bed, making matters worse.

I am still not sure if a spring mattress actually attracts this form of malevolent energy, but one way of stopping it, at least for a few weeks, is to place a coil of wire – fence wire will do nicely – at the point the black line comes into the bedroom, on the floor. About 15 coils will do, and it can be wound clockwise or anticlockwise, about 1–2 feet, in diameter. This will deflect the black line, and if it is a yard or more away from the bed, it will not be attracted to it.

If you feel unable to find this black line with divining rods, do not despair, simply put down a coil of wire at all the weak points of your bedroom, not forgetting the sides of the fireplace. Alternatively, keep re-siting your bed until you feel more comfortable. See my book *Safe as Houses?* for more information on this fascinating and all-important subject.

It is interesting that the overgrounds avoid glass, as, according to Chinese feng shui, flat mirrors deflect the noxious '*sha ch'i*', or Earth radiation, and concave mirrors absorb it, whilst convex ones reflect and disperse it, which I agree with.

The Ghost Cars of Loch Tayside

As well as affecting our health, it is these powerful vortices, the incoming overgrounds and the veins of water beneath them, which may be partly responsible for the phenomena of various types which I have been investigating for some years. The first is the hologram type of incident:

In Perthshire, a Loch Tayside farmer and a neighbour, driving out of a field, saw a friend's car travelling along the long straight road at the foot of Ben Lawers on the north side of Loch Tay. They stopped and waited for it to pass, but they were both considerably shaken when no car appeared – it had vanished and there was nowhere it could have gone. A number of cars have been seen to skid to a halt on this stretch of road for no apparent reason, and it may be that they have also seen something odd.

At the same spot a lady was looking for her pet terrier about midnight, when she saw part of the fence 'about the size of a dinner table' lit up, but not casting a shadow. There were no vehicles in the area at the time. It may also be relevant to point out that there is some seepage of water from the field on to the road at this point, possibly forming one of T. C. Lethbridge's 'naiad fields' which we will investigate later.¹



Fig. 71. This petroglyph on a stone near Loch Tay may be part of a puzzling phenomena.

This length of road coincides with a large telluric circle, which is composed of interconnecting spirals around its perimeter. Several old and derelict farms attract the spirals into them. The energy seems to be

¹ Personal correspondence to the co-author.

emitted from a beautifully carved engraving, deeply etched in a garnetiferous mica schist boulder (*Figure 71*). This stone has telluric links with the outside perimeter of spirals, although it was not in the centre of the circuit as I would have wished, and I am a bit sceptical as to its authenticity as the petroglyph seems like the modern sign for radioactivity and is rather different from any other rock-art I have seen. The energy emitted from it, however, is real, and may be responsible for some of the anomalies in the area. It emits a standing wave, amplitude 13 inches (33 cm) wavelength 95 inches (241 cm.).

'Lights, Like Those on an Old-fashioned Car'

A local couple asked me to check their house for unhealthy energies as their little boy was 'dying before their eyes.' There were two burial-grounds nearby and unhealthy leys were passing through their house from both of these, into their home – leys passing through decaying material always turn black, and burial-grounds are no exception.

The family also had another problem. Originally their house had been a school, which had a playground at the rear. This was now used as a car park, with access from a narrow track passing close to the kitchen. On a number of occasions, the wife had noticed headlights passing up the lane and into the car park, and gone out to investigate. Nothing could be seen at all. One night, the husband also saw the car park lit up with powerful lights and went out, expecting to welcome visitors. He saw two headlights 'like those on old-fashioned cars' streaming light across the courtyard. As he watched, they switched off, and slowly faded away. There was nothing there at all – no car, nothing. There are other stories of lights following cars along straight roads in this area.²

Since this took place at the crossing of two leys it would be reasonable to think of the car lights as a form of hologram. Possibly, a car *had* driven into the car park, perhaps many years ago, and the energy in these two leys had split it, like a hologram, and memorized the picture to replay it from time to time.

² Ibid.

The Ghost train of Balquhiddier

In a similar vein is the interesting story which Brian Maddison and his wife related. They were driving south on the A84 Lochearnhead to Balquhiddier road late one starry night in 1997 when they heard the whistle and chuff of a stream train near the old station at Balquhiddier junction. To the north they could see a line of moving lights which they took to be carriages. When they told Mrs. Maddison's father about the event, they were astounded to find that the line had been closed over 30 years ago after a landslide.³

The ley which may be responsible for this phenomenon comes from Killin stone circle which I have already investigated (*Figure 72, below*).

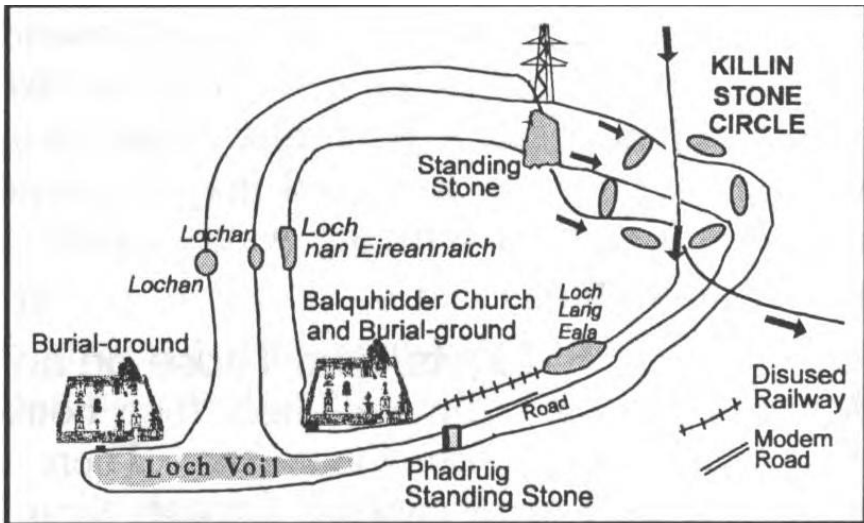


Fig. 72. A stylized circuit of telluric energy from Killin stone circle.

To recap, from the top (north) the cup-mark ley enters the circle, and is then warped up and over the hill to Loch Larig-Eala, down the now disused railway track towards Balquhiddier Church and burial-ground, up over the hills to Loch nan Eireannaich and back to the stone circle for another circuit outside the original one.

The second circuit also travels up over the hills to pass close to Loch

³ *Phenomenal News*, Autumn, 1997.

Larig-Eala, then down the modern road to Balquhiddel station before being warped around Balquhiddel Church and over the hills to another small lochan, then down to the stone circle for the final circuit, which crosses the first two via a modern Hydro-Electric suspension tower and an outlying standing stone.

The disused railway line has the first circuit of the powerful energy ley running down it, while the road (A84) runs roughly parallel and quite close to it on the next circuit.

This is where the working edge of the ley of the second circuit and its companion waves are, tightly packed together, at the south side of the road, just where Mr. Madison's car was.

The phenomena could at least partly be explained by information picked up by the first circuit (one of the many trains following the path of the ley in the past), and the occupants of the car somehow tuning in on the nearby second circuit, at a much later date, long after the railway track had been pulled up. Alternatively, the phenomena might be explained as a seismic disturbance – noises similar to trains and lights are often related to earthquakes. (*See Chapter 20*).

A Ghost in Sepia

One lady in Perth had a black vortex in her garden where the vision of an old woman with her hair tied in a bun, appeared, head bent, walking with the aid of a stick. The unusual twist to this story was that she saw the scene, not in normal colour, but in sepia. Later she found that one of the previous owners fitted her description.

T. C. Lethbridge believed that ghosts originally appeared in full colour, and gradually faded over the years to the traditional grey, white, or green ghost. He thought they appeared in the energies emitted from underground water, and that many apparitions may have been 'thought imprints' put there by someone in the past.⁴

Double Murder

Another house I investigated had an unhappy history. The occupant

⁴ Guy Underwood *Patterns of the Past*. Abacus 1970.

had shot his wife and her friend dead in a macabre incident. The next couple to rent the house were alarmed when one of their children reported seeing two apparitions – one sitting at the end of his bed, apparently in conversation with another at the foot of the other twin bed. The beds had been left in the same position since the shooting, and it was suspected that the apparitions were of the husband and wife having a heated argument in the past.

I found numerous small black spirals in the house and the area around it. The apparitions were, presumably, of the repeating hologram type.

The ley came from the nearby stone circle of Dalchirla which is now ruined (*see Map 9*). Two of the stones are missing, and the two which are left are in line with the house, focusing their energies into it and on to Moncreiffe stone circle, south of Perth. Prior to the murders, this stone circle had been removed to nearby Moncreiffe House, which must have altered the local energies dramatically.

A Black Whirlwind

Telluric energy may also account for other unusual phenomena. One particular ley from the Mausoleum at Ochertyre (on the Highland Boundary Fault) has its burial-ground still in constant use and one local lady told me an unusual story. She had been attending her sister's grave when the blue sky turned unusually dark and a fierce wind arose. She suddenly noticed that the bushes around the area were laid flat with the wind, *but only in that small area*. Terrified, she put her son in his push chair and tried to get out of the narrow gate, only to find that the wind seemed to be trying to separate her from the child. She struggled desperately to get free and ran several miles to her home. She has not been back to visit the site for 30 years.

I had already investigated this ley, and had followed it to the north east, to a large slate quarry. Mile after mile, walking along, I found other small slate quarries, with the varves, the leaves of slate, in line with it. Some 15 miles (24 kilometres) from Ochertyre Mausoleum, the waves became highly distorted, but nevertheless I followed them to the twin stone circles at Tullybelton. The reason for the distortion was that the circles have been completely flattened, and were not working properly. As I approached the ruined circles, I was amused to note that more outcrops of slate showed just above the ground on the nearby worn track.

Another factor to be taken into consideration is another ley, this time

from Cairnpapple henge, well to the south, which crosses through the mausoleum.

A Haunted House

Two girls gave me descriptions of several ghosts in their isolated cottage in Perthshire. A figure of a monk entered one wall to exit by the opposite wall, and early one morning a figure of a very small Roman centurion appeared. Alarmed at the intrusion, one girl attempted to strike the apparition, but her hand went through him. Despite this, the girls felt the centurion was benevolent. An apparition which was unpleasant, however, was that of an old man, partly decayed, with flesh hanging from his body in shreds, and some bones visible. One girl saw the phantom and the other was aware of its presence by the smell of decay.

Other unusual events occurred. The girls heard a noise like a rat climbing up one wall and down the other, but not on the roof. This grew in intensity as time passed to become quite loud. Mysteriously, the telephone bill was astronomic, although the telephone was rarely used, and the same applied to the electricity bill. They also suffered some illnesses soon after moving into the cottage and one developed a violent allergic reaction.

On investigation, I found the little cottage had been built over a wide tunnel, partially filled with water, with black spirals travelling vertically upwards into the house, and had a buried 3-foot diameter Hydro-electric water pipe running close to it. To further exacerbate the problem, an electrical sub-station was located just 100 feet (30 metres) away, also above the tunnel. Another interesting point is that the tunnel acted as a waveguide, the wavelength being decreased, and the amplitude heightened, rather like the overgrounds down 'The Electric Brae'.

Some ten years later, the present occupier has also noted apparitions. When he walked past the kitchen one day he was surprised to see, out of the corner of his eye, a figure in blue dungarees at the sink. When he went back to look, of course, there was no-one there. When I re-checked the house, I found the centre of a black spiral near the sink, just where the figure was seen. The owner asked me to look up at the ceiling, directly above that spot, at a large green patch of damp mould, painted over, where the moisture from the tunnel had been sucked up into the house by the spiral. 'Often wondered why I couldn't get rid of that,' he said!

Missing Time Experience

Some people seem to be in the wrong place at the wrong time more often than others!

This collection of strange occurrences comes from the late Mr. David Hardy and Susan Underhill, of Snaith, Humberside:

Sunday 8 August 1993, afternoon:

'At 1430 hrs we left Cultybraggan Camp (army cadet camp at Comrie) to go to Ardeonaig (loch Tay) to pay the camp site fees and from there we were to travel to Aberfoyle Visitors' Centre to pay for mountain bike hire, but had to get there before 1545 hrs. Already rather tight for time we were further delayed by meeting a loose bull on the road to Ardeonaig, on the south side of Loch Tay. Then we had to stop for coffee with the Camp Site Manager. Obviously as we left the site, we were a little agitated as our schedule was collapsing rapidly.

Sue checked the map to give me directions to Aberfoyle and promptly fell asleep. As I passed a sign directing 'Oban 5 miles' I thought I'd better check with Sue as that name had not been mentioned in my directions. She laughingly told me that we were in totally the wrong direction and to relax as there was no way we could get to Aberfoyle on time. We therefore turned around and enjoyed a leisurely drive back to Callander planning to ring the 'mountain bike' man from our other camp location at Stirling, to apologize and set up another appointment.

As we approached the Aberfoyle turning Sue checked the time to find that it was only 1515 hrs! We had time for coffee and a snack before our appointment time. There is no doubt of the time we departed from Cultybraggan as one must 'book out' at the Guard Room and we subsequently checked our time of departure from their records. The strange thing was that we didn't notice anything odd about it at the time, in fact we did not think of the incident as anything but a stupid navigational error until we looked back on it a couple of years later when we returned to Cultybraggan in 1995.

In just 45 minutes we had driven from Comrie to Ardeonaig, detouring to find the owner of the loose bull which took some time, then we had coffee and a chat with the Camp Site Manager, and drove to within 5 miles of Oban, before returning to Aberfoyle.

(approximately 135 miles, much of it on narrow, hilly, twisting roads). The odd thing is that I was not driving fast at any time as I was rather tired and going carefully.'

Tuesday 15 August 1995 2130 hrs:

'After a very fraught and fractious day, we finally escaped from camp for a meal – the first of the day! At that time of night, the only place we could think of that would still be serving was the Chinese restaurant in Callander.

We relaxed over the meal, recharging our batteries. It was 2345 hrs when we left the restaurant – Sue particularly checked the time to work out our approximate ETA at camp. We walked to the car park, collected the car and drove out of Callander heading for Lochearnhead. The last action of note was Sue drawing my attention to the moon brilliantly reflected in Loch Lubnaig on the left of the road as we drove toward Lochearnhead. That was when I saw the sign 'Oban 5 miles. Sue started to laugh about my navigational skills, but I felt total dread. I knew that there was no possibility that I had covered the distance between the loch and that sign.

The time was only 0020 hours. Sue checked and had the same time. We both recognized the sign which we had both seen 2 years ago. I was sure that something had happened and we were dead or unconscious, driving in limbo, so to speak. Sue had to be quite firm to convince me to turn the car around and start driving back along the road I could not remember having driven up, but must have, somehow, to get where we were. It seemed to take forever and even when we got to the area we had driven through many times (Lix Toll) I did not recognize anything.

Everything looked strange. There were no cars, not even parked. There were no lights. The land and houses were there but not quite as they should be.

As I said, it seemed to take forever, almost as if we were not moving forward at all, but as if someone was playing a film which was moving past us. The car speedometer was registering between 60 – 70 mph.

As we approached Lochearnhead we drove under a railway bridge which we had never seen before, or since, and hardly recognized the Lochearnhead/St. Fillans junction which had no street lighting, no white lines and was very narrow. As we turned

in, we noticed that Loch Earn was bordered with white picket fencing for most of its length to St Fillans. (The loch has been hidden by thick shrubbery until comparatively recently – author).

It was not until we passed the sign for the Trout Farm near Comrie itself that things quite suddenly became normal, with street and house lights and parked cars – all as it should really be. On booking back into camp at the guard room the time was registered as 0245 hrs.

It should be noted that since these two incidents we have driven the road to Oban specifically to study the road in daylight. We have not found a sign saying OBAN 5 MILES (there is a sign at Connel Bridge, 5 miles from Oban – author). We have however, located what remains of a demolished railway bridge just to the north of the Lochearnhead junction (this was demolished around 1960 – author). We assume this to be the bridge we drove under. It goes without saying that we have spent many fruitless hours, in fact days, trying to make sense of what occurred on these occasions but with no success.

Next time we went to Cultybraggan we were very careful!

21st August 1997:

‘The night before we were due to go home, I thought we should treat ourselves and go for a run around as we had not had any time to ourselves all camp. Sue had just found Barry’s Dunford’s book “The Holy Land of Scotland” and it just happened to fall open at a page about Fortingall, so we decided to ‘go see’.

What a wonderful, peaceful, place! We arrived just as the light began to leave the day but still had plenty of time to see the standing stones and the ancient Yew tree (reputedly 3,000 years old and where Pontius Pilate was said to have slept) as well as drink in the atmosphere.

We called at a hotel for a snack before heading back to Comrie along the north side of Loch Tay. As we left the hotel the full moon shone brilliantly, sitting just on top of the hills across the loch. As we were driving beside the loch Sue called my attention to the moon’s strange reflection in the water. What she saw were lights deep under the water gradually coalescing to form a greenish globe which appeared to be rising to the surface. I could see the moon’s reflection and therefore took a moment to realize that what Sue was looking at was nothing to do with the moon. I saw a

greenish globe beneath the surface of the Loch about 30–40 feet wide. It was at the south side at the Killin end. It appeared to rise slowly to the surface becoming more of a white light and in that state moved slowly westward in the direction of Killin. It was visible for a number of minutes and then just disappeared.’

Friday 6 August 1993 2300 hrs:

‘When returning from the direction of Glen Eagles where we had had a meal at the Tormaukin Hotel (note only 1 glass of wine!), at approximately 2300 hrs we came across a strange sight. On the straight bit of road just before the junction with the Crieff road, the entire road was full of a circle of cats.

It was a little frightening as they didn’t move or indeed take any notice of the car. I pulled up completely and they just seemed to look at the vehicle and turned back to continue with whatever they were sitting there to do. There seemed to be a great number of pairs of eyes all sitting in a circle facing the centre. After what seemed like 4–5 minutes they rose and disappeared in various directions. I would estimate there to have been about 30 – 50 in number, and appeared to be normal domestic cats, although some were larger than one might expect.

Crystal Dome in a Glen

Another couple were motoring along the Loch Tummel road, to the east of Loch Tay, when the lady saw an enormous gold-coloured crystal dome shining in the glen. Inside were little houses, also made of crystal. The vision lasted only a few seconds, and her husband, who was driving at the time, saw nothing. ‘Had she seen something from the past’ she asked? Since the glen had been formed by a glacier only a few thousand years ago, it could hardly have been part of an ancient golden age, and it is unlikely that it is part of the future.⁵

⁵ Personal correspondence.

Possible Explanations: Chris Arnold

These two stories, the missing time experience and the crystal domes vision give a pointer to what is going on in the brains of people who experience the phenomena described. It is a brave person indeed who tells others of their experiences and allows them to be put them down on paper.

Three factors are of prime importance. To paraphrase estate agent speak: location, location, and location. Apart from natural Earth energies generated at places where such phenomenon are reported, we must however, add a fourth: the magnetic fields generated by the car itself, and the reactive fields of transmitters nearby (there are three powerful Hydro-electric dams and power stations in the area of Loch Tummel within a radius of 10 kilometres of the site of the crystal domes incident), apart from natural Earth energies generated at places where such phenomenon are reported.

Powerful transcurrent movements can be demonstrated on faults in the area in question. For example, the Ericht-Laidon Fault of 4.5 miles, The Tyndrum Fault of 3 miles and the Loch Tay Fault of 4 miles. A major North-west fault is the Glen Markie Fault, at the Pass of Brander, near Oban, 45 miles from Killin.

There are also six earthquake epicentres all within two miles of one another on opposite sides of the town of Comrie. In 1842 appearances of fire and light occurred well before daybreak, with a light so brilliant that birds could be seen in the trees. Such effects have been reported from all over the world prior to earthquakes. All areas are within 7 miles of this fault zone are considered by Davison to be affected periodically. The nearby Ochil fault extends for nine miles. Menstrie, 15 miles to the south, had over some 200 tremors and 'quakes between 736 and 1916. Strontian, to the west, has had recent 'quakes and there is a fault from Kinloch, at the head of Loch Teacuis to Loch Sunart.

Anderson said that The Great Glen, Highland Boundary and Glenn App faults are moving even at present. As the area is on the Highland Boundary Fault, this has special relevance – the term 'at present' in geological terms has a far wider connotation than the years concerned. There are outliers in Kintyre, near Crieff, and near Blairgowrie. It may be remembered that Blairgowrie has long been considered as a hot spot for visible phenomena.

Green Globe of Light (geall-bhan) in Loch Tay

Yes, indeed, and why not? There are dozens of such reports over the centuries.

This is probably outgassing, from movements of the rock below the water, when the gas emerges as a giant bubble. The green colour may reflect the chromatic effect of deep water or possibly ionization or sonoluminescence. Corliss has a great variety of shapes, colours, rays, patterns and balls of light in his *Lightning, Nocturnal Lights and Related Luminous Phenomena*.

Loch Tay has a fault passing across it at the point where Susan and David saw the green globe, and this area has been the subject of similar events in the past:

The Campbells, tenants of a small farm at Morenish (directly on the fault line on the north bank of Loch Tay, some three miles from Killin), lost two of their sons to 'the fever' in the 1930's. They were buried at Kenmore, on the east side of Loch Tay, and when the surviving brother returned from serving in the army, he decided to exhume their bodies and re-inter their remains at the Killin burial-ground on the west side of the loch.

On the night preceding the re-interment, two bright balls of fire were witnessed rolling along the surface of the loch towards Killin on the very same course the boat carrying their remains took the following day. (This could have been a co-incidence, or the funeral party may have followed the geall-bhan out of superstition, or perhaps the story has been exaggerated over the years).⁶

This fault has produced noticeable land movements too:

On Sunday, 12th September, 1784, on a flat, calm day, Mr. MacIntyre, a blacksmith, was washing himself at the eastern end of the loch, when to his amazement, the waters receded some 300 feet and left the bed of the loch dry. The water gathered itself into a wave and flowed to the west, where it met another similar wave coming towards it, whereupon they both combined to form a 4-foot high wave with a foaming crest. Terrified, he ran to his neighbours and raised the alarm, and when some of the villagers came to see

⁶ Alasdair Alpin MacGregor, *Strange Tales of the Highlands*, Lang Syne.

what the commotion was about, they observed that the river flowing out of the loch had reversed direction and was now flowing back into the loch. This occurrence repeated itself on the two following days, to a lesser extent, until the land reverted to its former position.⁷

This was a similar land movement to the gigantic earthquake which shook the American Midwest in the early 1800's, when the Mississippi river temporarily reversed its direction and bells rang more than a thousand miles away in Boston.

The Brain

There is a vast range of perceptions or a continuum, if you will, between the simple 'I am here', 'I am aware' through 'Whatever was that?' which may be a sensation of touch, a feeling of sudden cold for no apparent reason, maybe a vivid flash of a tiny brilliant light, which bears no relation to the environment, and so on, to 'Why did I smell those lilies?' when there are patently none there, etc.

The trickster in all of these cases is the brain, 3 lbs. of grey and white matter, with billions of neurons and dozens of complex structures, all cross-linked and, when functioning normally, directing our lives, but sometimes a blip triggers some unexpected cross-linking and we may see, smell, feel or taste something that is not truly there. As Professor Zeki wrote recently, 'hallucinations are normal but they are not things which the neurologist wishes to concern himself. Similarly, the optician and the doctor would perhaps rather distance themselves from strange tales. The line of white picket posts seen by the couple when driving beside Loch Earn is very reminiscent of the line of black rectangular posts seen by another woman who has told me of her strange experiences. The picket posts were virtual, not real, images.

A recent writer in *Scientific American* said that if we could sit on a mountain and look down at the surface of the Earth, we would see lines of electricity leaving the ground and rising upwards beyond the clouds. These are natural field effects, which take place constantly. Such leaders are the attractions for lightning strikes.

Scholz describes three types of natural phenomena predicated by what

⁷ William A. Gillies, *In Famed Breadalbane*. Clunie Press, Strathhtay, Perthshire.

is known as the dilatancy model of faulting:

- Electrical resistivity of the soil changes.
- Rate of water flow and radon gas changes.
- Geodetic measurements (vertical motions) increase as the elastic strain in the Earth builds up prior to a tremor or an earthquake.
- Reservoir-induced seismicity, where the weight of the water creates mini earthquakes is also found, as is mining seismicity. Rock bursts and bumps will occur and tremors also. In the area under scrutiny, we find old lead and gold mines and several large man-made reservoirs.

Then there are shear waves, polarized energies created by stressed rocks, which run for miles across the country, so energies are out and about and certainly alive and well in Scotland, a highly faulted region, with the Great Glen Fault, which runs from Inverness to Mull, and the Highland Boundary Fracture Zone which runs through our area *en route* from Stonehaven to Crieff, Callendar, Aberfoyle, and on past Dunoon.

Stone Chamber in Connecticut

Just as a rapid climb up and down several steep ladders will cause anyone's heart to pound, so walking or driving over steep magnetic gradients and angles of dip can affect sensitive people. For example, at Groton, Connecticut, there is a prehistoric site, a stone chamber, where under the capstone, 700 milligauss at 59 degrees dip is measured by the geomagnetometer, but 10 yards away the field has dropped to 300 milligauss at 68 degrees dip. At this well-named 'Cliff of Tears', very many visitors start to weep and feel very depressed. Nose and gum bleeds are common.

On this 24-acre cliff top there are stone chambers, stone circles and rows of small standing stones thought to belong to an ancient American Indian culture. Interestingly, one chamber, known as 'the large chamber' has a passage which is lit by the sun at the equinox sunset. The standing stones, about 1½ feet high show some unusual wave-like geomagnetic readings, according to S. Trento in his book *Field Guide to Mysterious Places of North America*. There are a number of places at this site which show these wave-like patterns. Did the ancient American Indians have the same knowledge which helped build the megalithic culture in Europe? Try using your divining rods on this and other similar sites.

Magnetic Changes prior to Earthquakes

Regarding the relationship between earthquakes and the geomagnetic field, Kato has reported that severe earthquakes are usually preceded or followed by anomalous magnetic changes in the neighbourhood of their epicentre. He attributes the source of this magnetic change to changes in rock magnetism.

It is not generally realized that the human body emits frequencies as radiation in the ELF, RF, MW and IR and UV bands and will itself act as an efficient absorber of Earth energies, with maximum efficiency in the RF band. In man-made signals, these are the radio and television bands. It is, however, also a fact that the Earth itself emits these same energies in addition to those from TV and radio masts.

Imagine a flat rock face with several deep cracks in it. Now, pour on water. It disappears down through the cracks in the rock. These rocks will allow energy far below to percolate upwards through these same cracks. Where a granite block extrudes through the Earth, the energies are higher at the junction of the block and the surface.

Magnetic Fields in the Car

A surprising source of high-level magnetic fields is the car, which is of consequence to both the missing time experience and the crystal domes. They are quite dominating, these fields, compared to the electric fields – there is a low-voltage and high current in cars. There is also considerable spatial variation depending on the location of the battery. The highest levels are found at the seats of the driver and the front seat passenger where they have been measured at levels between 13 microTesla and 700 microTesla. Levels vary considerably between different car models, with the highest found in cars with the battery located at the rear of the car. These can be sometimes 10 times higher than those with the battery mounted in the front of the car.

The engine ignition sequence is the totally dominating source of the magnetic field. Also, when driving, the wheels and tyres, in particular those with metal chords in the tyres, often became permanently magnetized.

This, then, causes an AC magnetic field when the car is in motion. Sustained pulsing, as in trains of clicks, or even car horns, can trigger the

brain to time distortion, as will heating of the brain – here time appears to pass very slowly. The *substantia nigra* pumps out dopamine, which helps to set the pace of the body clock. In the *basal ganglion*, nerve signals loop the loop to mark the passage of time. Interference effects that affect this continuous loop of nerve signal will distort our perception.

Perseveration

This is a rare but well-documented phenomenon when the brain and visual system act from an external stimulus to present a virtual image in front of an individual, as real as if it was actual, but it is always a composite of previously seen images, smells and sounds. The comparator of the brain has assembled an image that is utterly anomalous in the context of the surroundings. It is just possible that the sign to Oban was just such an image, as was the bridge that wasn't there. The writer knows of several examples from her own patients, reported over the years, and there are many in the neurological literature. One man, for example, approaching a haunted pub two years ago, with other people, saw instead of the pub, a very old building in the West Country, a lake, a line of trees, but no buildings. Yet his companion saw only the pub and houses around it.

Cat Circle

This is interesting and logical, the 30–50 cats sitting in a circle across the road. Cats are known to love places of high electromagnetic energy – they love to sit on lines of unhealthy Earth energies (black streams) television sets, computers, and as is well known, the batteries of cars in a garage. So we ask, what was the source of high energies on this road?

Perusal of the Ordnance Survey map may supply the answers. The road in question is on the Highland Boundary Fault Zone. No wonder the cats were having a happy time sitting across the road in a circle, rather like the circle of cows we shall investigate in Chapter 20.

Another feeling is that of being out of touch with reality – exactly as described by Sue and David. 'Everything looked strange, there were no cars, not even parked.

I was sure that something had happened and that we were dead or

unconscious, travelling in limbo, so to speak. It was not until we passed the sign for the trout farm at Comrie that things suddenly became normal, with streets and house lights and parked cars – all as it really should be.’

As Professor Peter Nathan describes in *The Nervous System*, – ‘everything has an unreal atmosphere . . . everything seems to be slowed down . . . even their own movements seem as if they are carried out in slow motion. Everything seems . . . unreal’.

External magnetic fields can trigger nerve activity in the brains of some people. A field only a hundred times stronger than Earth background level will do the trick, and the couple were driving back and forward over faults and thrusts on the road to Killin and Balquhider on the way to and from Callander.

Disorientation

In all of us, an endogenous polarized signal is running constantly from back to front of the brain, down the calcarine fissure. If this is nulled, by an external, equal but opposite signal, the ‘Where am I, what am I doing here?’ feeling is experienced, and this is surprisingly common in people, to judge from the responses I have had to the question in lectures over many years, and, of course, it is where this occurs that is so relevant. People are seeing a familiar scene but all is strange and unreal – not like ordinary life.

There are certain predisposing factors that can in extreme cases produce the syndrome known in Sweden, Japan and the USA, etc., as electromagnetic hypersensitivity, but this applies to only a small percentage of people.

On the perceptual level there are three significant factors:

- The response of the system to electrical currents depends on the state of the system itself.
- Moderate magnitudes of electricity do not produce permanent changes in the system when it is in a globally homeostatic state, but when the system is or has been stressed, whether due to drugs, trauma, shock, pathological conditions or subclinical conditions in the continuum of anomalous human effects, or electric shock or lightning splash, it is very much more vulnerable.
- Extreme magnitudes of electrical current lead to the detriment of the system regardless of its state at the time of application.

All energies have highs and lows, peaks and nulls due to interference effects whether from water reflection or metallic surfaces in a very similar fashion to the way light reflects. In those who are very tired or stressed as this couple were from their statements, images will affect people differently.

For example – ‘we were a little agitated as our schedule was collapsing rapidly’ and ‘as I was rather tired and driving carefully, after a fraught and fractious day.’

The curious report of the sign to Oban five miles away, when by all logic they were some 50 miles away, may have two possible explanations:

Firstly, and most probably, it may have been perseveration of vision (they had visited Oban before) whereby the brain produces an image of something seen and subconsciously remembered from years before.

Secondly, this type of phenomena could have been a very rapid contraction of the visual field (fugitive tunnel vision) and they may have seen only the central part of a longer word. Severe but reversible changes in blood pressure can produce such an effect. If, for example, the word Doncaster is on a sign, the eye may see only ‘cas’ and miss out the ‘Don’ and the ‘ter’ – strange, but true.

We have here in these reports a 20th century description of what the Romans called the *genius loci* – the spirit of place. We owe David and Sue a debt of gratitude for their open report of wonders seen – and unseen.

Spontaneous Water

Reverting to the kitchen of the haunted house which had a damp spot on the ceiling, directly above a black spiral. There are many other reports where water appears as if by magic, at certain spots, often over several centuries. These places, often given religious significance and are known to produce water which is frequently attributed with special properties.

Condensation is not necessarily the answer, although it can be one obvious option. The reason may lie in a combination of air pressure, outgassing and base rock, whether of granite, sandstone or limestone.

Spontaneous water warrants some further examination as, if the special conditions which appear to apply could be replicated, it may be of real value in arid regions.

A World-wide Phenomenon

The following sites have seen the spontaneous appearance of water, but there are many others:

Aberfeldy, Perthshire, Scotland:-

A cup-marked stone near here, is always more-or-less full, even in the driest of weather, and presents a glistening appearance from a distance. The locals travel to this stone on the first day of May every year and wash their faces in it.⁸

Arles-sur-Tech, at the eastern end of the Pyrenees, near Narbonne:-

In the fourth-century abbey here there is a stone chest or sarcophagus which is free-standing and holds some 40 gallons (182 litres) of water. This is clear and fresh at all times and has been for centuries considered to be holy water. Small bottles are constantly filled with this water, yet the sarcophagus is always full.

In 1794 members of the Republican Army, the Pyrenees Orientale, on their way to Spain, emptied the stone sarcophagus, and filled it with refuse. After cleaning it, several women observed that their dusters became moist when in contact with the walls and bottom of the tomb. The immense lid was replaced and within a month it was found that there was 10 inches (25 cm) of clear water in it again. In the presence of clergy, lawyers and council men, the limestone tomb was examined at great length, but no pipes or holes were detected, neither was there a false bottom. Throughout this testing, which lasted several days, the water continued to accumulate.

Most curiously, analysis has shown that this spontaneous water is not of the same composition as the normal town water. It should also be noted that the tomb is located in the driest district of France. Aix les Thermes is several miles away, and here 60 warm springs have a high sulphur and fluorine content.

Ayers Rock, Australia:-

The annual rainfall here is about 5 inches (12 cm), and often fails altogether.

Nevertheless, there are three places at which there are permanent pools of water.

⁸ *Proceedings of the Society of Antiquaries of Scotland*, Neill and Co., Ltd., 1888

Fladda Island, Western Isles of Scotland:-

There is a stone on this island in the chapel dedicated to St. Columba which is always wet, when others are dry. This occurs whatever the weather.

Fontainebleu Forest, Paris:-

Deep in this forest, there is a stone shaped like a dish and is always full of water.

Jastrzebie, Poland:-

Here in 1985 on 21 June, in a third floor flat on a bright, sunny day, 'suddenly, jets of water of great intensity spouted out of all impossible places' i.e., ceilings and walls. Emergency water services were called in and turned off the mains water, but this had no effect at all. For many days the water jet phenomena continued and it was realized that the 12-year-old son of the family, Arthur, was the centre of them. He was seen by several doctors, four priests, the police, the building manager, etc., but no-one could effect a cure. Water appeared above the boy even at school, when he visited his father in hospital, and in an allotment shed. It was found that he appeared to be in a light trance during these watery episodes.⁹

Pozzuoli, (Latin Puteoli, Greek Dicaearchia) to the west of Naples, Italy:-

Around AD 90, in the Grotto of the Nymphs there was a jar of white stone containing water which neither flowed over the edge, nor was depleted if it was drawn from. Damis and Demetrius discuss this mystery at length in *The Life of Appollonius*. It should be noted that present day Pozzuoli is seismically very active, and has been since Roman times, the whole bay area of the Philegrean Fields (as it is now known), having risen and fallen many metres over the centuries.

Noirfontaine, France (black fountain):-

If the word 'noir' (black) in a place-name refers to water, as in the black fountain above, it may be a link with some unusual geological feature. At Noirfontaine a stream of water fell from a stationary point in the sky for 48 hours in April, 1982.

⁹ P. Hough, 'Wet, wet, wet', *Fortean Times*, 89 (1997), 23–6

Rochdale, United Kingdom:-

Peter Hough, an experienced investigator, was asked to visit the Gardener family at their home in August, 1995. The house is on a hilltop, and the family had found water dripping from the ceilings during a summer so hot and dry that there was a hosepipe ban in force. The water appeared to start on the ceilings, yet when local Water Board and Council Officials investigated, there were no leaks and the floor and the joists of the rooms above were perfectly dry. This had been going on for some 10 months when the investigator visited, then the water began to take form, flashing horizontally across the ceiling. The edges were 'jagged, like broken glass', and the water ingress 'finished in a point'. Then the kitchen door appeared to become wet on its lower section, and suddenly, whilst under observation, 'thousands of tiny droplets instantaneously covered the entire door'.¹⁰

Interestingly, two people, at different times heard their names being called when no-one else was in the house. This is a known medical effect and indicative of an electrical surge in their brains.

Rocks from the Sky in Chico, California

Not only water can appear from apparently nowhere, but stones as well. At Chico, a town near California, USA, over a four month period of 1922, a downpour of oval-shaped stones fell intermittently on the roofs of two warehouses. A crowd gathered and a 'deluge' of rocks fell upon them, injuring one sightseer. The stones were warm and some were cemented together by natural or artificial means, showing that they could not be of meteoric origin.¹¹

Prior to that, in the same town in 1878 a great number of small fish fell from a clear sky covering the roof of another store and several acres around it.

In Charleston, South Carolina, in 1886, stones bounced off the pavement outside the offices of *The Charleston News and Courier*. The editor said that the stones were warm, seemed to come from a point overhead and were confined to an area of 75 square feet.

Perhaps seismically active zones are stranger than we can imagine!

¹⁰ Personal correspondence to the co-author.

¹¹ *San Francisco Chronicle*, 12th–18th March.

Wells That Heal, Hiss, Moan and Emit Light

In the UK, as with all countries world-wide, there are thousands of wells and springs which have had the name ‘holy’ bestowed on them and which have been considered sacred since time immemorial. To take just one county, in Cornwall alone there are over 300 holy wells, many with the names of saints. Over centuries these have attained reputations for particular therapies, in particular for helping skin problems, scurvy, wound healing, eye infections and, more rarely, psychosomatic problems.

Some have very special properties. To take one example abroad: in New Zealand, a land with many ancient volcanoes and major faulting, some 84 miles north of the city of Canterbury lies Hammer Springs, discovered by a settler in the 1850’s. Since 1859 these hot mineral springs and pools have been used to treat wounded soldiers, alcoholics and mentally disturbed people. Also in New Zealand, the thermal waters of Roturua are on the volcanic rift which runs from north to south across the country – again we find healing waters. Nearer home a Scottish colleague told me years ago that the Victorian Hydro hotels, so fashionable in the nineteenth century, were always sited beside or over an ancient well or stream, and in fact, the Crieff Hydropathic Hotel was built over such a place, with the cup-marked stone at Connachan Farm several miles away, also situated above the same chalybeate (iron rich) aquifer.

Some of the names of wells in the UK are indicative of their special or seasonal properties. There are many Wishing Wells, a Fairy Well, Blackwell, Whit(e)well, Summerwell (Glos.), Winterwell (Northleach), Milkwell, Rising and Falling Well, Dripping Well, Boiling Well, several wells called Hotwell, as at Bristol, and Lappingwell.

Strange Smells from Wells

Unusual phenomena are also known at well sites. The water level can rise and fall, which may relate to the water table or the syphoning action of the water entry. Bubbles can appear, probably due to gases such as methane leaching out far below. Strange smells can be noted at some wells, again possibly due to methane or other natural gases. More puzzling is the fact that well water can change colour, from clear to red (iron chalybeate suspension), white (chalk or limestone), yellow (sulphur deposits or clear particles), blue or black, both possibly due to deep

disturbances.

Wells have also been seen to emit beams of light and have been heard to hiss or moan. If an electrical discharge (like quartz fracture and piezoelectric energy release) takes place below a water surface, a blast wave is formed by the expansion of the arc channel, called the electrohydrodynamic effect. Such a blast wave propagates concentrically to the discharge channel, generating photons as it goes, which, with the boundary condition of the walls of the well, allows a vertical beam of light to emerge. In the same way, wells act as waveguides for acoustic energy from seismic activity and there is an interesting relationship to this and poltergeist effects in the next chapter.

When we add together the many factors in well water, for example, the mineral and trace elements, the gases in suspension, the fact that they are often sited at faulted areas or at a junction of differing strata, then we are seeing a synergy which can validate the ancient claims of healing wells.

Attributes of the Water

There are countless stories and reports of the efficacy of water from healing wells and spas. Whilst it would require an academic treatise to examine all the sources, it is interesting to look at the chemical and mineral analysis of these wells, where available. The vogue in the 1990's for drinking bottled mineral has far more ancient reasons than the clever marketing by supermarkets and bottlers.

So what are those virtues attributed to water from wells? The obvious ones are clarity and taste and the less obvious ones are gases in suspension in the water, chemicals, minerals and trace elements, and lastly, radioactivity from natural sources in the water. There may also be bacteria and plants, algae, etc., from growth at the edge of a well.

Natural Chemicals in Water

Before considering these, a personal experience is relevant to the generally unconsidered properties of water. For a few years my late husband and I took our holidays in Morocco and one of these pleasures was to drink the special bottled water from the Lalla Haya (Lady Haya)

spring in the Rif Mountains to the east of Tangier, but year after year I became ill at the end of the week. After the third year my husband opined that it might be the water, as I drank it at every meal. He was never ill and drank tea, coffee or wine, like me, but never the water, as he dislikes sparkling water. The fourth year I gave the water a miss – feeling very deprived – and had no tummy troubles at all. The fifth year likewise. What I had not realized was that the water was radioactive to a small degree from a volcanic area of the Rif Mountains.

There can be a great deal, apart from natural radioactivity, in water. The multiplicity of chemicals below – all natural – comes from an analysis of UK, French, and Italian bottled mineral water labels in 1998 and 1999, together with one or two from nineteenth-century Malvern (UK), water: magnesium bromide, magnesium chloride, magnesium bicarbonate and sulphate of magnesium, carbonate of iron, muriated nitron, sodium chloride, sodium sulphate, bicarbonate of lime, potassium sulphate, potassium chloride, ammonium chloride, calcium, fluoride, ferrous bicarbonate, ferrous sulphate, ferrous chloride, calcium bicarbonate, silica, oxygen, nitrogen, carbonic acid, lithium fluoride, zinc, copper, lead, barium sulphate, gypsum and strontium.

There is one analysis which lists ‘traces of rubidium.’

So we see in natural waters the good, the bad and the ugly: fluoride, now known to preserve healthy teeth, lithium, now used to treat certain types of depression, lead, now known to be neurotoxic, and so on. Magnesium is known to be essential to brain function and potassium for cell metabolism, etc., etc.

Healing Waters in Greece and Italy

Near Helice in the Mediterranean is the River Crati and the Spring of Sybaris. This water has curious properties. Ovid mentions the vast numbers of fish to be found in the river, which, he writes, has miraculous properties. Aristotle also wrote that those who drank of the waters of the River Crati ‘became timorous’,¹² whilst Pliny, writing two centuries later, noted that ‘the water turned horses white,’¹³ Whether this was a bleaching of the coat or a talc-like deposit in their hair after they had been in the water is not clear. Either way, there are indications that the water has

¹² Aristotle, *De Mirabilibus, Auscultationibus*, 169.

¹³ Pliny, *Natural History*, XXXI 9:137.

special properties.

Some 25 miles north-west of Rome lies Trevignano. There, a special spring runs out of a hill. The Etruscans believed this water could cure sterile women. It is known as l'aqua delle donne (ladies' water).

In *The Fountains of Rome* (Michael Joseph, 1996), H. V. Morton has gathered together many local and centuries-old reports of the special properties of fountains and springs. He lists the Springs of Forgetfulness and Memory at Lebadia, the rain-making springs at Mt. Lycæus, the saltwater springs at the Acropolis in Athens and also at the Temple of Poseidon at Mantinea. At Epidaurus, he describes how the patients at the great healing temple fell into the 'temple sleep' after drinking the water. Vitruvius wrote that certain fountains in Greece bore notices warning travellers to avoid them.

At Delphi, another great healing centre, the Castalian Spring had one fountain which was sacred to the Oracle at the foot of Mt Palmassus by the Via Sacra (Sacred Way). On the island of Chios, the waters were reputed to 'fossilize the brain', a phrase which presumably refers to memory loss and slowness of thought, but the water from the fountain at Clitor in Arcadia would 'ruin the palate for wine'; indeed, it was called the 'vine hating' fountain.

On the road to Tivoli there is a pungent smell, like sulphuretted hydrogen (as at Harrogate in the UK). In Roman times, this was the only place where ivory did not discolour over time, but it was also a very good place for the skin, Morton reports.

There was an ancient belief that the River Alphaeus on the island of Ortygia, off Syracuse, was connected to the fountain of Arethusa on Sicily by a 400 mile (646 kilometre) long fissure or tunnel beneath the sea. It was said that a cup cast into the river would be recovered later from Arethusa. As Mt. Etna is an active volcano, the possibility of a lava tunnel must be considered.

Pliny the younger, writing to Claussius Gallo in AD 100, comments that Lake Vadiman (now known as Lago di Bassano) in Umbria is a holy lake, so no boats sail upon it. It is, he says, a complete circle, and its sacred waters will heal fractures.

Some waters are thermal, as at Bath and Harrogate, and are mostly the result of volcanic rocks far below the surface heating water in the deep aquifers, where giant natural reservoirs dwarf any man-made reservoirs above. Such thermal springs are generally either acidic or rich in hydrogen sulphide, which makes them sulphurous, as at Yellowstone in the US, Solfara in Italy and Pozzuoli in the Bay of Naples.

There is a large literature on wells and water and these notes are intended only to indicate some reasons why the subject is worthy of deeper study in relation to Earth energies.

Phenomenal Electricity Bills

Let us return to the case of the two girls who experienced ghostly phenomena and poltergeist activity in their house above the waterlogged tunnel, the same house which had the black spiral in the kitchen. One of their problems was the electricity meter which ran out of control, giving them astronomical bills.

There is a logical explanation to this phenomena when we look at free, natural sources and their effects on metals and other materials.

When the Danish physicist Hans Oersted proved that a current flowing through a wire produces a magnetic field surrounding that wire, the English physicist Michael Faraday, in further experiments, proved that an electric current flowing through a wire produces a magnetic field. Faraday constructed a simple dynamo, consisting of a metal disc which rotated over a coil of wire. The coil was electrically connected to the disc and the shaft brushes. As the disc rotated, a current was passed through the coil, which in turn induced a magnetic field aligned with the axis of the coil. This is precisely the same alignment as used in gauges connected to electric meters. Spin imparted to such a disc by external forces produces the same rotary motion and thus turns the disc, controlling the record of the total electricity or gas used. As Faraday found, as long as the disc kept rotating, the magnetic field could be maintained indefinitely. Thus, by the same process, as long as the magnetic field is applied, the disc will continue to spin. That is to say, in cases of abnormal electricity bills, it will incorrectly record the fact that electricity is being consumed.

The meters in the UK are made to a standard pattern. One manufacturer is Sangamo of Felixstowe, Suffolk. Called Floton, this meter is designed to run at 240 volt, 20–80 amps at 50 hertz, and revolve at 166.66 revs on magnetic bearings. The thin disc, sitting on its bearings, is parallel to the Earth and rotates slowly on its spindle, turning the meter, which records power consumption with the trip counter.

The question is, in the cases of houses with exceptionally high meter readings, from where does the external magnetic field to spin the discs originate? No-one in his right mind is going to apply a ceramic magnet to increase the meter reading, and thus vastly increase their electricity bill,

but many cases have been reported in the UK where phenomenally high meter readings (and thus bills) have been recorded.

Seismic Disturbance

There is one source of magnetic fields, however, which is common to all these cases, and that is seismic disturbances, deep movements of the Earth far below our feet, and this particular little cottage is on the edge of an obvious fault.

If two plane waves – seismic waves are of this type – are travelling in opposite directions, and if they both have the same amplitude, phase and polarization, the electromagnetic fields will add and the magnetic fields will cancel. This leads to uniform electric field excitation. Alternatively, when both waves have the same amplitude and polarity, the magnetic fields interfere positively and the electric field will be nullified.

Metals are not unique in reacting to an external magnetic field. Certain ceramic materials known as ferrites, used in portable radios, television, and other types of electrical equipment, will react with electromagnetic waves at microwave (GHz) frequencies and, moreover, exhibit interesting non-reciprocal properties when they are also under the influence of an external DC field. This latter is precisely what we are considering in relation to Earth energies. The gyromagnetic effect in ferrites, and in para- and ferro-magnetics means that energy will be imparted to any freely suspended artefact, such as the revolving disc in an electric or gas meter.

Natural electric currents are always present in the Earth. Whilst 500 microVolts is more usual, currents up to 1.8v have been observed. Small potentials not exceeding 100 microVolts, and often less, can accompany ground water flow, but this depends on the type of rock and ions in the pore water and is generally stronger in the region towards which the ground water is flowing, rather than the source area. Put simply, this means that near springs and streams the Earth is more electro positive. In the more conductive parts of the ground, eddy currents induce secondary magnetic fields which, in a near vertical sheet-like conductor, flow in rotational or spiral paths and themselves produce secondary magnetic fields (black and white spirals).

If a house with an electric meter is situated over such an area, we have an ideal situation for far greater spin to be imported to the aluminium disc in the meter, and hence, far higher bills, as in the case of the two girls

mentioned earlier.

Electricity Meters Keep Working with Power Off

In the village of Flaminze, in the Moldavia district of Romania, in October 1990, all of the fuse blew at the same time. The local authorities investigated and found, to their amazement, that all the domestic meters showed power was being consumed (discs spinning) although all the power in the village was off.

It is no co-incidence that at Cluj, in this highly seismically faulted area, there had been a large earthquake on 20 and 21 October, and there had been seven earthquakes in the Pyrannees between 22 and 26 October. These generate long amplitude waves. Very low frequency (VLF) seismic waves will induce eddy currents in the more conductive parts of the ground and will also generate secondary magnetic fields with the same frequency as the primary VLF, but with a different phase.

In 1991 a house in Somerton, Somerset, showed phenomenally high readings, which the local electricity board investigated, reading 2,160V in a field measurement at the house. In another case at Ryde, Isle of Wight in 1975, when the bills were impossibly high, especially indicative of an external power source, the SEB fitted a new meter, and to the astonishment of the fitter, the 'highly efficient mechanism malfunctioned even as they watched', even though the meter was 'impossible to interfere with'.

CHAPTER SEVENTEEN

Poltergeists

Some Insights into Various Phenomena

'There are no unnatural or supernatural phenomena, there are only very large gaps in our knowledge of what is natural, particularly relating to rare occurrences'.

US ASTRONAUT EDGAR MITCHELL

Poltergeists seem to be of two basic types, either of natural origin, from seismic disturbances, which can be explained rationally, or semi-intelligent malevolent forces capable of using these same energies for their own purpose.

Their activity, like the haunted house above the tunnel in the previous chapter, usually begins with faint scratching, building up to rappings and eventually very loud noises which cannot be traced. The energy appears to follow its own course of evolution and may become powerful enough to cause objects to disappear and reappear in a different place. Stones may appear in mid-air and drop to the ground, and puddles of water or other liquids can be found in a house. Spontaneous fires may break out, although they usually do little damage, and objects can be flung forcibly at the occupants of the house and researchers, usually without causing harm. Ghostly figures are occasionally seen.

The childlike quality of poltergeists is usually apparent, and one of the 'rules' appears to be that no harm comes to the occupants of a dwelling, although there are exceptions. When the entity evolves further, it can communicate with a simple one rap for yes, two for no, or by writing, and may even speak in a synthetic manner. The communications are usually typical of the childish malevolent quality of the low entity, or lower self of a person, usually being blasphemous and incapable of telling the truth.

Ghostly Resident in Shop

Typical of this type of paranormal activity are the occurrences which have happened in the tiny, tightly packed City Prices Store in Church Street, Crieff, which had an unwelcome and ghostly resident.

The proprietor, John Randalls, working late one night to restock his shop, heard a loud cough from close behind him. Knowing perfectly well that he was alone in the shop, he nevertheless turned around to check if anyone was there. 'The hairs on my neck bristled as I looked round – the room was empty.'

For some time, he had been puzzled about other unusual occurrences: clothes on a shelf were sometimes found in disarray when he entered early in the morning, and the shelves above, previously stacked neatly with spray cans, had been disturbed, with some cans obviously misplaced, typical of poltergeist behaviour. Occasionally, he could hear the fan in the vacant shop next door running noisily, even although the electricity supply had been cut off, and sometimes, late at night, voices from the empty flat upstairs. When he went outside, however, he found that there were no lights or signs of any occupation. The proprietor of the camera shop next door has also heard noises from the flat above when he suspects the premises are empty. Much more interesting is the figure of a person walking in the restricted floor space which John's partner, Liz Cramb, has occasionally seen on the video camera. The presence, according to the staff, seems to be perfectly friendly, if perhaps a little mischievous.

Adjoining the back room of City Prices is the old burial-ground of the parish church, which may well be a factor, especially as the burial-ground had recently been landscaped with heavy machinery, and the powerful ley line from Braefordie standing stone near Comrie runs up the High Street, through the town clock and stocks, the City Prices shop and the parish burial-ground to another standing stone at Aberuthven, and yet another further on at Dunning (*Figure 56, page 113*). More importantly, there is an underground stream, the Kincardine burn, which flows very close beneath the shop. It is possible, however, that the noises from the vacant flat above were simply the owners returning on occasion, even in the dark – from experience, when poltergeist activity begins, it is natural for the victim to attribute everything unusual to poltergeist behaviour.

At City Prices there is a black spiral of Earth energy close to the wall, where the spray cans are moved and the clothing on the shelf below is disturbed. The connecting line between this spiral and its neighbour

passes through the spot where John heard the cough. Also at the centre of the black spiral the staff say there is a cold spot, which is a typical effect of black spirals above underground streams.

Interestingly, after writing an article on the City Prices phenomena for the local newspaper a previous occupier got in touch with me. She had rented the same shop some 40 years before as a ladies' hairdressers and very similar phenomena had occurred – occasionally she would leave a bottle of dye on the sink (the shelves with the clothes and the spray cans are there now), and when she turned to pick it up, only seconds later, the bottle had disappeared. Below this, a hamper of towels would be found in the morning in disarray, where now the underwear for sale suffers the same fate.

Liz, one day at the rear of the shop, felt a hand brush lightly on her shoulder and was surprised to find no-one near her. One effect of Earth energies is to cause a muscular spasm, giving the person the impression that he or she has been touched, even pushed, when no-one is around.

The door of this shop, which is rather heavy, has been seen to open on its own, by all the members of the staff. It is in a sheltered part of the street, so wind is out of the question and there were no other obvious reasons for this, but when I tried to find the energy from the Balmuick/Dunning ley which I thought might be responsible, as it is powered by possibly the most active stone circle in the United Kingdom, (*see page 110, and Figure 56, page 113*), I also investigated a well, sunk into another underground stream running parallel to the Kincardine burn, about 50 yards away. To my surprise, I found a yard-wide stream of black energy eddying out from its capped stone, but instead of flowing with the ley as I suspected, it passed across the adjacent Post Office courtyard, through the windows of nearby premises (remember that doors and windows are weak points and therefore attract some forms of this energy) and across the road, neatly through the door of the City Prices shop, before curving round, through the ventilator fan, (the same one which could be heard running from time to time), and spiralling in to one of the ancient graves of the Parish burial-ground at the back. There is the more chilling, alternative possibility, of course, that the energy is flowing in the opposite direction, from the Kincardine burn, up through the burials in the churchyard directly above it, and through the shop to the Tibbertreoch well, which could mean that a spirit is involved.



Fig. 73. The City Prices store with hotel to the right. Notice that the door which opens on its own (arrowed) is at the weak spot in this building.

It would seem that, at least as far as this opening door is concerned, Earth energies, using a well as a waveguide, and flitting from one underground stream to another is a sensible theory. Looking at the shop in this old street it is obvious why the energy streams through the door and into this shop in particular. The hotel next door is much higher and impedes its flow. The door of the shop is a weak point where this energy stream would naturally focus.

'A Particularly Nasty Individual'

Similarly, I recently I attended a house which had a fairly minor infestation. The wife heard voices, very noisy bangs from a bedroom cupboard, bathroom and ceiling late at night, footsteps in the attic and on one occasion a violent wind in her hallway. On another occasion when the doorbell rang, a visiting neighbour went to open the door, to see a figure through the glass which vanished as soon as she opened the door.

The previous tenant had been a particularly nasty individual, and had a pathological hatred of children, and the events seemed to be centred

mainly around the occupants' teenage daughter, as they quietened down when she was out of the house. The lady also told me that the previous tenant's wife had buried her husband's ashes in the garden, and, greatly intrigued, I found a stream of black waves about 1 yard wide, coming from that spot, into the house, through the spot where his favourite armchair had been and then wandering around his house apparently at random, very like the black stream from the Tibbertreoch well. In fact, there is a well just 60 yards from this house, too, although I must say that this town is built on a hill with a large number of wells scattered throughout. As we shall see later, wells can carry the sounds of subterranean earth movements, and boulders rattling down in a spate, and the still active Highland Boundary Fault is a little over a mile away, which could at least explain the loud bangs at night.

This lady had MS and there was a black spiral through her side of the bed. Many months later she told me that her house was now badly affected with wet rot, and the floor under her bed, jut at the centre of the black spiral had to be pulled up.

Spirals as Primitive Radios

Spirals may also relay noises from one location to another. One lady, who complained of a Christmas party – or rather the sounds of a Christmas party – in her house asked me for help. The noise seemed to be coming from a particular room, but when she opened the door all was quiet. Perhaps the line of spirals which she had through her house had been passing noises of a real Christmas party from a nearby house into hers.

I have often noticed that the line of energy directly above an underground stream or fissure (*Figure 68, page 134*) is involved in some cases of 'paranormal' occurrences. For instance, a girl who heard noises of footsteps and drawers opening in her kitchen had this type of energy passing through her armchair from the kitchen. In another case in Paisley, near Glasgow, where a previous owner had murdered his wife and then committed suicide, a similar line from the girl's bed passed through the telephone and television which often malfunctioned. When she was in bed she sometimes told 'Robin' to behave, whereupon they would function normally again. This type of line, measured by Alf Riggs, a fellow researcher, has been measured as a 12-volt DC field, wanders around at random, just like a subterranean fissure, and may be a link

between the person involved and some forms of phenomena.

Poltergeist Throwing Objects

Poltergeist sometimes throw pictures and other objects. These effects could be explained more rationally if we suspect poltergeists of using Earth energies, with or without a discarnate spirit.

Overgrounds do not normally pass through glass, but are diverted to one side. Glass and its derivatives, like tiles, mirrors, etc., as I noted in the previous chapter, act like insulators to some types of telluric energy. Incoming unhealthy waves, striking this barrier, are normally diverted to one side, but under exceptional circumstances may have sufficient pressure to cause the glass (perhaps a picture) to be hurled into the centre of the spiral. Possibly the exceptional conditions are the energies from discarnate entities amplifying them, although there are more scientific explanations which we will address shortly.

Much of the poltergeist's arsenal of weapons is composed of glass, or china, and they feature prominently in this phenomena, although other items can be involved: bottle tops unscrewing themselves, for instance, which may be caused by the anticlockwise spirals, which might also cause kitchen and bathroom taps to turn on. Another feature of the objects which attract poltergeist phenomena is that many of them are resonant cavities: jugs and ornaments, for instance. As we have already discovered, cup-mark leys tune into resonant cavities, and there must be other energies which I have not yet studied which do likewise, as I have often noticed that reports of ball lightning often include this phenomena seeking out chimneys, stoves, aircraft fuselages and ships, for instance.

The Case of the Levitating Lavatory Pan Lid!

There was one case in an office in the city of Perth, where a series of amusing incidents occurred.

Customers' files mysteriously disappeared from their cabinets, and, after frantic searching by the secretaries, reappeared several days later in the most obvious places. The room in the basement was exceptionally cold, and had been the embalming room of the previous occupant, an undertaker.

The one feature which occupied everyone's attention was the ladies' lavatory pan, whose lid mysteriously and repeatedly lifted itself wide open when no-one was around! The secretaries could hear every little movement in the basement, yet no-one ever heard the phantom loo vandal at work. They left the lid firmly down, but when they came back a short time later, it was equally firmly wide open. Whatever agency caused this effect was extremely quiet, since the lid had to be lifted very carefully. Too far, and it would fall against the cistern, not far enough, and it would crash back on to the toilet.

There was a black spiral centred on the lavatory, perhaps attracted to the resonant cavity of the bowl itself, and it may have been this spiral, possibly triggered by one of the young girl's in the office from an adjacent spiral, which lifted the lid. The incidents were most severe at times of stress, when a new manager was taking over, for instance, or when the offices were being renovated.

How to Reduce Poltergeist Energy

The best way to avoid the poltergeist's power escalating, according to one sufferer, is to go out for a walk and calm down. When he goes back, bearing in mind that he is probably a trigger for the infestation, it subsides, due to lack of energy. Salt water (a good electrolyte) sprinkled on the carpet or floor also seems to help, and I remember one particular case where the outside walls of a house were sprayed with salt water which was successful. Other tips are: never go into these situations tired, as you are vulnerable, never underestimate them, and stand your ground. Exorcisms are usually of little use, and don't allow anyone to take photographs and investigate with electronic equipment – it leaves things worse for those who are left.

Most cases of poltergeist activity I have been involved with are of rather mild character, and at least some can be understood simply in terms of the behaviour of natural Earth energies. The more evolved, speaking type of poltergeist, one capable of communicating, lifting heavy objects and producing a variety of objects out of thin air, may hint at the power of departed spirits, some youngsters around puberty (and some not so young), perhaps in association with natural and artificial electric and electromagnetic fields.

Poltergeist Phenomena

The recent publicity about the house at Moel Fanog, a farmhouse on the Brecon Beacons is only the latest in a long line of similar incidents. Utility bills were as high as £750 per quarter, even when the family were on holiday; telephones rang when no incoming calls were being made, electric door bells rang when no-one was there, light switches frequently moved to the 'on' position and had to be taped down to prevent being switched on spontaneously, TVs and radios came on even when the power was unplugged, hair rollers heated with no power applied, and other poltergeist phenomena and apparitions have been reported.

Types of Magnetism and Their Effects

There is a logical explanation to at least some of these phenomena when we look at free, natural sources and their effects on metals and other materials which may be involved in poltergeist infestations, but first of all, we must examine the various forms of magnetism:¹

Oxygen, sodium, salts, iron, nickel and oxides of nitrogen are paramagnetic where the magnetic field of a magnet induces magnetization of the substance or metal in the same direction as the original magnet.

Glass, water, mercury, and most gases are diamagnetic. These materials act to repel any magnetic field in which they are placed, thus a force is experienced by any artefact such as glass, etc., when it is exposed to a magnetic field gradient. This force seeks to move the glass from where the magnetic field is relatively strong, to a region where the field is weaker. In glass, magnetization is negative, in other materials, positive.

Iron, nickel, copper, cobalt, with all of their alloys, rare earth metals, oxide of iron, lodestone, are all examples of Ferromagnetism, and are always attracted to the strongest part of the magnetic field.

When a ferromagnetic substance is magnetized it changes length slightly, either expanding or contracting. Iron, for example, contracts in a weak field and expands in a strong field. This is called magnetostriction.

Non-magnetic fields can be repulsed by the induction of eddy currents in the metal conductor by the original magnetic field. This sets up a

¹ M. Burke, *Handbook of Magnetic Phenomena*, Van Nostrand, USA, 1987.

contrary magnetic field which pushes against the original source. I Could these properties relate directly to equipment which refuses to function in haunted places and authentic crop circles, etc.? Cameras and video recorders, for instance, are very sensitive instruments machined to close tolerances, which could easily be affected by magnetostriction. Also in 'haunted' places, often in public houses, glasses will, apparently of their own volition, move along the counters, perhaps by the diamagnetic effect. This may be another explanation as to why pictures are flung from walls in some poltergeist infestations.

In one case in Crieff, a girl, sitting on her bed drying her hair with an electric drier, was horrified to see the duvet beside her being depressed, almost as if an invisible body was sitting on it. There are many cases of this type, which include bed mattress being found rolled up and other reported incidents where a person lying in bed has the sensation that the bed is bouncing up and down, often with the feeling that the bedclothes are being pulled off. Remember that most mattresses are made from springs.

Here again the physics of resonance and forced oscillations has a direct bearing on this phenomenon, once we take into account the possibility of ambient piezo electric and magnetic fields.

Resonance

Firstly, however, a note on resonance. Everything under the sun has its own resonant frequency, from every cell in your body to the glasses in your drinks cabinet. Even vast, man-made structures will, given the correct frequency and amplitude (strength) resonate and shake to destruction. The example of the wine glass which shatters spontaneously when the singer hits a very pure, coherent note, which is exactly the same as the resonant frequency of the glass itself is familiar.

The Tacoma Narrows Bridge in the U.S. may be less familiar. Here, in 1940, the combination of a steady wind and traffic set up an oscillation on this long metal structure which from a swinging movement soon accelerated to a gigantic oscillation which destroyed the bridge, throwing abandoned cars into the river below. Another extreme example of resonance was reported in *The Times* in 1997 when new radar domes fitted to Concord were disintegrating at high speeds. Happily, new materials and bonding techniques were developed by a British company to safely eliminate the problem.

Bouncing Beds

A most interesting bouncing bed was reported, also in *The Times* on April 4th, 1997. A couple in Ottery, St. Mary had bought special beds which were supposed to lull them gently to sleep – presumably they had low frequency motors incorporated into them. Within a few days they had an ordeal which a judge in the court case which followed described as ‘like being haunted by an electronic poltergeist’. As the owner’s wife stated ‘you never knew when they were going to come on.’ When the spontaneous movements of the bed started in the middle of the night, she woke up and felt as if there was an earthquake. ‘Sometimes it would get faster and faster as if you were trying to get to sleep on a jet which was revving up to take off,’ she said. As there were two separate beds, each with its own separate control device, this is a very strong pointer to a local hotspot of energy which, perhaps due to interference effects, caused energy input to the bed systems and thus the extraordinary activity of the beds themselves.

Vertical springs in a mattress can be forced to vibrate, not only by the sleeper, but by an external force which we shall call F . If F has a frequency different from the natural frequency of the springs (which may number in the hundreds and are all of very similar dimensions) the amplitude will be small. Under certain circumstances, however, the addition of a small input of noise to the larger input signal can greatly increase the output signal.² This phenomenon is called stochastic resonance.

Phantom Footsteps and Other Auditory Phenomena

There are thousands of reports in the phenomenological literature detailing sounds heard which are impossible in the given environment. Many start with footsteps on the ceiling, and other reports tell of ‘steps as if on stone floors’, when the house is fully carpeted, sounds of distant engines, and cars, when there is no road for a car to drive on, sounds of music and singing, even choirs, when there is no-one present.

The study of acoustics is fascinating and crosses the barriers of several scientific disciplines. Strange sounds can be caused by distant

² M. Neikon *Advanced Physics*, Pan, (1992).

earthquakes, distant waterfalls, wind blowing across open wells, chimneys and pipes, quite apart from the common water knock in house plumbing.

Wells, chimneys, corridors and tunnels as we have seen, act as wave guides and allow sounds to be heard out of place as it were. If you listen with your head in your fireplace (with no fire in the grate, we might add!) you can hear conversations, birds singing, distant trains and so on, which standing in the same room, are so faint as to be imperceptible. If you take a milk bottle and blow gently across the top, a low sound will be produced (Helmsholdt effect). If you hold a seashell to your ear the sound of the sea is well known. In reality, you are hearing the pulse of blood pumping round your blood vessels. The swooshing sound is very like the swoosh of pebbles on the beach as the waves wash back to the sea.

In checking through the many reports of ghostly steps, it will be evident that they are usually described as slow, measured, dragging, etc., and rarely as running or rushing. It is also strange that if two people are in a room, perhaps a bedroom, often only one will hear the phantom steps. If you wake in the night, with an ear pressed against the pillow, your own pulse can be heard. Indeed, due to the shape of the ear itself, a very strong amplification of such sounds can occur. The heart-beat and the circulation of the blood continue from before birth to death, with, fortunately, very few hiccups. Sometimes one feels a racing pulse, sometimes a missed beat, but rarely major problems. So the occasional audible sound, whilst unexpected, is normal, although rare.

The Electric Light Connection

In the dozens of reports of 'steps' heard by people in bed, two stand out for accuracy and implication. The first is taken from Ian Wilson's book *Worlds Beyond*, a serious analysis of cases from the Society for Psychical Research. This report is the Ardachie Case of strange occurrences at Ardachie House near Spean, Inverness, Scotland.

A husband and wife had answered an advertisement for caretaker/housekeeper in the *Evening Standard* in 1953. After a long journey they arrived at the Lodge, talked with their new employers and retired early to bed.

Wilson writes:

As explained by Frances Matthews, husband Bill had just gone to

sleep when she heard footsteps coming up the stairs just outside their bedroom door. The steps appeared to go into the unoccupied room opposite their own. A few minutes later the same sequence was repeated and Frances awoke husband Bill, only to find that he seemed to think that ‘the footsteps were coming from the wall next to their beds’.³

Later on, after reporting the ‘footsteps’ to their new employers, and having eliminated the Lodge’s electric generator, the pet dog and cat as the source, the Matthews returned to bed. However, having gone back to bed and turned off the light, rapping had begun from behind the same wall which Bill Matthews had thought he heard footsteps. Although this continued when he got out of bed to get to the light switch, it ceased the moment the light went on. Bill again went to the McEwans, the owners of the house, and now very frightened, they enlisted the help of Peter McEwan, who happened to be a member of the SPR, who suggested that the two men should return to the bedroom, switch off the light and await developments.

The two men sat in the darkness for a full ten minutes but they heard absolutely nothing (note that the men were seated upright in chairs, as against lying flat in bed, as was the case when the sounds were heard by the Matthews). Well past midnight it was decided that the Matthews should sleep in a room at the front of the Lodge, two staircases and corridors removed from their first room. Again, after retiring to bed for the second time that night, both Frances and Bill heard ‘a faint but distinct rapping above Frances’ head’.

Wilson writes:

As, bleary eyed, the two couples once again gathered in the passageway . . . suddenly Frances stiffened with horror. She could now see a figure crawling on her hands and knees with what looked like a candle stock in one hand. Peter, however, could see nothing.⁴

The story continues with other visitors to the house who had also heard taps and footsteps, in situations where no evident cause could be found.

In his book *In Search of Ghosts*, Ian Wilson gives further valuable and

³ Ian Wilson, *Worlds Beyond*, Weidenfeld & Nicolson, 1986.

⁴ *Ibid.* Allardice. *Myths of God and Fancy*. (1991).

personal pointers to the brain and eyes to auditory phenomena. In June 1988, a long-standing friend of Dr. Wilson's, Dr. Michael Clift, sent a report to the Society of Psychical Research regarding happenings he experienced whilst staying at Bearwood College, Sindlesham, near Wokingham, in 1983:

On Wednesday, 27th July of that year I was visiting an old friend, Lieutenant Commander Michael Hayes, who was history master there and lived in the Tower flat. The house, a splendid example of Victorian Gothic, was built around 1873 for the (then) owner of *The Times* . . . but has been a school since the 1920's. On several previous occasions I had stayed there overnight, always in the same dormitory on the top floor . . . I had never felt any unease, and had always slept well. On this completely windless summer's night it was different. As I was dozing off, I was roused by a lot of noise like that of furniture being moved nearby. I thought at first it was caused by cleaners on the floor below, then by my friend moving about in his flat, then by a lorry discharging planks on the gravel below the dormitory window. None of these survived investigation. I got up three or four times and it was only on the last occasion that I realized the noise came on when the light was out and faded away when I switched it on. There was a clear relationship between the two, and then I felt so fearful that I went downstairs and slept until dawn in my car.⁵

We have here a direct association between the endogenous (natural) alpha waves of the brain and perception. What is the relationship between vision and hearing? A close analysis of the many reports of auditory hallucinations, if such a thing were possible, could throw new light on cross-perceptions (synaesthesia) when the body produces such odd effects as the feeling of nausea in the leg, or seeing words in colour in the brain.

A further example of auditory phenomena occurred In December, 1531, at Guadalupe, Mexico. Juan Diego, an Indian, was walking from Quahutitcan, near the present-day Mexico City, to Tlatiloco, passing a hill called Tepeyacac. As reported in *La Estrella del Norte de Mexico* (Florenca, 1669), he was walking by the hill when he heard 'exquisite, entrancing bird-like music coming from the top of the hill. Then the

⁵ Ian Wilson *In Search of Ghosts*, Weidenfeld & Nicolson, 1986.

music stopped and he heard his own name being called. Then on the top of the hill he saw a radiant apparition of a woman, dark in colour, like a native, which spoke to him in the native dialect called Nahuatl, and said she was the Blessed Virgin Mary, and that she wished a church should be built on the hill called Tepeyaca.⁶

When Juan Diego returned to the hill later, he found flowers growing there out of season instead of the usual cacti and weeds. Some flowers were picked and taken to the local bishop which produced a great flurry of activity amongst the Catholic clerics of the area.

Another interesting sound has been heard at Dunter, a castle on the Scottish border. This is a constant rhythmic noise, 'like grinding of seed in a hollow stone mill.' Local reports consider it to be an evil omen.

A lady recorded a strange experience in a Jewish Hassidim class. During the discussion for the group the teacher began to hum. At the same time the lady was aware of a strong emotional change and a weird feeling in her brain. She described it as 'a peculiar effect'.⁷

Another woman told her of her feelings when a Tibetan bowl was struck when she was visiting a teacher. Again she was instantly aware of strange feelings in her brain, but instead of the weird, unpleasant sensation of the first person, she felt a great surge of energy and love.

In both these cases we are looking at the systemic effects of eddy currents and resonance in the brain. Sound and music were both known to the ancients as having the ability to engender specific feelings. There are several factors which possibly combine here: the notes played and their harmonics, the volume (amplitude) and the beat (rhythm) of the sound. This subject is beyond the scope of this book and is a vast and largely uncharted sea for the interested researcher.

One of the most interesting reports of phenomena, containing as it does, virtually the totality of perceived effects is that of the Hislop family at Oldmeldrum in Aberdeenshire, Scotland. They had moved into an old house there and experienced nine months of weird happenings. If these are considered in the context of ambient energy effects on the brain, there may be rational explanations:

⁶ P. Allardyce, *Myths of God and Fantasy*, Prism Press, UK, 1991.

⁷ Personal communication to the author.

<i>Effect</i>	<i>Probable Cause</i>
Strange violin music	Auditory hallucination.
Faces at the window	Visual hallucination.
Room becomes very cold	Vortex – air pressure.
Pervading smell of roses	Stimulation of Limbic region.
Voice calling ‘Marjory’ three times	Sub clinical effect.
Feeling of strangulation	Stimulation of brain stem.
Red marks around neck	Histamine.

There are other strange instances where a person hears his or her own name, even pet name, called out loud. If this happens when there is no one else in the house, with the victim wide-awake, then indeed it can be a frightening experience, but it is simply one of the many tricks the brain can play on us.

Other Strange Happenings: Car Problems

Modern car speedometers sometimes show dozens of miles travelled, quite impossible in the real time frame, but one answer probably lies not in the paranormal, but in the laws of electromagnetics. Speedometers usually work through a square shaped cable which runs from the gearbox to the back of the instrument in the dashboard. The faster the car goes, the faster the geared cable spins. At the dashboard end, the cable has a small bar magnet attached, which sits inside a rotating aluminium speed cup, which in turn sits within a stationery magnetic ring. The cup is magnetized and connected to the rear end of the speedo spindle, to which the speedometer needle is fixed. As the magnet spins, it sets up a magnetic field which induces eddy currents in the non-magnetic but highly conductive material of the speed cup, which tries to spin with the magnet, taking the speedo spindle and needle with it. So an externally applied magnetic field will, under certain circumstances, override the system and impart spin to the spindle, showing vast, apparently impossible mileages on the mileometer according to Professor H. Burke from MIT and Stanford Universities in the U.S.A.

Demons

Occasionally, paranormal phenomena can escalate to cause horrifying incidents. A lady in Edinburgh telephoned me for help. Her story was a horrifying one. Almost every night she was being savagely raped by an invisible entity. She described it as a bestial, determined and impersonal attack, and took place even when her husband was with her. She had also been attacked when she lived at previous locations, and kept shifting her bed in an effort to thwart the creature, but it always caught up with her.

There was a black spiral in the living room, in front of the television set, and the real culprit, another black spiral in the centre of their bed, at the level of the solar plexus. Both husband and wife told me that, occasionally, they felt as if many sharp nails were being driven into their solar plexuses. The husband told me that he had also been attacked by the entity on one occasion, and when he tried to recite The Lord's Prayer, he felt as if his face was being tom off by claws. This may be as a result of stimulation of the septal region of the brain. Later the girl told me that she and her husband had been in Africa, where they had met, and he had divorced his wife to marry her. With a little more questioning, I discovered that his first wife had deliberately kept his trousers and underpants, and it may have been that she had taken them to a local witch doctor to put a curse on them.

I put one of my cup-marked stones down, outside the house, which eliminated much of the black energy, but unfortunately, to my horror, actually made things worse! Then I put the wife in touch with an Arabian gentleman who eliminated it with a form of ceremonial 'magic'. Later he said to me 'The people in the UK do not know very much about these things!'

Sisters Attacked

Later, I had a request from two sisters in the same area. They were being attacked in a very similar manner. In this case, the black spiral was in the bed of the younger sister, while the older sister, who slept downstairs, had the spiral about a yard away from the foot of her bed.

They also told me of another unusual occurrence, when a very bright disc-shaped light flew across Edinburgh with incredible speed. Watching it through their window, they were horrified when it sped towards them,

then seemed to settle into the house, the furniture and room glowing orange which slowly dissipated.

The younger of the sisters described the experience which followed as an invisible and personal assault, while the elder sister was spared, as the centre of the spiral was a little over a yard from the foot of her bed, as the attacking force could only shake her bed. Both had decided not to tell the other about the problem, which lasted for some months, until one, at the end of her tether, told her sister the story.

Presumably, the phenomenon was a form of Earth energy which had to earth itself into the most attractive spot in the vicinity. The electro-magnetic fields and static may have caused the ladies to have powerful hallucinatory dreams – or was there some form of intelligent entity which actually attacked them?

CHAPTER EIGHTEEN

Lethbridge's Legacy and Earthquakes

. . . Like Peris' Wands, when pointing
out the road (Thomas Moore)

CHRIS ARNOLD

'The origin of the laws of physics comes down to information: the information we try to prise from Nature by making observations and the information Nature has, but is reluctant to part with.'

ROY FRIEDEN, *PHYSICS FROM FISHER*

Dr. Lethbridge was a great man, in every sense of the word. Professionally, he was an archaeologist and Keeper of Anglo-Saxon Antiquities at Cambridge, but he was also an historian, a practical visionary and a dowser, and, above all, he had curiosity. By the time he died in 1971, he had written several books on a variety of phenomena from a strictly observational and analytical point of view, in addition to many research papers. He listed, in the clearest possible language, the effects, both good and bad, of Earth energies that have ever been published. With the immense progress in geophysics and seismology in the years since his death, it is now time to look again at his work and set it into the framework which, ahead of his time, he did not live to see realized.

Let us look again at the places where Dr. Lethbridge and his wife Mina experienced strange occurrences and at the analyses he gave of perceived phenomena. With hindsight, we can consider the effects on the brain and emotions from high-energy seismic sites. These can be, as both Mina and he found, very localized.

Ladram Bay

27/1/63

This is a highly faulted area on the coast of the English Channel, 2 miles south-west of Sidmouth. The geology is red sandstone. Lethbridge wrote. 'I passed into a kind of blanket of fog, depression and fear.' His wife said 'something frightful is here. I can't stand this place any longer.'

3/2/63

At the same place, Lethbridge again felt the same depression, just over the point where a streamlet ran over the pebbles into the sea. At the other end of the beach he wrote that the feeling was at its worst. 'It was so strong as to make me feel almost giddy. It felt not unlike one feels with a high temperature when full of prescribed drugs. It had definite limits which you could step over in a single stride. There is an air of unreality about it.'

Hole House 21/12/1963

This house, Lethbridge's home, is on the north-south uplift on the coast in this area. Both Tom and Mina noted that they experienced blurred vision here.

Skellig Michael

On this tiny island 6 miles (10 kilometres) off the Kerry Coast in Ireland, Dr. Lethbridge was standing on top of the cliff, looking out to sea. Suddenly he experienced a total collapse and 'fell flat on his face in the grass':

If the motor cortex in the brain is subjected to a transcranial magnetic field of specific strengths, both the muscle behind the tibia in the leg, and the soleus, the muscle in the calf of the leg, will contract sharply, leading to collapse and fall, if the person is standing.

As Dr. Lethbridge was climbing down the cliff, he had another experience, and felt 'as if someone wanted to push me off. Dr. Lethbridge is not the only person interested in archaeology to have felt this effect. John Sharkey, writer and lecturer, was sitting alone inside Barpa Langas, a chambered cairn close to the 20-stone circle of Pobuill Phinn (People of Finn, yet again) on the island of North Uist, listening to the tick of a

Geiger counter, when he was flung violently across the little chamber by a vicious 'kick' in the kidneys.

He wrote:

'I was lucky to escape with minor injuries from the large, protruding stones, but the sudden nervous shock and a sore back for a few days afterwards were more than sufficient to repay me for my morbid curiosity. The radiation reading¹ was no higher than outside, but in fact nearly a third lower than in the evening, so I can only guess that at dusk there was a kind of shift in the accumulation of energy in the stone funnel . . .'²

Repeatedly we find strange effects from the unusual geomagnetic anomalies in ancient structures which are only just being researched in the USA and Great Britain. If the ulnar nerve connected to the spine gets a zap of energy, however sourced, the individual will feel as if he has been pushed from behind, exactly as both Lethbridge and Sharkey described.

The effects Lethbridge reported in these places are as follows:

- 'Ghouls' (his term for oppressive feelings)
- Self-harming/suicidal thoughts
- Drop (physical collapse) attacks
- Visual hallucinations
- Auditory hallucinations
- An immense feeling of sadness
- Sudden extreme depression
- A sense of presence.

He came to the view that the medium involved in these effects is some form of natural electrical field, closely associated with water or a damp atmosphere.

The Little People

¹ Many reports refer to 'radiation readings', using Geiger counters which measure ionizing radiations. However, magnetometer readings and non-ionizing radiations (extreme low frequency, radio frequency and microwave frequencies) are hardly ever mentioned in UK reports.

² John Sharkey, *The Road Through the Isles*. (1986).

Lethbridge was convinced that there are several types of Earth field connected with different elementals: water fields (he called them Naiads); Oreads, associated with open spaces and mountains; and Dryads with woodlands.

He writes:

Little people are seen now and then by many races of Man. They are seen in Africa, where they are just tiny Africans. I do not doubt for a moment that they are seen, but I do doubt the interpretation placed on the seeing. Ordinary men and women all over the world have seen these little people, but I do not believe they really exist as such . . . they have seen something which appeared to their minds as a little man.

This may be attributed to micropsia, the medical term for the apparent perception of tiny figures and minute images. The opposite, macropsia, describes the hallucinatory appearance of giant images, perhaps the eight, nine and ten foot monsters of folklore, still encountered even to this day.

He proposed the theory that the force fields of the Earth are concentrated in certain natural features such as waterfalls, springs and streams. Lethbridge thought that the human body could interact with the natural force field at these sites. Flowing water carries energy and creates negative ions (the 'good' ions) as against positive ions ('bad' ions). The magnetic field in the UK is at an average of 50,000 nT (50 mG) but both highs and lows are found, especially over basalt, haematite and magnetite. A massive sulphate deposit containing pyrrhotite would be dense, and both magnetic and electrically conductive. At these places compasses may swing, watches, cameras and video recorders may malfunction, and the sensitive human body will give several signs of magnetic gradient.

As Lethbridge wrote, 'Both archaeologists and anthropologists have become so specialized that few men or women remain who are capable of letting their minds range widely about the world.' Twenty-five years later there are now many other specialities where his comment applies more than ever. Nevertheless, at the end of the 20th century some are 'letting their minds range widely'. Tom Lethbridge left in writing clear signposts for paths of future research . . . 'Like Peris' Wands, when pointing out the road.' How far along this path have others travelled?

Mood Changes in Natural Electric Fields

The brain is a never-sleeping electrochemical factory, producing neuro-transmitters, enzymes, essential chemicals such as melatonin (a cancer preventing agent) and serotonin (involved in sleep and emotions). These chemicals and the functions control all human emotions: happiness, ecstasy, panic, depression, violence, and so on. If the production of serotonin (an amine neurotransmitter) is suddenly either accelerated or depressed, certain effects on mood, sleep, attention, and memory can be triggered.

Both serotonin and noradrenaline are used in two very particular but enormously widespread pathways in the brain. The cell bodies of both systems lie in small clusters deep in the brainstem, at the base of the brain, so a sudden change of current can affect emotions and mood. Putting it simply, as Professor Colin Blakemore writes ‘depression is due to under-production of serotonin and noradrenaline, and extreme behaviour is due to their overproduction by the brain.’³ So we may visualize the Lethbridges’ walking along the beach and by the streams, being subjected to a momentarily high electric field from the ionized water flow, and equally momentarily undergoing extreme depression, gloom, even an urge to commit suicide – in other words, the ghouls – yet finding that these feelings of dread pass rapidly on leaving the bad zone. It gave me (Chris) great pleasure to realize that the very clear, but at the time anomalous, descriptions of such emotions by Tom Lethbridge fitted exactly with what the Romans called the *genius loci*, the spirit of place.

Interestingly, blurred vision is another effect of abnormal serotonin levels, as is the weird effect of looking at a scene, or street, where all appears dead. One’s limbs may appear distorted and a veil-like lacy curtain can appear over objects. These are all transitory effects and are apt to be misinterpreted as paranormal.

Dowsing, or Bio-Location

Professor Trazska of the Environmental Protection Agency in Poland made many highly relevant observations on dowsing at a scientific conference on Biomedical Effects of EM Fields in October, 1995. He

³ C. Blakemore, *The Mind Machine*, Oxford University Press. 1990.

stated that in a series of tests, dowsers were found to display sensitivity to hydrogen resonance (1,420 MHz) at a sensitivity far below 0.01 microV/m. He found that it was the magnetization of water which the dowsers were able to detect. Further, the relaxation time was proportional to the applied magnetic field intensity. In other words, he found a sensitivity to magnetic fields far below those generally considered as applicable to man. We may call this 'hypersensitivity'.

Were Lethbridge still alive he would have been greatly interested in these findings and also in the solid scientific text *The Biological Effects of Environmental Electromagnetism* written by Professor Konig (Munich University), Dr. Kruger (School of Public Health, University of California), the late Dr. S. Lang and Dr. Walter Sonning of Munich. In the 280 pages of this extremely well researched text, Lethbridge would have delighted in such chapters as those on ionized columns of energy from faults and flowing water, biological reactions measured at these sites, natural electrophysical forces and biological activity of static fields. It is explained that not only is the walking speed of the biolocator (dowser) vital to perception, but magnetic saturation (very high field levels) can negate the effect.

The human body acts as an antenna, and will pick up and absorb both Earth and man-made energies, depending upon the polarization (direction) of the energy and the height and position of the body itself. The prone or sleeping body will maximally absorb horizontally polarized energies, and the standing body will maximally absorb the vertically polarized energies. Then there are elliptical circular polarizations with varying effects and absorption rates. However, this is not the place to go into eddy currents in the brain and effects of energy on deep structures such as the amygdala (emotions such as fear, terror, etc). the hypothalamus (the temperature control of the body), the pineal which produces melatonin, an oncostatic agent and the pituitary (which produces many hormones and neurotransmitters including those affecting food demand).

The Sensitivity of Man

Imagine how strange it would be if you could only see those people whose names began with 'M'. You would never see Queen Elizabeth, Elton John would be invisible, and the humour of Rowan Atkinson would be wasted on you. Madonna, Maradona, Mozart and Marilyn Monroe,

however, would all be there. So it is with the visible part of the electromagnetic spectrum. We see one another through a tiny window of visible light, yet there are infinitely wider frequencies: the non-ionizing, from static, RF, Microwave, infra-red and the ionization from UV through X-rays to gamma rays. Until fairly recently, conventional science maintained that the lower regions of the spectrum were virtually imperceptible to man. That is now no longer so. Static electricity from Earth energies and magnetism have been felt by man since he stood upright and walked on the Earth. Animals which walk on all fours are hypersensitive to such energies. For those whose knowledge of electricity stops at pushing the TV switch, it may come as a surprise to realize just how responsive the human body is to ambient electrical and magnetic fields.

Evidence continues to accumulate in scientific papers, such as that by Professor Baker. 'Magnetite has been found in man in the sinus region above and behind the nose and in many other places. In this area deposits of ferric iron have been measured up to 13 times the amounts of other parts of the body.'⁴

Interestingly, in some people the levels were very low. Is it possible that those who are unable to dowse, or who dowse poorly may be anaemic?

Prior to his death in 1990, I had the privilege of working on seismic energy with the late Dr. Bill Sutherland, the medical physicist. He was a brilliant scientist working in oncology and also a dowser with extreme sensitivity. We were working on 'hot spots' or 'clusters,' where the incidence of a specific condition is statistically very much higher than average. With his specialized knowledge and equipment, Bill was able to bring frequency analysis to his findings, a very significant factor in health effects, both adverse and beneficial.

Are dowsers also working along these lines? Energies may be positively charged, negatively charged, even nulled, and magnetic fields will vary depending on the type of rock, buried ore bodies and type of fault. These magnetic gradients are of the greatest significance to body charge and production of eddy currents in the brain as the body moves across a gradient.

⁴ R. R. Baker. *Magnetic Bones in Human Sinuses*. *Nature*, 30178 (1983)

Positive and Negative Polarity in Humans

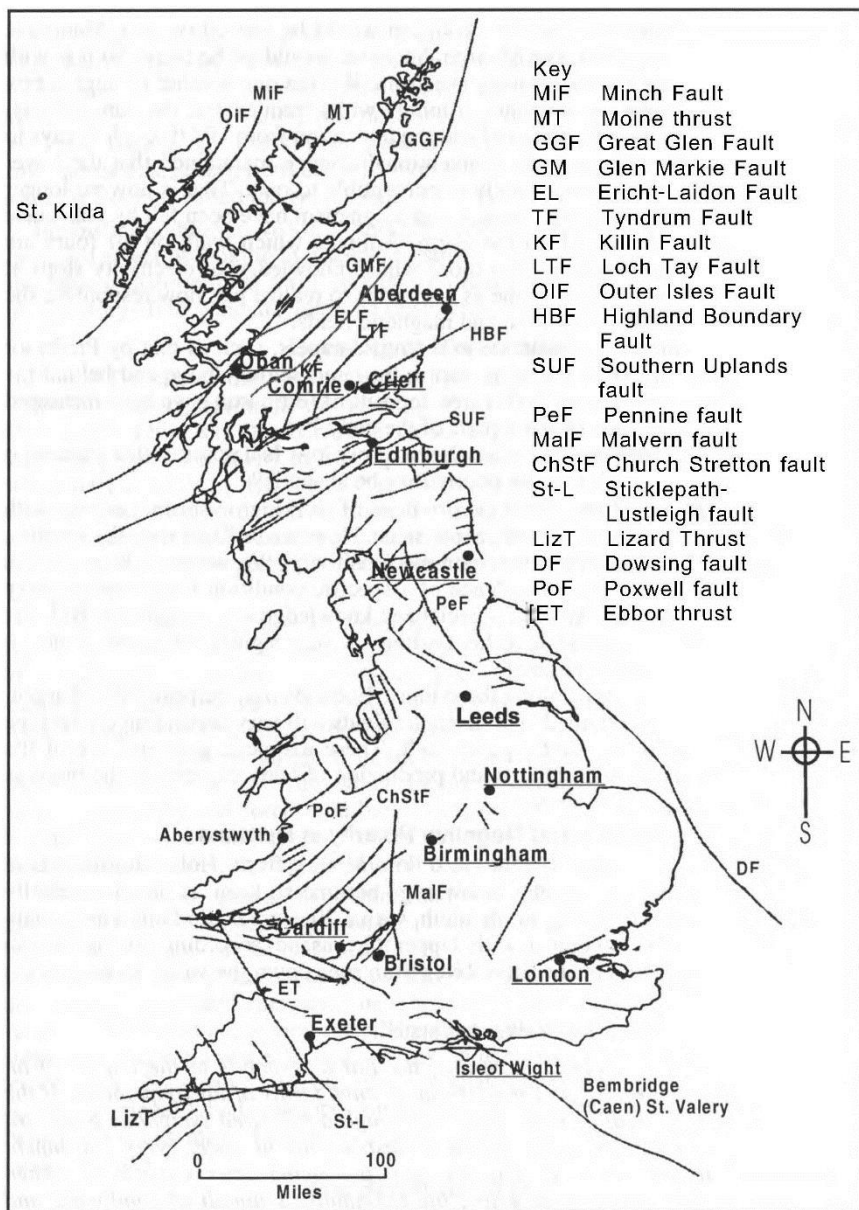
Branscombe Mouth, under 1 mile (1.6 kilometres) from Hole House, where Lethbridge's dowsing and psychic knowledge became so keen, is on an especially important axis of uplift running north-south, with a 20 degrees dip fault where chalk is on a junction (discontinuity) with Upper Greensand according to the British Geological Survey. Further, the little River Bran runs down the valley to exit on the beach.⁵

As the seismologist Bryce Walker has stated:

With its layered panoply of materials, the Earth responds to the impact of an earthquake by vibrating in a maelstrom of wave forms of all frequencies. If the frequencies were audible it would be as though a full-sized symphony orchestra was blaring out all the notes of all its instruments at once, every instrument playing fortissimo in every possible key, producing utter cacophony. When depicted visually on a seismogram, the earthquake's tumult of conflicting and overlapping seismic waves presents an apparently bewildering hodgepodge of zigzag lines'.⁶

⁵ *South-west England*, British Geological Survey/HMSO (1975).

⁶ Bryce Walker, quoted in *Earthquakes, Time Life*, 1982.



Faults and Phenomena

Far below us, sections of the Earth are slowly grinding along each fracture. You will have heard of the San Andreas Fault (SAF) in America, and we have already discussed the Great Glen Fault in Scotland which stretches down from Inverness to Islay. You may not know of the hidden bands which run across Greenwich under the Thames. Another runs under Tower Hill from Deptford and on into Essex. Hundreds of these seismic faults have been found in the UK and it is the energy released when they move which concerns us (*see Map 22, page 243*).

I must stress that we are not looking here at the great works of nature and eruptions of energy from major volcanoes and earthquakes, but at the subtle energies. In the UK the energy is way down in the extremely low frequency, very low frequency and radio frequency bands, rarely can it reach up into the microwave bands. Acoustic energy is transmitted and thus is heard by some (depending upon the frequency) as a groaning or crying, or musical tones, murmurs, the sound of breaking glass, a railway engine, or a squadron of Lancaster bombers. Much depends on the type of rock or earth below the ground (*see Natural Earth Wave Chart, Chapter 20*).

Earthquake Noises

It was Pliny the Elder who wrote in the first century AD:

(Earthquakes) are . . . preceded or accompanied by a terrible sound that sometimes resembles a rumble, sometimes the lowing of cattle or the shouts of human beings or the clash of weapons struck together, according to the nature of the material which receives the shock and the shape of caverns or burrows through which it passes, proceeding with smaller volume in a narrow channel but with a harsh noise in channels that bend, echoing in hard channels, bubbling in damp ones, forming waves in stagnant ones, raging against solid ones. Accordingly, even without any movement occurring, a sound is sometimes emitted.⁷

⁷ Pliny The Elder, in H. Tributsch, *When the Snakes Awake*, MIT Press, USA, 1983.

The description of earthquake noises is one of the best, most exhaustive and scientifically profound descriptions that has ever been composed. Not only does it give a vivid image of the intensity and the character of the sound impressions, but at the same time it explains in an understandable way how much the quality of sound varies with the structural form and the material composition of the environment. This remarkable description did not overlook the fact that earthquake noise frequently begins several seconds before tremors become perceptible, and that ground noises occasionally appear without Earth movements.

It is interesting to compare the modern perceptions of this intensive acoustical experience. Charles Davidson, who from 1889 to 1916 evaluated about 20,000 reports of earthquake noise, came to the conclusion that it was usually a dull-sounding rolling noise resembling distant thunder or the noise made by a heavy vehicle rolling past. His seven-point scale also includes sound impressions that resemble the sounds made by a load of coal being tipped out and by a giant flock of partridges.

'Ghost' Train in Tunnel

Several people who told Prof. Tributsch of their earthquake experiences compared the sensation to that of suddenly finding themselves in a mighty train that was hurtling over such bumpy rails that they were thrown about helplessly. The earthquake noise which accompanied the Ligurian earthquakes towards the end of the nineteenth century was compared by alert, technically trained observers to that of a train rushing past an observer in a tunnel. An anecdote which a railway engineer told the seismologist Mercalli shows how accurate this comparison is: a signalman happened to be in the 8,300-foot (2,530 metre) railroad tunnel between Joppoli and Ricadi, Italy, which runs through a rock formation, when the earthquake happened. The sound effects of an on-rushing train was so genuine that the signalman gave the prescribed signals. He was terrified to hear the noise passing without seeing a train! A similar incident occurred in Upper Loch Torridon, Scotland in 1936/7, when a Mr. McLeod of Croydon, Surrey, England, heard a noise, again like a subway train approaching a station. On this occasion the scenery shimmered as if out of focus, obviously due to vibration.

Despite the many earthquakes which happen every year, science has

only very sparse information about the accompanying noise. The pride of earthquake researchers is a catalogue of thirteen accidentally recorded tapes which produce, through the screaming of people and the falling of dishes, some 'genuine' earthquake noises. Still, the representation of earthquake noise has been remarkably well developed, thanks to careful laboratory experiments, accurate theoretical examinations, and a tape recording which caught several miniquakes.

Since earthquake noises are generated when vibrations of the Earth's surface transfer pressure waves to the air, the key to these sound phenomena lies in the knowledge of the vibrations which can be produced in the Earth before and during a 'quake. We know to-day that there are many mechanisms which can evoke them. Earthquake waves themselves vibrate at frequencies between 0.1 and 10 hertz (Hz).

This frequency range is followed (up to several hundred hertz) by the more rapid vibrations of the microquake. A human, whose hearing threshold lies around 16 Hz, can, theoretically, hear the waves of smaller earthquakes. On top of the frequency range of these microquakes are the frequencies (up to 3,000 Hz) of still other kinds of vibrations. These are produced by breaking rock.

Laboratory Experiments on Rock

Since sound is produced in all major earthquakes, the source of vibrations must not be neglected. Laboratory experiments, as already mentioned, show that before rocks break, fine hairline cracks appear in them. In the process, ultrasound signals are emitted at frequencies which can reach 100,000 Hz. The sound frequency varies with the size of the tears which are being produced and thus with the kind of rock in which the cracks appear. It follows, then, that almost any sound frequency may be emitted in an earthquake, from infra sound to the extreme ultrasound. But a concert of this kind would hardly have been compared to the growling of thunder or the passing of a train in a tunnel, rather, one might think of the rattling of tin cans, breaking glass or screeching brakes.

The reason for the great difference between generated sound and perceived sound in an earthquake is that rock swallows much of the generated sound energy. This muffling effect is not equally strong at all frequencies, but is proportionally stronger in the higher frequencies. Whereas sound of 10,000 Hz. travels 656 feet (200 metres) in typical bedrock, sound of 100 Hz. covers 12 miles (20 kilometres). As sound

travels through the bedrock, ultrasound frequencies are filtered out drastically, so that only the deeper earthquake tones remain. In order for ultrasound signals coming from the developing hairline fractures in rock to be detected, the events must be taking place 32.8–328 feet (10–100 metres) away. Since the origins of earthquakes generally lie many miles beneath the Earth's surface, and since very shallow earthquakes are rare, ultrasound signals as earthquake signs are barely worth considering. This is confirmed by fortuitous tape recordings of three small earthquakes in 1975 in the Imperial Valley of California; the measured acoustical frequencies are indeed limited to the very low frequency range between 50 and 70 Hz.

However, earthquake noise is not always limited to this narrow frequency range. If a small 'quake happens in a bottom layer of granite or lava rock, people living above it may perceive very high-pitched noises. This is because small earthquakes produce high-frequency tones, and because these travel well through this kind of crystalline rock. A similar earthquake under a layer of ocean sediments, which swallows higher frequency more easily, would sound muffled and deep.

Earthquake Sounds Appear before Tremors

The acoustical measurements of the Imperial Valley noises yielded a surprise bonus of a very special kind. Since antiquity, witnesses had always maintained that earthquake noises had appeared several seconds before the tremors. (Even the Italian researcher Luigi Bossi experienced and described this phenomena). According to his observations, aftershocks of the earthquake wave of 1808 in the Piedmont came with and without noises; when noises did appear, they preceded the earthquake by about 2 seconds. If the dramatic descriptions of earthquake noise deserve to be taken with a grain of salt, then the claims that sound preceded the 'quakes deserved even more scepticism. But the measurements from the Imperial Valley confirmed these old reports. The earthquake noise began about 2 seconds before the onset of perceptible earth movements and was already waning as the latter were gaining strength. The explanation turned out to be the simplest one imaginable. The earthquake waves proper (the S waves), which are felt by humans and which oscillate at right angles to their direction of travel, are preceded by the compression waves, whose vibrations, much as those of sound waves, run parallel to their direction of travel. These P waves are

about 70 percent faster than the S waves, and when they arrive at the surface from below, they set the surface vibrating so that it radiates sounds vertically into the air.

The S waves, from the other direction, on the other hand, cannot impel pressure waves into the air. However, if the earthquake waves arrive at the surface at an angle, then only that part of the forces which move the ground at right angles to the surface will have an effect. Thus, people hear the earthquake wave which they cannot feel and feel the wave they cannot hear. Only if an earthquake is stronger than magnitude 3 do the P waves become somewhat perceptible.

After scientists had poked around the secret of the sound-producing P waves for the first time, in 1975, the stories of how country folk recognized the phenomena centuries ago, and had used it prudently to save lives in the last seconds made sense. An observation by Alexander von Humboldt in 1799 in Cumana, Venezuela, supports this view:

‘It is widely believed in Cumana that the most destructive earthquakes are announced by very weak oscillations of the ground and through a howling, and something like that does not escape people who are used to such incidents. In such moments you can hear the cry everywhere: ‘Misericordia! Trembla! Trembla! Trembla!’ (Mercy, it is quaking, it is quaking), and it is rare that a false alarm is set off by a native.⁸

If it is possible to hear an earthquake, it is also possible to ‘hear’ not only its distance, its intensity, and the direction of its source, but also the ground through which the sound travels and the Earth’s surface which transmits it into the air. Water conducts sound much better than rock and also radiates it differently. Its presence gives a different voice to an earthquake.⁹

Physical Effects Above Geological Anomalies

Curiously, one of the author’s own patients who had been aware of unusual visual effects, told me of her feelings at a small village at the end of a valley north of Buckfast, England. She said she and her family

⁸ Alexander von Humboldt, quoted in Bruce Bolt, *Earthshock*, Sphere, 1980.

⁹ H. Tributsch, *op. cit.*

became aggressive when they visited the village and frequently heard a buzz in their ears. The family (staying in the house of a relative) was awakened by knocks on doors when there was no-one there. She and others found certain places extremely cold and in general, although the village was pretty and unspoiled, they felt gloomy and depressed. Her wrist watch also misbehaved when she stayed there.

By sheer chance at a City dinner some years after this, two colleagues were discussing the *genius loci*. One said that as a boy he was at boarding school and when his parents were abroad, he used to stay with a relation in this same village during his holidays. He told me that he always felt cold, angry and 'different' when he stayed there. Now, this could be attributed to missing his family, and natural resentment, except that he made it very clear to his audience that when he stayed with another relation in the North, he found none of these problems.

This village is situated on a sandstone bed 100 ft. deep, in rock which contains many large quartz pebbles. In addition, there are areas of strontianite, a mineral which gives the radioactive ore Strontium, named after the village of Strontian in Scotland, where it was first discovered.

Glencoe, the Glen of Weeping

Many visitors have written of the heavy feeling of gloom and depression when driving through, or walking across, Glencoe in Argyllshire, Scotland. Even if the sun is shining, the feeling of depression is present. It certainly was for Chris when she drove through it *en route* to Mull some years ago. Glencoe is an interesting place, geologically speaking, part of a cauldron fault, or caldera similar to the 1,932 foot deep Crater Lake, Oregon, USA, formed when Mt. Mazama exploded about 4,900 BC. (*Figure 74, page 179*). Below Glen Coe, a cylinder of ancient lava rests on schist rock, the whole bounded by a ring fault. In '*Tertiary Volcanic Districts of Scotland,*' it is stated that the area 'has subsided thousands of feet between the schist walls'.¹⁰ Simultaneously, magma rose up the circular fissure around the cylinder to spread across the surface (imagine dropping a can of fizzy drink into a pot of viscous paint).

The first author recalls how, on several occasions, he walked the ring

¹⁰ J. E. Ritchie, *et al*, *The Tertiary Volcanic District of Scotland*, British Geological Survey, 1987.

of peaks comprising this fault – the path narrows to about 4–5 inches (10 – 12 cms). wide at one point, on the Aonach Eagach (toothed ridge) on the north side, with the Glencoe road far beneath his feet. The only sensible way over is to sit astride the ‘path’ and bounce across, which makes this traverse interesting, albeit a little airy. On the north side are the impressive peaks of Bidean nam Bian, The Buachaille Etive Mor (*page 179*) and an interesting hidden glaciated hanging valley, The Lost Valley, where Rob Roy, the infamous outlaw, hid his cattle.¹¹

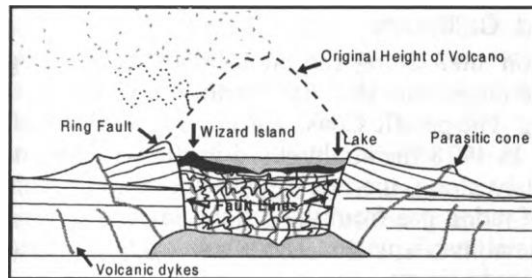


Fig. 74. The caldera of Crater Lake, Oregon. The volcano has expelled its lava and collapsed, forming a ring fault. Subsequently a lake has formed, with Wizard island protruding above the surface.

The feeling of depression is almost palpable, he agrees, and may not be entirely due to the more common theory—the massacre of the MacDonalds on a bitterly cold snowy and windy night. Much more likely it is due to the unusual geological formation.

A friend of his who lived in Jackson, Mississippi, complained of the feelings of tension and heaviness when she stayed there. After reading ‘*Safe as Houses*’ she went to the Geology Office of MS state and found to her amazement that her intuition was correct – Jackson is centred on a volcanic dome of the Cretaceous period. It is about 3000 feet down, approximately 19,000 high and there are also gravitational and magnetic anomalies centred there. She wrote that, when contoured on the map, the latter looks very like a black hole.

¹¹ T. C. Lethbridge, *Ghost and Ghoul*, Routledge & Kegan Paul, 1980.



Fig. 75. Bidean nam Bidean in Glencoe, Argyllshire, part of an ancient volcanic caldera. Following straight ley lines across this type of country is difficult!

Parkfield, California

From 1973 to 1978 new instrumentation sited along the eight-hundred-mile-long crack of the San Andreas Fault told geophysicists that the North-South distances between the instruments were contracting. The Pacific Coast was moving north whilst the rest of America was moving south. In 1978 the strain eased in the far south of California, and as this moved ponderously along, the microquakes common to this area almost disappeared, but the flow of radon gas from the ground increased. This phenomena was followed by a rash of small earthquakes. The whole cycle has been given the name 'seismic ghost' by the geophysicists.

One notable example of this long shake happened in 1992. A 'quake of magnitude 7.5 shocked Landers, California, south and inland of Los Angeles. Just like a dog shaking water off its coat, so the whole of California shook from one end to the other. Also, at Yellowstone, in Wyoming, 110 kms from Landers, the geyser named Echinus, which for years had erupted regularly every 50 minutes, went berserk. This lasted

for 34 hours and then settled down to a regular beat. What is the link? Is it below ground, and were long period ground waves involved?

Every 22 years over recent centuries, a large 'quake has hit little Parkfield, but it is only recently that new technology has enabled the very strong Ultra Low Frequency electromagnetic wavelengths that are now felt to be precursors of 'quakes, can be measured. Professor Antony Fraser-Smith has several times picked up ULF signals prior to a 'quake and he theorizes that as pressure builds on the fault, cracks open up far below the surface and water trapped in the Earth is pushed through them creating a flow of electric currents that produces, in turn, a magnetic field.

Keeping Watch on California

PSINE sounds like a health food, perhaps, but in fact refers to some very interesting work begun in 1998. This is the PARKFIELD (Parkfield Seismic Imaging Ninety Eight Survey), which studies the upper mile of land across the San Andreas Fault in that area. Likewise, PEPE is not a Mexican doll but refers to the Parkfield Earthquake Prediction Experiment. Electromagnetic data have indicated a vertical, $\frac{3}{4}$ mile wide, high conductivity zone southwest of the San Andreas Fault in this area. It has been proposed that drilling right through the fault should be made to sample minerals, fluids and stresses through a cycle of earthquakes.

Right along the SAF system hundreds of sensitive instruments are on watch and listening for the precursors of not only 'The Big One' but the swarms of small 'quakes that precede 'The Big One'. Lasers on both sides of the fault stare at each other on the lookout for the tiniest movements of the Pacific and North American Plates which meet in this area. North-east of Los Angeles lies Palmdale, but did you realize that it is rising? Only minutely, but it sits on what is known in seismology as the Palmdale bulge, a massive area of uplift 130 miles long and is clearly related to the strain of the build-up in underlying rocks.

Take a minute to imagine the power involved. Awesome is a pale word when we think about the totality of the energies involved. You are probably sitting in your chair in a house or flat, as you read this. Now imagine the strength required to push this building from standstill and to overcome the inertia of the structure. Now imagine pushing it one foot, three feet, 8 feet or more. Again imagine the immensity of the power required to uplift the whole city just a foot or so. Then there is the tilting

very often associated with deep Earth movements. Yet again, imagine how much energy is required to tilt your own house or block of flats just a few degrees from its usual flat, live-on-able surface. As in many other parts of the world, California rises, falls, and tilts in its own inimitable fashion, just as it has done for millennia.

The San Andreas and its associated fault systems run right through California starting at the south at Baja California and leaving in the far north at Cape Mendocino where it meets the Gorda Plate and dips out below the sea. This is a true plate boundary, where vast plates move against one another, grinding, sinking, rising with concomitant effects on humans and animals, buildings and water flow.

We may think of these as two rafts floating on the sea, sides together, but one (the Pacific Plate) moves north-east at a rate between a fraction of an inch and one inch a year. The second raft floats southwards equally slowly. This is California, but it is further complicated by the fact that there is a locked zone in a thrust fault under the coast. You will know the phrase 'when push comes to shove', but in deep Earth movements, especially at the plate boundaries the pushing is increasingly steadily with very little shoving in some places, yet the 'push' energies continue to build up. Earthquakes allow some of such energy to be released, allowing the area under strain to be released to a relatively unstrained state, but inevitably more energy from far below accumulates until another 'quake occurs.

Horizontal Fault Under San Francisco Bay

Most of us think of faults as vertical ruptures in the planet's surface, but there are horizontal faults as well. Researchers of the BASIX (Bay Area Seismic Imaging Experiment), have used large 'airguns' to blast pressure waves off the Pacific coast and in San Francisco Bay to be picked up by seismometers. The picture they found was of a horizontal fault deep beneath San Francisco Bay connecting the San Andreas Fault to the Hayward fault of the North American Plate.¹²

Yet another horizontal fault is suspected to be hiding under Los Angeles. John Shaw of Harvard University and Peter Shearer of the Scripps Institution of Oceanography in La Jolla, California, blame the partial rupture of this fault for the 6.0 magnitude Whittier Narrows

¹² San Francisco's Hidden Fault. *Earth News*, May 1994.

'quake in 1977. This fault moves every 500 to 2000 years, unleashing a potentially devastating 'quake of magnitude 7.

Just as archaeologists can dig down and uncover the history of man's settlements over thousands of years, so Paeleoseismologists are digging down to allow us to read ancient – and modern – disturbances. They have learned that there is a cycle to Californian 'quakes from radiocarbon dating of organic remains in the rock strata which occurs at an average interval of 150 years, but can range from 50 to 300 years (Officer and Page. OUP 1993).

The Most Dangerous Volcano in the USA

Where is the most dangerous volcano in the USA? A report from the US Geological Survey quoted in '*Earth*', February, 1997 stated 'Mount Rainier is potentially the most dangerous volcano in the Cascade Range, because of its great height, frequent earthquakes, active hydrothermal system and extensive glacier mantle.' Rising dramatically from sea level to 14,410 feet, Mt. Rainier is crowned with an immense dome of snow and ice. Far below it lies a magma chamber, and if and when the magma flow rises, the dome could melt and surge downhill, or it could simply blow its top, in the manner of Mt. Vesuvius in the Roman period. The ghastly soup of rock, ash, trees, and water is known in Indonesia as a Lahar, a term which has been adopted into modern seismology. The last big disaster in this area of the Cascades was the explosion of Mt. St. Helens – a grim explosion seen by millions on television all over the world. The US National Research Council described this volcanic area as 'inherently unstable' and 'structurally weak' in a report in 1994.¹³

It is no co-incidence that in 1947 Kenneth Arnold, when flying over this area spotted strange lights over the Cascade Mountains which 'skipped like flying saucers' over the area. When the Earth moves, gases are vented and energies of many frequencies are generated. The electrical conductivity of the Earth is likewise affected.

¹³ The Big One Lurking Beneath LA *Scientific American*, March, 1999.

Scotland's Highland Boundary Fault

Near Crieff lies the Highland Boundary Fault which was last active 400 million years ago during the Devonian period when Britain was a hot, sandy desert. Separating the sandstones of Central Scotland and the older and harder rocks of the Highlands, this fault, or more correctly, a subsidiary horizontal fault to the north, occasionally makes itself present in nearby Comrie (the earthquake village) by very minor shocks, a total of 70 in 1789, the most powerful being the 1839, 6 (slight damage) on the MSK (Medvedev Sponheuer/Kamik Intensity Scale).

Shortly after this 'quake the people of Comrie built simple pendulum, mercury and vertical motion seismometers around the village. Another instrument was the 'mallet instrument' housed in a specially made building which still exists in its original form (*Figure 76, page 183*) and consists of crossed wooden battens on the floor with wooden pegs of various sizes and weights standing upright on them – when a 'quake occurred some would fall over on to the sandy floor and give a very rough idea of its intensity. All very well until the caretaker went in one morning to check and found that all the pegs were scattered over the floor (a sheep had entered and knocked them over!) According to the present caretaker of this site, this seismometer still correlates very well with modern seismometers. These early Comrie pioneers were the first to discover the epicentre, the point on the Earth's surface above the focus of the earthquake, which could be determined by the intersection of two or more lines of direction. The 'quakes in the British Isles are usually around 3–6 miles (5–10 kilometres) deep against the 15 to 18 mile deep 'quakes of the USA.¹⁴

Measuring Fault Energy with Divining Rods

At the river Turret near Crieff, the Highland Boundary Fault can be pinpointed to within a few inches, and here I (David) used my divining rod to find the waves which I knew the fault must emit. The wavelength was very short, about 1 mm or less, almost like a seismometer read-out, and were black (unhealthy), and close to 1 foot amplitude (*Figure 77, below*).

¹⁴ Underworld Connections, Harvey Black, *Earth*, August 1988.

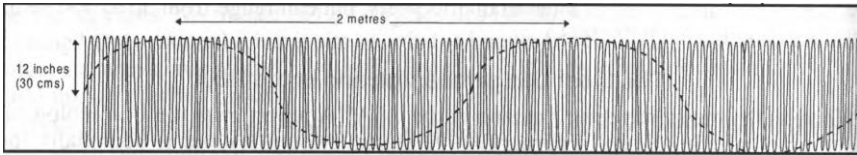


Fig. 77. The Highland Boundary Fault in Scotland emits many closely spaced waves, which looks almost like a seismograph read-out. You can follow one and open it out (dotted line) to enable you to follow the fault line easily.



Fig. 76. The "Earthquake House" in Comrie, Scotland. This is where the world's first seismometers were installed.

The way I measured the wavelength was to find which way they were

traveling and carefully following one, weaving sharply back and forth. Finding it impossible to make any headway, I asked my divining rod to lengthen the wave, and to my surprise the wave gradually opened out to about two metres, enabling me to follow the fault line with ease. Possibly I was tuning into other waves which had been captured by the fault line, or possibly I was interacting with the energy- I have still to find out.

Even when the fault disappeared under the heather, my divining rod unerringly followed it, eventually accurately picking up the trail when it became visible as ridges and 150 foot cliffs pushed up over the millennia – quite fascinating. Lumps of blackened and highly fragmented rock marked the path of this interesting trail until I came to a remote country house perched unerringly on top of the fault. What happens to the health of this family living on such a highly energetic part of the Earth' crust I still have to find out. Further on, a mile to the east of Comrie, the mounds of lavas which personalize this fault dive under the wet alluvial plain, and the stream of energy, hitherto focused into a 20–30 yard wide stream directly above the fault, fans out at an angle of approximately 45 degrees on each side, due to the high water table in this valley.

The most interesting point about this fault is the fact that it passes directly under (and focuses into) the cup-marked stone at Connachan Farm, something which took me over twenty years to discover! A waterfall caused by the fault a mile to the east of this stone was a visual clue, and another waterfall in line four miles to the west, like Peris wands, adds weight to this discovery, which should surely give the concept of natural Earth energies powering ley lines some credibility.

This almost dead fault is of no comparison to the SAF, of course, but it will, I am sure, pay researchers in North America and elsewhere to use divining rods to follow faults and to see if there are any health risks or even precursors of earthquake energy which might give warning.

Earthquake Sensitives

I have a friend here in Scotland who can accurately predict 'quakes by how he feels. Many years ago, he discovered that he became very ill when he was in some specific areas which he eventually discovered were on or at the end of faults. At home in Lockerbie on the Scottish/English border he feels progressively more ill as the days pass until the planet's energy is released, when he has a few days of normal health until the next build-up of the Earth's energies. He can predict when the 'quake will

strike and how large, but unfortunately not where. Obviously there is some form of energy which is released which can be felt by a few people who are sensitized to them. There are many instances of animals giving forewarning of 'quakes by their unusual antics, so there is absolutely no reason why some humans are not sensitized to them.

Lava Dykes

There are numerous lava dykes (swarms) across Scotland, which encouraged me to find the emitted energies from one, near Crieff. The waves running its length are 90 inches wavelength (228 cms) and amplitude 11 inches (28 cms). This dyke, some 80 feet high is highly fragmented with much unhealthy energy emitted through the cracks, again another unhealthy place to live.

CHAPTER NINETEEN

Ball Lightning and Earth Lights

Unidentified Aerial Phenomena

'It is useful to be assured that the heavings of the Earth are not the work of angry deities. These phenomena have causes of their own.'

SENECA, THE ROMAN ORATOR AND WRITER

Natural ball lightning, or Balls of Light (BoL) are some of the most mysterious manifestations of nature. They can be as small as a pea or larger than a house, can glide silently and disinterestedly past an observer, or brush affectionately past their ankles. They may circuit rooms and factories and hover around aircraft, entering the fuselage or vanishing silently, or in a puff of smoke. They can waft through doors and windows without causing any harm, or break trees into thousands of splinters. They seem to favour the month of July, and areas of natural Earth disturbances. Sometimes animals are terrorized by them and at other times are quite nonchalant. Sometimes they strike and kill humans, but mainly no effects are felt. They may be brilliantly coloured, opaque, or translucent, like bubbles. Their movements in the dark resemble ghostly incense censers being swung

Some of the properties of BoL are as follows:

Time:

Of 100 reports taken at random, 26 were in July, 25 in August, with very few in the other ten months.

Place:

BoLs may be seen outdoors, indoors, or transiting the two.

Colours:

Pale yellow, yellow, red, orange, pink, white, grey, silver, ruby red, bright green, blue, pale-blue-green.

Appearance:

Dazzling, brilliant, transparent, opaque, translucent, blinding.

Size:

inches (7–30 cm); 2–3 feet (0.6-0.9 metres); 8 inches (20 cm); 10 feet (3 metres); ‘the size of a tennis ball, an egg, a billiard ball, a football, a large orange, a fist, a bus.’

Shape features:

Ball has ‘white, well-defined bands’; ‘stick crystals’, blue halo; ‘writhing strings of light’; ‘aerial bubbles,’ ‘transparent, like immense soap bubbles’.

Smell:

‘Ozone’, ‘stench of sulphur’, ‘odour of electrical discharge’.

Sound:

‘Silent,’ ‘like a rifle shot’; ‘hissing’; ‘swishing,’ ‘pop’, ‘terrible noise’; ‘like heavy rain pounding’. (The fact that not all reports mention all of the above features may be a reflection of the report, the printer, or lack of noting by the observer).

It is notoriously difficult to judge size and distance when out of doors, especially in flat, open fields with no clear frame of reference – is the BoL near you? A hundred yards away? The bouncing behaviour, however, runs through very many reports, as does the apparent and, some think, the human-like affinity for people. BoL’s can curl around people’s legs, circle their cars, go around and round a group of people, then pass through walls and windows without leaving a trace . . .

There are two factors which can give clues to this strange phenomenon. One is the fact that in almost all of the following reports a thunderstorm has just happened, or is still happening. Secondly, and especially in the Australian reports, the aurora is mentioned. This is a display of glowing light in the night sky, mainly in regions near the Earth’s magnetic north and south poles. The aurora borealis (the northern lights) is most spectacular in Canada, Alaska and northern Scandinavia, while the aurora australis (southern lights) is at its best in Antarctica. The moving, shimmering glow may resemble clouds, arches, or draperies of red, yellow, or green.

Auroras are probably produced when streams of charged particles

(mainly electrons and photons) from the sun collide with molecules of nitrogen and oxygen in the atmosphere, around 60 or more miles (100 kilometres) above the Earth. The charged particles are trapped by the Earth's magnetic field and guided towards its strongest area, the north and south magnetic poles. The orange glow of a neon sign is produced in much the same way, by the collision of molecules of neon gas with electrons supplied by an electric current.

The categories of BoL are as follows:

- Ordinary: cases are typical in size, colour, structure, duration
- Repeating
- Forced entry: where BoL penetrates screens, windows, aircraft fuselages, etc.
- Giant: luminous spheres larger than 1 yard
- Rayed: luminous spheres with spikes, knobs, ray-like protuberances
- Aerial bubbles: floating dimly-luminous spheres which appear transparent
- Bizarre shapes: *e.g.* ribbons, columns.

Australian Min Min Lights

The Min Min lights in Australia certainly come into the category of Earth Lights. In her excellent book *The Mystery of the Min Min Lights*, Maureen Kozicka has assembled and carefully documented many hundreds of reports, both ancient and modern, analysed and mapped them. Several points are worthy of special note: in Australia they have never been known to harm any person or animal, although on occasions the animals have shown great fear, but this is by no means general. A curious fact is that, when first seen in the distance, on many occasions the light has been taken for a shining lantern swinging as if held by a walking man.

Sightings of dome-shaped lights in the air close to earthquake epicentres have been reported for centuries. These rise from both the ground itself and from the sea. Associated with these lights, peculiar electrical effects may also occur, such as radio and television anomalies, compass disturbances, etc. The latter probably relates to the magnetic fields associated with all electrical energy. Erickson, an American geophysicist, states that such lights are due to friction at the fault face

heating up a thin strip of surrounding rock which vaporizes the water, forming an insulating barrier around the slipped section of the fault itself. The rock shear and water vaporization then generates an electrical field which discharges vertically into the atmosphere as sheet lightning.¹

Many explanations have been proposed, including plasma spheres, anti-matter meteorites, cosmic radiation, etc. It is relevant that Prof. Sir Basil Schonland, of the Institute for Geophysical Research at Witwatersrand University, S.A., in his book *Flight of the Thunderbolts* devotes six pages to verified reports of BoL's.² He quotes diameters from half an inch to 6 feet (25 mm to 1.9 metres) and duration of visibility from a few seconds to several minutes. Rate of travel varies from a walking pace to a running pace.

In *The Lightning Book* the physicist professor Veimeister states there must be a non-nuclear non-chemical process that feeds energy to a BoL if its long life is to be explained. He points out that as they float, and are not in contact with a conductor, the energy must be from absorption of intense radio waves or electromagnetic radiation. Hallways and chimneys would act as wave guides (perhaps also aircraft fuselages).

Struck Dead at Dinner Table

There have been many reports of BoL's over the centuries. In Sir Robert Atkyns' *History of Gloucestershire* there is a report of one at Little Sodbury Manor which 'rolled in at the parlour door at dinnertime as a fiery sulphurous globe. It struck one dead at the table and caused the death of the rest.'

In London in 1773 a case is reported by Rev. Wainhouse of Steeple Ashton in Wiltshire of 'a ball of fire between them at face level, the size of a sixpenny loaf, surrounded with dark smoke.' When it burst, it filled the room with a disagreeable smell, resembling sulphur, vitriol and other minerals. The Rev. Pitcairn, the other man in the room, said he saw 'a great quantity of fire of different colours vibrating swiftly, both backwards and forwards.'

According to Camille Flammarion, a French astronomer, in 1897 at Linguy, a couple were sleeping in their beds when ball lightning entered their bedroom from the chimney and passed over their beds, before

¹ J Erickson, *Volcanoes and Earthquakes* McGraw Hill U.S. (1988).

² Prof. Sir Basil Schonland, *Taming of the Thunderbolts*, Oxford University Press, 1964).

squeezing through a partition and entering the adjoining dairy. It carried a whole row of milk cans from one side of the dairy to the other, breaking the lids, but without spilling a single drop. It also broke four plates out of a pile of twelve, knocked off the tap of a wine barrel, tore bricks out of one wall and embedded them in the opposite wall, and shattered all the windows to fragments except for a mirror which was flung from the wall and left on edge on the floor.³

BoL Enters House in Highlands

A retired Glasgow policeman relates a previously unpublished story of ball lightning when he was living at Torchuillin, a cottage overlooking Loch Duich in the Scottish Highlands. In 1963, he and his family were sitting in the cottage watching the wildfire as a storm brewed up. Suddenly, in the darkness and gathering storm he noticed a ball of light wandering aimlessly across the loch. He watched with interest for some time, thinking initially that it was ‘those daft Mac . . .’s fishing for salmon (!)’ until it approached the house, still wandering in a haphazard fashion, and then, some distance away, steadied itself and came directly up the shore, straight to the house.

He got the impression that it had somehow sensed something in the house, which it entered via a small window. In typical Highland fashion, as soon as the storm started, they had opened all of the windows of the house to give free access, (and more importantly, departure!) to this phenomena. The BoL entered the house, spluttering furiously and smelling ‘like a car battery being charged’ (ozone). It went across the room to his invalid mother, sitting in her wheelchair, wearing a steel calliper on her leg, bounced against the lower part of the calliper, then ‘evaporated’ as it hit the stone-flagged floor.⁴

RAF Launch Damaged

Not many people have witnessed ball lightning, but Robert Brydon of Edinburgh has witnessed the occurrence no less than three times! The first was when he was serving in the RAF at the Skipsey air/sea bombing

³ Cammille Flammarion. *Thunder and Lightning*. Chatto and Windus.

⁴ Personal correspondence from Bob Brydon, Edinburgh.

range during the time of the Korean war. He was on a high-speed launch, monitoring the strikes from Meteors and Vampires against ground targets. It was during February, around 1300 hrs., with low cast cloud, a light wind from shore, with a slight swell. Between the launch and about 1½ miles from shore there appeared an orange ball. It zigzagged towards them, at first 50–60 ft. up, then came down to 5–6 feet, half a mile from them, and on a collision course with the RAF launch. The officials on the shore had also seen the strange sight, and were extremely agitated, while the crew of the launch discussed what on Earth it could be. About 20 yards away, travelling very slowly, now about 10 ft. above the swell, and 10 feet in diameter, it looked like a bright orange sun, hissing and still ominously heading towards the launch. Aware that it was about to collide, Bob looked around for the crew, only to find that they had already disappeared down the hatch, and threw himself under the engine casing.

Everything happened very quickly after that. There was a loud scream from the radio cabin, and the radio operator came rushing out, headphones still on, with the plug disengaged. Then the radio mast and gear collapsed on to the deck, he felt an electrical shock and felt strange. Whether the ball had passed through the launch or had hopped over the top, he is still, to this day, unable to tell, but the object was now on the other side of the launch, gyrating as it landed on the water. Then there was an enormous ear-splitting explosion without any blast – he believes it is more correct to say an implosion – and the launch jumped in the water. When the launch travelled the few yards to the site, all that was left was a strange oily slick on the water, and vapour still hanging in the air.

Two Bolides Over Edinburgh

Early in 1958 he was on the scene of yet another incident. He was sitting in a vehicle at Dreghorn Barracks in Edinburgh, on a day of low cloud when the sky darkened. There was a bright flash, and from the clouds two bolides, orange spheres with tiny dark centres, slowly floated down. Then came a loud bang, slates were lifted from the nearby roofs, and the vehicle he was in, like the launch years before, jumped in the air, as if the Earth itself had suddenly heaved. Soldiers, believing the ammunition store had exploded, were running around in all directions.

A few years later, in 1970, he was living in Corstorphine, outside Edinburgh, overlooking the Pentland Hills. Now interested in this

phenomena, and carefully watching thunderclouds for any further incident, he was rewarded with another sighting, when an orange ball floated down, hit a tree which ignited, and then bounced. The bouncing effect he had observed before, and he got the impression that these BoLs had little or no mass.⁵

Theories

Current theories for BoLs are many and varied – and none seems to cover all the known facts. Careful perusal of these theories, however, indicates to the writer that one possible contributory factor may be highly relevant and this is not covered in any theory as yet. This is the contribution in a stochastic fashion of seismic waves which are known to (a) bounce along the ground at varying distances (wavelengths) as noted in the previous reports from Bob Brydon of Edinburgh; (b) be polarized either horizontally, vertically, elliptically or in circular mode; (c) cover a wide waveband; (d) have nodes and anti-nodes (standing waves, which can show all electric or all magnetic areas).

Certainly, of all of the sites in the UK where BoLs have appeared, almost all are over known faults as detailed by the British Geological Survey. Further research would be needed to form an opinion on other sites world-wide. Sagely, Maureen Kozicka, in her analysis of the thousands of BoLs (Min Min Lights to Australians) has drawn attention to the nearby presence of dams, streams and boreholes as well as the rocks in the areas where lights are seen: granite, basalt, porphyry, etc. In the highly mineralized area of Queensland where the Min Min lights are common, and have been for centuries, there rises Mt. Isa, with its very many old mines, and the whole area lies astride the Great Artesian Basin, a great water sump for the Australian economy.

The main theories for BoLs are as follows:

1. Complex hydrodynamic forces in conjunction with electrical fields, with temperature gradients. BoL's act as if repelled by the Earth and well-earthed objects.
2. May be total electrical charge, excess charge being dissipated by aerosol droplets surrounding the ball.
3. Prof. Veimeister's theory (as a Russian physicist and Nobel prize

⁵ Ibid.

winner, his views must be taken seriously): the ground and clouds act as partially reflecting surfaces for long wavelength radio waves produced by ordinary lightning discharge, thus standing waves can be created and the electromagnetic field trapped between clouds and the ground. At the positions of maximum amplitudes (antinodes) the field strength could be great enough to ionize the air and produce a glowing ball. Energy would be fed into the ball continually from the wave created and the electromagnetic field trapped between clouds and the ground.

4. Dr. T. Ashby and Dr. C. Whitehead wrote in *Nature*, describing the possibility of micrometeors as antimatter, and Gamma ray bursts from electron-positron annihilation events in the atmosphere.⁶
5. Prof. V. M. Batenin in *Superhighfrequency Generators of Plasma* describes mechanisms of discharges and plasma formations when superhighfrequencies and DC electric fields (as that of the Earth) are combined. This theory looks at molecular gases. The air pressures cited in his work range from 100Pa to normal atmospheric pressure.
6. Dr. G. Egely and his team at the Hungarian Academy of Sciences have been investigating BoL's for several years. They have collected over 300 reports and have proposed a four-dimensional model to account for the highly anomalous nature in energy, momentum, and charge transport propagation. They feel that the BoL's have negative charge and very high internal energy density.
7. Dr. D. J. Turner has put forward an approximate thermodynamic model, reconciling the best features of earlier models, whilst avoiding the conflicts with the basic laws of physics which bedevilled other theories. Central to his model is a thermodynamic prediction that a hot air plasma can be held down against buoyancy in wet air. Electrostatic repulsion can explain why BoL's fall from cloud bases and are therefore heavier than air.
8. James Dinniss and John Abrahamson proposed a theory that BoL's were the result of the oxidation of silicon nanoparticles in the atmosphere following a lightning strike.

⁶ T. Ashby and C. Whitehead, *Nature*, 230:180, 1971.

**A Selection from Thousands of Reported Cases of Balls of Light to
show Their Variations**

Month	Year	Outdoor/ Indoor	Colour	Size	Thunderstorm?
-	1556	O/I	Fiery sulphur ball	-	Yes
July	1665	O	Grey	-	Yes
-	1749	O/I	-	-	-
-	1843	I	Bright and shining	9" (23 cm)	Yes
-	1845	O	-	Billiard balls	-
July	1868	O	-	3" (8 cm)	-
August	1868	O	Bright red	2-3" (5-8)	-
-	1870	O	-	6" (15 cm)	-
September	1880	O	-	-	-
July	1892	O	-	-	-
July	1893	I	-	-	-
April	1894	O	Ribbon of dazzling light	-	Yes
July	1897	O/I	White, brilliant	Egg-sized	-
Summer	1911	O/I	Bright green	-	-
July	1921	I	Various colours	Like aerial bubbles	-
August	1921	O/I	Very bright, translucent	-	-
August	1921	O/I	Light green, crimson, light blue	20 cm	Yes
August 1925	1925	O	Brilliant red	12" (30 cm)	-
July	1929	O/I	Orange	-	-
-	1938	I	-	-	-
July	1952	O/I	Bright reddish	Size of fist	Yes
-	1958	-	-	-	-
Summer	1958	-	-	-	-
Summer	1958	O	Yellowish	0,4m-1,2m	Yes
June*	1978	I	Red	-	-
July*	1979	I	-	-	-

*Same woman hit by BoL in same house one year apart.

People and Objects, Their Size and Colours

Comments	Place
BoL rolled in through door – 8 people killed.	Chipping Sodbury, UK.
Killed one person, burned others.	Norfolk, UK.
Burned clothing, rolled along floor, killed one woman – all her bones were broken (muscular spasm?)	Ireland.
Came down chimney, played around feet of man, rolled around and went back up chimney.	France.
Brigantine ‘Victor’ at sea. 3 BoL ascended.	Mediterranean.
Excavated a 10 foot long trench in ground.	Guildford.
Bounced down mountain, buried itself in bank of stream. 20 foot peat ring turned up onto bank. Floated with undulating motion, getting smaller with each bounce.	Glendown mountain, Ireland.
Travelled several miles! (Royal Met. Soc. report).	Pyrenees.
Fell into pond, killing over 100 fish.	Hendon, UK.
Fell into lake, column of water 60 foot high visible.	Liverpool, UK.
A dark space fringed with crimson appeared in kitchen, then burst.	Epping, UK.
Great damage to barn.	Dunstable, UK.
Danced in the air, ‘like rooks at play’ entered barn, floated upstairs, exploded in bedroom. Sulphurous smell. Paint flew off wall.	Suffolk, UK.
Floated indoors then out again – exploded.	Newport, Isle of Wight, UK.
A large number of very bright BoLs emerged from air inlet of large stove with small wood fire burning.	Grindelwald, Switzerland.
Dropped through open window, rolled along floor, protrusion ‘like Andromeda nebula’ (i.e. spiral), exploded with smell of ozone.	Bavaria.
Entered through window, crossed floor, flew up iron part of tiled stove, left deep groove.	Bohenschaft, Bav.
Travelled along road 100 yards, hissed, exploded.	Yarmouth, Isle of Wight.
Door of slaughterhouse flew open. BoL enters room and left by another door.	Morecambe, Lancs. UK.
BOAC aircraft in flight in rain at 8000 ft. BoL entered cabin and burst with	BOAC aircraft.

resounding bang. A few minutes later, a second one, thru' cockpit burned pilot's eyebrows and hair. Exploded in rear cabin.	
Floated into house through CLOSED window glass, circuited room, burst, odour of electrical discharge.	UK
Taking bath when BoL came thru window, hit man in bathtub. Red mark on leg, and arm where they touched metal tub.	Kansas
Two descended from sky to telephone poles, exploded and changed to blue-white colour.	Cheektowaga, USA
Struck oak tree, rolled off, making buzzing sound, moved on to chain link fence in back yard, accelerated, then hopped succeeding chain fences for about two blocks, then blew large hole in house.	Florida
BoL hit woman on chest, fell to floor.	Midi, France
Rolled along into living room.	

Month	Year	I/Out-doors	Colour	Size	Thunderstorm?
Summer	1977	I	Red	-	-
April	1974	O	Black	18 inches diameter	Yes
March	1963	-	-	20 cms	Yes
Summer	1974/5	I	Blue	18 inches	Yes
September	1981	-	Dazzling white	Large orange	Yes
Spring	1984	-	-	-	Yes
May	1985	O/I	Orange	Table tennis ball	Yes
Nov	1987	O	Bluish with red, yellow highlights	9"	Yes
October	1989	O	Silver	-	Yes
June	1991	I	Yellow/orange/red	10"	Yes
September	1991	O	-	8 mm	-
August	1992	O	White with blue halo	Football size	No

July	1994	I	Opaque, reddish-gold	Car tyre	Yes
October	1994	O	-	Like beach balls	-
February	1995	O	Transparent, but with white well-defined hands	30 cm	Yes
-	1995	O	Blue-green centre with green-blue lines to centre	Three foot circle	-
Summer	1995	O	Yellow-orange	-	-
June	1996	O/I	Blue-white	-	Yes

Comment	Location
Whilst speaking on 'phone, heard crack 'like a rifle', hissing, and 'phone came alive in my hand'. BoL hit her chest and fell to floor.	Haymaked, Virginia.
Black ball fell from a forming tornado, straight down, landed on tree, exploded and split tree.	Joplin, Mo.
In-flight NY-Washington. BoL left pilot's cabin and passed down central aisle of aircraft.	US aircraft in flight.
Travelled down hall, made 'S' curve, exited thru' open window. Gave the appearance of dozens of stick crystals, 5 mm in length.	FT Leavenworth Kansa: Berkhampstead, Berks.
Struck boy, blew shirt off him and burned his internal organs.	Western lower Michigan.
All plugs blown out of wall, hole 8 × 10 × 4 cms deep in wall by plug. Hit girl, a red 5-pointed star burn appeared on her shoulder.	Garton on the Wolds.
BoL seen by oil refinery storage tank. After 5 secs exploded loudly. Shape changed from sphere to spheroid.	Tulsa, Oklahoma.
Seemed to be within ribbon of light. Shot across road with swishing sound, exploded, shook ground and butcher's shop.	Dalwinning, Glasgow.
Entered through back door, hovered some seconds, vanished with loud 'pop', smell of ozone.	Houston, Texas.
A mass of mist, looked 'very wet', rolled towards man. Sound like 'heavy rain pounding'. Clearly visible. Then BoL 'just vanished'.	Winchester, UK.
Struck oak tree, split bark, showered wood over 50 yards, rolled down tree and dispersed in flashes.	Conway, Wales
BoL entered through open window. A shaft of light entered and formed Itself into a white ball which	South Ley, Witney, Oxon.

bounced up and exploded with 'a 'terrible noise'.	
Many BoLs flew up out of the river into the sky and out of sight. An annual spectacle for years, always at the same time, full moon, Duration 30 minutes.	Mekong River, Thailand.
BoL rolled off road 20 ft. Below car. Rear of car jumped. No damage.	M23 near Crawley, UK.
Sonic boom, wall started shaking. Then four transformers blew in 40 minutes. Then noticed he had small burn with three geometrical perfect marks on his stomach.	U.S.A.
Loud bang, several BoLs bouncing down transformer pole, hit sidewalk. Clearwater, Florida Bounced along it until out of sight, then turned and bounced back slowly in single line formation. Seemed to show awareness.	Clearwater, Florida.
Forks of lightning hit a grounded USAF jet's tail. Immediately after this a BoL bounded along the roof of a factory into the building, through an up-and-over door, and flew along the girders, lighting them with 'unbelievable sparks.' Seen by 40 people.	Tewkesbury, Glos., UK.

BoL's can form at the end of a stepped leader (the series of jumps and steps taken by lightning as it approached the ground). Turner believes that electrostatic forces are repulsive as long as the ball is floating 3 feet (1 metre) or so above the Earth, but some effects may involve ion motion, with temperature and humidity gradients. It is possible that BoL's are stable only over a limited range of water vapour pressures, or partial pressure gradients. In fact, a 'window' effect is postulated in other electromagnetic researches.

Professor Ohtsuki of Waseda University, Tokyo, and his colleague, Professor Ofureton of the Tokyo College of Aeronautical Engineering were reported to have produced many types of plasma discharge, using a magnetron (a microwave oscillator) and an air-filled waveguide.⁷ The microwaves were reflected up and down the cavity, setting up standing waves with six antinodes, points at which the field intensity was strongest. Amongst phenomena produced were fireballs and moving flames. The plasma fire colour varied from red to orange, was observed to pass through a solid ceramic board, and exhibited the ability to travel along the waveguide against a strong wind blown into the cavity.

⁷ *Nature*, 350:139.

Essential to a plasma is what is known as the boundary condition, that is to say, a wall, or magnetic ‘bottle’ or containment within which the plasma can form and circulate. We are familiar with plasmas in fluorescent lights and neon tubes, where the ionized gas produces brilliant light. Plasmas can also form naturally, given the right circumstances, and it is possible that BoL’s are generated when natural currents, air pressure, humidity and the geomagnetic field, all come together at one point in space. In the case of higher, apparently compressed, saucer-like plasmas, radar ducting (waves flowing along a defined channel) may be of direct relevance to the observed phenomena.

Phenomena Over Airfields

This is not the place to go into this possibility, but of the hundreds of reports of visual phenomena in the UK surely it has been noted that great numbers are above or near airports, both civil and military. The invisible (to humans), but not to a radar beam, ducts of pulsed radio frequency energy in the atmosphere, which can extend for many miles and may be line-of-sight, as an aircraft approach beacon, or oscillating fan-wise as with other systems, will energize the molecules in the air they traverse to some extent. If, in their near horizontal travel, they meet and interact with a natural ionized column from a fault, thrust or underground stream, what complex anomalies may be produced? Also, what of the vertical ascent from the ground of a lightning streamer?

Lightning is essentially a discharge of electrical energy. A violent stroke of lightning produces a powerful electro-hydrodynamic flow of charged particles. As ordinary lightning approaches the ground, in a stepped leader, positively charged streamers arise from the ground, trees, or tall buildings to meet it. When such a streamer contacts the ionized leader, the electrons along the leader channel flow downwards, thus the path of the electron flow goes ever upwards and the discharge between the two is called the return stroke. This powerful surge generates photons, hence the bright flash we see in lightning storms. A typical discharge can be between 10 and 100 million volts, and up to 300,000 Amps of current (consider that in most ordinary household appliances in the UK the power is only 220–250 volts and 110 volts in America).

It is now thought that BoLs may all be electrically charged, with the excess charge being spread about the aerosol particles which surround the ball – many reports describe this ‘halo’ of luminance, and also an

associated spinning motion. This spin would then create a magnetic field which would draw the charges together at the equator of the spin.

'Islands' Floating in 'Near-Earth' Space – a Newly Discovered Natural Phenomenon

In the 1980's and 1990's observations from Russian satellites found large-scale, non-linear phenomena in the topside ionosphere which lies from 185 to 60 miles (300 – 100 kilometres) above the Earth and, circulating as it does around and over the Earth, may be considered as relevant to Earth Energy.

The lifetime of these 'new' geophysical objects is about one hour and they are able to influence radio signals in different frequency bands. As Prof. Kalinan states 'it should be remembered that the motion of these ionization islands can increase the instability of transionospheric UHF signals by several orders of magnitude'.

These vast bodies have similarity of shape function at differing heights. Vertical size is one of the criteria for identifying them as they are some 185 miles (300 kms) in height. As is known, there is always a threshold sensitivity for any method of detection of localized objects. Using complex mathematical analysis, these rotating objects are said to be 'statistically infrequent, but not exceptional events.'

The theory that Russian scientists put forward is that 'the surrounding medium (the topside ionosphere) produces a substance from which the isolated large-scale non-uniformities are created.' Interestingly, they have found no link between emergence of these islands and the geophysical indices for solar and magnetic activity.

If we consider gas clouds in the ionosphere, a number of chemical reactions at high altitudes are known to take place. If we further consider the ionization of gas as chromatic (having colour) changes will occur.

Interestingly, the Russian work indicates that these 'plasma islands in space' above the Earth travel at approximately the speed of sound. Also that the axis of the line of travel is directed along the lines of force of the Earth's magnetic field. The shape described is remarkably like that of the typical UFO. Is it possible that a similar but stochastic effect will occur far closer to the surface of the Earth when random events combine to produce an ionized gas plasma? Coloured lights, a domed top, radio interference and extremely rapid travel are reported in these events.

Again, the fact that so many are reported near military bases world-wide, and power stations, may be just coincidence.⁸

Earthlights – Natural Sources

Earthlights have been seen since time immemorial in all countries of the world. They can take many forms and colours, from floating figures which appear to have no heads, to great glowing spinning tops like that photographed at Banbury. They may be green, or white, or scintillating with many colours, and they may take the shape of vertical aerial columns which descend to the ground.



Fig. 78. Ball of light over Banbury at 19.50 hrs on 4th February, 1995. (©Brian James Creail, Oxon).

We have become used to considering light as the visible spectrum, that which can be seen and measured with photometers, but in the last 100 years the ionizing radiations beyond the visible spectrum have been studied by scientists with the discovery of X-rays, gamma rays, beta rays, etc. In ionizing radiations, the wavelengths are billions to the metre, whereas at the lower end of the non-ionizing radiations, radio frequencies beat at thousands or tens of thousands a second (Kilohertz or Megahertz) and extremely low frequency waves (ELF) run from 1 Hz. per second and below, to 300 Hertz (1 Hz means 1 beat per second). It is relevant that our brain waves also cover the ELF end of the spectrum.

⁸ Yuri Kalinin and A. A. Romanchuk *Large Scale Isolated Islands of Ionization in Near Earth Space*, Cosmic Research 33:4 (1995), Institute of Applied Geophysics, Moscow.

It is important to note that lights apparently in the sky may in fact be endogenous effects from stimulation of the brain, *e.g.* the visual cortex, temporal lobes, retina, etc. If the perceiver projects these into the surrounding space they will be reported as external phenomena which may explain why sometimes in a group of people, only one or two people will ‘see’ something. Magneto-phosphenes (tiny brilliant, flashing lights) are another example of this.

Nature has many tricks up her sleeve in relation to Earth Lights and luminous phenomena. The following list describes the major sources, which range from crystallography and geology, to electricity, biology, chemistry and acoustics.

When studying Earth Lights it is wise, again, to first start by looking at the ground and type of rock found in the area, then address the geological fault system in the area, and here in the UK the British Geological Survey at Keyworth in Nottinghamshire and Edinburgh have available very detailed analyses of every area in the UK, covering geophysics, geology, seismology, mineral deposits, water, etc.:

Here are some sources:

- Triboelectricity
- Piezo-electricity
- Sono-acoustic electricity
- Chemical: *e.g.* sulphur, phosphorous
- Outgassing – ignition
- Outgassing – ionization
- Electrical – St. Elmo’s fire
- Lightning.
- Balls of Light.
- Biological – Lycopodium. Fireflies, glow worms.
- Bacteria, fungal skin infections.
- Fractoluminescence.

Some of the most important are:

Fractoluminescence:

Recent work by Professor Kawaguchi of Hiroshima, Japan, has added a new explanation for some Earth lights. They can be due to the fact that when silica (quartz is a form of silica) fractures in stressed rocks, light is

emitted a millionth of a second after the silica starts to fracture, starting as a red glow (650 nm) and 10 milliseconds later turning blue. This is a brilliant but very short event and is quite different to rock fracture due to thermal causes, where charged particles also emit light. Indeed, Kawaguchi is to experiment with granite, which has a high quartz content to ascertain whether this might be relevant to warnings of imminent earthquakes. Work at the Chugoki National Research Institute at Hiroshima continues.

Triboelectricity:

The concept of tribo-electricity is vital to the understanding of Earth lights. This is the electric charge generated by friction between higher and lower valence materials.

Triboluminescence:

This is the glow given off by some crystalline materials when they are crushed. It occurs in a wide range of materials. A very simple example is the tiny flashes of light which you can see if someone near you in a darkened room crunches mint sweets between their teeth.

Flashes will only occur in crystals if they contain certain impurities and when the crystals do not have rotational symmetry, that is to say the flash occurs when the positive and negative charges in the crystal recombine. Crystals without rotational symmetry are piezoelectric, and when they are stressed, for instance by grinding or under extreme pressure, a voltage is generated across them. If the crystal fractures, the parting surfaces carry opposite charges, positive and negative, and these charges can then recombine. The resulting electrical discharge then excites molecules of gas such as nitrogen, which then emits energy as fluorescence.

Rarely, some crystals, despite having no rotational symmetry, do not exhibit triboluminescence and this may be due to very high conductivity which allows the separated charges to leak away, rather than to recombine and emit light.

There is an interesting experiment which can be carried out at home, or in lecture halls, providing the room is completely dark. Take two large crystals, one amethyst and one quartz, for example, and, holding one in each hand, rub them briskly together. After a few seconds a cold glow will illuminate the crystals and your hands. This is not the hot glow of friction, but triboelectricity in action. This experiment is a miniscule example of what occurs when rocks are under strain. The area of strain

may run for hundreds of miles and may be from either deep Earth movements or man-made, as in new hydro-electric reservoirs where millions of gallons of water are dammed, and exert enormous pressure.

Triboluminescence, then, may be responsible for such anomalous lights as those seen at Stokesay Castle in Shropshire on several occasions during 1997 and 1998.

Forewarning of Earthquakes

Earthquake precursors also involve electrical effects in the earth. There are three main precursors to deep earth movements:

1. Radon gas increases
2. Soil conductivity increases
3. Water table rises.
3. As ground currents of electricity are mainly carried by ions moving in porous waters, the rising water table must then affect natural electrical currents.⁹

Piezoelectricity

In rocks with a piezoelectric coefficient like quartz, 500 – 5000 v/cm has been measured. At half the seismic wavelength the generated voltage is 5×10^6 v, which is equivalent to the voltage responsible for lightning in storms, which can reach from 10,000 v/m to 100,000 v/m. There will be electrical precursors to earthquakes due to changes in rock stresses near the foci. There are many reports of sudden lightning and storms when archaeologists move standing stones and excavate stone-age barrows, etc., and it is possible that such local stress shifts trigger this mechanism.

There are reports of enhanced luminosity of rocks, especially chalk, during earthquakes, and electrical storms, an effect which is reported to be strongest over buried ore bodies, e.g. ironstone bands and magnetite. It was first recorded in Germany in 1747 and more recently in North America. At Shide in the Isle of Wight, UK, after dull, damp, days, a very large chalk pit was known to exhibit a flaring luminosity. In 1911 Dr. John Milne, a famous geophysicist, reported photographic proof of this

⁹ J. Milson *Field Geophysics*, Oxford University Press (1989).

effect. He used a slowly rotating cylinder lined with photographic paper in a dark chamber at the end of a tunnel deep in the chalk pit. On developing the paper there were three faint dark bands and it was suggested at the time that the effect was electrical. The explanation is probably electrochemical.¹⁰

The interaction of mechanical and electrical stress-strain varies in a medium. Compression of a quartz crystal or Rochelle salt generates an electrostatic voltage across it, and conversely, application of an electric field to the crystal may cause it to expand or contract in certain directions. Piezoelectricity is only possible in crystals which do *not* possess a centre of symmetry. Quartz has a natural resonant frequency (as does everything else under the sun) and if the ambient field is made to alternate with the same frequency, the crystal will respond with a vigorous resonant vibration. This may explain why some people, especially if they have sensitized their bodies by learning to dowse, or have had a severe electric shock or lightning strike at some point in their lives, experience such a marked reaction when touching certain outcrops of rock, standing stones, and many other structures of the megalithic age.

Luminescence

A property of certain minerals, it is caused by the change into light rays of various kinds of energy (e.g. thermal, luminous, electrical, chemical, and mechanical). In mineralogy the most important is photoluminescence originating after some minerals have been exposed to ultraviolet light of a wavelength of 253.7 or 336 nanometres. It occurs only when the mineral contains a trace amount of an activator, usually manganese, copper, lead, silver, uranium, elements of rare earths, water molecules, etc. Since only some specimens of the same mineral may usually produce coloured luminescence, it cannot be used as a reliable clue in mineral identification.

Quartz Sandwich, Anyone?

Quartz under pressure or strain, then, exhibits many effects, some at

¹⁰ J. Milne, *Earthquakes and Luminous Phenomenon*, Nature, 87:16 (1911).

least of which must have been known by our predecessors, but became lost until rediscovered in scientific laboratories during the 16th – 20th centuries. The alchemy of the earlier centuries was itself transmuted into science at this time, and as the cracks of knowledge widened, so researchers such as Paul Lavoisier, Michael Faraday, Hans Oersted, and many others, opened up and utilized the vast powers locked up in nature.

In 1917, Paul Langevin, who for many years assisted the Curies in their laboratory work on radium, explored a particular feature of piezoelectric crystals – the fact that under pressure they emit an electrical charge. He produced what came to be known as the Langevin Sandwich, a layer of quartz trapped between two layers of steel.

Zapping the quartz with an electric charge made it change shape regularly, thus causing it to resonate. When placed in the hull of a ship, for instance, the outer steel layer transmitted a powerful undulating signal into the water (in early water tank experiments, many fish were killed). When the signal hit any solid object, a submarine, shoal of fish, or reef, for instance, the echo bounced back, creating vibrations in the steel plate. This caused the quartz signal in the sandwich to resonate, setting up an electrical charge which produced a ‘ping’. Thus was born sonar, used to locate underwater objects.

Again we see this sandwich effect in domes and tumuli was understood, at least in practical terms by our ancestors. The ancient Chinese used quartz in a more artistic sense – it was crushed and added to pigment for painting, and the crystals, like little diamonds gave a wonderful illumination to pictures.

Pillars of Light

An electronics engineer gave us a very clear written description of a light phenomenon which was associated with a visible and long duration oscillation on an overhead telephone cable. In Kinross, Perthshire, on a summer evening, about 10 p.m., they saw ‘five strange vertical pillars’ alternating in and out of their vision. They were smoky grey, about 18 feet in height and 12 inches in diameter by his estimation. They appeared to be ‘emerging and receding’ in a full cycle of 30 seconds from being very faint to developing full capacity. Whilst this was going on, the multicore telephone cable which was strung on nearby telephone poles was seen to be vibrating markedly, although there was no wind. Especially curious was the fact that the only section of the long line of

cable to act in this manner was close to the vertical columns, the others being quite still.

There are many reports of a different form of ‘pillars of light’, vertical shafts of light known as ‘sun pillars’, in atmospheric science. Just as sunlight or moonlight can refract or bend through ice crystals as through a prism, it will also reflect off crystals. As the tiny plate-like ice crystals fall to the ground when the sun is setting or when the moon is low in the sky, light will be reflected from each crystal. These columns of light will mirror the colour of the sunrise or sunset, appearing to be red, orange, or yellow. They can sometimes be seen even when the sun is below the horizon. On cold winter nights when the air is full of ice crystals, even lights from distant street lamps can give rise to light pillars.¹¹

All around us people are seeing strange things: lights, flashes, columns which have been traditionally looked upon as being supernatural. They were looked at in the light of specific belief systems, but when looked at in relation to geophysics, deep Earth movements, and the marvellous works of Nature, whilst our terror at the unexpected may decrease, our profound awe at the marvels of Nature can only increase.

¹¹ Personal correspondence from James Weatherspoon, Glenrothes.

BIBLIOGRAPHY:

Specialist authors and research bodies have studied and analysed BoL, and the interested reader is recommended to the following:

Dr. J. D. Barry Ball lightning and Bead Lightning, Plenum Press, New York, 1980

W. Corliss, Lightning, Auroras, Nocturnal Lights. Sourcebook Project, U.S.A.

P. Davies, Fireball, Heinemann, 1987

Dr. T. Meaden, Journal of Meteorology, U.K.

Prof. Paul Fireball, Heinemann 1987. U.K.

D. Elson, TORRO, Geography Unit, Oxford Brooked University, Ox. 30
Bp Prof. Katipza, Russian Academy of Sciences, Moscow.

Prof. Singer The Nature of Ball Lightning. Plenum Press, N.Y. 1971

Dr. J. D. Barry Ball Lightning and Bead Lightning. Plenum Press, N.Y. 1980.

Sir Basil Schonland The Flight of the Thunderbolts, Clarendon Press, Oxford, 1964

P. Veimeister, The Lightning Book, MIT Press, 1961.

CHAPTER TWENTY

Earth Gases and Volcanic Tubes

Spontaneous Combustion and Strange Mud Springs

‘Once the question can be properly framed, the answer is never very far away’.

PROFESSOR JEAN AUBOUIN,
GEOLOGY; PRINCIPLES AND METHODS (METHUEN, 1990)

North Sea gas comes to us, domestically, at the touch of a switch in the home. It is, so to speak, always there. We shall, however, give a little thought to its origin, as it is, indeed, a most ancient form of Earth Energy.

The Earth’s natural gases are to be found in pockets deep within the planet. These can be released by earthquakes, volcanoes and can even themselves be the source of disturbances. Dr. Thomas Gold of the Astronomy Department at Cornell University calls these zones ‘Pore Space Domains’. They become unstable at a certain depth, whereupon the upper pockets will collapse and release gas (outgas) along the crustal faults and fissures.

Gas can be associated with petroleum, although some oil fields have very little gas and some gas fields yield no commercial quantities of oil. Chemically, natural gas is a mixture of the lighter chemicals found in petroleum: methane, butane, propane with carbon dioxide, hydrogen sulphide and helium. Most gases are odourless, but some smell of sulphur, garlic or rotten eggs.

Gases can escape from rotting vegetation – some council tips in the landscape have an eerie plume of flame at night burning off the methane and other gases produced from the decay of rubbish. Gases in artesian basins are mixtures of several other gases and are probably a contributory factor to the strange Min Min lights in Queensland, Australia. A

particular combination of humidity (or lack of it), air pressure, gas and rock types, combine on occasions to throw one form of Balls of Light into the near-Earth atmosphere.

Janet Bord relates the story of a smoking tree near Cowes on the Isle of Wight, UK. Firemen were called over a period of three days, but could find no cause. Bord hypothesizes that it could have been gas, not smoke coming from the tree and also cites trees in the Ozark mountains in the USA which were found to be emitting gas from areas near the roots which burned with a yellow flame if ignited.¹

At the time of writing, sulphur dioxide is outgassing from Paracutin (Mexico City) volcano at the prodigious rate of some 25,000 tonnes per day.² The link between the vast pancake of pollution which hangs over Mexico City and visual phenomena increasingly being reported as lights in the sky may well relate to a stochastic combination of deep Earth movements from the nearby volcano and ionized gases from the same source, added to the exhaust fumes from thousands of vehicles.

Spontaneous Combustion

A rare example of outgassing is by spontaneous combustion. In 1560, for example, a coalbed ignited spontaneously in the north-west area of Xinjiang, China. This was reported by Reuters to have been finally extinguished on November 1997, 437 years later.

Coal mines in the Pennsylvania Appalachians in the USA are still burning today after 31 years. In 1962 rubbish dumped in the abandoned anthracite mines of Centralia caught fire and ignited the coal. The fire defied all attempts to subdue or contain it, and spread throughout the workings under the town. Most of the 1,000 residents moved out after Federal support, but a stubborn handful remain, even though it is possible to cook hot dogs in the flames that gush out of the ground.³

Another case was that of a large iron ore open-cast mine at Mount Newman, Australia, in 1986, where workers were amazed to witness the quarry face, they had just exposed glowing red, starting to smoke, then spontaneously catching fire. Since the rock, which had a high sulphur content, was of no commercial value, it had to be loaded into trucks and

¹ J. Bord, *Mysterious modern Mysteries of Britain*. Guild, 1967).

² Simon Lamb and David Sington, *Earth Story*, BBC Books, 1998.

³ John Cowie, Crieff, former truck driver.

dumped elsewhere,⁴ and in another case in the UK at Ringstead Bay in Dorset, in 1826, the shale spontaneously ignited and burned for four years. The area came to be known as the Burning Cliffs.⁵



Fig. 79: This giant excavator uses its 30-ton capacity grab to load burning sulphurous rock in an iron ore mine at Mount Newman, Australia, into trucks for disposal.

Gases from Wells and Faults

Outgassing from wells can explain some phenomena. For example, at Bath, gas is periodically vented naturally from the wells deep below the city. Of these gases, some 10 ccs per litre are noble gases, and of these 1.6 cc per litre is helium. This gas, just like spring waters, will take its easiest route to the surface, running along discontinuities between strata.

In the Szechuan Province of China, in an area called the Black Bamboo Ravine, (Heizugou) for centuries both animals and people have vanished. In 1995 two interesting features were reported in this valley. Firstly, the rotting plants in the ravine were emitting toxic gases

⁴ *Daily Mail*, 11 June 1993.

⁵ R. V. Melville *The Hampshire Basin*, British Regional Geology, HMSO, 1982.

suffocating people whereupon they fell into the abyss. In addition, the magnetic field is very strong, although measurements were not given, and are considered likely to disable compasses and cause plane crashes. There is a similar valley in Java known as The Poisoned Valley.⁶

There are very many reports of places where nothing ever grows. This may apply where lightning has struck the Earth, but it would be interesting to check ambient gases at these sites. A good sniff first might be a good pointer. Both yeasts and fungi feed on escaping hydrocarbons – this too, might be a clue.

Another example of outgassing is at Lastingham church crypt in North Yorkshire. The crypt is very simple, being built right into the hillside. Author Philip Heselton described how his friend, when visiting the church, felt such powerful energies in the Crypt that she was unable to speak.⁷ Heselton also experienced this sensation, but in a less pronounced form:

It was as if the energies within my brain and body were reacting to the energies within the crypt and a flowing, pulsing feeling of warmth came over me. I was unwilling to move for many minutes as I experienced the power present in that place. After perhaps 10–15 minutes the feeling faded, although I did not wish to speak and made my way outside.⁸

We have here a very clear description of the phrase struck dumb. Next Heselton took Paul Screeton to the crypt. ‘He got a buzzing feeling and thought the place quite extraordinary’.⁹

Lastingham is located on a deep ironstone band which runs from Rosewell Abbey, miles to the north. Lastingham is also known to affect compasses strongly, indicative of a high magnetic field.

The Delphic oracle is the *genius loci* par excellence. Joseph Fontenrose, who spent many years working at Delphi, quotes the phrases used by classical authors to describe the effects produced on people at the Temple of Delphi: *pneuma enthousiastika* (to be inspired), *spiritus* (a breathing) and *atmos entheos* (possessed by a God). Several authors dismissed the possibility of outgassing here, as no fault was visible over

⁶ *World Press Review*, July, 1995, p. 27.

⁷ Philip Heselton, *Earth Mysteries*, Element Books, 1995.

⁸ *Ibid.*

⁹ *Ibid.*

the years. However, very recent work by Dr. Jelle de Boer, a geologist from Wesleyan University in Connecticut, has uncovered evidence that corroborates the reports of such writers as Plutarch, who wrote that the exhalations of the Earth came from a chasm below the temple where the Pythia sat to prophesy. De Boer found an active fault to the east and west of the temple, only recently exposed by road works. He also found another fault running north to south which intersects this one, below the temple. He reported to a recent meeting of the Geological Society in London that the two faults produce fissures in the rock which can open and close with earthquake movements.

Of special interest is the fact that far below the surface lies limestone rock which is rich in hydrocarbons. Such rock strata can release trapped gases including ethylene, methane, and hydrogen sulphide, which travel to the surface through the fissures. If we then add in the extremely low frequency waves in active fault zones, which are in the same frequency bands as natural brain waves, we have a potent mixture with the ability to bring on hallucinations and affect emotions, and just as effective to-day as it was then.

Phenomena and Faults

The following chart shows the scientifically recorded wavelengths due to distant Earth movements. It is not necessary for the movements to be under the area where phenomena manifest, as several factors will affect perceptions, including whether or not the area is on sand, rock, and at the end of, or in the middle of a fault, as well as the depth and strike (angle) of the disturbances and last, but not least, the mindset of the individual.

<i>Natural Earth Waves, Known as Body Waves: Types and Wavelengths</i> Type of Wave	<i>Description</i>	<i>Hertz</i>
P (Primary or push)	Longitudinal compression sound waves – acoustic.	1–20
S (Secondary/ Shake/shear)*	Polarized at 90 degrees to the direction of propagation.	1–100
SH(Horizontal)	The horizontal component of S waves; particles will oscillate on the horizontal plane.	1–100

SV(Vertical)	The vertical component of S waves; particles will oscillate on the vertical plane.	1–100
L or Q (Love or Querwellen) Cross waves)	Particles will vibrate transverse to the direction of travel, but there is no vertical component. Propagated in a medium with a reflecting surface and equivalent to SH waves reflected up and down within layers of the Earth's crust, <i>e.g.</i> , rock/air. The British geophysicist Augustus Love calculated in the nineteenth century that as earthquakes send up-and down ripples shuddering through the mantle, a secondary set of side-to-side vibrations should propagate through the relatively thin crust.	0.3–1
(Rayleigh)	These are elliptical waves and are described in the vertical plane to the direction of propagation. Their movement may be described as 'push-pull-up-and-down' in a retrograde ellipse.	0.7–2.5
(Hydrodynamic)	A type of wave first seen after the A-bomb test in New Mexico on 16 July, 1945.	
C (Coupled)	An interference effect linked to controlled explosions.	
Stoneleigh	Guided waves of special condition.	100–500
Guided	Found when constraining channels (mines wells, etc). act as waveguides. Also coal seams, boreholes, interfaces of dissimilar strata. Typically propagate over 328 feet (100 metres).	
Standing	Interference pattern where plane waves of the same frequency, amplitude, wavelength and speed, but travelling in opposite directions, meet at one point in space. A standing wave will form with nodes and anti-nodes.	
Seismic	Waves from an earthquake or explosion. High-magnitude events generate waves which travel through and around the Earth.	
SR (Schumann Resonance) SES (Seismic Electrical Signals)	Low-frequency standing waves in a global circuit, bounded by the Earth and the ionosphere. These occur as precursors to earthquakes, where telluric currents are disturbed and ground resistivity is altered.	7–50
Body waves from the Earth	These are elastic waves (the term 'elastic' here means that both wavelengths and amplitude will be time-varying), thus can vary over quite short periods.	
Lightning flashes (100 per second, globally)	Constantly excite SR waves – like a hammer hitting a bell – so amplitude of SR is dependent on incidence of lightning.	

* waves will not traverse fluids.

Read now the comments made in 1716 by the Rev. Samuel Wesley and his family after disturbances at Epworth in Lincolnshire, and then check his remarks with those in the chart:

The Rev. Wesley wrote:

‘the door in the yard, the latch whereof was often lifted and the door pushed violently [with] sounds as if several people were walking over our heads. The sounds were as if somebody had emptied a bag of money at my feet, as if all the bottles under the stairs had been dashed into a thousand pieces. Perhaps most telling of all is . . . a noise like the winding up of a jack.’¹⁰

In Colline, Kirkcudbright, Scotland, in 1695 at a house owned by a certain Andrew Mackie which had long been considered by the local people to be haunted, a variety of effects were seen and reported not only by one cleric, the Rev. Alexander Telfair, Minister of the Parish, but also by the Ministers of Kells, Borg, Carmichael, Parton, and Ketta parishes, the Laird of Colline and the Laird of Millhouse. Amongst the phenomena, which began in February, and ended in May, were metal objects which were hurled about, sparks were seen (static discharges?), cattle panicked and escaped their sheds, men were pulled off their feet and metal pothooks and hangers swung of their own volition. It is noted that one outbuilding in particular was affected. It would be interesting to know whether any metal ore body or magnetite was below the ground on this site, now marked as a ruin on the OS map.

Remembering that some of the farm workers at Colline were pulled off their feet in 1695, it is interesting to read of the very similar disturbances in 1971 in a military village in Northern Brazil. Here, brooms leaning against walls spun, flew and fell, bottles with soft drink in them shook and vibrated against the walls of houses, an armchair turned itself over and a bucket of water rolled downstairs. Many people in the village said they ‘felt a strong punch in our backs’.¹¹ As noted earlier, the sensation of a punch on the back or shoulder will result if the ulnar nerve is stimulated by an external magnetic source, which can occur as a surge when Earth energy is high.

¹⁰ Rev. Samuel Wesley, 1716.

¹¹ *Journal of the Society of Scientific Psychical Research*, 58–828.



Fig. 80: 'About 100 figures of men, all holding flaming torches, dancing back and forth across the road.' This took place on Mersley Downs, which is situated above an active fault. (See page 208).

Figures Dancing, Holding Torches

The following report shows both the visual and behavioural effects very clearly. It comes from a GP and his wife on the Isle of Wight in 1969. We should first remember that Mersley is situated over an active fault and Newport is on the traverse fault which runs across the island.

Dr. G. (A pseudonym) and his wife were driving from St. Helens to Niton via Ashley Down late one summers evening. On reaching the hilltop at Mersley Down they saw ahead of them hundreds of orange lights in the fields below, stretching towards Havenfield. They knew this route well and that this was a place of pasture and open fields. Trying to explain the lights, the doctor became, as he says, very irritated as he could find no rational explanation. The more so, when, as if by a switch,

all the lights went out at the same time, leaving the fields in darkness.

Puzzled, the couple drove on towards Mersley. At the right-hand turn to Mersley, off the main road where they knew fields stretched across to Newport, they again saw hundreds of lights, but this time they also saw, 'figures dancing, holding torches'. So far, so good, except that one figure danced through the car bonnet and vanished! At the same time, (and this is highly significant), the doctors wife became aware of a strong sense of evil and extreme depression. There were about 100 figures of men, all holding flaming torches, dancing back and forth across the road. At the Hare and Hounds public house all the lights and figures suddenly vanished, only their car lights lighting the dark country road (*Figure 70, page 207*).

However, all the foregoing becomes explicable when we realize that Mersley is on a band which is on a most unusual horizontal fault across the Isle of Wight. This fault band is quite narrow, but the GP and his wife were, in fact, driving along it, thus we may have a completely rational explanation for the microwave-generated lights and the spinning gaseous forms, helixes. Of course, the electrical discharge at the highest point of the gaseous form is the electrical current discharging into the air, St. Elmo's fire, in other words.

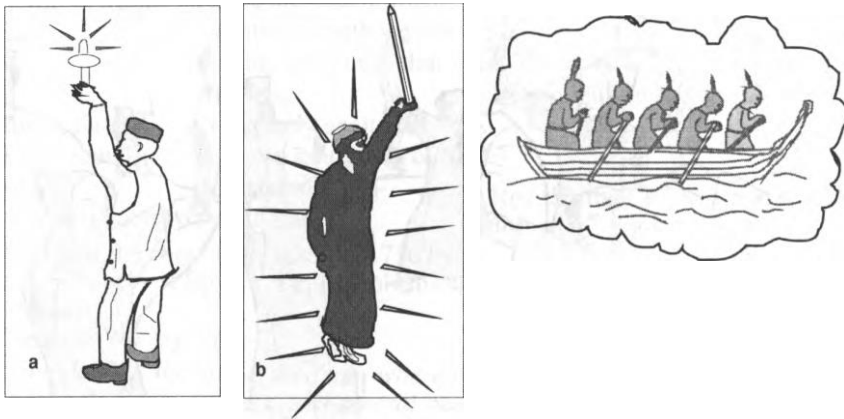


Fig. 81. Ghostly figures caused by Earth movements from the past –
a: Himalayan foothills – small figure holding lantern above his head.
b: in 1620 'a radiant figure' holding a golden sword was observed above the tomb of Mohammed.
c: In 1886 ghostly rowers were seen in the mist on Lake Tarawera in New Zealand. Later the same day great seismic disturbances occurred, and the level of the lake rose by many feet.

The Smell of Madonna Lilies'

To illustrate the linkage between phenomena and mysterious perceptions, here are further examples from the Isle of Wight, in the 20th century and from Epworth Rectory in 1716 and from Eggardon Hill in 1675.

The following is related by Alasdair Alpin MacGregor, drawing on personal reports from Lady Marjory Leslie, who lived at the much haunted Billingham Manor for a while:

. . . the following night Lady Leslie was awakened by a commotion in the next bedroom and hall. It sounded as though furniture was being hurled around. She slammed home the bolt on her door, and as she did so there was a blow on the outside of it, followed by a sound like a sword being drawn from its scabbard. The next morning not a stick of furniture was out of place and all the doors and windows were secure. Later that week the children's nanny had the latch of her door lifted, saw chairs she had put against the door pushed aside, and heard what seemed to be the thud of a falling body, at which point the air was filled with the heavy scent of Madonna lilies . . .¹²

This perfume has often been smelled in the house at Billingham by visitors over the years. In 1949 again, the sound of furniture or other heavy articles being moved in the middle of the night was heard by a housekeeper.

Magnetism

At Newport on the Isle of Wight, in the early spring of 1976, work was proceeding on converting a Texas DIY store, known to be an eerie place at night, to a larger unit. Workmen reported doors opening and closing when no-one was to be seen and footsteps walking when no-one was there. When the new floor was laid, a vast sheet of polythene moved oddly in a manner which could not be explained by draughts . . . more as if an unseen entity were walking across it.¹³

¹² Alasdair Alpin MacGregor *The Ghost Book*, Robert Hale, 1955.

¹³ Gay Baldwin and Ray Anker, *Ghosts of the Isle of Wight*, 1977.

At 4 a.m., in the presence of two workmen and a policeman, an unused hose pipe lying on the floor suddenly rose from the ground and leaped around. As the manager Raymond Pearson said at the time. 'modern hose pipes are by definition flexible and around the polymer inner tube there is metallic mesh to give sufficient firmness to the pipe itself. We do not know what type of metal the mesh was, but if it was a metal which reacted to a strong magnetic field, as most do, (apart from Mumetal), this could account for the phenomena, just as the scaffolding leapt about at Exeter. There are probably many other examples of this anomalous behaviour but the hard hats are not likely to chat about them too much.

Eggardon Barrow

In 1675, Dr. William Sydenham, an early barrow digger wrote to his uncle in London to tell him that as he had been excavating a barrow (an early burial mound) on Eggardon Hill with his team of workmen, he came across a hole, deep in the earth, perfectly like an oven, curiously shaped around yet extremely hot to the touch.

If we exclude the possibility that he had stumbled across a 17th century cremation, we are left with the possibility that the barrow was acting like a battery and generating a current, or alternatively, a capacitor, capable of storing energy. Barrows date from about 5000 years ago, so it is unlikely that any fire lit in the year 2500 BC would still be hot! If the barrow had been built over a seismic source which emitted infra-red or geothermal energy, however, then the trap of that barrow, comprised perhaps of earth, flint, organic and inorganic matter would emit thermal energy.

Sea Lights

In recent years many reports from mariners and aircraft pilots have been made of lights apparently emitted from the sea. This sea light phenomenon has been closely monitored by William Corliss, a scientist in Maryland, who has collected, collated, and analysed hundreds of journal reports.

In water, sound waves (acoustic energy as from deep Earth

movements over faults, undersea volcanoes, etc). can create gas bubbles which both heat up and emit light as they collapse, a phenomenon called sonoluminescence. The more pressure in the bubbles, the hotter they become. However, depending on the type of gas in the bubble, this heat is variable (for example bubbles of oxygen or nitrogen do not get hot). This is now thought to be due to the fact that oxygen and nitrogen turn into free radicals and react with the water.

Mud Spring Swallows Animals

At Wootton Bassett in Wiltshire, there is a curious mud spring. This has, over decades, swallowed animals and lorry loads of rubbish, all vanishing forever. Surprisingly, many shells and fossil ammonites are welling up from the spring. Neville Hollingworth, of the UK Natural Environment Research Council is quoted in *The Times* of 2nd May, 1996 as saying it is like a fossil conveyor belt bringing up fluids from the clay layers below, and then washing them out in the nearby stream. In 1974, when this was first observed, Wessex Water workmen were clearing a channel in a small stream called Hancock Water, which was obstructed by a grey, heavy clay. When they dug this away, grey liquid mud spouted out a foot into the air, at a rate of 14 pints a second. The mud gushed in pulses, bringing up with it, sticks, stones, fossils, cow bones, and some artificially sharpened stakes, in an area 100 by 50 feet (30 by 15 metres).

Outgassing has been called the murderous vapour, due to its ability to first render unconscious, and then kill, small animals. One report by the Abbe de St. Non related his stay in Italy between 1759 and 1761. At the Cave of the Dog, near Naples, at Lake Agnano, he was shown how at 10 inches (25 cm) above the floor of the cave, spiders and dogs first became comatose and then died unless removed from the site within two minutes. No dog, however, could withstand more than a few demonstrations by the Lazzarone, before they died.

Treacle Mines in America

‘Treacle mines’ is the collective name for a rare phenomenon, where tar and pitch seep from the Earth and can form their own wells. Historically, this was brewed into medicine and pastes for skin

conditions.

One place where this happens is at Pendle Hill, Sobden, in Lancashire. Another is 3 miles (5 kilometres) west of Winder on the farm of Phil Chandler, in Georgia, USA, where there is a mysterious site of ancient terror known as the Nodoroc. The former director of the Barrow County Historical Society, Fred Ingram, said 'It's real dangerous, if you step off in some parts of that soupy mess, you're gone'. It was a sinister place, with a reputation amongst the American Indians in the area as a burning lake of fire. Few signs remain to-day, but the area was once a bubbling cauldron, a mud volcano from which a steady stream of foul gases ignited into a plume of black smoke which was visible for miles, according to the many accounts from settlers and Creek Indians inhabiting the area in the late 1700's. Over the intervening years the Nodoroc slowly declined in intensity, until one day in the 1800's it blew up in an awesome explosion of mud and heat which was visible for miles, according to the many accounts from settlers and Creek Indians inhabiting the area in the late 1700's.

There are also treacle mines or Pitch Lakes in Trinidad and Venezuela, whilst in California there are asphalt pits. A gloomy pool in Trinidad covers 109 acres (45 hectares) and its slimy contents plummet to 271 feet (82 metres) in depth. The surface of the lake is solid enough to walk upon, although it occasionally bubbles and plops as sulphurated gas forces its way out. The lake has been quarried for its contents for over 100 years, but the asphalt soon oozes back into any trench that has been dug and fills it in again. Interestingly, like the UK site at Wootten Bassett, sea fossils and shells come to the surface. The use of this pitch for caulking ships was described by Sir Walter Raleigh in 1595. He wrote:

At this point called Terra de Brea or Piche, there is that abundance of stone pitch that all the shippes of the worlde may be therewith laden from thence, and we made triall of it in trimming our shippes to be most excellent good and melteth not in the sunne as Pitche of Norway.¹⁴

A similar phenomenon can be found at oil creek, near Titusville in Pennsylvania. Along its banks are hundreds of shallow pits some 4 to 6 feet deep and between 20 to 35 feet across. When it rains the pits fill with

¹⁴ Sir Walter Raleigh.

water and oils seeps in also, floating on the surface. Recent carbon dating by Dr. Erv Taylor at UCLA Riverside has established that one of the wooden stakes dug out of one of the pits was cut between 1415 – 1440, long before the European settlers arrived, and also well before the area was settled by the Seneca Indians. It is now thought that even earlier Native American tribes used the oil they obtained from these pits for heating and medicinal purposes, but further investigations are ongoing.

Gases and Other Forms of Light

Gases, when ionized by whatever means, have the most interesting property of changing colour. So, a puff of gas from a cemetery (caused by the decay of bodies), a well, or a fault, can, under certain circumstances, appear as a swaying column of green or white. This could explain why at least some ghostly figures seldom have heads, and why they tend to vanish at the same place over a period of time. If the fissure in the Earth which allows the gas to escape vertically ends at, say, a rock face, or stream, then the travel of the gas column is spatially limited. More gases are as follows:

Nitrogen, when subjected to electrical discharges (Earth currents), is elevated to a metastable state and will produce a soft white glow which can be visible for some time after the discharge of gas has been terminated. This is called activated nitrogen and will readily combine with other atoms, whereas ordinary nitrogen does not. When it combines with hydrogen it forms ammonia, and when it combines with oxygen, nitric oxide (NO). Below 15 degrees centigrade it will unite with other gases to form nitrobenzene, an oily substance with a strong odour of bitter almonds.

Artesian Gas can be trapped in artesian basins. It is a mixture of several gases in varying percentages, with methane being the most common.

Compounds of carbon (C) and Hydrogen (H), called hydrocarbons (e.g. methane CH₄ and Ethane C₂H₆) burn. Other gases do not. These are mainly nitrogen, carbon dioxide and hydrogen sulphide.

Any gas rising to the surface would tend to rise vertically, unless deflected by an impenetrable geological layer. The gas from springs and boreholes that can be smelled as rotten eggs is hydrogen sulphide (H₂S) but this does not burn, although hydrogen phosphide (phosphine) is found

in some artesian gas. The smell is of garlic. Phosphate deposits below ground can emit phosphene.¹⁵

Bombarding water with ultrasound creates air bubbles (cavitation); as already mentioned, this is called sonoluminescence. Under certain conditions these bubbles will collapse and emit photons of light as flashes. Visible (photon) energy can be generated from frequency change of acoustic energy. Neodymium isotopes are found in certain rocks and when subjected to a certain frequency will generate laser-like beams of light.

Lycopodium

This is a fine powder formed by the ripe spores of this species, a genus of the perennial plant, club moss. In the last century its luminous properties made it useful for stage lighting and surprisingly, the moss itself as an absorbent of blood and fluids in surgery.

Lightning Bugs

On very rare occasions, fireflies have been known to flash in unison, causing a strange sheet of transient illumination over a large area. In 1904 A. H. Allard observed this near Oxford, Massachusetts after a heavy thunderstorm. As he wrote, 'from time to time, as if moved by a common impulse, great numbers would flash closely in unison over the entire field, so that an extensive sheet of tiny points of light would gleam upon the vision for a moment, then vanish'.

A colleague saw such a firefly display in Boxmoor, (Herts) when a young boy, and so vivid was this that he has never forgotten it.

Luminous Bacteria

Luminous bacteria live on fish and marine animals – when fish and whales are swarming there can be a bright glow from these mobile

¹⁵ A. R. Gray, Senior Geologist, Minerals and Energy Centre, Brisbane, in *Mystery of the Min Min Lights*, M. Kozicka, 1994.

luminous areas. They are not only interesting from the point of underwater luminescence, however. Now they have a new and useful property: in the US Naval Research Laboratory in Washington DC, recent work has found that when pollutants are present in water, whether chemical, pesticide residue, or heavy metals such as zinc, copper, cobalts, etc., the bacteria glow is much fainter. Thus they have a new role for the environment as biosensors.

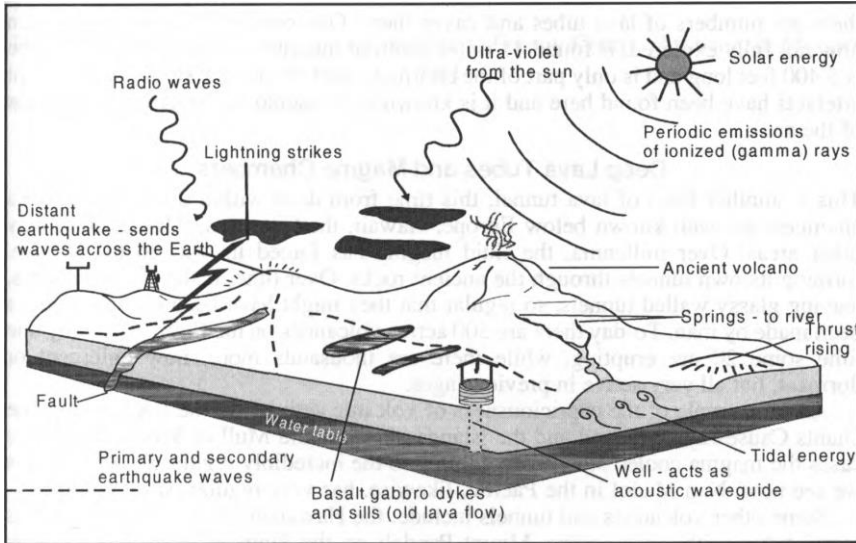


Fig. 82. Natural Earth energies.

Volcanic Tunnels with Glassy Walls

In cultures world-wide there are stories of tunnels far below the ground which lead to the dwellings of monsters of various types. In Greece, there are the Echidna; in Europe, the ogres and dragons; in Scandinavia the trolls, and in Japan, more dragons.

By repute, these dwell in the centre of the Earth and often send vast rumbling sounds and ghastly smells ahead of their visitations to the upper world, together with smoke and fire (in folk-lore smoke and fire pour from the mouth and nostrils of the dragon).

In Hawaii, some parts of the United States, Italy, South America, and Japan, we read of tunnels with walls of glass. The well-known Swiss author Eric von Däniken once wrote that these tunnels, which in fact can

extend for many miles below ground, were so perfectly made that they could not have been made by human hands.¹⁶

Indeed not, but these tunnels are both completely natural and of very great antiquity, in the order of 4 billion years – and nature is still working on them. In Iceland and Hawaii, to quote just two areas, where the volcanoes are still very active, new tunnels/lava outlets are still being developed. In geology these are known as Thurston Lava Tubes, and in the United States, rather affectionately as Firehose Entries, due to their regular shape (if you saw Harrison Ford as Indiana Jones in the film *Raiders of The Lost Ark* running frantically down a tunnel to escape the vast stone ball hurtling after him, you have some idea of a lava tube).

The walls, indeed, are glassy, due to the vitrification of the basalt by the extreme heat from upwelling magma. This emanates from the liquid magma bubbling away miles below ground in areas of volcanic activity.

The state of Oregon in the United States is covered by vast sheets of lava and there are numbers of lava tubes and caves there. One open to the public, yet even now not fully explored, is found 11 miles south of the town of Bend. The main tube is 5,400 feet long and is only part of the enormous underground system. Very ancient artefacts have been found here and it is known to be sacred to the native Americans of the area.

Deep Lava Tubes and Magma Chambers

This is another form of lava tunnel, this time from deep within the Earth. Magma chambers are well-known below Europe, Hawaii, the Cascades, Alaska, and many other areas. Over millennia, the fluid magma has forced its way to the surface, forming its own tunnels through the ancient rocks. Over time, it shrinks and erodes, leaving glassy walled tunnels, so regular that they might have been thought to have been made by man. To-day there are 500 active volcanoes on the Earth and at any one time some 20 are erupting, while there are thousands more, now quiescent or dormant, but all very active in previous ages.

As an example of the capriciousness of volcanic activity, in the UK we have the Giants Causeway in Ireland and the islands of Staffa and Mull in Scotland. In these cases, the magma cooled slowly, evolving into the incredibly regular basalt columns we see now. Nan Madol in the Pacific, likewise, has very regular basalt columns.

¹⁶ Erich von Däniken, *Gold of the Gods*.

Some other volcanoes and tunnels include: the Hawaiian island chain, which has round tubes with glassy sides; Mount Pendeli on the Plain of Marathon, Greece; Mount Argathi, in the Himalayas; tunnels reputed to be 65 miles long running to the coast of Peru; tunnels alleged to run 900 miles from Cuzco, the Incan capital, to Bolivia; vast caves called Loltan in the Mayan area of the Yucatan Peninsula; Mt. Etna, Sicily: the summit of which is sinking after a magma chamber emptied in 1997; Mt. Vesuvius, Bay of Naples, Italy; Vulcano, off the west coast of Italy, reputedly the home of the God Vulcan; the Lacher Sea, Mendig, north-west of Frankfurt, Germany, where gases are still bubbling up; Yellowstone Park, USA; the Ape Cave, 12,810 feet long, south of Seattle. USA; Mt. Shasta, California, USA.

CHAPTER TWENTY-ONE

Crop Circles and Chladni Patterns

Chaotic Systems and Natural Patterns

'No-one who has studied the faces of Nature can doubt that the world about us is a manifestation of something very clever indeed'

PROFESSOR PAUL DAVIES,
THE FORCE OF NATURE
(CAMBRIDGE UNIVERSITY PRESS, 1979)

Some years ago, I (Chris Arnold) saw what appeared, at a rapid count, to be some 80–90 large black birds sitting in a circle on the ground in a field near Thame, Oxfordshire. It was not possible to tell whether they were rooks or ravens, but it was certainly an astonishing sight to witness. Later, reading about this phenomenon, called 'The Parliament of the Birds' it was realized that it was not so very unusual, but that this behaviour had been witnessed by many others. The reason for the circular sitting is not known, but in all reported cases the birds sit facing the centre of the circle, in the middle of which sits another bird.

I was told of another incident of the same type by a friend who witnessed many cows walking slowly round and round in a field at Arbor Low in Derbyshire. Interestingly, my friend said that she had felt sick and panicky, and she knew she had to get away from the area quickly.¹

Sheep circling slowly in a field have also been seen at Lockerbie on two occasions² and a further two cases were published by Mr. M. Belcher, who wrote: to Dr. Meaden:

Out on an afternoon drive Mr Belcher and his wife parked their car

¹ Personal correspondence to Chris Arnold.

² Ibid.

near the trigonometric survey point on Baildon Moor, near Leeds, Yorkshire, at approximately 14.30 GMT, facing north-east.

‘Look at that circle of sheep in the field!’ Said Mrs. Belcher. In the distance 100 or so sheep were in a circular formation, each animal more or less equidistant from the next. As Mr. Belcher wrote:

At the north end of the field some 20 or 30 cows were standing, grazing and chewing cud in the usual haphazard manner. The circular formation of these sheep was so unusual that I thought I was looking at bales of hay set out in the field by the farmer. Indeed, a stone-age circle might have been more appropriate on this occasion. I looked around from north-west to north-east, and then espied a similar circle on a plateau opposite . . . In the sector between north and north-east, flocks of sheep were in other fields, but in no case exhibited the circular formation, being in their typically haphazard groups.³

In a second letter, Mr. Belcher emphasized that the sheep in the two circles were variously standing, lying down, or grazing, all quietly preoccupied, but nevertheless forming this very regular circular formation.⁴

Crop Circles

It is not only animals which form circles in fields, but the very crops themselves. ‘Once the question can be formed, the answer is never very far away’ wrote the Canadian geophysicist, Professor Jean Aubouin, rather simplistically in this case. So, we may well ask, ‘what are crop circles?’ or as they are now known, due to their complexity and baffling shapes, crop formations.

To date, around 100,000 patterns have appeared around the world, mostly in England. However, thanks to the extremely silly hoaxers, analysis of the phenomenon is in chaos. Some people persist in believing that ‘crop art’ is a fun thing to do, despite the fact that it not only ruins only the crops but the reputations of those scientists who do not

³ Meadon, G. T. ‘Sheep in Circular Flocks: Is there a Meteorological, or Some Other, Connection?’ *Journal of Meteorology* 14:54, 1989.

⁴ Ibid.

understand that Mother Nature does not hoax, only stupid people do. One has only to surf the Internet to see the massive divergence of opinions, alleged Government/armed forces cover-ups, hoaxes, scientific evidence for and media coverage against the phenomena, to see what a morass the crop circle investigation is in.

So, rather than list the sites and patterns, analyse whether they are authentic or not, (something ably dealt with by other authors anyway), let us look at other patterns which Mother Nature can produce effortlessly on her own, and then, assuming that at least some of the circles are genuine, try and explain them.

A well-known Circle researcher, an agriculturist, once said at a lecture on the subject 'Nature does not produce straight lines.' He was wrong. There are natural straight lines running for hundreds of miles, visible to satellites but not on the ground. In the Central Desert in Australia, for instance, on the Nullarbor Plain, there are lines 373 miles (600 kms). long and 10 miles (15 kms). wide – five running parallel to one another and visible only by infra-red imaging satellites. In the USA meanwhile, a straight line of craters run for hundreds of miles through the Mid-West.

The vast scale of many of these lines is such that they have not been perceptible prior to satellite imaging, and in the case of geophysics, not until the masses of data collected could be analysed and collated. So, when in crop formations we see straight lines, we need not shout 'Hoax', as the concept of straight lines being unnatural is an outdated idea which has been automatically accepted by many people without serious criticism.

'Lodging' is the term used by farmers to describe the flattened crops, very often found when a sudden gust of wind has eddied around the corners of a field or sometimes in the centre. As I write, a cornfield half a mile from my home suddenly, overnight, produced two right-angled turns and two commas – not a crop formation, but very likely eddy currents of wind (which was high that night), swirling down from the Chiltern Hills.

Who has not seen the dust devils and sudden dance and swirl of dry autumn leaves on the ground? It is quite eerie to watch a group of dry leaves in a corner suddenly become activated and do a merry dance on and just above the ground. They playfully chase one another round and round, up and down – and this is just ongoing wind energy. So, add in Earth and communications signals energies and we have a potent mixture all primed to react when matters reach a critical level.

Radio Frequency 'Hot Spots'

The chart below shows how man has added energies in free space since the turn of the century:

- 1890 – Early experiments in radio transmissions.
- 1901 – Birth of radio communications.
- 1920s – UK radio broadcasts commenced.
- 1936 – Early TV experiments; first UK TV broadcasts from Alexandra Palace.
- 1940 – Radio telegraph system global coverage.
- 1950 – First UK television (black and white).
- 1960 – First UK colour television transmissions.
- 1960s – Military communications satellites in space.
- 1970s – Communications satellites in space; Ground based microwave transmitters.
- 1990s – Mobile telephone communications base station transmitters.

We should not, therefore, be surprised to see new phenomena appearing. The World Health Organization refers to 'radio frequency hot spots', small areas where several signals meet at one point in space at, or very close to, the same frequency and at peak envelope powers.⁵ In a high magnetic field, slow waves in the human brain increase the firing of nerve cells and increase their coherent activity. So, are UFO's ionized plasmas generated by local hotspots? Are the Greys and Aliens endogenous images generated by the brain when the temporal lobes are stimulated by external energies of radio frequency signals? The hundreds of reports of strange effects in crop formation which visitors describe, make interesting reading. These reports are personally completed by those leaving formations on forms handed out by researcher Lucy Pringle and her team to those leaving formations.

It was Michael Green, the Centre for Crop Circle Study (CCCS) President, who was the first to notice, a decade ago, the close proximity of crop formations to ancient sites. Professionally an archaeologist working with English Heritage, M. Green is now thoroughly familiar with ancient monuments in many countries, especially in the UK. The detailed maps he gave me (Chris Arnold) started a train of thoughts – could it be that the known geomagnetic anomalies at these sites were

⁵ M. Belcher, personal communication.

interacting with the multitude of other signals to drive ambient fields, however sourced, into chaotic behaviour? We do not attribute the dazzling complexities of the snowflake geometry to strange forces, nor the remarkable symmetrical lattices seen under the microscope when the commonplace bacteria *E. Coli* and Salmonella make when subjected to certain agents that cause them stress.

To my knowledge two factors have not been considered in crop formations: first, the very high natural geomagnetic fields which are found at the time of the equinoxes; second, the fact that signals, whether man-made or natural, rising into the ionosphere and oscillating in sympathy with other electromagnetic waves reaching that height will, in part, reflect back to the Earth along the original path. The physics is complex, but in short, this means that right- and left-hand polarized signals enter the Ionosphere at slightly different times, and thus the return (reflected) signal takes a slightly different path. The 'ordinary' ray is independent of the magnetic field but the other, known as 'the extraordinary ray' slows down depending upon the Earth's magnetic field along its path. If you have ever looked at your reflection in a bathroom with mirrors both in front and behind you, you will have an idea of this multiple energy reflection. You see myriad 'me' images, each smaller and slightly displaced to the side relative to the previous image. The image recedes into infinity in the mirrors. Is this not like the ever-smaller and slightly lateral circles and crescents found in some crop formations?

Crop Circle Effects on Humans

While noting the effects reported by hundreds of visitors to crop formations, it is salutary to remember that virtually all of the following have been experienced at ancient sites at various times over the centuries and are sufficiently unusual to have been reported by those experiencing them. It should also be pointed out that many reports are from scientists, doctors, teachers and biologists, etc., all of whom must have been very sure of what they felt to put their comments down on paper, and that crop circle hoaxers now use biolocation (divining rods) to locate the most powerful energy leys in which to make their patterns.

What seems to be critical is the place or site in the formation, whether there has been a clockwise or anticlockwise spin to the crop, the immunocompetence of the individual, and possibly their height and build. Disorientation is very common; as is utter exhaustion, which can lead to

literal collapse; sudden voracious hunger; the onset of menstrual bleeds; tingling of the hands and feet; ‘like being in a bed of nettles’; a sudden sensation of great heat; very slow or very rapid heartbeat (bradycardia and tachycardia); breathlessness; a ‘tinny’ taste at the back of the throat; great emotional changes (including total love for the universe/fellow man); terror; panic; great surge of energy; relief from the pain of rheumatism and arthritis; falling asleep; hearing one’s name being called; time loss and short-term memory loss; and dyscalculia (the inability to count).

Most of these signs and symptoms are explicable in terms of deep eddy currents in the brain and stimulation from external (exogenous) sources of, for example, the parietal lobe, the motor strip of the cortex, brainwave shifts and spikes. If subjected to external stimuli, the brain stem – the motorway into and out of the brain and nervous system – can lead to many strange and fugitive effects.

External magnetic fields, however sourced, penetrate into deep brain space. Certain parts of the brain are extremely sensitive to kindling by external fields, including the temporal lobes, especially the sub-cortical components, the amygdala and the hippocampus. Certainly, the field work of Salvatore Trento in the USA at sacred Native American sites in California and the Pacific north west has recorded quite remarkable parallels in human effects to those from crop formations and sacred sites in the UK. But the vital fact is that Trento, using a geomagnetometer, has measured and recorded the very local field anomalies and ‘hot spots’ in these places. He has found extraordinarily high shifts over as little as a few yards distance at sacred sites in the USA and, it should be noted, these shifts not only show a far higher background reading in Milligauss, but can also show a far lower reading. In addition, the angle of inclination of the magnetic field with the horizon (known as ‘dip’) varies dramatically. For decades geologists have known of these variations and used them in innovative ways to locate gas and oil sumps. As Trento writes, ‘Ancient peoples chose a specific location for their inscriptions, standing stones and stone chambers. Many sites have been built on top of aberrant magnetic fields, but how and why?’⁶

⁶ *Electromagnetic Fields*, 300 Hz – 300 Ghz. WHO Geneva, 1975.

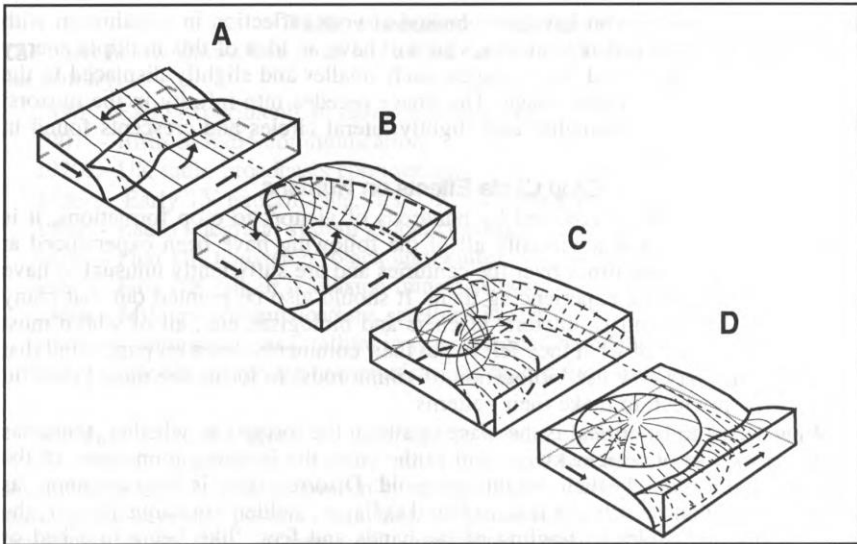


Fig. 83. Four stages in the development of a simple 'spin' vortex:
 A Two flows of energy meet from opposite directions.
 B Directional spin begins.
 C Turbulence develops.
 D Vortex activity – concentric.

To quote one example, the mean background magnetic field near Santa Cruz in California is 480 milliGauss at 50 degrees dip. But within 6 feet (1.8 metres), at an old site in a redwood grove in the forest, the reading was 4,570 milliGauss (457,000 nanoTesla) with a 59 degrees dip. Trento checked this several times to be certain. Of special note to those interested in human effects of Earth energy are the following facts: at this site a cabin had been built, and just by the entrance, most people feel nauseous. Many lose their balance and sense of co-ordination and otherwise feel very strange. Local folklore says that a meteorite crashed here over 2000 years ago. In addition, there is a fault across the area, but in 1939 a potential buyer of the land found, with his surveyor, that not only did the compass swing unaccountably in the area, but that 'on returning down the little canyon, we felt very light-headed or top-heavy, as if something was trying to force us right off the hill.' Those interested in following further down Trento's road are recommended to read his books and emulate his work in the UK with geomagnetometers.

An excellent starting point would be Fountains Abbey in Yorkshire,

where a visitor in September, 1998 described the area as ‘Like standing on a million volts’. This man is very sensitive to seismic energies, so he had an idea of what to expect at the site as he approached it, but his preconceptions were totally wrong. He had felt these energies elsewhere on many occasions, ‘but when I walked into it, I felt as though I was standing on a million volts and would not have been surprised if I had caught fire and disappeared in a cloud of smoke.’ Even more curious, he met another person who is also sensitive to these energies who told him that when she had visited Fountains Abbey some years previously, she had to spend the next three days in bed, feeling extremely weak and with no energy at all.

The Laser

New Physics is at the forefront of basic research that is likely to have a big impact on our lives in the years ahead. The same can be said of quantum optics, which involves the best known example of spontaneous self-organization, the laser.

Shortly after the first lasers were made, they were described as ‘an invention looking for a use’. Today they have, of course, a multitude of uses ranging from burglar alarms to telephone communications. Lasers, however, are very much more than just gadgets, they offer a means to explore some very fundamental aspects of quantum electrodynamics.

In an ordinary electric bulb, photons are emitted independently from each atom. The wave pulses overlap at random to produce continuous light. However, if the system is driven far from equilibrium, it can suddenly undergo a transition to the lasing mode, where all the atoms cooperate and emit their photons precisely in synchronization, producing a giant coherent wave train in which all the individual wavelets are exactly in step.

This transition to the lasing mode is what physicists call a phase transition. We are familiar with many in our daily lives, such as the change from ice to liquid water or water vapour, or the onset of ferro magnetism in iron when it cools below the Curie temperature. The fact that matter and energy do have a tendency to self-organize into coherent structures and patterns has only very recently become appreciated by physicists.

A simple example is in a boiling pan of water. While the water is heating, the surface is flat and featureless. However, when a certain

temperature is reached, the liquid abruptly organizes itself into a coherent pattern of collection cells or rolls. In this convecting mode, vast numbers of molecules move in unison as though to some unseen command.

To illustrate this, imagine you are on a mountain top looking down at a distant city square on market day. The crowd is milling about at random, and each individual is doing something different – from that distance it is very difficult to make out precisely what. Now suppose, however, that it is not market day but the day of a military parade and the crowd is replaced by a battalion of well-drilled soldiers. Now every soldier is doing the same thing at the same time. It is very much easier to see, and indeed, to hear, from a distance what that is. The analogy in physics is that a normal system is like the market day crowd – every atom is doing something different, whereas in a laser the atoms are all forced to be in the same quantum state and therefore resemble the well-drilled soldiers. Every atom must do exactly the same thing at exactly the same time.

The Beautiful Mandelbrot Set

Iteration simply means that an equation, a movement, or a computer simulation will, when repeated *ad infinitum*, produce images of incredible symmetry and beauty. The Mandelbrot Set is one example, the Julia Set, first reported on 7th July, 1996 in a field close to Stonehenge, measuring 900 ft. by 500 ft., is another (*see below*). This formation was comprised of 151 circles, and was apparently imprinted in the space of about 30 minutes in broad daylight. Depending on the equation, or energy input and number and type of iteration, there will be built up a picture, with points seemingly added at random. As the points accumulate, an image emerges with symmetry and structure. Indeed, it is surprising to find that a totally regular checkerboard pattern rather like a miniature chessboard can be generated by the chaotic vibrations of the surface of a fluid.⁷

⁷ S. Trento, *Field Guide to Mysterious Places of the Pacific Coast*. H. Holt, NY (1997).

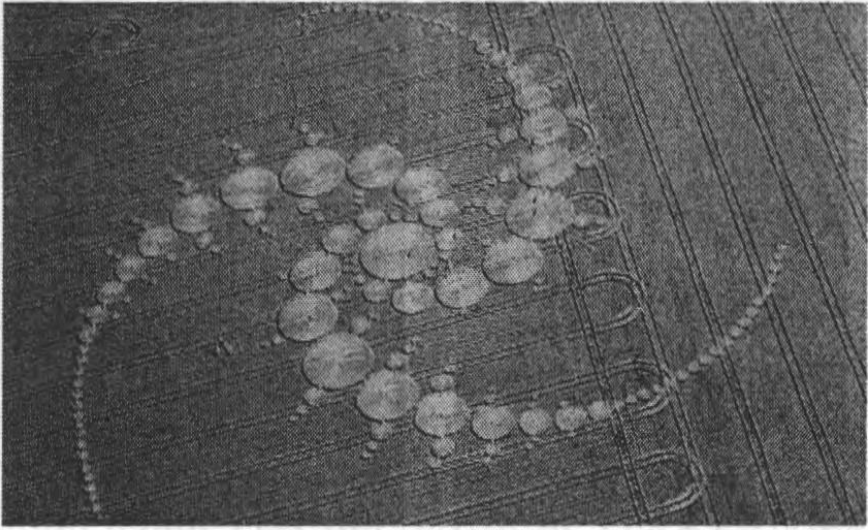


Fig. 84. The beautiful Julia set, near Stonehenge, England.

The Edge of Chaos

Another recurring theme in the physics of complexity is the edge of chaos. Systems that are poised between two extremes of utter regular motion and chaotic motion behave in a way which show hints of pattern. Simple motions generate simple patterns – the swirl of leaves chasing one another is one example. Chaos theory predicts, however, that simple but non-random laws should be non-linear, that is to say, the response to change, or energy input is not simply proportional to the size of such change, the whole is far greater than the sum of its parts.

When we look at crop formations, Chladni patterns or the Eidophone images (*Figure 74*), a common feature is that they are all driven by pumping in energy, which is dissipated or burned in an avalanche process like an earthquake. These complex systems exist in a metastable state, and tiny, apparently insignificant increments in energy input can trigger a massive avalanche, far from the equilibrium state.⁸

Earthquakes are one example. Tectonic forces inject energy into the system, and this, from being input on a large scale, transforms to a wider range of smaller scales, the energy dissipating into increasingly smaller

⁸ Personal communication to Chris Arnold.

packets. In the same way, in turbulent liquid, stirring will give a continuous input of energy, and the liquid organizes itself into a structure with hundreds of tiny vortices. This is an easy experiment to try in your kitchen with a cup of black coffee and some not-too-thick cream. If you could freeze the turbulent motion you would see many of the images of the early crop circles – whorls, curls, and little vortices spinning off the larger ones.

Most of the time, we think of the connections between inputs and outputs as being simple linear ones, but in reality, as such connections are in fact complex non-linear functions, we should not be surprised if unexpected effects appear.

Looking at crop circles over the decades, it is apparent that increasingly puzzling and complex forms are appearing. This may be (hoaxers naturally evolve more complicated shapes over time, but we exclude them here) due to hyperchaos.

It is well known that a hallmark of chaos is its sensitive dependence on the initial conditions. Two identical but isolated chaotic systems will evolve into totally different trajectories if the original input energy differs by just a small amount.

It is interesting that much of the recent work on chaos theory relating to signal transmission has been carried out by Thomas Carroll and Lou Pecora at the US Naval Research Laboratory in Washington, DC. As Pecora writes:

Imagine that you want to transmit a secret message to your partner and you mask it with much louder chaotic noise. An eavesdropper hears only the chaos, which sounds like noise. Suppose the partner has a receiver that synchronizes with the masking chaotic system. After receiving the composite signal, he or she simply reproduces the chaos, subtracts from it the signal and listens to the message.⁹

The idea is simple and straightforward.

How does this link with crop formations? Careful map plotting has shown that formations in the UK are located not only at, or very close to, ancient sites such as Stonehenge, Silbury Hill, Cissbury Ring, etc. (again a natural target for hoaxers) but are also within beam distance of radio and microwave transmitters, which are usually, but not always, situated on high ground. So we have another source of energy input to the

⁹ Lou Pecora, US Naval Res. Lab., 'Hyperchaos harnessed', *Physics World*, May 1996.

naturally-driven system (see *Natural Earth Frequency Chart, Chapter Twenty, page 205/206*). The waves cover many frequencies, depending upon distant earthquakes, local fault movements and sunspot activity. Is it possible that this last and historically recent input of man-made radio frequency energies and its complex intermodulations can, on a macro scale, copy what happens in a small-scale universe, when, contrary to expectations, a pattern suddenly appears when electrons are driven to behave chaotically?

A recent conference at the Newton Institute at Cambridge¹⁰ brought together leading world-class mathematicians to address this patterning in nature. Even more curious is the relationship between prime numbers and quantum chaos, and the Platonic Solids.

Chladni Patterns

Ultrasound and anthropomorphism – a potent mix, but what do they have with crop formations?

Man has a special ability to see himself or representations of himself in clouds, trees, smoke, fire, etc. When he sees such an image in sand or in water, he knows it cannot be a man, therefore it must be a God. This is known as anthropomorphism.

All waves carry energy, whether they are in air (as wind), on water (as waves) or acoustic (as radio waves, microwaves or voices, or the sound of the wind in trees). But if the energy is confined, or subject to what is known as the ‘boundary condition’, something strange will take place. This boundary may be the edge of a well, of a threshing-floor or even a shallow opaque dish in your own kitchen, filled with water.

All sound, whether infra- ultra- or normally-heard sound carries energy, the amount of energy (or push) depending upon volume and frequency. Sound can cause some quite phenomenal effects. Some examples are the ultrasonic devices which render a ‘no go area’ for dogs, cats, mice, etc. In the same way that snakes will leave their holes below ground prior to an earthquake, or cause worms to surface by patting or treading rhythmically on the earth; and the deep ‘thrumming’ beat of pop music to which some people are extremely sensitive – they can feel its resonance in their heads. This is not surprising, as the skull acts as a resonator. To visualize this, imagine an oval snooker table. A very fast shot

¹⁰ M. du Sautoy. ‘Pattern in the Chaos’. *The Times*, July 1997.

will send the ball, with its energy, ricocheting around the cushions in a random fashion, imparting more energy to any ball it chances to meet in its path. Likewise, energies inside the human skull will eddy around, stimulating any nerves, neurones and structures like the pineal gland, or the hypothalamus *en route*. Sound in all its forms carries energy, phonons, in the same way that light carries photons.¹¹ The classical billiard problem is taken as the motion of a charged positive particle inside a plane enclosure in a uniform and constant magnetic field. The trajectory of the ‘billiards’ (particles) consists of circular arcs between the points of specular reflection.

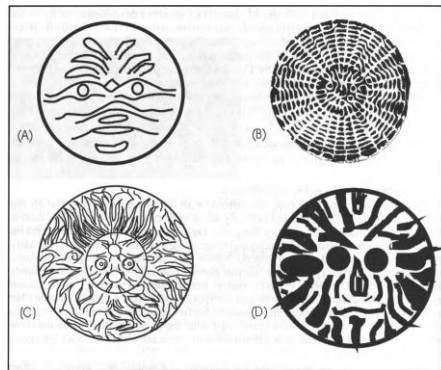


Fig. 85. Having spent 30 years examining eyes and looking at faces one can categorically state that eyes are never round circles (the iris is round but set in an almond- shaped aperture framed by the eyelids); eyes are not set in the centre of the face, they are somewhat above a meridian line; the very deep near-vertical frown lines are very seldom seen and the symmetrical near vertical lines below the mouth are also very rare. But all these are seen in the Acheroptira (faces not made with human hands). Thus the gods always presented angry faces and, crossing many cultures and thousands of years, showed very similar images, from Nimrod in the ninth century BC [a] to the Medusa head at the Roman city of Sulus Magna (Bath) [c] and later the Green Man [d]. Why should this image form so consistently? When isochronous (simultaneous) progressive waves meet each other from opposing directions, turbulent vortices are produced which will exhibit, when driven to chaotic states, remarkable geometrical patterns. When plane waves of the same frequency, amplitude and wavelength and speed meet at one point in space when they are travelling in opposite directions, a standing wave, with nodes and anti-nodes, will form.

¹¹ M. Robnik, ‘Regular and Classical Billiard Dynamics in Magnetic Fields. Non-linear Phenomena’. S. Sarkar (Ed). Non-linear Phenomena and Chaos, Royal Signals and Radar Establishment, Malvern (1986).

In 1787, Prof. Gustav Chladni, a Hungarian scientist, experimented with sound produced from a violin bow, using sand sprinkled on a glass plate. We do not know what notes he played, but he has left a record of the extraordinary images that the sound waves produced.

Sound waves need a medium in which to travel, whether air, brain tissue or water they do not travel in a vacuum. If a square metallic tray with its four sides acting as a boundary condition is made to vibrate by subjecting it to acoustic energy, then sand in the tray will arrange itself into patterns, now called Chladni Figures.¹² The sand naturally forms nodes and antinodes, gathering in some regions and shunning others.

At the University of Texas, Austin, Paul Umbanhowar, Francesco Melo and Harry Swinney have been experimenting with sand piles in trays. They are using the acceleration amplitude to check the patterns that arise. At low frequencies and amplitudes, the sand just sits on the bottom of the tray, but as more energy (shaking) is input, strange patterns emerge. Stripes, squares, and hexagons are all clearly visible once the amplitude reaches two-and-a-half times the acceleration of normal gravity. Above 40 Hz, light and dark stripes appear, below 40 Hz, there are arrays of small squares.

If the acceleration amplitude is increased to a threshold of about four times normal gravity, yet another pattern appears – an array of tiny hexagons. Stepping it up still further, stripes, squares, spirals, hexagons, and triangles appear. It is now time to remember the statement of the late Richard Feynman, the brilliant American physicist (he demonstrated to the world the reason for the self-destruction of the Challenger spacecraft – the silicon o-rings joining critical parts of the rocket casing became brittle and fractured at a low temperature). He said that natural effects found on the micro scale could be replicated on the macro scale. So, if we put these factors together, we see that Nature on her own, with sufficient energy input and with certain other conditions, is perfectly capable of making elegant patterns in whatever medium is suitable.

Prof. Chladni used sand on a glass plate, and in the US an American singer in the 19th century used her own voice, and lycopodium grains, sand, powder and a ‘singing tube’ to produce fantastic visual images (Eidophone Voice Figures). Now, in the late 20th century, with the combination of radio frequency, microwave, man-made and Earth energy, we are seeing precisely the same apparently magical combinations of

¹² M. C. Cross and P. C. Hohenberg ‘Pattern Formation Outside of Equilibrium’. *Reviews of modern Physics*. 65 ii, p. 851.

triangles, circles, arcs and lines in crops on the landscape. Just to take two examples: in July, 1998, the ‘Dragonfly’ and the ‘Poppyflower’ symbols in Wiltshire, with the ‘Torus Knot’ at Alton Barnes in 1997 are explicable by this theory. However, some of the ‘accessories’ may not fit.¹³ Two authors from the Centre of Nonlinear Dynamics and Dept, of Physics at the University of Texas produced a further paper which appeared in *Nature* in 1996, explaining the apparently spontaneous formations of images, including stripes, hexagons and squares.¹⁴

Thus, two possibilities are currently the subject of research. Firstly, as described above, complex energy inputs from multiple angles, sources, at an enormous range of frequencies, and polarizations, can cause marvellous symmetrical and fractal shapes to appear. This impacts on mathematics, and Prof. Hawkins (of the Stonehenge analysis) and James Lyons at York University have both been working on applied mathematics and geometry of forces for some years, the latter on 5 dimensional toroids and Platonic Solids.

The second is more controversial: do crop circles form at the boundary of Hertzian waves, geophysics and thought? There are now several dozen examples of people ‘thinking’ a shape and lo! it appears in a matter of hours close to them. We know from the work of the US Remote Viewing Unit and Professor Irwin Laszlo’s work in Hungary that under certain circumstances thoughts and images can be transmitted from a sender to a ‘viewer’ hundreds of miles distant. This begs the question: do our thoughts spiral upwards from our brains like millions of little cottage chimneys sending smoke curling idly upwards? Do thoughts have energy, do they join up, blend together and act in unison? – can they cause spontaneous events? Is there an as yet unknown area between the Earth’s surface and the troposphere (let us call it the sophosphere), where, as Isaac Newton wrote ‘we sail strange seas of thought alone’.

Water, the Sun God and Chaotic Systems

The solar disc, the sun god of antiquity, is generally depicted as a yellow disc with lines running radially out away from the disc itself. This image is found in many cultures throughout the ages. But a curious factor

¹³ P. Umbanhowar *et al*, ‘Localised excitations in a vertically vibrated granular layer’; *Nature* 382, 29 August 1996.

¹⁴ Dr. Anne Ross, *Pagan Celtic Britain*, Constable, 1967.

is that no eye can look directly at the sun and remain healthy. Extremely rapid damage to the retina will follow any direct gaze at the sun with the naked eye. However, there is one way in which the image of the sun may be viewed safely and this is as a reflected image on water.

Imagine now a rock pool or a well with the water level near the top. In still water the image of the sun will appear as literally a mirror image, but in water that is slightly agitated, as when movement such as dancing is taking place on the ground nearby or there are deep Earth movements or indeed distant earthquakes, the reflected image in the water will oscillate and the surface of the water will vibrate. Due to the boundary condition – the walls of the well or the rocky edges of a pool – these subtle energies, mainly in the ELF range, will set up reflected waves bouncing hither and thither on the surface of the water and what was a flat, still, reflected image of the sun will become chaotic.

When two chaotic systems synchronize the results can defy common sense. In our example, the central disc of the round sun will develop two round ‘eyes’ centrally, with sinuous waves flowing outwards to the edge. There will also be two deep ‘frown’ lines above the ‘eyes’ and two deep lines from below the eyes to the edge of the image. In *Figure 74* we see four examples of this type of image. Two thousand years ago this was known as an ‘Acheropita’, *i.e.*, an image not made with human hands.

A Russian scientist recently wrote that physics on a human scale offers a tremendously rewarding intellectual challenge. Research into the turbulence of chaotic systems is the province of the particle physicist who seek to study matter on ever smaller scales (ironically by building bigger and bigger particle accelerators) and the astrophysicists who probe ever more distant parts of our galaxy. But the physics of phenomena on a human scale is considered to be of lesser importance.

Dr. Anne Ross, the renowned Celtic archaeologist, has pointed out that stone heads from the Celtic period strongly resemble Classical Gorgon and Medusa heads, which themselves have a very long ancestry amongst the Indo-European cultures. These staring serpent-wreathed images were held to have an evil-averting power. In the Greek and Roman periods, they were placed on temple porticoes, the shields of soldiers and on the eaves of buildings. Indeed we have a faint echo of this purpose in the proliferation of stone faces on Victorian domestic buildings in the City of London to this day. Apotropaic powers were attributed to all these ‘heads’ and as Ross also notes, the Medusa heads found in the UK, France and Germany tended to be associated with healing springs.

If we study human faces and heads with an analytical eye it is clear that human faces, of all nationalities, simply do not have the following features, all of which are seen in the Green Man, Medusa and Acheropita images:

- Round eyes with no lid aperture or eyelids.
- A deep ‘V’ line on the forehead with parallel lines to the sides
- Inverted ‘V’ lines below the eyes again with parallel lines
- Eyes at dead centre (human eyes are set in the face in proportion).

Spin and Energy

The Rubik Cube is a familiar device. Briefly, it is comprised of a number of small cubes which spin on an axis, and can, with time and patience, be rotated into coloured bands and patterns. Now imagine the spin of the Rubik Cube speeded up tenfold, a hundredfold, a thousandfold. The same patterns will appear, but now in microseconds. Imagine now a spherical Rubik Cube device, but now the spins are occurring billions of times a second . . .

Where do the energies originate to cause such phenomenally rapid spins? At any moment in time we are all surrounded with multi-sourced energies. From the warmth of the sun, to the rumble of an earthquake, the faint, but nonetheless real signals from high masts which bring radio and television into our homes, the microwaves from satellites, many miles above our heads and the incredibly faint signals which reach the Earth from outer space. Many of these were felt by the first men who walked on the planet, but some are new this century. Satellite signals, for instance, are very new indeed.

A further example of spontaneous self-organisation is described by Fritz Capra in *The Web of Life*. Harper Collins (1996). Liquid in a Petri dish, (or even olive oil in the frying pan) will, when being heated, at one point develop a hexagonal array of patterns. This is called a Benard cell. This is just one easy way to check an example of spontaneous self-organisation in which millions of molecules move coherently.

Quantized Vortices

When a cylindrical container of superfluid is rotated about its axis, as the rotation speed increases, the vortex patterns become more complex.

When a parameter is increased beyond a critical value, metals snap, smoothly flowing liquids become turbulent and chemical concentrations become chaotic. These are some of Nature's non-linear manifestations. Dr. Connor (a University of Chicago biophysicist) postulates bifurcations in the neuroelectric activity of the brain, cranked up past a certain threshold, when 'travelling and rotating waves' occur. Brains, computers and crops can all be tipped into chaos.

'Break time' is the crucial feature which distinguishes between classical and quantum predictions of chaotic systems. Prior to break time, quantum systems mimic the behaviour of classic systems by looking essentially random. But after break time, the system simply retraces its path. It is now no longer random, but stuck in a repeating loop albeit of considerable complexity.

Lasers are capable of many 'special effects' depending upon the strength, circuitry and wavelength of the emitted beam. If one wishes to decorate natural phenomena in crops with what might be thought of as 'twiddly bits', what more suitable device is there? A recent advertisement in a US science journal gave details of a hand-held laser, which, with different 'thread-on tips,' project 10 ft. (3 metre) high images at 100 ft. (30 metres) distance. Imagine what one could do with a far more powerful device, for, what shall we say, target practice? The 'Translight Art Pointer' advertises that it can enable such images as a 10 ft. high reclining figure, an arrow, a head, depending upon the thread-on tip, to appear like phantoms in the distance.

An essential feature of any non-linear system is that many different states can exist under the same operating conditions. In Taylor Couette Flow, these states would have different numbers of cells or waves, or both. Thus, if the system is large, there may be literally thousands of different states available, all of which can interact with one another.

Chaos theory and crop circles present us with new applications in the laws of physics, with the difference that now the energy input to every place on Earth mounts steadily year by year. How the phenomenon is interpreted depends, as with all natural phenomenon, from lightning (the thunderbolts of the gods) to the spin of the compass needle, or indeed, a metal dish (magnetic field), on the mindset of the individual.

CHAPTER TWENTY-TWO

Devil's Footprints in the Snow

A World-wide Phenomena

'While I see many hoof marks going in, I see none coming out'
AESOP, *THE LION, THE FOX AND THE BEASTS*, 550 BC

Legends abound all over the world of the strange footprints caused by mythical one-legged creatures. In the UK they are known as 'the Devil's footprints'. A typical example comes from the Exeter/Exmouth/Totnes/Torquay and Bicton area in Devon, England, in 1855 covering some 100 square miles (260 square kilometres), where such marks were carefully sketched and written up by many people in the area, with *The Times* and *Illustrated London News* devoting pages to the phenomenon. The steps ran in straight lines, were very deep, and showed only a crescent outline cut as if with a diamond or branded with a hot iron in the snow. These were no animal pad marks, such as would be found with four-legged creatures running on the ground, and there were no claw marks, as would be found with birds.

Suggested reasons at the time of the steps were: badger, crane, kangaroo, great bustard, donkey, very large birds hitherto unknown to science, green plover, reptile, toad, rat, hare and cat, etc., but not one of these covers the facts of the linear continuation over the ground, over barns, through solid walls, across rivers – this is a logical impossibility.

The steps were reported as going under fruit trees and gooseberry bushes, and in many places the steps were observed to start and stop in the middle of a garden, or path. In Dawlish and Lypstone, there was 'hardly a garden where his footprints are not observable. In this parish he gambolled with inexpressible activity.'

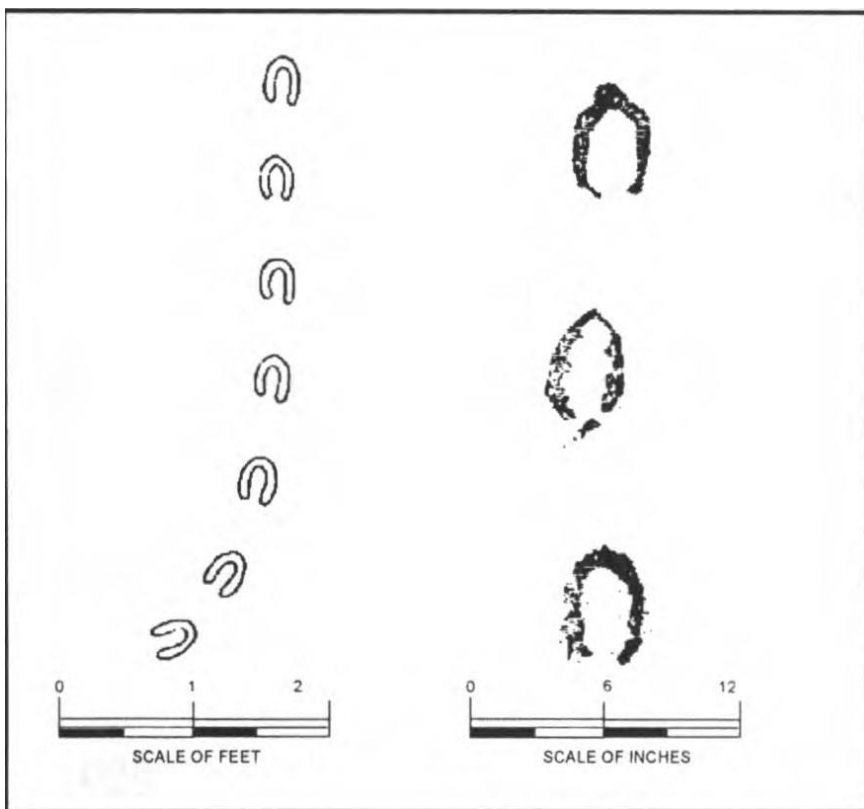


Fig. 86. Two eye-witness sketches of the 'Devil's Footprints' seen in Devon, 9th February, 1855. Fortean Picture Library.

It is of some significance to the theory of seismic activity that the weight of snow and ice in the area were reported as 'enormous'. Even the Exe and the Teign rivers were frozen over at the time and people could walk across them.

Similar reports well predate even these early West Country observations. In Glen Orchy, to the south of Glen Lyon in 1840, 12 miles (19 kilometres) of identical steps were found, and Sir James Ross in 1840 at Kerguelen Island in Antarctica, was astonished to find singular steps of a pony or ass (*see chart*). In all, 27 incidences have been found in a literature trawl. Doubtless there are many other instances in foreign journals waiting to surface for some future researcher, but what might be producing these mysterious tracks?

Though there is no unipedal creature in nature, (the nearest might be the seahorse who rides in the waves on his curly tail, but he never was a land creature), reports of one-legged beings occur world-wide.

In Assyria, Utukku was a vengeful spirit with the powers to terrorize and destroy. Alu was one of his main forms, and he appeared as a phantom with one leg. The leprechaun of Irish legend is derived from leith bhrogan (the one-shoe maker). Why should he make single shoes only, unless single footprints had been observed?

The Scottish Boobrie, a mottled white water-horse, which had hooves pointing to the rear and could change its shape on a whim, is also very strange, as it is alleged to leave footprints ‘the length of a house’ on the muddy shores of Loch Argyll and by the freshwater streams in that area.

For the present, however, this interim report puts forward a hypothesis involving seismic (Earth) energy, rather than mythical beings. We should remember that the steps appeared on rooftops, barns, in gardens and fields, and traversed buildings, passing over them, but not through them. The energy source therefore, must logically be either from above (solar or cosmic), or below, as (Earth) seismic energy. What form of life could do this, or what type of energy?

One pointer is given by ‘Chips’ Barber who quotes a report of phenomena in the vicinity of St. Anne’s Well, Brewery Yard, below the Iron Bridge:

Such spectacles as large iron bars of great weight . . . hurling themselves about, hosepipes suddenly whiplashing themselves into the air, and even more disconcertingly, large unaccountable footsteps appearing in sand lying on the floor.¹

The atmosphere was so strange that six of the men refused to work night shifts.

Barber in 1993 refers to the genre of the ‘Nouveau Beasties’ – a telling phrase.

The Distance Between Steps

The distance between steps, whilst largely the same in a given area, does not vary when the totality of steps is considered. If we consider the

¹ ‘Chips’ Barber. *The Ghosts of Exeter*, Obelisk Publications, 1990.

cause to be seismic energy wavelengths, these vary between 8.5 inches (214 mm), 12 inches (300 mm) and 14 inches (350 mm).

During the eighteenth century, and even earlier, on the Isle of Man on New Year's Eve in many of the upland cottages it was the custom for the ashes from the fire to be spread out on the floor last thing at night, as the shape of a foot might be seen on the floor in the morning. The same procedure was followed in north-east of Scotland. On New Year's morning a search was made for a mark like a human foot. We have to ask ourselves, why should footprints be sought in ash on the floor? It can only be that periodically, such step-like shapes had been previously observed.

An interesting tale in Scottish folk-lore is Auld Cloutie, who is considered to be the harbinger of evil and is best avoided. A clout is a cloven hoof, thus Auld Cloutie may be anglicized as 'Old Cloven Hoof'. The logical reason behind such tales is that such an apparently mysterious manifestation did occur on occasion. We should also remember that the Isle of Man and the North of Scotland are also volcanic, and highly faulted.

Steps in the Snow in Russia and Wales

The Russian journal *Aura Z* (Issue 1, March 1993), reported a further case of 'steps in the snow' at Sosnino, near Vicenza, North Italy. On 24th January, 1992, the snow near a military camp was up to the knees of walkers. Steps were observed in the snow 6 inches (16 cms). wide and 7.5 inches (20 cms). deep. Strange creatures were seen, 'but the soldiers did not believe their eyes'.

Curiously, after the event some soldiers felt so ill, they reported to the Medical Officer at the camp. One witness was rendered speechless, only recovering his speech after several days. Equally strange was the fact that a wolf was observed to approach the steps, but appeared to be unable to cross them, running back the way he had come. Again, ultrasound can produce a sonic barrier which so badly affects the brains of people or animals in its path that they are unable to proceed, while nausea, severe headaches and disorientation are experienced at a magnetic level of 60 milliTesla.

Wales too, has curious steps in both land and snow. In 1971, at a sandy beach at Llanaber, north of Barmouth, two people saw a line of steps 12 inches to 18 inches (30 cm to 45 cm) across at the water's edge.

Just 4 miles (6.4 kilometres) from there in 1975, steps in the sand were seen at Penmaenpool tollbridge, 'each larger than a dinnerplate.' It is noteworthy that these places are on the Bala Fault at Barmouth Bay, the very scene of the Welsh revival.

Tracks of the Devil

James Alan Rennie, in his book *Romantic Speyside*, related how he discovered tracks about a mile from Cromdale in Lower Speyside:

They were running across a stretch of snow-covered moorland, each print 19 inches long and about 14 inches wide, and there must have been all of 7 feet distance between each stride. There was no difference between a right foot and a left foot, and they proceeded in a straight line. Like the Devon tracks they were bi-lobal in shape and although there were no stone walls in the vicinity for them to climb, they did leap across a sunken roadway at one point for a distance of 30 feet or so. I followed the tracks for about half-a-mile, until they terminated at the foot of a pine tree, for all the world as if the strange creature making them had leaped up into the foliage of the tree. Yet they did not end here, for about 20 yards further on . . . I picked them up again. They traversed the little white field, plunged down the hill to the river's edge and disappeared opposite the village churchyard.²

Later, one local ghillie stated bluntly that they were 'Bodach' (old man, or devil) tracks.

Tracks Appeared Before His Eyes

Some years later, in 1924, Rennie was working in Canada, and one day was snow-shoeing across a frozen lake when he came upon strange tracks, which puzzled him and 'reduced [his] companion to a state of gibbering terror'. The prints ran across the icy surface in an almost straight line, but between each step was a distance greater than the length

² James Alan Rennie, *Romantic Spey side*.

of a tall man. His companion, a French-Canadian dog skinner was almost paralysed with fear, crossing himself and praying in voluble French, muttering about the 'Wendigo'.

Some time later Rennie returned to the lake and crossed it again, this time alone. The snow-covered lake gleamed brightly in the frosty air, but half-a-mile from the shore he saw the tracks for a second time, but now they were being made before his eyes!:

'I stood stock still, filled with reasonless panic. The tracks were being made within 50 yards of me – 20 – 10, then smack! I shouted aloud as a large blob of water struck me full in the face'.³ Brushing the water from his eyes, Rennie turned to watch the tracks continuing across the lake.

His own theory as to the cause was that a freak current of warm air coming into contact with the low temperature had created condensation, and as the water blobs landed in the snow, they left tracks, although this is unlikely to happen twice in the same place.

Rennie may have been looking at the problem upside-down so to speak. I would suggest that we consider the effect from the bottom up, that is to say, instead of the energy in the form of water descending, think of it as energy emanating vertically from the Earth, using the ice as a waveguide for seismic energies.

This is not as off-beat as it sounds, as some of the haunted places we have already encountered and shall encounter shortly are on geologically active areas: Cromdale, Scotland, where climbers and hillwalkers are occasionally followed by phantom footsteps, has Ben Macdhui a few miles to the south, with its stories of 'the Big Grey Man of Ben Macdhui' and is on the Spey Valley Fault and Kerguelen Island is a volcanic outcrop, Exeter has three volcanic outcrops from the Permian period, with many faulted areas, and so on; earthquakes were recorded at Exmouth in 1813, 1865, 1871 and 1883.

Reservoirs and Lakes Cause Geological Stress

Many abnormalities are found near man-made lakes and reservoirs. Large artificial lakes and bodies of water impose very great strains on the

³ Ibid.

underlying rocks and marked piezoelectric effects are noted as the lakes and reservoirs fill up. For example, in 1972 a new dam was built at Talbingo in the Snowy Mountains of New South Wales, Australia, creating a 730,000 acre (295,420 hectare) lake. Magnetometer readings at 15 survey points taken before and after, showed +2.2 gammas before and -8.0 after filling.⁴

So it is logical to analyse whether the energy to make the steps comes from above or below, and it is feasible that, as with many processes in nature, the same or similar effects can have more than one cause.

Here are some theories:

Impossible -

- A multitude of invisible animals or birds leaping along, often for many miles, with a pace which never varies and leaves no indication than the spoor – common theory, but very unlikely!

Possible -

- Energy from above, i.e., a freak current of warm air meeting a cold front, causing condensation, and blobs of water falling. This would accord with the steps in the Exeter/Dawlish/Exmouth group which marched over roofs and fences.
- Part of an icy comet entering the Earth's atmosphere and melting, projecting a trail of water. This would be more likely to be scattered over a fairly wide area, not as individual prints.
- Energy from below – an uprising of seismic energy, at a warmer temperature than the ambient temperature, sufficient to melt the snow in step-like shapes. Infra-red or microwave energy would melt the snow, but is unlikely to surface in lines.
- Energy above the ground or ice/snow surface, bounding along with a regular wavelength, as a ground wave, just above the surface, with sufficient energy to melt the snow.

Probable -

- Energy within the layer of snow, with a hard icy crust, on the horizontal plane, so it would bounce along constantly, internally reflected, like a waveguide along a fibre optic, as with communications signal energy, which, given certain conditions, can travel for extremely long distances by this method with no loss of impetus.

⁴ P. M. Davis and E. D. Stacey, *Nature* 240 (1972), 348.

Impacted Snow – A Natural Waveguide

A search for complexity will only generate complexity. Experience has shown that the route to a valid discovery can lie in a simple approach, the marshalling of perceived facts. Literally, the answer to this puzzle may lie, once again, beneath our feet. We shall take a look at the last theory above: energy waves within the snow/ice layer:

Shear waves in Earth sciences are always polarized. The polarization may be horizontal, vertical, elliptical or circular. Shear waves are variable in strength (amplitude) and wavelength (elastic waves), and can and do impart their carried energy in a variety of ways. Thus reports of snow ‘cut like a diamond’ are explicable. Unpolarized waves contain waves orientated in any plane, but light reflected or transmitted from a surface such as water, glass, metal, etc., is dominated by waves of one particular alignment and is said to be plane polarized, that is to say that the elastic behaviour of the crystals under stress, strain or pressure, will send energy in one direction only, the plane of polarization.

The standing waves, then, would ‘see’ the snow in one plane only, as a thin vertical line of snow crystals, bounded at the upper surface by the air or the harder, frozen surface of the snow, and at the lower surface by the ground. The waves would be unaware of the horizontal dimension, being themselves plane polarized.

In seismology, if a wave demonstrates polarization it must be transverse. Put very simply, imagine a skipping rope held in your hand. Now imagine yourself waving it about at random, and the rope (waves) oscillating in several meridians. Now place a board with a vertical slot cut in it over the rope and again wave it about at random. The rope downstream of the board will only wave vertically, it cannot exhibit its previous wild, random, movements. (*Figure 3, Chapter 2 shows a standing stone emitting a polarized wave*).

Optical fibres can transmit energy from one end of the line to the other. They are used by BT and cable companies to transmit TV information and messages. The system relies on the fact that a wave inside the cable will bounce along, internally reflected, for very long distances at the boundary between the core (of glass) and the cladding, with no loss of reflection. However, it is essential for this internal reflection that the inner core has a higher refractive index than the outer cladding.

To return to the ‘Devil’s Footprints’, we find this requirement fulfilled exactly. The heavy snow, formed of crystals of frozen water, has three

special properties: firstly, it has a higher refractive index than air; secondly, it forms a thick parallel waveguide for transmitted energy; thirdly, seismic energy is polarized. In optics and physics, waves are always reflected where they meet a barrier they cannot penetrate.

Hollow optical waveguides in communications work by heating the gas at the outer edge of the tube, so that it expands, reducing the refractive index to that of the cooler gas in the centre of the tube. In effect this is exactly what we have in the steps in the snow. Is it then logical to ask whether the Devil's cloven hooves of folklore are marks of seismic energy?

Whilst mean Earth magnetic fields are often quoted, recent papers by American seismologists have reported field strengths 300 times more than background prior to the Parkfield earthquake of 1994. Another researcher, Dr. Erling Strand, a Scandinavian geophysicist, working in Australia in 1996, recorded a magnetic field 1000 times stronger than mean, prior to deep Earth movements in 1996 at Kimberley in northern Australia.

Crystals, when under pressure, exhibit anisotropy, a variation in their physical properties according to direction, itself an enormous and understudied subject which has relevance to many other phenomena. An elliptical wave would hit the roof of the waveguide, in this case the crusty upper snow surface, with spin, and then would leave a horse-shoe shaped mark in a linear fashion. In age-old human tradition, we have to reconcile such an anomalous image with something we understand – The Devil's Footsteps.

We may, then, be seeing in the 'Steps in the Snow', a rare combination of polarized shear waves, ground waves and P and S waves traversing a solid with totally internally reflected waves between surfaces like the ground, the snow crystals and the icy surface or air.

Horses with Red-hot Hooves

In *The City of God*, St. Augustine records an invisible battle on the Plains of Campania. A noisy battle between the evil spirits was heard, and footprints of horses were seen on the ground, although no horses were there. At Ranworth Hall in Norfolk, England, there were also ghostly horses, but after they bolted down the drive, 'the stench of burning brimstone' (sulphur) was smelled. Here, the hooves were considered to be red hot as they left steam in their wake, and the trail

vanished in steam and spray in the Mere. Again, this gives a very strong indication of a combination of Earth energy, outgassing, sulphur and acoustic effects.

Interestingly, a recent report in the *Rhondda Leader* on 14th February, 1996, carried a comment by Mrs. Rae Meddick to the effect that for a year, a patch of land in the Fach, Rhondda, Wales, remained free of snow, whilst all around was snow-covered. Further, she states that 'when it rains, steam rises from the ground'. There are two possible explanations for this: firstly, infra-red seismic energy emitted along a geological fault, and secondly, an underground thermal source. The former is more likely, as any fire below the surface would emit smoke and fumes, if not flame, and there is no mention of this anomalous effect.

'Long Leggity Beasties'

The Highlands of Scotland have cornered the market, so to speak, where ghostly steps are concerned. A Gaelic poem from Scotland states:

The serpent will come from the house on the brown day of Bride (1st. February), though there should be three feet of snow on the flat surface of the ground.

The Goddess Bride sleeps all winter and comes forth on this date.⁵

Also lurking in the Highlands is the *Baobhan Sith* (wizard), an extremely dangerous female who often haunts rivers and is capable of evoking a curse. Her feet may take the form of hooves, and if she is seen, people should flee. She also wails like a banshee and anyone who is struck by her may be rendered childless.

The *eachan uisge*, the water horse, or boobrie as we have already seen, is an evil monster, and reputedly drowns children and travellers near the lochs it frequents. If seen, one could also die of heart failure. Rather similar is the *direach ghlinn eitidh*, a curious animal with one eye, and more importantly in the context of this work, one leg sticking out of its haunch.

This was a seductive creature which lured the unwary to his or her

⁵ Quoted in Rennie, op. cit.

doom.

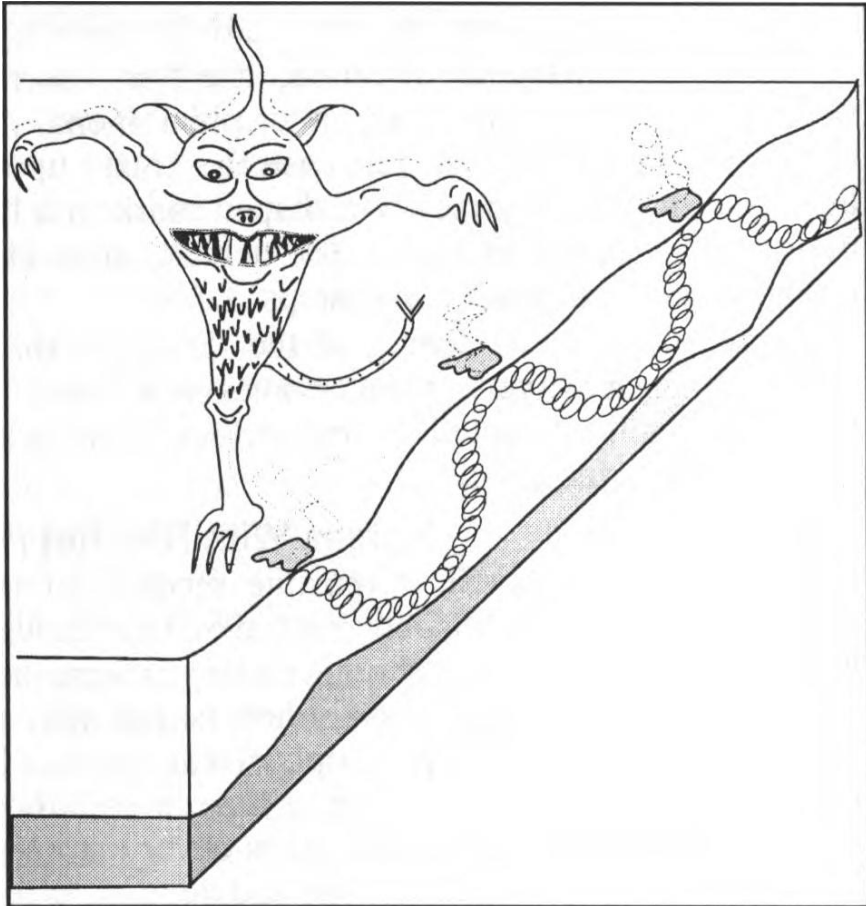


Fig. 87. A ground wave, spinning between the ground and the icy surface of the snow, forming 'steps' – not the work of a 'devil.'

Then there is the story of the phantom horse at Ranworth, Norfolk Broads, 'when he is killed, nothing remains but a pool of water . . . his strange inverted pad leaves [a footprint] the reverse of those in normal horses.'⁶ This identifies it as a type of *Boobrie*.

The Isle of Man meanwhile boasts 'Jimmy Squarefoot', whose very

⁶ P. Howat, *Norfolk Ghosts and Legends*, Countryside Books, 1993.

large feet are swathed in calico bands, but nowadays he apparently wanders the countryside doing no harm.

Reports of 'Steps in the Snow' from Published Literature

Year	Location	Snow/Sand	Other Features
1840	Glen Orchy, near Glen Lyon, Tayside.	Snow	Very deep, continued for 12 miles (20 kilometres).
1840	Kerguelen Island	Snow	3 inches (7.5 cm) long
1852	Norfolk, UK	Snow	'A cloven hoof' (no town given).
1852	The Cotswolds	Snow	-
1855	The Cross Pub, Rowley Regis, Birmingham.	Snow	Near Hailstone Quarry
1855	Pishowa Gora, Galicia, Poland.	Snow/Sand	Regular yearly occurrence.
1855	Inverness, Scotland	Snow	Many earthquakes in area.
1855	Exeter/Dawlish/Exmouth/Devon	Snow	4 inches (10 cm) long, 1.5 inches (3 cm) wide, continued for many miles.
1924	Northern Canada	Snow	17 inches (45 cm) long, across a frozen lake.
1945	Everburg, Louvain, Brussels	Snow	2.5 inches (6 cm) long, ran for 2 miles (3.2 kilometres).
1952	Cromdale, Speyside, Scotland.	Snow	19 inches (48 cm) long, 14 inches (35 cm) wide.
1954	The Needles, Isle of Wight	Snow	20 inches (51 cm) long.
1955	Ipplepen, Near Totnes, Devon.	Snow	-
1957	Hull, Humberside	Snow	4 inches (10 cm) long; part of a

			garden.
1968	Vicenza, Italy*	Snow	Continued for 90 feet.
1970	Farnborough, Hants,	Snow	'Bearlike' tracks in garden.
1974	Amityville, Long Island, New York.	Snow	-
1975	Rainhill, Merseyside, UK	-	Ran for 4 feet (1.2 metres).
1980s	Lydford, N. Devon, UK	Snow	Beside old silver mine, on anticline.
1985	Corrales, New Mexico.	Snow	On deep block fault, a 15 foot line.
1990s	St. Anne's Brewery Yard, Exeter.	Sand	Line of a few feet.
1991	Chingle Hall, Lancs.	Flour	Line of tiny prints on T-junction of faults.
1992	Sosnino, Vicenza, Italy.	Snow	Line 90 feet (17 metres) long.
1994	Kinlochleven, Loch Leven, UK.	Snow	Straight line on Mone Thrust.

*The region between Vicenza and Verona has always posed problems of correlations because of faults, lavas and tuffs.⁷

Possibly Related Events:

- 1001 Labrador. Bjorn Heriolfson reported a Uniped, a bird with one foot.
- 1692–1780 Torrington Square, London. A line of 40 footsteps, 3 inches (7.5 cm) deep. No grass would grow.
- 1782 Yunling, China. A formless body bounded over dykes, furrowing the ground as it went.
- 1891 Professor Norman Collie hears footsteps of 'Ferlas Mhor' following him on Ben Macdhui, Cairngorms, Scotland.
- 1973 Achill Sound, Straheen, Ireland. Steps twice the size of a dog's paw on the Iltay Thrust.
- 1950 A beach in Devon. Very deep steps in sand 'as if cut with a flat iron.'
- 1975 Penmaenpool, Wales. In sand, 'steps larger than a dinner plate' on

⁷ *A Correlation of Tertiary Rocks*: Special Report No. 12, The Royal Geological Society, 1978.

Bala Fault 1971 Llanaber, Wales. In sand, steps 18 inches (46 cm) across on Bala Fault.

Conclusion

'Paradoxes are merely Nature's polite way of informing us – Sotto voce – that our understanding of it is incomplete and erroneous

THOMAS GOLD, *THE HOT DEEP BIOSPHERE*,
COPERNICUS, 1998

As science evolves, we find that what were once described as paranormal phenomena begin to fade into the background and things that go 'bump in the night' or cause demonic footprints in the snow across vast tracts of country may be the result of earthquake movements and faults imperceptibly sliding along. Apparitions and demons, instead of being the terrifying forces of darkness, can be powerful waking dreams fuelled by external magnetic effects in the brain, and the ubiquitous crop circles possibly the result of turbulent flow and chaos in areas of multi-sourced energies.

And yet, despite the progress of science, there is still a hard core of events which we have heard recounted at first hand, for which no amount of logic can determine the cause. When two people see the same ghost, are being violated by the same invisible demon, or a succession of house owners see the same apparition, then perhaps at least some of these events (barring irritating hoaxers, of course) must involve unusual energies from otherworldly places which gravitate to these same places of energy.

The human brain and body always have, and still do, respond to the subtle energies from the planet, and our ancestors, in tune with nature, built their special places on geomagnetic anomaly points, where cells of magnetite, ironstone, copper ores and basalt lurk beneath the surface, giving profound effects to the minds of those who worshipped at these points, effects which may have interacted with those living in the vicinity.

Our ancestors across the planet knew much about this hidden realm and added to the Earth's powerful and natural sacred sites by building a highly sophisticated network of energies from these natural sources in which to place their temples of worship, houses and villages, using the physics of the concave lens to further amplify the faint pulsing of the planet.

Detailing some of the effects we have outlined in this book may give a

better understanding of the way our ancestors lived thousands of years ago:

- Passage graves were built to resonate at around 110 Hertz, the same frequency as the male human voice.
- The Druid's Cave was built as a resonating chamber at the centre of the complex of ley lines which transmit roughly circular ley lines (cup-mark leys) around the country.
- The cup-mark leys from the Druid's cave which are focused through burial-grounds have a wavelength which can be dramatically altered simply by thinking of someone who has died – a classic interference effect.
- Burial grounds, passage graves and houses (shielings) were built at the circumference of these cup-mark leys.
- The cup-marked stone which powers this system is itself energised by a major geological fault which crosses Scotland coast to coast.
- Standing stones are situated above crossing underground streams or fissures.
- Four-stone circles access their power from fault lines and granite intrusions.
- Major ley lines are powered by ancient volcanoes
- Six-stone circles were placed at power points on the cup-mark ley system to transmit these circular cup-mark leys to other areas.
- The power in the leys from standing stones can be increased or decreased using very simple techniques.
- The remains of some individuals were interred beneath standing stones and in stone circles.
- Villages were built on the ley system, using standing stones in a powerful symbolic pattern.
- Ill-health and 'paranormal' effects are found at power points on the Earth energy system.

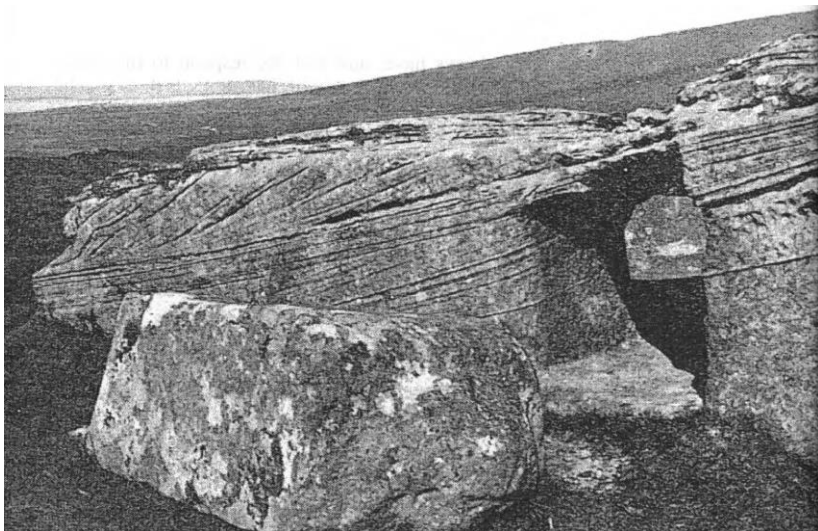


Fig. 89. The Dwarfie Stane, Orkney.

The intention, thousands of years ago, must have been to produce fertility for themselves, their crops and livestock, and to build powerful places for religious ceremony, but one of their most prominent needs was to focus and amplify that same energy through their burial-grounds and individual cremations and interments, and one can only surmise that they had a belief in the after-life whether it was justified or not. Did they really have access to their ancestral spirits? If they did, the recovery of this knowledge has far-reaching implications for our modern culture. Or were they drugged out of reality, constructing a system of natural energies in the process, one that could also be used as a simple form of communication *via* resonant chambered cairns and caves?

Perhaps they could subject the indigenous population into submission by the use of these same resonant effects in chambers, like that of ‘The Dwarfie Stane’ Orkney, off the north coast of Scotland (*Figure 89*). Here, A. Watson and D. Keating from Reading found unusually powerful results as told in ‘*Ancient Soundtracks*’:

... The massive stone block and the air within it shook vigorously. The vibration was also evident to listeners positioned outside the entrance and standing on the roof. Using sound in this way, one person can induce many tons of stones to appear to come alive in a

manner which would be difficult to achieve by any other means.

Earth Energies and Ill-health

Not only can the ancient knowledge be rediscovered, but this book also shows that by using very simple water divining techniques, hidden geological faults, volcanic dykes and fissures can be easily found and followed. To the average reader, however, finding and avoiding these same energies which cause ill-health in the home will be more important, others who are suffering paranormal phenomena may find relief in understanding their problems, while some courageous scientists will explore the mysteries, old and new, which this ancient art illuminates.

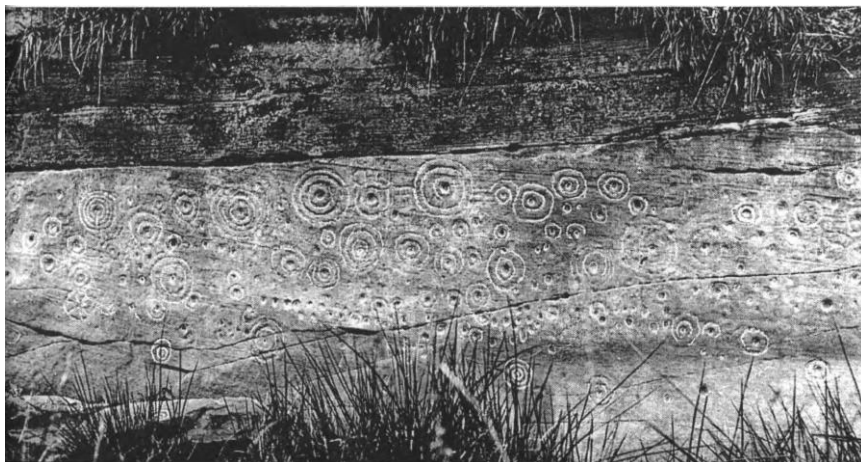


Fig. 90 The red sandstone cliff face at Mauchline, Ayrshire, covered with cup-marks.

Certainly, there is still much to understand, like the purpose of the cup-marks on the cliff face at Mauchline, Ayrshire, (*Figure 90, below*), and it is now down to those people willing to ignore the criticism of some vociferous ‘experts’ and tune in to the energies our ancestors were so intimately connected with in the long ago, a world of ghosties, ghoulies, long leggity beasties, phantoms, strange lights, noises, missing time

experiences, demons and tales of legendary warriors.¹

We hope that this book will encourage readers to explore the wonderful world of dowsing, exploring these energies which science has yet to understand – there are even more amazing aspects of this strange art which I have not even mentioned. After a quarter of a century of intense work on Earth energies, I still have difficulty in coming to terms with some of their stranger qualities, a problem brought about by the conditioning we all have from an early age by our education.

We hope also, that this book is a step forward in understanding the structure and purpose of the ley system across a large part of the world, which will eventually lead to the majority of this network being rediscovered world-wide, a network built by giants of old, giants of renown.

There is a story told on the island of Skye, that a traveller, lost and benighted, entered a huge cavern. In the darkness, he was horrified to see a circle of warriors, 10 feet tall, clad in rusting armour, with mighty spears as tall as pine saplings. In the centre of the circle was the warrior Fingal himself, guarded by his knights, all fast asleep waiting for the clarion call to lead his people once again. Perhaps he is now stirring in his sleep!

There will be some who will stubbornly stick to their beliefs that ley lines do not exist – but we are confident that the maps of this energy complex, rediscovered almost entirely by following the leys on foot with divining rods (the way they were constructed) reveal to those who read this book with an open mind that what seem to be randomly placed standing stones and circles, combined with the cup-mark energy circuits powered by major fault lines, have a pattern which the author certainly could not have dreamed up.

We have tried to present a giant mirror of facts, like the brilliant light at Ward Hill, just to the north of ‘The Dwarfie Stane’, which can, when the factors are right, flash off the stone as ‘a broad dazzling flash of white light – more like a diamond’. Seen for an hour after rain, and recorded for centuries, it illuminates the scenery like the reflection from a giant mirror, producing signs and wonders for those fortunate enough to see it.

We too, hope to have cast some light on the signs and wonders in the world about us.

¹ A. W. Johnston, ‘The Dwarfie Stane of Hoy, Orkney’, 1896, from *The Reliquary*, 2:64–86, quoted by Jeremy Harte in *3rd Stone*, 1999.

Further Reading

The British Geological Society, Murchiston House, West Mains Road, Edinburgh EH9 3LA, will send their publication list and can supply details (Memoires) of the geology of your local area of the British Isles on request, including faulting water, chemicals, fossil record, mining, prehistory and much else.

The British Society of Dowsers. Secretary and treasurer: M. D. Rust, Sycamore Cottage, Tamley Lane, Hastingley, Ashford, Kent. TN25 5HW. The Society has a list of members who are experienced in their various fields, from healing to water divining. Members have access to a postal library and a very interesting book list. Their magazine is quarterly.

Circles of Silence, Don Robins, Souvenir Press. Using Geiger counters and ultrasonic detectors, a group of people monitored the Rollright Stones in Oxfordshire, giving the first scientific proof that megaliths transmit energy. The author recalls how his first dawn vigils with a simple meter showed a strange pulsing effect.

Dowsing for Health, Dr. P. MacManaway. Beautifully printed book (USA) which covers many aspects of dowsing.

Earthlights, Paul Devereux. Turnstone Press. Like so many people leading perfectly normal lives, an unexplainable event caused the author to delve deeply into the mysterious world. Extremely interesting account of unidentified aerial phenomena as pockets of naturally produced energy.

Earth Radiation, K. Bachler. A study of the importance of sleeping in a place free of earth radiation.

Electromagnetic Man, Cyril Smith and Simon Best, Dent, 1989. An excellent overview of the natural electric currents within our bodies and some of the interference effects of both natural and man-made energies. Why some are so sensitive. Includes reports from around the world and over centuries.

Introduction to Geomagnetic Fields, H. Campbell, Cambridge University Press, 1998.

Ley Lines and Their Properties, Dr. J. Havelock Fidler, Turnstone Press Ltd. Dr. Fidler shows how stones may be 'charged' with energy, and measured. Included are experiments of germinating seeds on lines of different energy strengths.

Needles of Stones Revisited, Tom Graves. Gothic Images. Theorises that standing stones and circles are a form of acupuncture of a living planet, working on the Chinese feng-shui system.

Points of Cosmic Energy, Blanch Merz. The C. W. Daniels Company, Ltd. Very interesting book on earth energies, translated into English.

Safe as Houses? David Cowan and Rodney Girdlestone. Gateway Publishers, (Now Gill and Macmillan, west Dublin). The first part is about electromagnetic fields and their effect on our health. The second is by the author of this book and shows how Earth energies from a wide variety of sources can alter the subtle natural energies in which we all live. Briefly, the more electricity we use, the more powerful natural Earth energies become and cause illness.

The Diviner's Handbook, Tom Graves. The Aquarian Press. Invaluable book on how to use divining rods to search for a wide variety of objects, and Earth energy. Essential reading for anyone interested in man's hidden senses.

The Dance of the Dragon. Hamish Miller and Paul Broadhurst, A remarkable alignment of sacred sites from Ireland through France, Greece, and Israel, marked by sanctuaries dedicated to the archangel Michael and Apollo. A ten year quest exploring the significance of Earth energies in the siting of these sanctuaries.

The Divining Hand, Chris. Bird. An excellent book providing a complete history of divining and which discusses existing theories to explain the phenomenon.

The Old Straight Track, Alfred Watkins, Abacus, 1927. This is Watkins' vision of the ancient tracks across England, including churches,

beacon hills, mounds, earthworks and moats.

The Power of the Pendulum, T. C. Lethbridge. An immensely practical book guiding the beginner into both usage and philosophy.

The Sun and The Serpent. Hamish Miller and Paul Broadhurst, Pendragon Press. An excellent and important book following the St. Michael and St. Mary's leys across southern England. P.O. Box 888 Launceston, Cornwall. PL15 7YH.

When the Snakes Awake, Helmut Tributsch, MIT Press, USA, 1983. A geophysicist describes the multitude of electromagnetic and piezoelectric phenomena generated by deep Earth movements, faults and earthquakes. Under certain conditions the soil over a quartz vein can generate 10,000 to 100,000 v/m – ions in the air – with animal and human effects and very much more.

Visions of the Brain, Samir Zeki, Blackwall Medical, 1993.

Index

A

Abductions 141
Abrahamson J. 194
Acceleration amplitude 225
Acheropita 227
Acoustics 51, 53
 energy 175
Aelotropy 236
Airfields, phenomena above 194–195
Ailsa Craig 94
Allard A. H. 212
American Indians and souls 116
Amplitude of waves (see wave-lengths)
Anati, E. 28
Ancestor worship 116
Anderson 144
Anthropomorphism 223
Anti-matter 194
Apparitions 5, 98/100, 119, 133, 139/140
 figures, dancing 208
 gases and 211
 ghost car 136–138
 ghost horses 236
 ghost lights (geallbhan) 145
 ghost train 138, 176
 in house 140
 in sepia 139
Apports 157
Aristotle 156
Arnold K. 182
Artesian basins, Australia, 189
 “ gas 212
Artificial leys 133
Ashby T. 189
Asphalt pits 211
Astronomy 4
Atkins R. 187
Attacks, drop 170
Aubouin I. 217
Auditory hallucinations 17
 effects 166
Auroras 186
Avebury 5, 92
Ayers Rock 150

B

Bacteria, 197
Baker R. 173
Ball lightning 160, 185–194, 197, 201
 in house, 188
 RAF launch, and 188

 selection of reports 190–193
 theories 189
Ballard G. 22
Barber ‘Chips’ 22, 231
Barriers of cup-mark energy 41
Basalt 17, 22, 55, 100/101, 127, 128, 172,
190, 213, 214
BASIX (Bay Area Seismic Imaging
Experiment) 181
Batenin Professor V. M. 194
Beadon 111, 114
Beehive structures 55
Beheading pit 71–72
Belcher M. 216
Benard cells 227
Bills (electricity)
Biolocation 19–21
Biosensors 212
Black Duncan of the Cowl 72, 100
Black spirals,
 and ill-health 82, 133–135, 139–140
 and poltergeists 133, 158
Black streams 61, 148
Black whirlwind 139
Black W. H. 1
Blackwardine 1
Blakemore C. 172
Blind springs 4, 23, 133
Blurred vision 172
Boer Dr. J. de 204
Bodach the 86, 100
BoL’s. See Ball Lightning
Boobrie 231, 237
Bord J. 202
Boreray 89 123, 125
Bossi L. 177
Bouncing beds 163
Boundary condition of wells 223
Brain activity 196
Brainwaves (EEG’s) 135
 ELF (Extremely Low Frequency Fields):
 frequencies 133, 147
 and mood changes 171
 and the motor cortex 170
Boobrie 230–238
Brennan M. 27
British Geological Survey, the 173
British Society of Dowsers, the 10
Broadhurst P. 5, 66, 92
Brydon R. 188–190
Bubonic plague 59–61
Burial-grounds:

- Achallader 100
 Ardtalnaig 46, 94
 Balquhidder 74, 138
 Bridge of Balgie 98
 Cairnpaple 62
 Cille-ma-Charmaig 34 62
 Craignaver 49
 Crieff 94
 Dundurn 71
 Dornoch 106
 Flooded 69
 Fortingall 48, 98
 Inchbuie 71, 116
 Inverhadden 70
 Kenmore 70
 Killin 67, 71, 145
 Killiechonan 69
 Kirk of the Grove 44, 58
 Lawers 49, 71
 Loch Doine 74
 MacGregor Mausoleum 74
 Monzie 44
 Meggernie 14, 48, 68, 72, 98–100
 Monzie 44
 Ochtertyre 58, 62, 139
 St. Fillans 103
 St. Michael's 94
 Quoigs 62
 Strowan 71
 feng-shui and 115, 136
 on ley from Staffa 81
 leys through and 94–96
 circular 103–107
 Burial chambers-
 Camster Round 53
 Vermont 53
 Burl A. 56
 Burning Cliffs 203
 Burns, Tam o'Shanter 68
- C**
 Cairnpaple circle henge 62, 95, 127
 Cailleach, the 86, 100
 Caldera:
 Crater Lake, Oregon 178
 St. Kilda 123
 Glencoe, Scotland 178–9
 California 181
 Callanish 4, 88, 127
 Cancer 135
 Campbell C. (Grey Colin) 71
 Campbell J. F. 108
 Capra F. 227
 Cam Bad an Fraoich 103, 106
 Carroll T. 223
 Cave on the Hill of the Big Men 70
 Cave roofs 49
 Cavitation 212
 Cavity-seeking energy 35/36, 42
 Centre for Crop Circle Study (CCCS), the
 218
 Treacle mines 210
 Chaos theory 222
 Charged particles in auroras 186
 Ch'i 32 115
 sha ch'i 136
 Chieftain's Grave 38, 69, 117
 Chladni patterns 222/3/225
 Circle of cats 148
 " " birds 216
 " " cows 216
 Cissbury ring 223
 Coal mines 136
 on fire 203
 Communications signals 218, 234
 optical 235
 Compressing waves 117
 Computers, reducing unhealthy
 energies from 13
 Comrie 183
 Concave surfaces 51–56
 Druid's Cave 44 49
 Camster cairn 53
 whistling in 53/54
 history and myth 54
 physics of 56
 Connachan Farm 37
 cup-marks on stone 43
 dumb-bell ley from 29/30, 58
 rebuilding 89, 124, 127
 cup marks 25–31
 Corliss W. 201, 210
 Crieff 9, 29, 94, 119, 182–183
 Hydropathic Hotel 152
 Masonic Lodge 112
 witch of 109
 Crop circles 217–228
 " effects on humans
 Cup-marks 1, 25–31
 Ardtalnaig at 58
 at Connachan Farm stone 43, 75–80
 constructing major ley 123/130
 resonant cavities and 35–37
 dumb-bell shaped 58, 78
 skeleton, sheep's, 33–38,
 circuit 43–49
 at Meggernie Castle 100
 Cup-mark leys:
 cavity-seeking energy 35

dumb-bell shaped 44,78–83
interference waves 40
strange qualities 32–42
energy tuning into bridges 68
 " skulls 35
 " " new graves 35
 " " quarries 36
 " " rivers 68
 " " suspension towers 40, 76
shielings, protecting houses 78–82
sympathetic resonance, and 39
magnetometer at 27
subterranean stream 80
Crystallography 196
Crystal dome 144
Crystals-
 alter wavelength from computers 13
 " standing stones, 117/118
Cumhail 45/46, 58

D

Damis 151
Dancing figures 208
Davidson C. 176
Davidson K. 180
Davies R. 56
Dawkins Professor G. 4
Demetrius 151
Demons 5, 167/168
 place names 55
 Tam o'Shanter and 68
Depression 169, 171/2,
 in Glencoe, 178
Devereux P. 3, 56, 94, 131, 132
Devil's footprints 230–238
Devil traps 54
Diamagnetism 162
Dinniss J. 194
Disorientation 148
Divining rods 5, 136
 how to use 10–15
 to find unhealthy energy 78–80
 at fault lines 183
Dodmen 1
Doodwegen 95, 115
Domes, focusing 49–51
Dowsers, British Society of 10
Dowsing 172
Dowsing 10–15, 18–20
Dragon lines, in China 115
Dragons 54/55
 slayers 111
Drop attacks 170
Drugs 149, 170

Druid's Cave, the 44, 58, 62, 87, 89, 106,
125/126

E

Earth Gases (from wells 152), 194, 202–205
 Georgia, foul gases at 211–213
Earth lights-
 ghosts of drowned men 145
 Cascade Mountains 182
 aurora borealis 186
 Min Min lights 186, 189, 202
 dome-shaped 187
 gas plasma 196
 fractoluminescence 197
 natural sources 196
 triboluminescence 197
 pillars of 199–200
 sea lights 210
Earth Energy Group, the 10,
Earth houses 26, 130
Earthquakes:
 aftershocks 177
 Comrie 144
 epicentre 144 183
 forewarnings 15, 198
 noises 175 178
 shear waves 146–147
 frequencies 15, 175, 176
 gases 202
 lights 182, 187 196, 197/8
 (see also Min Min lights)
 magnetic changes 147
 noises 175, 176/177
 in tunnel 176
 radon gas increase 198
 snakes and 223
 Earth waves 176–177, 205
 human body, and the 147
 Parkfield 235
 plane waves, and 206
 sensitivities 184
Echidna 213
Echinus, geyser 180
Eddy currents in brain 219
Edinburgh Castle 94
Egely Dr. G. 194
Eggardon Barrow 209
Egyptians, and souls 116
Eidophone Voice Figures (see Chladni
Figures).
'Electric Brae' the 95/96
Electric sub-stations 134
Electric Power Stations 134
Electricity bills 154–156, 161

Electroencephalographs (EEGs) 135
 Electrohydrodynamic effect 152
 Electromagnetic fields 17, 21/22, 51
 cats on 148
 hypersensitivity 141
 electromagnetic 148
 Electromagnetic spectrum 173, 196
 Electrosensitivity 16–18, 21, 148/149
 dowsers and 172
 ELF 196
 Excitotoxins 18
 Electrostress 17
 (see also hypersensitivity)
 Embalming 116
 Eonan 59–61
 Equinoxes 2
 geomagnetic fields and 218
 at stone chamber 146
 Erickson J. 187, 200
 Extremely low frequencies (ELF) 133, 175,
 196, 205
 Eyes 226/227

F

Faces, painted 101
 Faery paths 95, 115/116, 130
 Faraday M., 199
 Faraday's Law 20
 Faults 11, 15
 blind springs and 23
 columns of light from 200
 dilatancy 146
 domed-shaped lights and 187
 Earth lights and 196
 gases 204
 ELF (extremely low frequencies) 205
 Erich-Laidon Fault 144
 Great Glen Fault, the 146
 healing wells and 152
 horizontal faults-
 Comrie 182
 Los Angeles 182
 San Francisco Bay 181
 Highland Boundary Fault (HBF)
 43, 80, 144, 146, 148, 160, 183
 Loch Laidon/Erich fault 128
 wavelength on 183–184
 ionized columns from faults 172
 movements and 145
 San Andreas Fault (SAF) 15, 180, 181
 sea lights and 210
 splitting hills 90
 steam from 236
 tracing 19

transcurrent movements of 144
 ULF (ultra-low frequency) signals from
 180
 Feng shui 115, 136
 Feynman R. 225
 Ferromagnetism 162
 Fian 46, 76, 100
 Fidler J. H. 4, 119
 Fingal 45, 76
 Fingal's Cave 100/101 Fingal's Castle 76,
 86
 Fingal's Swordcut 45, 49, 90, 125/126
 Finlarig Castle, beheading pit 71
 Firehose entries 15, 213
 Fires (coal mine) 203
 Australia 203
 anthracite 204
 Flammarion C. 187
 'Flying Saucers' 182
 Ford H. 213
 Four-poster leys 87, 103, 106, 108
 Fractoluminescence 197
 Fraoich, warrior 108
 Frazer-Smith A. 180
 Free radicals 16
 Freemasons 112
 Fractal shapes 226, 226
 Fractoluminescence 197
 Fraser-Smith Prof. 180
 Frequencies:
 brain 19
 human body 147
 seismic 175, 177
 signal generator 117–119

G

Galt Dr. 16
 Gases 211
 from artesian basins 202
 from wells 204
 Gelling M. 55
 Genius loci 149, 172, 178, 204
 Geological Survey 173
 Geological stress 234
 Geopathic stress 82 135
 Geomancer's compass 115
 Geomagnetic fields 20, 218
 Geomagnetometers 220
 Geometry, snowflake 218
 Geophysics 65, 169
 Ghosts (see apparitions)
 Ghouls 170, 172
 Giant's Causeway the 90, 127/28, 214
 Glasgow 113

Glastonbury Tor 5, 92
 Glen Lochay 76, 86
 Glen Lyon 14, 40, 48, 59, 68,
 circuit, 75–78, 98
 Glen Tarken Rocking Stone, the 62
 Glencoe 178/179
 massacre 180
 Gold T. 202
 Gothenburg University 16
 Granite:
 and ball lightning 189
 Earth lights and 197
 eddy currents in brain and 19
 electromagnetic waves through, 147
 spontaneous water and 149
 Gorda Plate 18
 Graves T. 8
 Gravity 20, 95
 Green globe 143
 Grey Man of Ben MacDhui 233
 Greece
 omphalos at 66
 Green M. 218 Green Man, the 227

H

Haematite,
 electric fields and 18
 hallucinations and 171
 magnetic fields and 22
 brainwaves and 205
 magnetic fields and 22, 171
 Hallucinations:
 little people and 171
 types 170
 Hallucinogenics 131
 Happiness 171
 Harvalik Professor Z. 23
 Hawkins 226
 Healing stones, 129
 Healing wells 64
 on St. Mary's line 92
 Healing water 153
 Healthy spirals 153
 Helmholtz effect 164
 Henderson G. 108
 Heselton P. 204
 Hexagram of Crieff 109–112
 Hoaxes 217
 Hole House 170
 Hollingworth N. 210
 Holograms 133
 Hough P. 151
 Hulsmeyer 51
 Humbolt A., von 178

Hummabuz 178
 Hydrodynamic waves 206
 Hydrogen resonance 172
 Hypersensitivity 148, 172

I

Imperial Valley 177
 Infra-red seismic energy 236
 Ingram E. 211
 Insects, spirals of 23
 Interment, at standing stones 4
 Iona 82
 Ionosphere 3
 phenomena and 195
 low frequency waves 206
 Ions 171
 Ionizing radiation 196
 Iron mine, on fire 203
 Iteration 221

J

Jacob's pillow 132
 Jones S. 54
 Juan de Fuca plate 180

K

Kalinin Y. 195
 Kawaguchi 197
 Killin stone circle 30, 67, 71, 73, 87, 138
 building 127
 Kilmartin standing stones 17, 117, 128
 Kingstones 131
 Kirk of the Grove 58
 Kiva, Native American 130
 Knights Templar 112
 Kolams 114
 Konig 172
 Kozicka M. 186, 190, 215
 Kruger 172

L

Ladram Bay 169
 Lang S. 172
 Langevin 199
 " sandwich 199
 Lasers 221, 228, 181
 Laszlo 21
 Lava tubes 15, 213/214
 Lava tunnels 213/214
 Lavoisier P. 199
 Lenz's Law 19
 Leslie Lady M., 209
 Lethbridge 54, 137, 139, 169–172
 Ley lines

- amplifying 13, 117–119
 - amplitude 37
 - artificial 133
 - black spirals and 133
 - black whirlwind and 139
 - castles on, 1, 36, 62, 92, 122
 - Edinburgh 94, 95
 - Finlarig 71
 - Fingal's 76, 86
 - Meggernie 14, 48, 54, 68, 72, 98, 99, 100
 - Monzie 90
 - Stirling 32
 - circular burial-grounds 103–108
 - Connachan Farm cup-marked stone, from 30
 - following 12
 - four-poster stone circles 103–108
 - Glen Lyon 98–102
 - ghost train and 138
 - measuring 37
 - passing through decaying material 81, 137
 - primary 88–90, 128
 - pylons and 41
 - qualities 39–42
 - tuning into iochs 62
 - ” ” pools in rivers, 68
 - ” ” dead animals 33–35
 - rebuilding 123–132
 - shape waves 37/38
 - splitting stone 90–92
 - shielings, and 78–80
 - straight 2, 3, 31, 84–93
 - as formers 87/88
 - through burial-grounds 94, 137
 - table of wavelengths and 122
 - town built on 109–116
 - tuning into skeletons 33–35
 - ” ” burial-grounds 36
 - ” quarries 36
 - volcanic plugs 94–96
 - wavelengths of 37, 84
 - Lia Fal 131
 - Light-beam dialling 27
 - Lightning 195, 197, 204
 - magnetic field caused by 55
 - Lightning bugs 212
 - limestone 205
 - spontaneous water and 145
 - trapped gases in 205
 - well water changes colour 152
 - Lincoln H. 55/56
 - Listening posts, World War II 51
 - Little people 171
 - Loch Tay, energy tunes into 46
 - green globe in 145
 - ghost car of 136
 - rebuilding leys and 123
 - Love A. 205
 - Lovelock H. 7
 - Luminescence, 199
 - Luminous bacteria 212
 - Lunar observatories 4, 128
 - L waves 205
 - Lycopodium 197, 212, 225
 - Lyons J. 226
- M**
- MacGregor A. A., 209
 - MacGregor Mausoleum 74
 - Macropsia 171
 - Maddison B. 138
 - Madonna lilies 209
 - Magma chambers 182, 214
 - Magnetic Anomaly Point (MAP), 21–22
 - Magnetic changes prior to earthquakes 147
 - Magnetic dip 22 146, 173, 220
 - Magnetic fields 19, 22, 147
 - Magnetic phenomenon 22
 - Magnetic reading:
 - cliff face, Petroglyph Point 27
 - Magnetic resonance 162
 - Magnetic saturation 20
 - Magnetism 162, 209
 - Magnetite 21, 173, 198, 207
 - Magnetometer readings at reservoirs, 234
 - Magnetosomes 16, 20
 - Magneto resistance 162
 - giant 56
 - Malevolent energies 136, 141
 - Mann, Ludovic Kennedy 113
 - MAP (Magnetic Anomaly Point) 21
 - Mandelbrot Set 222
 - Mauchline, cup-marked cliff face 27
 - Matthews J. 83
 - McEwan P. 164
 - Meadon G. T. 228
 - Meddick R. 236
 - Medusa heads 227
 - Meggernie Castle 48, 68
 - clan murder, and 68/69
 - graveyard 100
 - ghost 98–100
 - tunnel beneath dungeon 14 Melo E. 225
 - Mercalli 176
 - Meteorites 132, 187
 - Michel J. 92
 - Micrometeors 194
 - Microseisms 134
 - Micropsia 171

Macropsia 171
Millar H. 5, 66, 92
Milne Dr. J. 198, 200
Min Min lights 186, 202, 215
Mining 134
Mirrors 136
 for aircraft detection 51
Missing Time Experience 140–143
Mood changes 171
Moon 128
 pillars of light, and 200
 stone chambers 53, 128
Morphogenetic fields 21
Morris R. W. B. 25, 27
Morton H. V. 154
Motor cortex 170
Mount St. Helens 182
Mount Rainier 182
 magma chamber beneath 182
Mud springs 210
Mull 100
Multiple souls 115
Murder 139

N

Nagata, Professor 55, 57
Naiad fields 137, 171
Nathan, Prof. 148
Natural Environment Research Council 210
Natural gases 202
Negative polarity 173
Neurology 16
Neurotransmitters 172
Newgrange 27, 52–53
Newton I. 226
Nitrogen 186, 198, 210–212
Noradrenaline 172
Nuclear submarines 133

O

Oersted H. 199
Ofureton 194
Ogres 213
Ohtsuki Prof. 194
Open-cast mining 134 203
Oppressive feelings 170
Optical fibres 235
Ossian 46, 49, 94
Outgassing 133, 145, 149, 203, 210
Overgrounds 133/136, 160

P

Pacific plate 181
Palmdale Bulge 181
Parkfield, California 180

Pausanias 54
Pearson R. 209
Pecora L. 223, 228
Pennick N. 3
PEPE (Parkfield Earthquake Prediction Experiment) 180–181
Percolation theories 21
Perseveration 147/149
Petroglyphs (see cup-marks) Petroglyph Point, California 27
Petroglyph Park 80
Phantom footsteps 163, 233
Phase transition 221
Phenomena effects 166
 over airfields 195
Phenomena in graveyard 139
Photoluminescence 199
Piezoelectricity 16, 117, 152, 198–199
Pillar Island 98–102
Pillars of light 199–200
Pillemont 54
Pitcairn Rev. 187
Pitch lakes 210–211
Plane waves 206
Plantar fasciitis 135
Plasma islands in space 196
Plasmas 187, 194, 195
Platonic solids, and BoL 223
Pliny the Elder 175, 184
Plutarch 204
Polarity 82
 in humans 173
Pollution 202
Poltergeists 133, 140, 154, 157–162, 206/207, 209
 at building sites 22/23
Pore Space Domains 202
Post viral fatigue syndrome (ME) 135
Praying Hands of Mary 48, 59, 92, 98
Pringle L. 218
P waves 205
Pyrrhotite 171

Q

Quantized vortices 228
Quantum systems 228
Quarries 11, 36, 37, 92, 116, 134, 136, 139
Quartz 7, 11, 15/16, 19, 56, 199
 amplifying leys, and 117/118
 on computers 13

R

Radar stations 51, 133
Radio frequencies 16, 133, 175, 95/196, 223, 225

hot spots and 218
 Radon gas 198
 Raleigh Sir W. 214
 Rannoch, Loch 29, 38, 40, 69, 72, 87/88, 94,
 117, 127
 Rayleigh waves 205
 Rebuilding the ley system 123–132
 Rennie J. A. 232/233
 Riggs A. 160
 Rocking stone of St. Fillans 62–64, 127
 Remote viewing 226
 Rennes-le-Château 56 Rennie J. A. 232/233,
 238
 Reservoirs 146, 198
 Resistivity 22, 56, 146
 Resonance 225
 sympathetic 39, 42, 136
 Resonant cavities 35–37, 45, 160
 Rochelle salts 199
 Ross A. 227, 229
 Ross J. 231

S

Sacred geometry 109–113
 Sacred American Indian sites 15
 Sadness, feelings of 171
 San Andreas fault 15, 175, 180, 181, 184
 Sand piles (see Chladni patterns) Seismic
 energy 232
 Sono-acoustic electricity 197
 St. Augustine 236
 St. Elmo's fire 197
 St. Fillans 7, 33
 Grave 106
 serpent of 63, 108
 leper of 66
 St. Mary's line 92
 St. Michael's line 92
 St. Michael's church 111
 Satellite dishes 49, 50, 56
 Saunière, father 55
 Scholz 146
 Schonland, Sir B. 187
 Schumann resonance 206
 Sreeton P. 204
 Sea lights 210
 Secret arrows 115
 Seismic disturbances 139
 Seismic energy and devil's footprints 230–
 238
 Seismic disturbances 155
 Seismic waves 206
 Seismicity, reservoir 146
 mining 146
 Seismometers

Comrie, at 182/183
 San Francisco Bay, at 181
 Seismology 181/182, 197, 235
 Sensitivity 18
 of Man 173
 Serotonin 171/172
 Serpent 33, 64–66, 103, 127
 Fraoich killed by 108
 Serpents around the world 64–67
 Seven Senses of Man 18
 Shallis Dr. M. 17
 Shamanism 131
 Shamir 92
 Shape waves-
 from skull 37
 from cairn 77
 Shaw J. 182
 Sharkey J. 170, 183
 Shearer P. 182
 Shear waves 146
 Sheldrake R. 21
 Signal generator 117
 Silbury Hill 5, 124
 Silica 197
 Siting homesteads 128
 Skeleton circuits 44
 Skellig Michael 170
 Skulls
 strange feeling in 17
 leys tuning into 35, 37
 Smith R. A. 4
 Soil conductivity 198
 Sonar 199
 Sonning Dr. W. 172
 Sonoluminescence 145
 Sound 18,
 ball lightning and 186
 burial chambers, inside 52, 56
 Camster Round burial-ground 53
 curved surfaces and 51
 earthquakes, and 175–177
 effects 131
 P-waves and 178
 spirals and 160
 rock face and 131/132
 seven senses of man 18
 Souterrain (see earth houses) Speedometers
 142, 166/167
 Spirals-
 black 133, 135/136, 161
 eliminating 136
 insects, of 23
 white 23, 133, 156
 Spirits – Egyptian, Huna, Native American
 116

- Spirit guardians 129
 - Spirit paths 3 95
 - Split stones 89, 90
 - Spontaneous combustion 203/204
 - Spontaneous fires 157
 - Spontaneous water 149/150
 - Sun pillars 200
 - Sutherland 23
 - Static charge 20
 - Standing stones-
 - Aberuthven 110, 140, 158
 - Bhacain 76, 86
 - Braefordie 90, 109, 125, 140, 158
 - Chieftain 38, 69, 117
 - Crieff golf course 103
 - Clach-an-t'Sagairt 89
 - Clach-na-Tiompan 87, 126
 - Concraig 62, 109
 - Crofthead 90, 124/5
 - Dalchirla 87, 109, 139
 - Dunning 110, 140, 158
 - Dunruchin 117, 125
 - Energies from 8
 - Fowlis Wester 89
 - Kilmartin 27, 117, 128
 - Lawers 9 71, 117
 - Lundin Farm, Aberfeldy 103
 - Monzie 90
 - Onich 129
 - Phadruig 74, 130
 - Stonefield 9, 44, 106, 107
 - Scone 111
 - St. Adamnan's 94
 - following energy from 12
 - Sensory perception 20
 - theta and delta in brains of 23
 - Staffa 81, 100–102, 128
 - Standing waves 37, 38, 66, 84, 94, 96, 108, 137, 189, 194, 206, 235
 - Static electricity 15, 17, 20, 173
 - Steps in the Snow, reports 230/238
 - Step charms 114
 - Stochastic resonance 190
 - St. Adamnan 60
 - bubonic plague and 61
 - stone 94
 - St. Fillans 103, 108
 - leper, the 103
 - holed stone and, 104/105
 - burial-ground, 103
 - St. Michael's Church 11, 111
 - St. Michael's Line 5, 92
 - St. Mary's Line 5, 92
 - Stirling Castle 94, 117
 - Stone of Destiny 131
 - Stone circles-
 - Balfarg 125
 - Boreray 89
 - Callanish 88, 90
 - Clachtoll 88
 - Clach-na-Tiompan 62, 117, 124, 126
 - Cairnpapple 95
 - Croftmoraig 48, 88
 - Dalchirla 126
 - Fortingall 98
 - geometric shapes, and 126
 - Killin 7, 71, 73–74, 109, 126, 138
 - Ringside Hill 89
 - Lundin 87, 103, 125
 - Machuium 46, 86, 89, 123
 - Tullybelton 109
 - Wavelength 86
 - Stone chamber, Vermont 53
 - ” Connecticut 146
 - Stoneleigh waves 206
 - Stone of Destiny 131/132
 - Stone tunnel 131, 170
 - Stonehouse M. 97
 - Stonehenge 222/3, 226
 - Straight leys (see leys) Strand Dr. E. 235
 - Strontium 144, 178
 - Suicidal thoughts,
 - Coriolis effect 20
 - stone chambers and 146
 - sun symbols 27
 - Sun and The Serpent 5, 66
 - Sun pillars 200
 - Super high frequencies 194
 - Sutherland Dr. W. 23, 173
 - S waves 205
 - Swinney H. 225
 - Sydenham Dr. W., 209
 - Sympathetic resonance 39/40, 42, 136
- T**
- Tam o'Shanter 68
 - Tacoma Narrows bridge 163
 - Taylor Couette Flow 228
 - Taylor Dr. E. 211
 - Tectonic plates-
 - Gorda 180/181
 - Juan de Fuca 180/181
 - Pacific 181
 - Telfair A. 206
 - Terrahertz generator 7
 - Tesla N. 51
 - Thermodynamics, and BoL 194
 - Thom. A. 4
 - Thoughts, suicidal 170
 - Thurston lava tubes 213/214

Toroids and crop circles 226
 Totem poles, 116
 Translight Art Pointer 228
 Transmitters, and electrosensitives, 18
 Trazka Prof. 172
 Treacle mines 210/211
 Trento S. 27, 101/102, 131, 147,219/220
 Triboelectricity, 197/198
 Triboluminescence 197/198
 Tributsch H. 176
 Trolls 213
 Troposphere 226
 Tumuli 55
 Tunnels 130/131, 140, 176, 213/214;
 beneath dungeons 14/15
 Turner Dr. D. 194

U

Uamh Tom a Mhor-fir cave 70
 Ultra-low frequencies prior to earth-
 quakes 15, 180
 UFO's 218
 Ultrasound 18, 176/177, 212, 223, 232
 Umbanhowar P. 225
 Underwood G. 3, 4, 23/24, 156
 Unhealthy energy 80, 82, 133/134, 141
 computers, from 13
 eliminating 136
 faults, from 19
 cats and 148
 Highland Boundary Fault 183
 shielings and houses 80
 Utukku 231

V

VeimeisterP. 187, 189,201
 Very low frequencies (VLF) 175, 177
 Very High Frequencies (VHF) 94
 Vibrations-
 crystals, 199
 planet, 176
 Visual hallucinations 18, 141, 146, 170
 Vitricification 213
 Volcanic dome 180
 Volcanic dykes 65
 Volcanic plugs, 5, 94/95, 125
 Volcanic sill, Kinnoull 94
 Volcanic tubes (see lava tubes)
 Volcanic tunnels (see lava tunnels)
 Volcanoes 89, 96, 100, 125, 152, 175, 182,
 200,202,210,213/214
 most dangerous, 182
 Von Däniken, E., 213, 215

W

Wainhouse Rev. 187
 Walker B. 175, 183
 Water, chemicals in 153
 Water bulls (horses) 67–68, 231, 237
 Watkins 1
 Waves:
 P waves 177
 polarization 235
 S waves 177
 Shear 235
 Waveguide:
 for BoL's 187
 steps in the snow 234
 Wave trains 221
 Waveguides 163, 194, 206
 in snow 234–236
 Wavelengths:
 amplifying 117–118
 ball lightning 189
 through burial-ground 36
 from computers 11–13,
 cup-mark leys 40
 cup-marked stone 29, 32, 38;
 Druid's Cave 126
 earth movements, due to 205/206
 'Electric Brae', 96
 ghost train and 138
 haunted house 140
 Highland Boundary Fault 183
 from standing stones 117,
 increasing energy at standing stone, 117
 ley lines, straight 84
 nuclear submarines 18
 pressure 176
 seismic 154, 174, 232
 shape waves and 37/38
 shear waves and 146
 shielings, through 80–82
 strange characteristics 40
 Loch Tay cup-mark, from 137
 crystal on top, 117
 straight leys and 84
 at stone circle, 86
 table of wavelengths, and, 122
 volcanic plugs, 94
 Wells-
 Clach na h'Tobairte 69
 healing 64, 66, 69, 92, 116
 hissing and moaning 151
 light emitting 152
 mud 210
 strange smells 152
 tar 210
 Wemyss Cave 26

Wesley Rev. S. 206
White spirals 23, 133
Whittall J. 131
Whitehead C. 189
Wilson I. 164–165
Witch of Pittentian 119
World Health Organization 218

Worms 65/66, 92

Z
Zeiki Professor 246

A fascinating and visual book about subtle
Earth energies and how they affect us
and the world around them.

The mysterious standing stones, burial grounds and stone circles that lace Europe, the British Isles and other areas have intrigued scientists, writers, artists and travellers through the centuries. They pose so many questions: Why do some places feel special? How did our ancestors use Earth energy to map their sacred sites and burial grounds? How do ghosts and poltergeists interact with Earth energy? How do ley lines work? How can Earth spirals and black spots affect our health? This exploration shows how natural forces affect our behavior, how they can be used to enhance our health and well being, and ultimately, how they bring us closer to penetrating one of the deepest mysteries being explored.

Other books of interest:

- The Energy Grid
- The Bridge to Infinity
- The Harmonic Conquest of Space
- Anti-Gravity & the World Grid
- The Round Towers of Atlantis

Adventures Unlimited Press
www.adventuresunlimitedpress.com

ISBN 1-931882-15-0



9 781931 882156

90000

