

THE  TIMES
ILLUSTRATED
HISTORY *of*
EUROPE



Felipe Fernández-Armesto

OUT OF THE ICE

The non-completion of a continent



Europe after the ice age, c. 10,000 BC

- Mesolithic settlement
- modern coastline
- birch forest
- north mixed forest
- deciduous forest
- montane forest
- Mediterranean forest
- ice



The spread of agricultural settlement

→ main route of agrarian expansion

dates of agricultural settlement (based on tree-ring corrected radiocarbon dating)

7000-6000 BC	3000-2000 BC	bowl cultures	early farming groups
6000-5000 BC		● Hembury	site of excavated farming village
5000-4000 BC			
4000-3000 BC			

Knossos, Crete

hunters

North Sea

Atlantic Ocean

funnel rim pottery cultures

Baltic Sea

Danubian linear incised pottery culture

Pyrenees

impressed ware

Mediterranean

hunters and pastoralists

Alps

Apennines

Dinaric Alps

Carpathian Mts

Balkan painted and impressed ware cultures

hunters and pastoralists

Sea

Thessaly

Argissa

Pindus Mts

Aegean Sea

early painted ware cultures

Anatolia

Black Sea

Dnieper

Sredny Stog

Pripiet

Dniester

Tirpești

Fărtăria

Starcevo

Divostin

Balkan Mts

Maritsa

Karanovo

Varna

Danube

Tisza

Hódmezővásárhely

Molino

Casarotto

Ripabianca

Passo di Corvo

Arene Candide

Verdelpino

Coveta de l'Or

Leucate

Garonne

Villeneuve-Tolosane

Chassey

Loire

Seine

Cuiry-lès-Chaudardes

Weser

Zwenkau

Elbe

Oder

Bylany

Brześć Kujawski

Vistula

Exloo

Cologne-Lindenthal

Windmill Hill

Hembury

Ballynagilly

Gruta de Fuminha

Stentinello

Crete

30

40

50

60

70

10°

20°

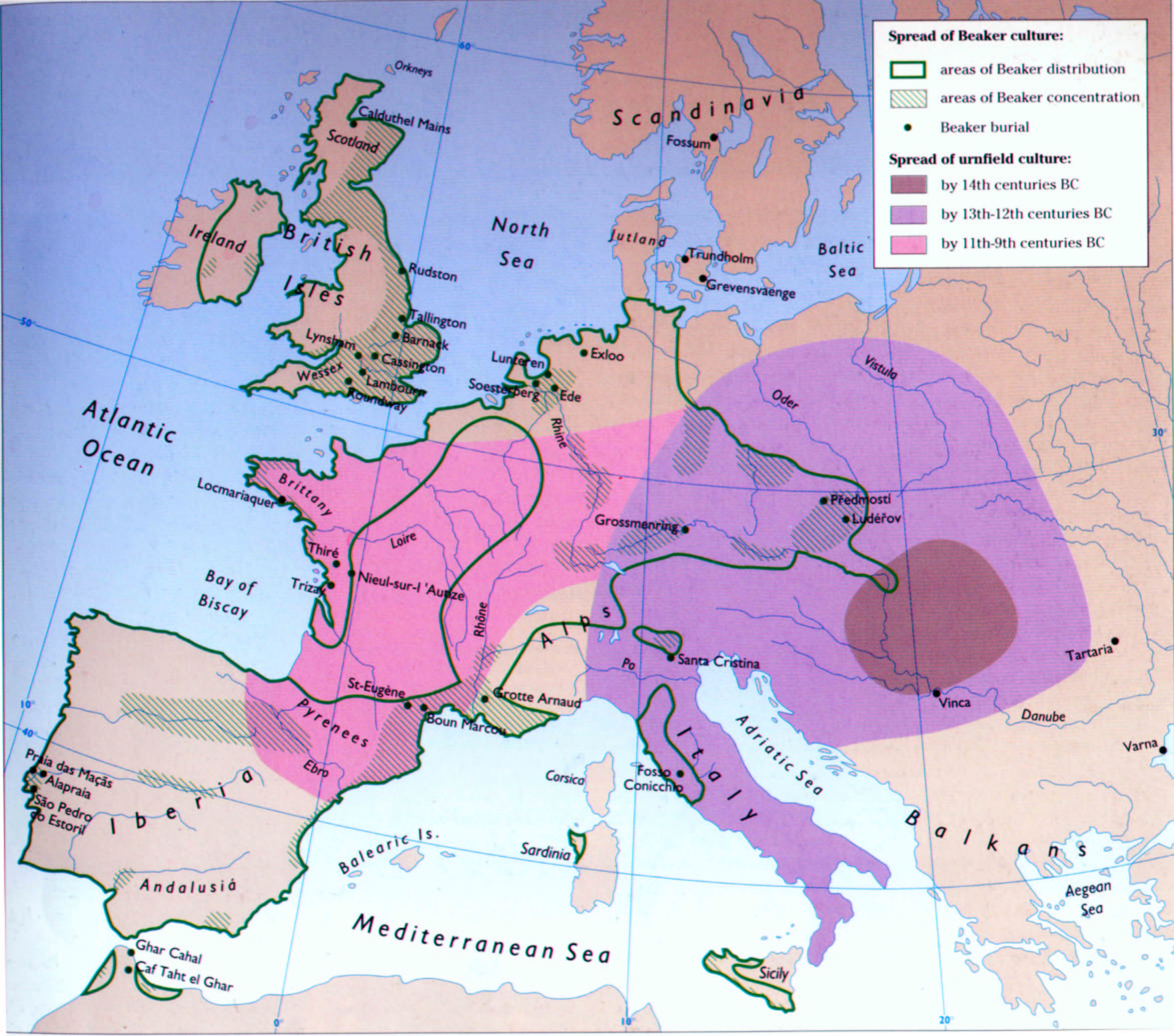
30°

40°

50°

60°

70°



Spread of Beaker culture:

- areas of Beaker distribution
- areas of Beaker concentration
- Beaker burial

Spread of urnfield culture:

- by 14th centuries BC
- by 13th-12th centuries BC
- by 11th-9th centuries BC








Geographical Labels: Scandinavia, North Sea, Baltic Sea, Atlantic Ocean, Mediterranean Sea, Adriatic Sea, Aegean Sea, Iberia, Italy, Balkans, Scandinavia, Jutland, British Isles, Ireland, Scotland, Orkneys, Wessex, Rhine, Alps, Pyrenees, Corsica, Sardinia, Sicily, Balearic Is., Tartaria, Varna, Vinca, Danube, Oder, Vistula, Grossmenring, Luděřov, Přebmosti, Exloo, Ede, Soesterberg, Lunteren, Trundholm, Grevensvaenge, Fossom, Fosse, Conicchio, Santa Cristina, Nieul-sur-l'Aunize, Trizay, Thiré, Brittany, Locmariaquer, Ghar Cahal, Caf Taht el Ghar, Andalusia, Práia das Maças, Alapraia, São Pedro do Estoril.

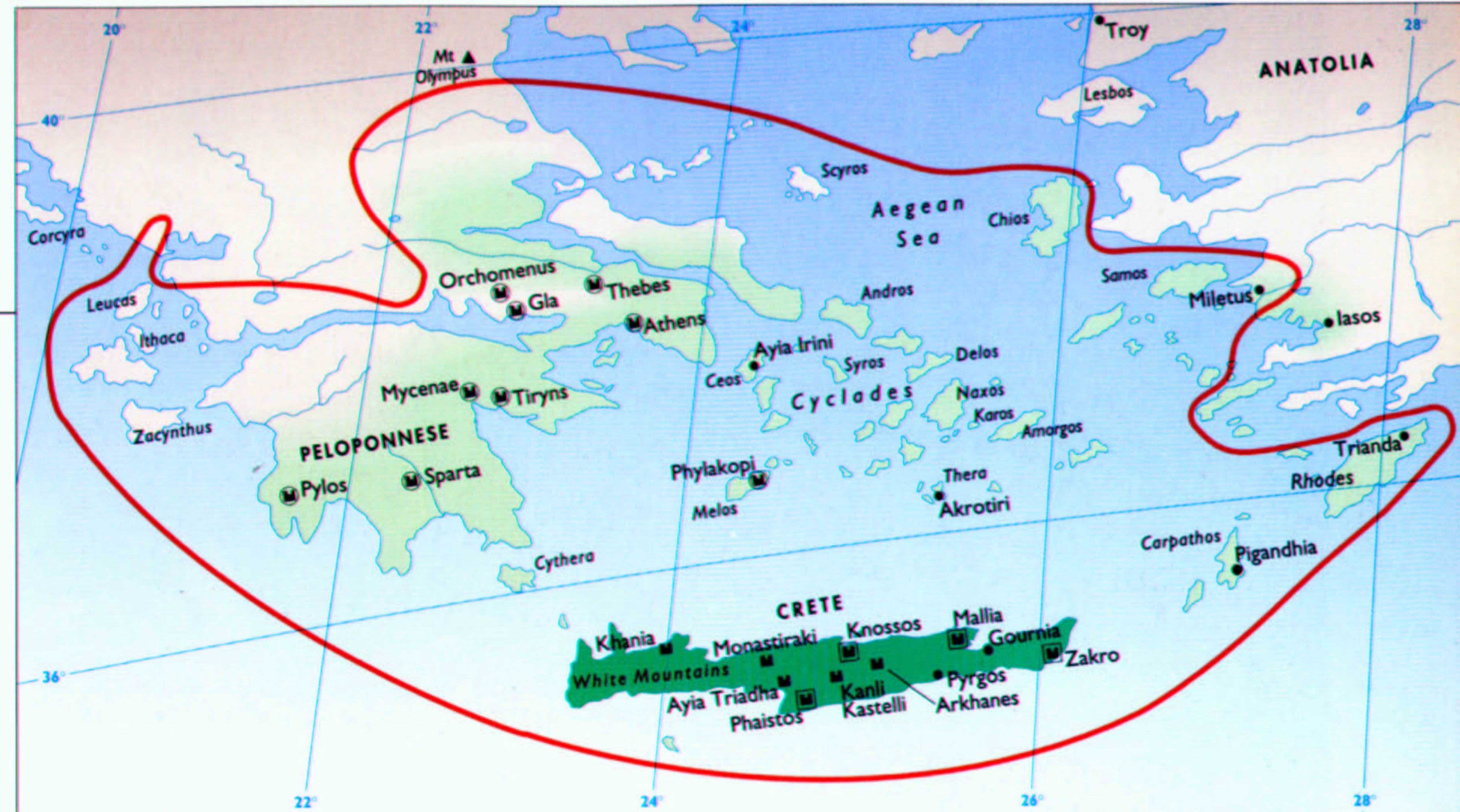
Rivers and Water Bodies: Loire, Rhône, Po, Ebro, Bay of Biscay, North Sea, Baltic Sea, Adriatic Sea, Aegean Sea, Mediterranean Sea.

Other Labels: Calduthel Mains, Rudston, Tallington, Barnack, Cassington, Lambourn, Roundway, Lynsham, Soesterberg, Ede, Exloo, Trundholm, Grevensvaenge, Fossom, Přebmosti, Luděřov, Grossmenring, Santa Cristina, Nieul-sur-l'Aunize, Trizay, Thiré, Brittany, Locmariaquer, Ghar Cahal, Caf Taht el Ghar, Andalusia, Práia das Maças, Alapraia, São Pedro do Estoril.

From early in the second millennium BC, Crete played host to the highly developed Minoan culture, whose rulers built impressive palaces such as that at Knossos. By the 15th century BC, however, the Cretan palaces were destroyed, by natural disasters or invasion. Until the 12th century BC, the Aegean was dominated by a culture from the Greek mainland, that of the Mycenaeans *map right*.





The Aegean, 2500-1200 BC

-  frontiers of Mycenaean world c. 1300 BC
-  major Mycenaean palaces (c. 1500-1200)
-  major Minoan palaces
-  smaller Minoan palaces
-  other Minoan settlements
-  core area of the Minoan civilisation
-  maximum extent of Minoan cultural influence



The Celtic peoples who dominated northern Europe in the 1st millennium BC may well have been the long-established inhabitants of France, Germany and the Alpine regions, but during the later centuries BC Celtic invasions reached into Iberia, Italy, Greece and Anatolia. This brought their sphere right up against the margins of the Mediterranean world, whose shores the Greeks had been colonising since the 9th century BC.

Greek and Celtic expansion from the 9th century BC

- | | | | |
|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|  | Celtic heartland by 200 BC |  | core area of Greek city-states at the end of the 9th century BC |
|  | Celtic expansion |  | colonised by the Greeks between the 8th and 6th centuries BC |
|  | Celtic settlements | Megara | Greek mother cities |
| | | Side | Greek colonies |



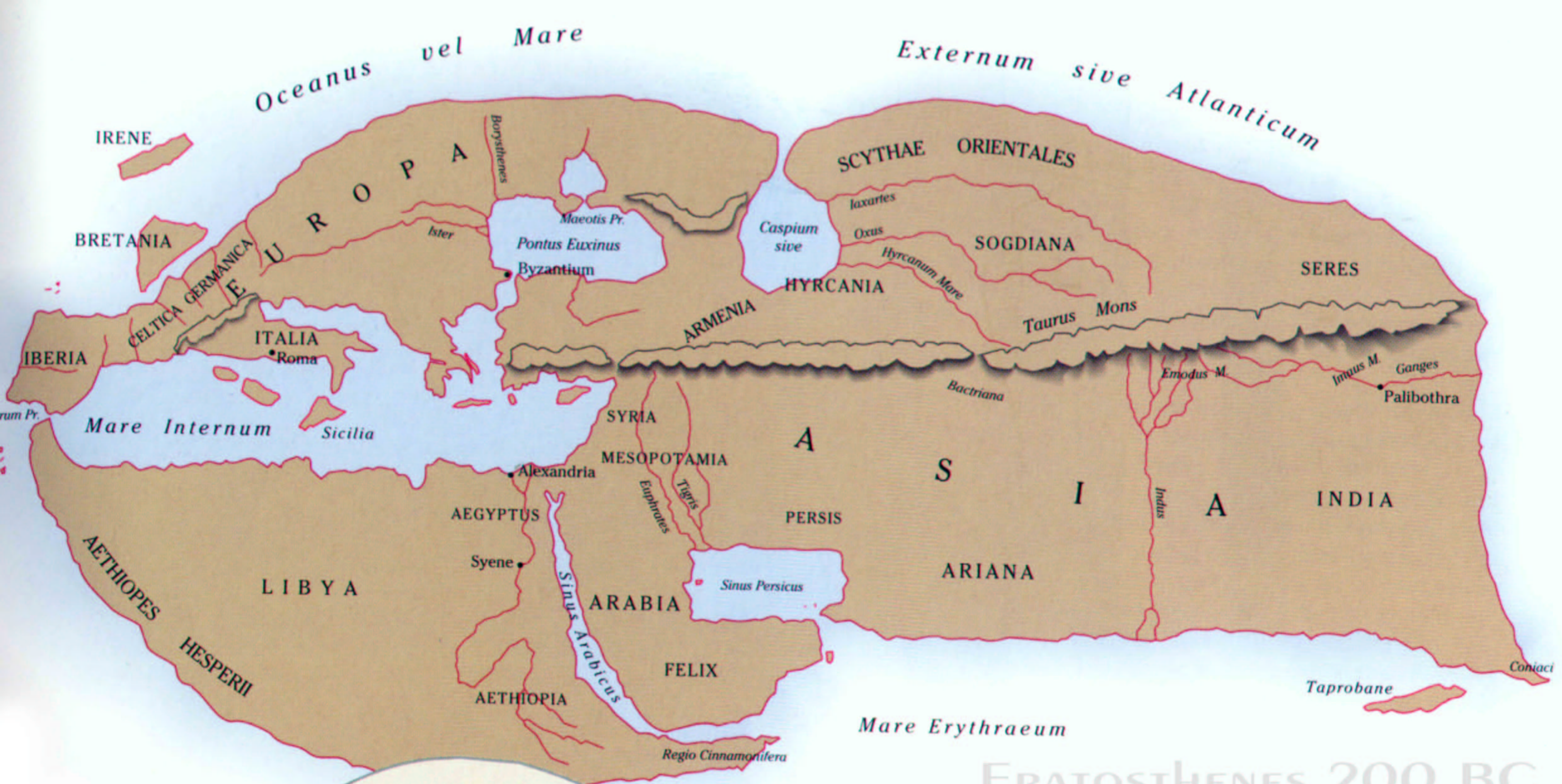
The Roman empire up to AD 117

- the Roman empire, 31 BC
- Added to Rome:**
- by AD 14 (with dates)
- by AD 98 (with dates)
- by AD 117 (with dates)
- temporary conquests (with dates)
- frontiers, AD 117

From the first century BC the Roman empire expanded to absorb many of the cultures which had been its potential rivals: Iberians, Celts, Illyrians and Thracians. These peoples resisted or collaborated, but were ultimately incorporated. Left in resentful exclusion on Rome's periphery, however, the Germans and Slavs were deprived of the fruits of a civilisation which, 300 years later, they were to devastate.

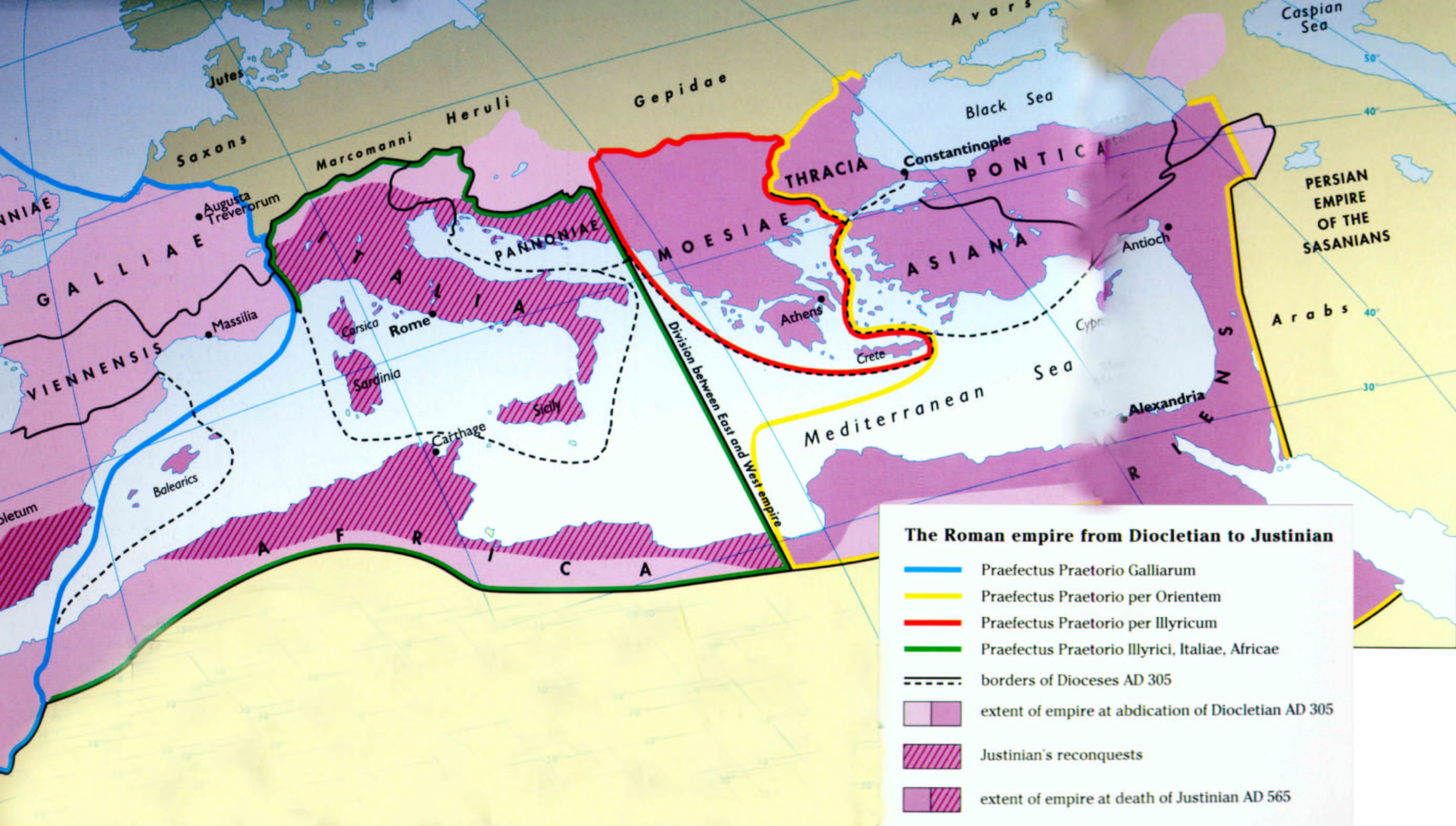






ERATOSTHENES 200 BC

MILETUS 500 BC

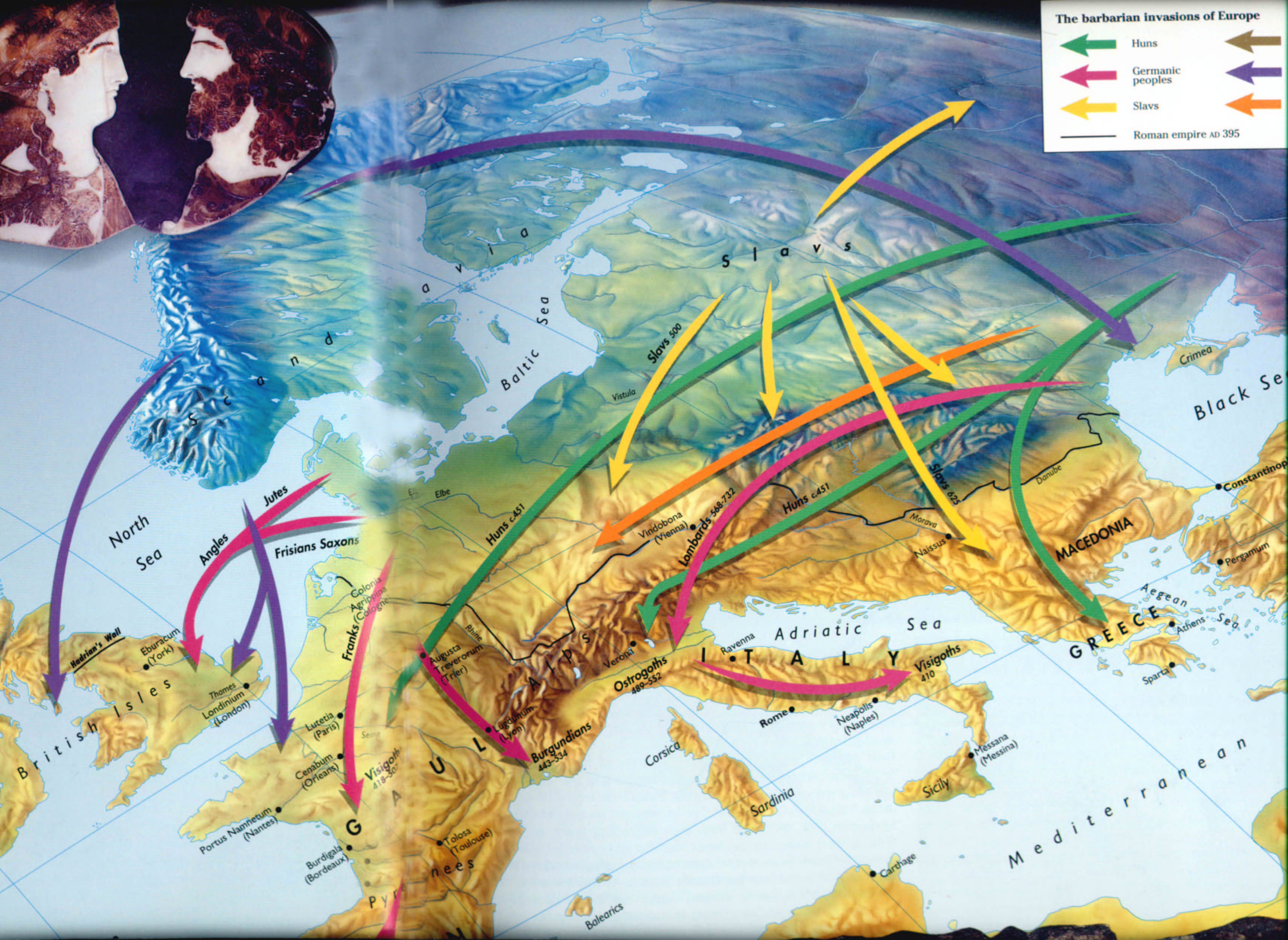


The Roman empire from Diocletian to Justinian

- Praefectus Praetorio Galliarum
- Praefectus Praetorio per Orientem
- Praefectus Praetorio per Illyricum
- Praefectus Praetorio Illyrici, Italiae, Africae
- borders of Dioceses AD 305
- extent of empire at abdication of Diocletian AD 305
- Justinian's reconquests
- extent of empire at death of Justinian AD 565







The barbarian invasions of Europe

	Huns	
	Germanic peoples	
	Slavs	
	Roman empire AD 395	



The main thrust of Christian expansion into Europe was north and east from the line of the Rhine and the Danube. In both directions the Frankish church took the lead. Meanwhile, Rome and Constantinople competed for the allegiance of the Balkans

The spread of Christendom, from the 8th to the 12th centuries

-  main route of mission
-  metropolitan see
-  bishopric
-  monastery/hermitage
-  Frankish realm 714
-  furthest extent of Frankish empire 814





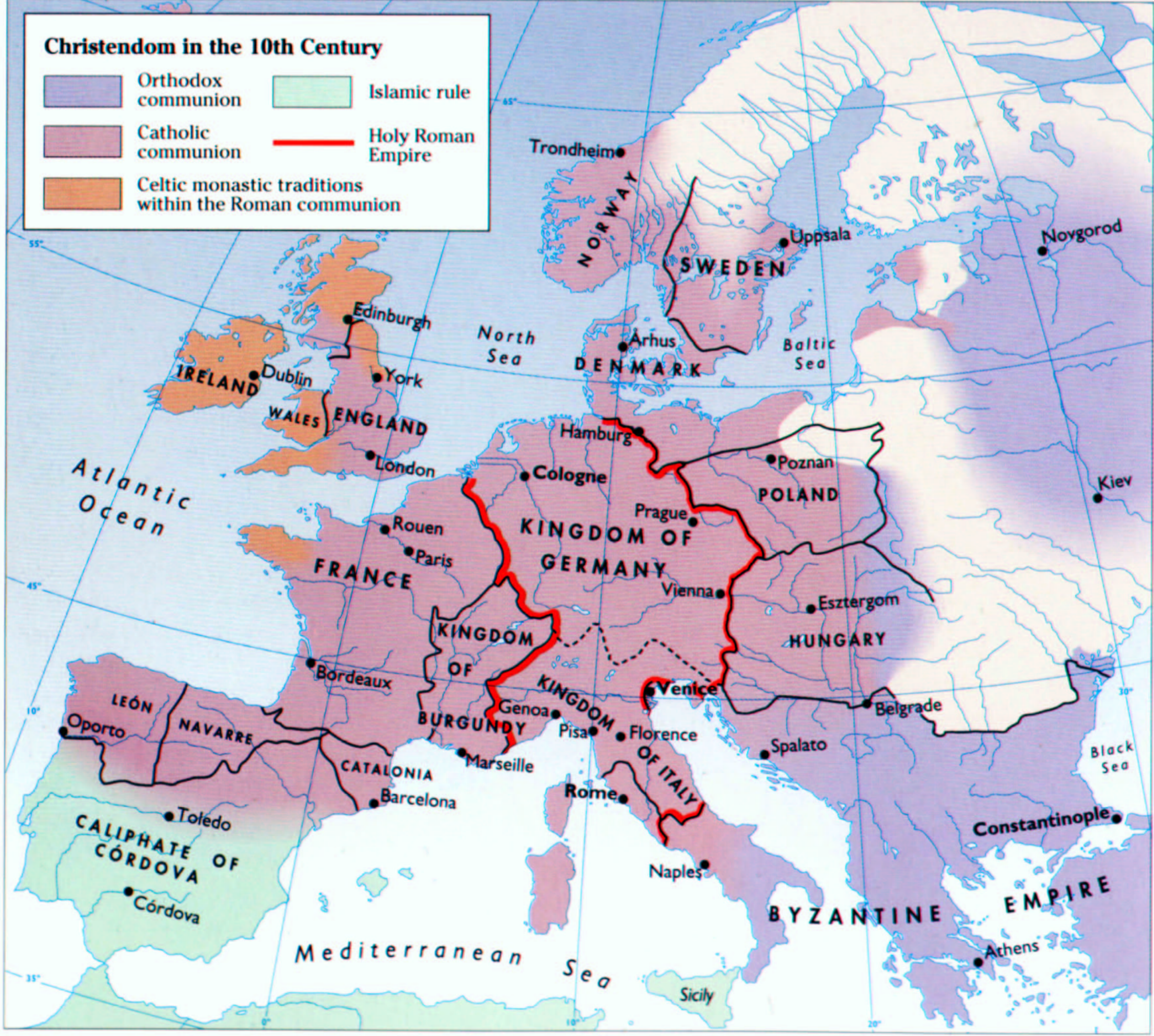
The inhospitable lands of the north successfully resisted absorption into Islamic Spain *map left*. The Asturian kingdom became home by the ninth century to a rich culture, and, as the kingdom of León, formed one of the nuclei of Christian expansion southwards from the tenth century. By the eleventh century, Christian states were well-established in the north of Spain, which could effectively challenge the increasingly enfeebled Muslim states to the south.

Northern Spain: Christian States, 718–1030

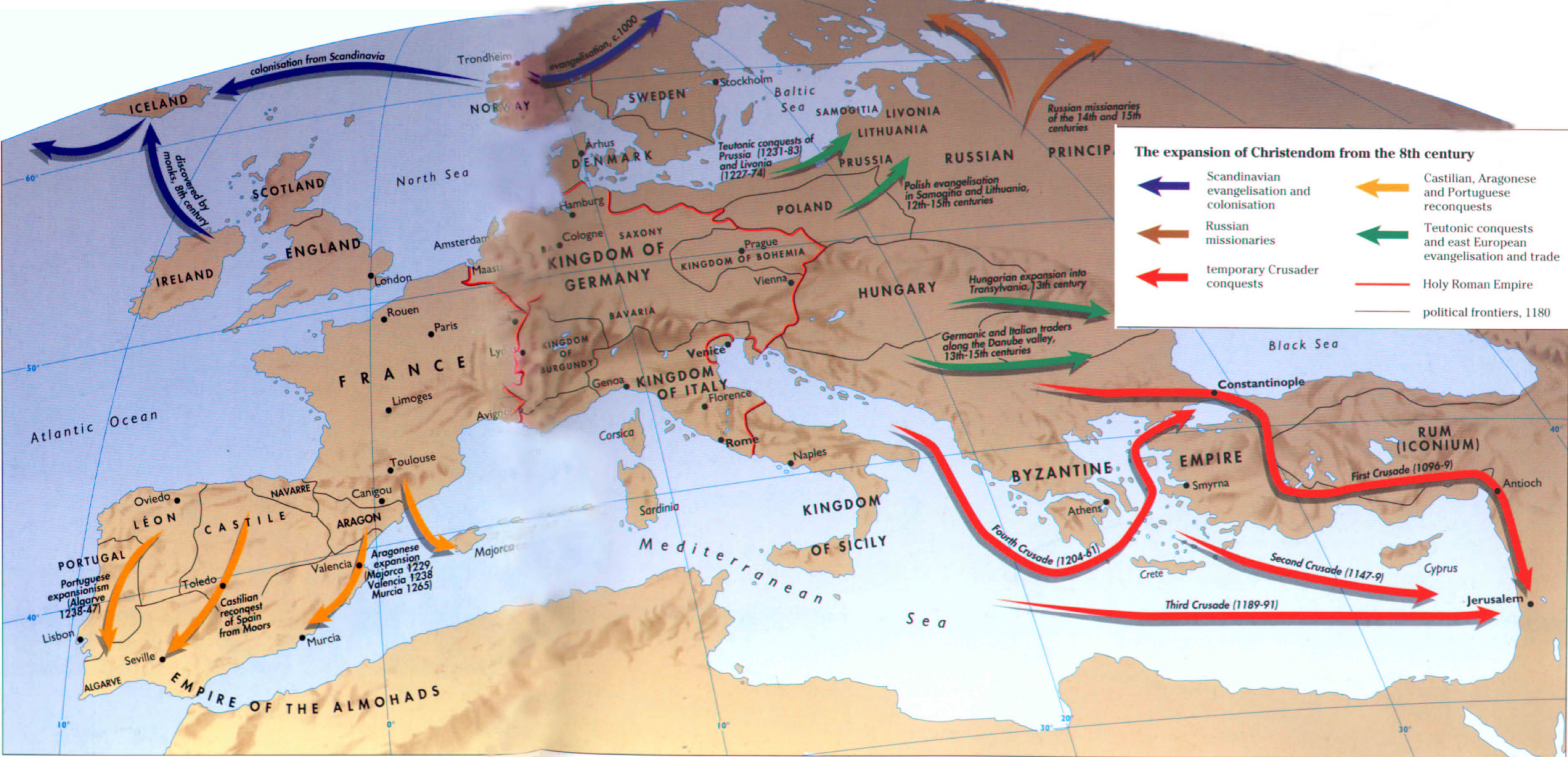
- northern boundary of Islamic conquest by c.740
- Catalan counties
- frontiers of the Frankish empire and of Asturias in 814
- Asturias from 718
- frontiers, 1030

Christendom in the 10th Century

- Orthodox communion
- Catholic communion
- Celtic monastic traditions within the Roman communion
- Islamic rule
- Holy Roman Empire



Although by the eleventh century Christendom seemed to be making gains at the expense of the Muslims and pagans who had previously threatened to engulf her, the church remained divided between eastern and western communions *map left*. Bitter competition for the allegiance of the Balkans was exacerbated by theological differences. In 1054 a formal schism occurred, with the excommunication of the orthodox patriarch by a papal legate.



The expansion of Christendom from the 8th century

	Scandinavian evangelisation and colonisation		Castilian, Aragonese and Portuguese reconquests
	Russian missionaries		Teutonic conquests and east European evangelisation and trade
	temporary Crusader conquests		Holy Roman Empire
			political frontiers, 1180

ICELAND
discovered by monks, 8th century

colonisation from Scandinavia

evangelisation, c.1000

Teutonic conquests of Prussia (1231-83) and Livonia (1227-74)

Polish evangelisation in Samogitia and Lithuania, 12th-15th centuries

Russian missionaries of the 14th and 15th centuries

Hungarian expansion into Transylvania, 13th century

Germanic and Italian traders along the Danube valley, 13th-15th centuries

Portuguese expansionism (Algarve 1238-47)

Castilian reconquest of Spain from Moors

Aragonese expansion (Majorca 1229, Valencia 1238, Murcia 1265)

Fourth Crusade (1204-61)

Second Crusade (1147-9)

Third Crusade (1189-91)

First Crusade (1096-9)

Jerusalem

EMPIRE OF THE ALMOHADS

BYZANTINE EMPIRE

RUM (ICONIUM)

KINGDOM OF SICILY

KINGDOM OF ITALY

KINGDOM OF BOHEMIA

KINGDOM OF GERMANY

FRANCE

ENGLAND

SCOTLAND

SWEDEN

NORWAY

DENMARK

POLAND

PRUSSIA

LITHUANIA

SAMOGITIA

LIVONIA

RUSSIAN PRINCIPALITY

HUNGARY

VIENNA

PRAGUE

AMSTERDAM

COLOGNE

HAMBURG

PARIS

ROUEN

LONDON

MAASTRICHT

AVIGNON

TOULOUSE

LIMOGES

CANIGOU

TOLEDO

MURCIA

SEVILLE

LISBON

VALENCIA

GENOVA

VENICE

ROME

ATHENS

SMYRNA

ANTIOCH

CONSTANTINOPLE

TRONDHEIM

STOCKHOLM

ARHUS

AMSTERDAM

COLOGNE

HAMBURG

PARIS

ROUEN

LONDON

MAASTRICHT

AVIGNON

TOULOUSE

LIMOGES

CANIGOU

TOLEDO

MURCIA

SEVILLE

LISBON

VALENCIA

GENOVA

VENICE

ROME

ATHENS

SMYRNA

ANTIOCH

CONSTANTINOPLE






The Hanseatic League map left, led by Lübeck in the Baltic, promoted trading privileges and monopolies for its member towns. From its beginnings in the twelfth century, the League grew to 70 members and around 200 associated cities. The cities were ideally placed for access to markets where Mediterranean produce and commercial interests met those of the Baltic and the North Sea.

Hanseatic trade routes


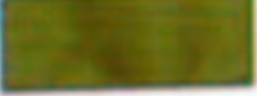

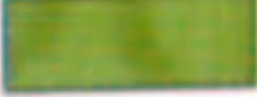
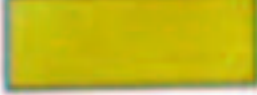



- Hanseatic League town
- ▲ main trading outpost
- △ trading outpost
- Hanseatic trade route
- frontiers, 1382

The last nomadic conquests in Europe, 1223-41

-  Mongol incursion of Dzhebe and Subedeya
-  routes of Batya's conquering horde
-  movement of Russian forces



The expansion of the Ottoman Turks into Europe

-  Ottoman empire, 1359
-  added by 1389
-  added by 1402
-  added by 1464
-  added by 1500
-  Ottoman vassals by 1500
-  main routes of the Ottoman advance
-  battles



Turkish raiders first devastated, then occupied large tracts of the Byzantine empire in Asia Minor from the mid-thirteenth century, crossing over into Europe from the mid-fourteenth. This 16th-century fresco *left* depicts the results of one such raid in 1352: the monks of the monastery of Saint Simon are martyred by the turbaned invaders. The expansion of the Ottoman Turks into the Balkans *map right* would take them as far as the gates of Vienna by the early sixteenth century.



The growth of Muscovy to 1505

- Muscovite territory at the end of 13th century
- acquisitions to 1462
- acquisitions under Ivan III 1462-1505
- boundary of Russian territories in 1462

Lapps

Barents Sea

Kola Peninsula

White Sea

Meze

pechora

pechora

Ural Mountains
Yugra

SWEDEN

KARELIA

NOVGOROD

L. Onega

Kargopol

Solvychegodsk

Ustyug

Solikamsk

Vyborg

L. Ladoga

Gulf of Finland

Narva

TEUTONIC ORDER

ORDER

Riga

Pskov

Novgorod

Vologda

Soligalich

Galich

Vyatka

Mari

Udmurty

Kungur

KHANATE OF KAZAN

Belaya

Ufa

Bashkirs

Polotsk

Vitebsk

Mozhaysk

Moscow

Vladimir

Nizhniy Novgorod

Kazan

Minsk

Mogilev

Smolensk

Kaluga

Kolomna

Ryazan

Arzamas

Mordva

Chuvashi

GREAT KHANATE (GOLDEN HORDE)

Orenburg

LITHUANIA

Pinsk

Gomel

Bryansk

Tulz

Ryazan

Kamyshin

Nogai Tartars

Novgorod-Volynskiy

Kiev

Pereyaslavl

Poltava

Zaporozh'ye

Sech

MOLDAVIA

KHANATE OF CRIMEA

Don Cossacks

Don

Kuban Cossacks

Sea of Azov

Kerch

Black Sea

Crimea

24°

52°

60°

68°

48°

60°

Ob

London
 Court of Henry VIII.
 Humanism: visits of Erasmus, 1505-11, to the circle of Thomas More. Eustache Chapuys, Imperial ambassador in London, 1529-44, brings wide range of humanist contacts from Turin.
 Florentine sculptor Torrigiano visits England, c. 1511-20. His pupils del Nunziato and Penni naturalised in England, 1537.
 Sir Thomas Wyatt travels to Rome in 1527; brings back Italian verse forms
 Hans Holbein, humanist and portrait painter, visits England 1526-28 and 1532-43; decisively influences English portrait styles.
 Renaissance architecture introduced through patronage of Cardinal Wolsey from c. 1529. Nonsuch Palace, begun in 1538, sees introduction of further Italian architectural influences, mediated via Loire.

Fontainebleau
 Court of Francis I.
 During Francis's Italian campaign in 1515 he sees "all the best works in Italy"; acquires services of Leonardo and Andrea del Sarto. In Rome, he acquires cast of Laocöon and large collection of casts and bronzes of classical statuary. Francis patronises Florentine artists, e.g. Rosso (1530), Primaticcio (1532) and Cellini (1540). In 1541, Venetian architect Serlio recruited to work at Fontainebleau.

Basle
 Humanist printers patronised. Holbein visits Lombardy c.1520? Correspondence of Erasmus and other Basle humanists with Venice, Florence and Rome; trade in engravings.
 5 Visits of Erasmus to Brussels and London.

Toledo
 Influence of Andrea Navagiero, Venetian ambassador 1522-8. Italian verse-forms introduced (1520s) by Bosca and De la Vega (latter exiled to Naples, 1532-6). Classicising Hospital de Tavera built by de Covarrubias, 1541.

Lisbon
 Sá de Miranda returns from Italy (1526) with Italian verse forms.

Seville
 Classical influences mediated via Toledo and Granada: e.g. classicising tomb of Cardinal Mendoza (1510) and Town Hall by Riaño (1527).

Granada
 Close contacts with Italy reflected in classicising buildings: cathedral by de Siloe (1528) and palace of Charles V by Pedro Machuca (1531).

Brussels
 Court of Mary of Hungary. After Ottoman rout of Hungarians at Mohács in 1526, Mary brings tradition of court of Matthias Corvinus to Brussels: patronises painters and humanists from Basle and Florence. From the 1540s, she forms a large collection of paintings by Titian.

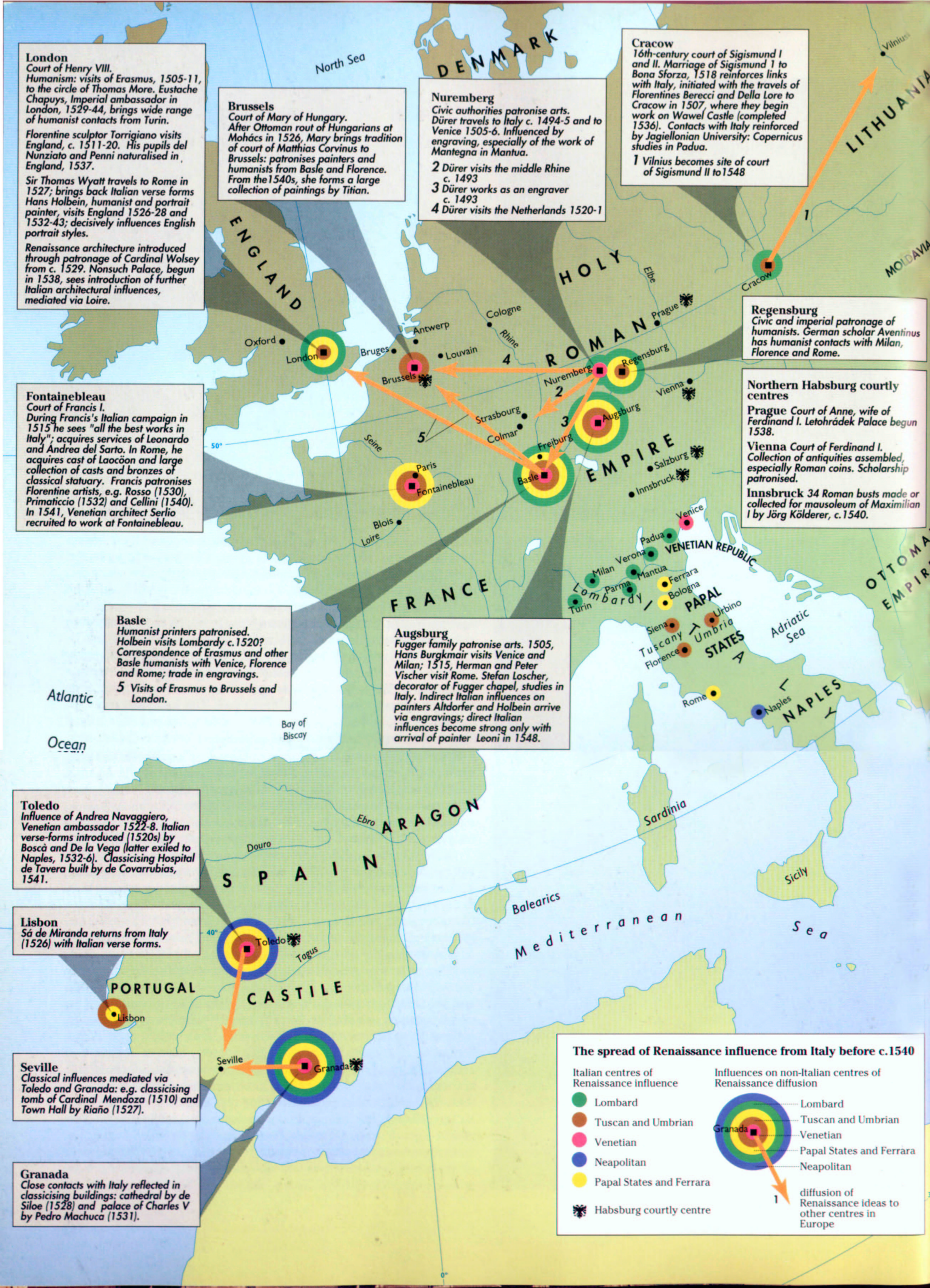
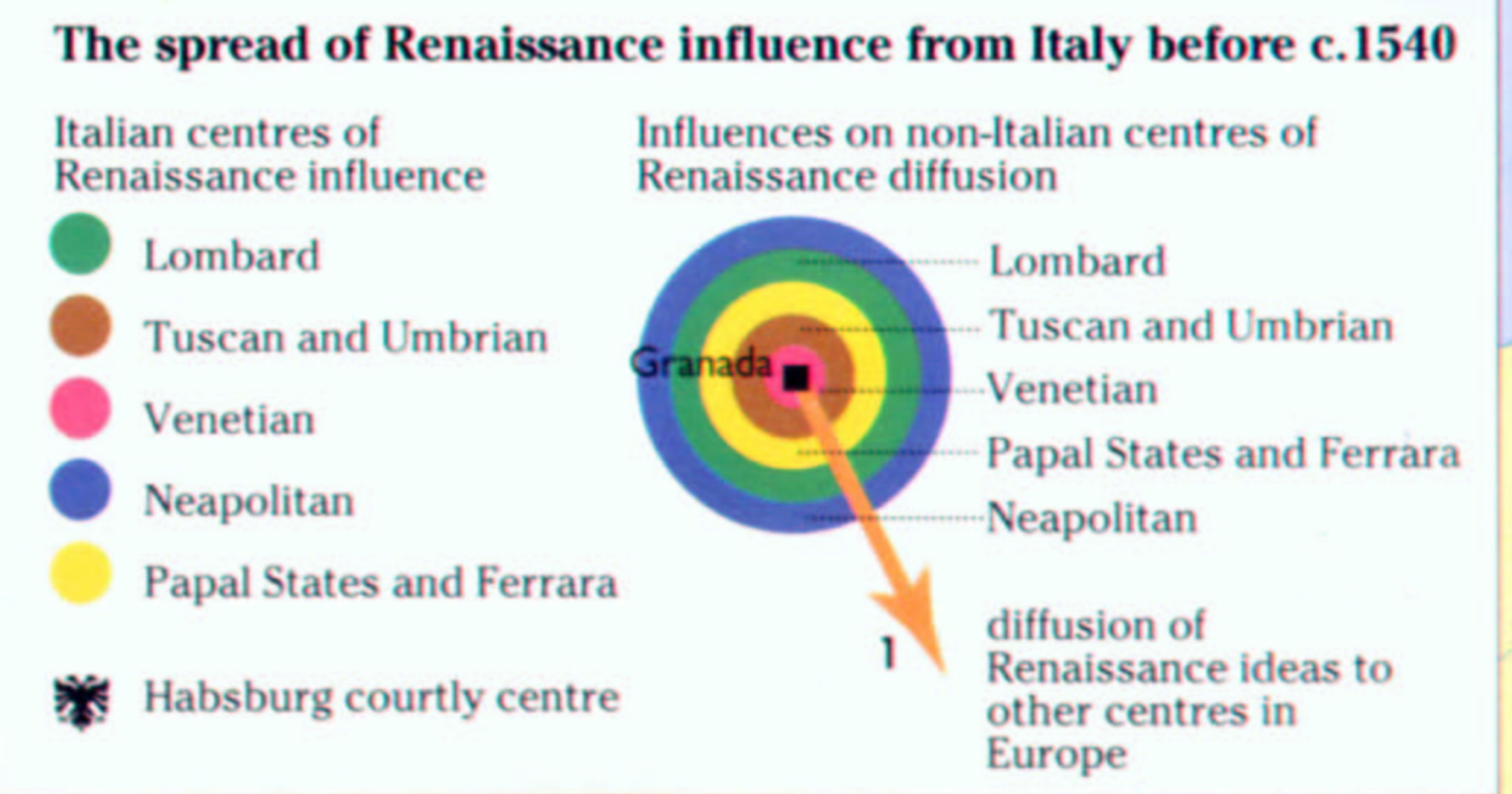
Nuremberg
 Civic authorities patronise arts. Dürer travels to Italy c. 1494-5 and to Venice 1505-6. Influenced by engraving, especially of the work of Mantegna in Mantua.
 2 Dürer visits the middle Rhine c. 1493
 3 Dürer works as an engraver c. 1493
 4 Dürer visits the Netherlands 1520-1

Cracow
 16th-century court of Sigismund I and II. Marriage of Sigismund I to Bona Sforza, 1518 reinforces links with Italy, initiated with the travels of Florentines Berecci and Della Lore to Cracow in 1507, where they begin work on Wavel Castle (completed 1536). Contacts with Italy reinforced by Jagiellonian University: Copernicus studies in Padua.
 1 Vilnius becomes site of court of Sigismund II to 1548

Regensburg
 Civic and imperial patronage of humanists. German scholar Aventinus has humanist contacts with Milan, Florence and Rome.

Northern Habsburg courtly centres
Prague Court of Anne, wife of Ferdinand I. Letohrádek Palace begun 1538.
Vienna Court of Ferdinand I. Collection of antiquities assembled, especially Roman coins. Scholarship patronised.
Innsbruck 34 Roman busts made or collected for mausoleum of Maximilian I by Jörg Kölderer, c.1540.

Augsburg
 Fugger family patronise arts. 1505, Hans Burgkmair visits Venice and Milan; 1515, Herman and Peter Vischer visit Rome. Stefan Loscher, decorator of Fugger chapel, studies in Italy. Indirect Italian influences on painters Altdorfer and Holbein arrive via engravings; direct Italian influences become strong only with arrival of painter Leoni in 1548.



Amsterdam: works in shipyards of Dutch East India Company for four months. Studies surgery with Ruysch.
Zaandam: takes carpenter's job in shipyard.
Texel: visits Dutch whaling fleet, becomes disillusioned with Dutch shipbuilding.
Leiden: studies anatomy with Boerhaave.
The Hague: sits in on the negotiations for the Treaty of Ryswick.
Utrecht: meets William III of England but finds him politically unhelpful.



EUROPEAN TRAVELS OF PETER THE GREAT

Venice: projected visit to study galley construction aborted because of news of rebellion at home

Religious divisions, 1560

- date of change from Catholicism to Lutheranism
- ▲ date of change to Calvinism or Zwinglianism
- 2 delegates sent to last session of Council of Trent
- Anabaptist minorities
- ▲ Calvinist minorities
- ▼ Lutheran minorities
- Roman Catholic minorities
- Muslim minorities
- Roman Catholic
- Calvinist
- Lutheran
- Anglican
- Hussite
- Orthodox
- Muslim

Scattered Jewish communities existed in the Ottoman empire, Hungary, Poland, Portugal, Bohemia and Italy.



Atlantic Ocean

The heroism of the commonplace: bourgeois family values are painted by Frans Hals in plain clothes and muted colours left as if in parody of aristocratic group portraits.

In the early stages of the Reformation, Protestant, Catholic and Orthodox versions of Christianity were thoroughly intertwined and hard to tell apart, but by the second half of the sixteenth century, an attempt can be made to map the distribution of the frontiers of the various confessions, *map this page*, as the principle became established that the religion of the state was that of the ruler.

Social and religious dissent, 1381-1400



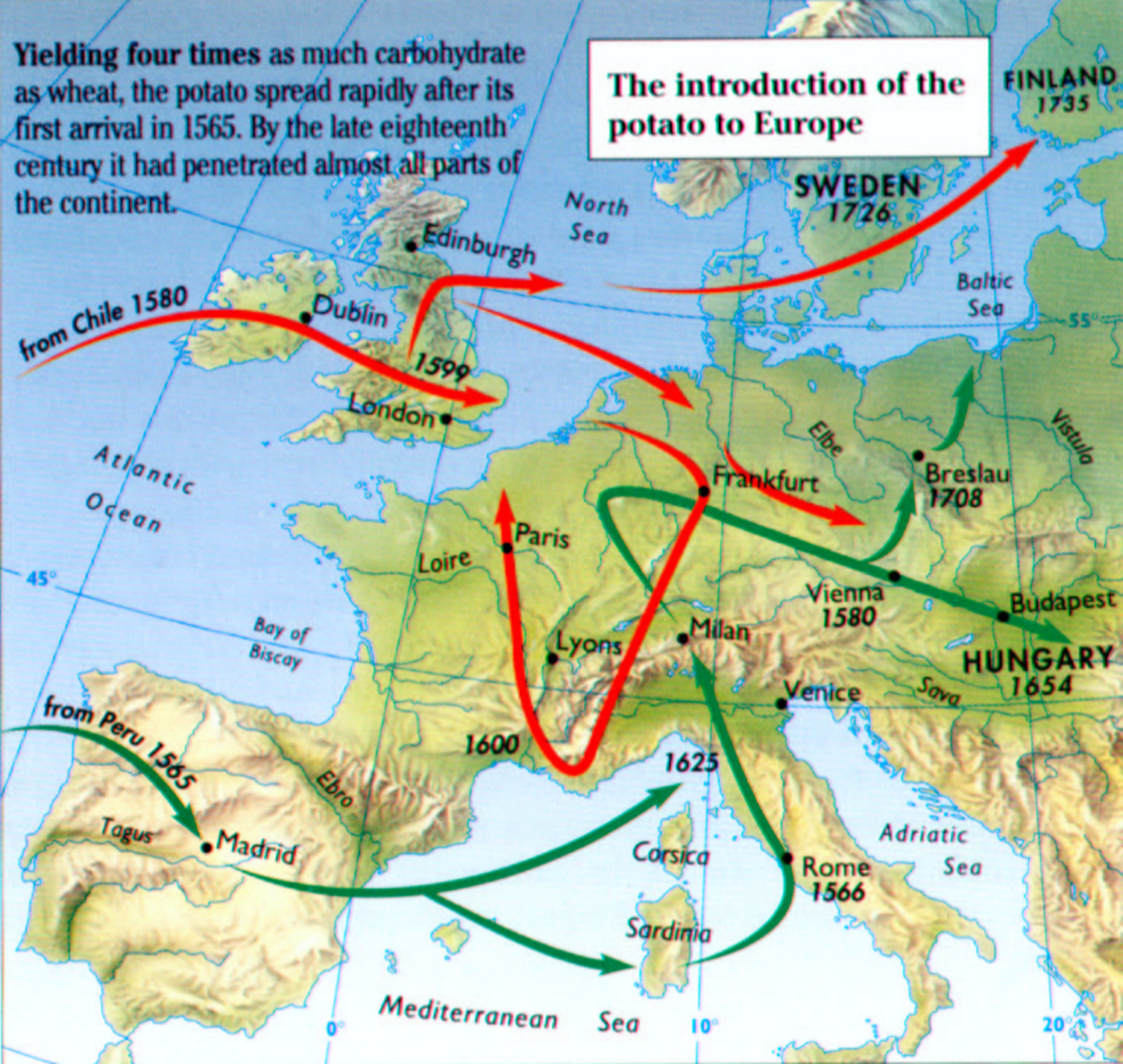
The expansion of European railways, 1850-1914

- railway network developed by 1850
- railway development 1850-1870
- railway development 1870-1914
- areas of industrial concentration 1870-1914
- frontiers, 1914

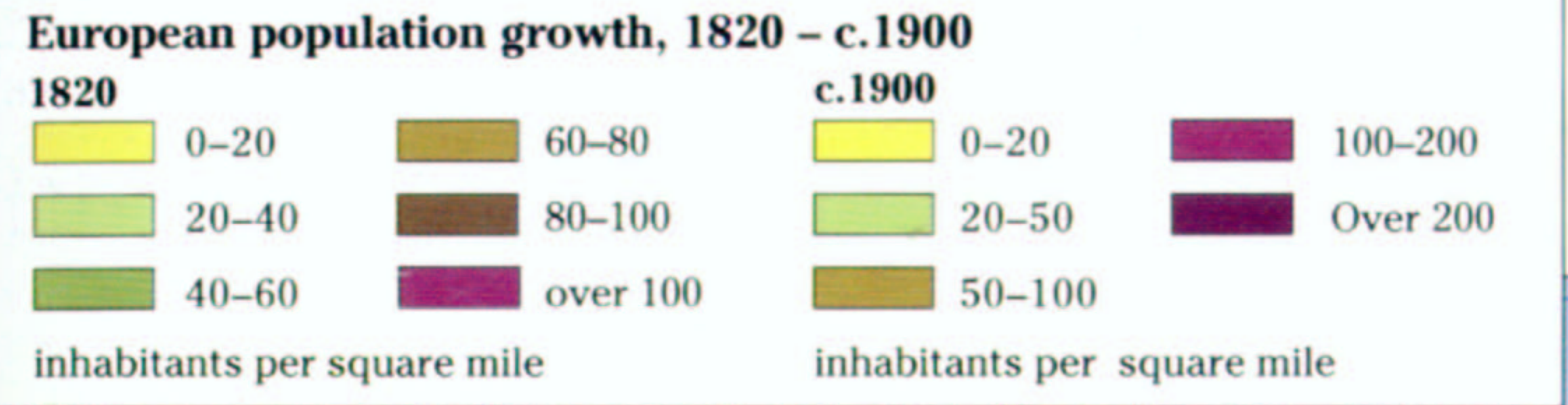


Yielding four times as much carbohydrate as wheat, the potato spread rapidly after its first arrival in 1565. By the late eighteenth century it had penetrated almost all parts of the continent.

The introduction of the potato to Europe

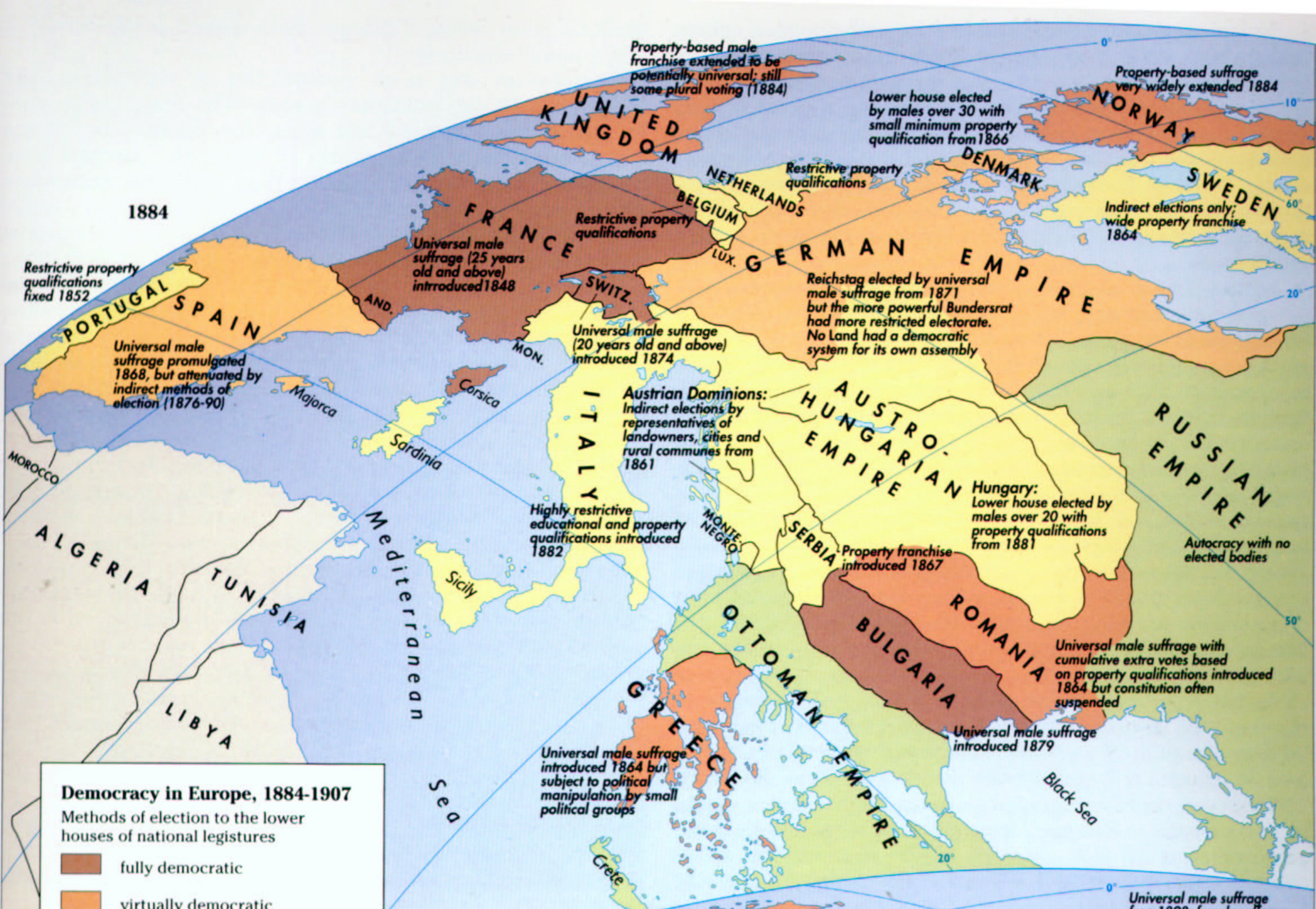


1820



IN 1820, THE PRINCIPAL CENTERS OF POPULATION WERE THE INDUSTRIALIZED CENTERS OF THE UNITED KINGDOM, AND A FEW CITIES IN FRANCE, BELGIUM, ITALY AND GERMANY.







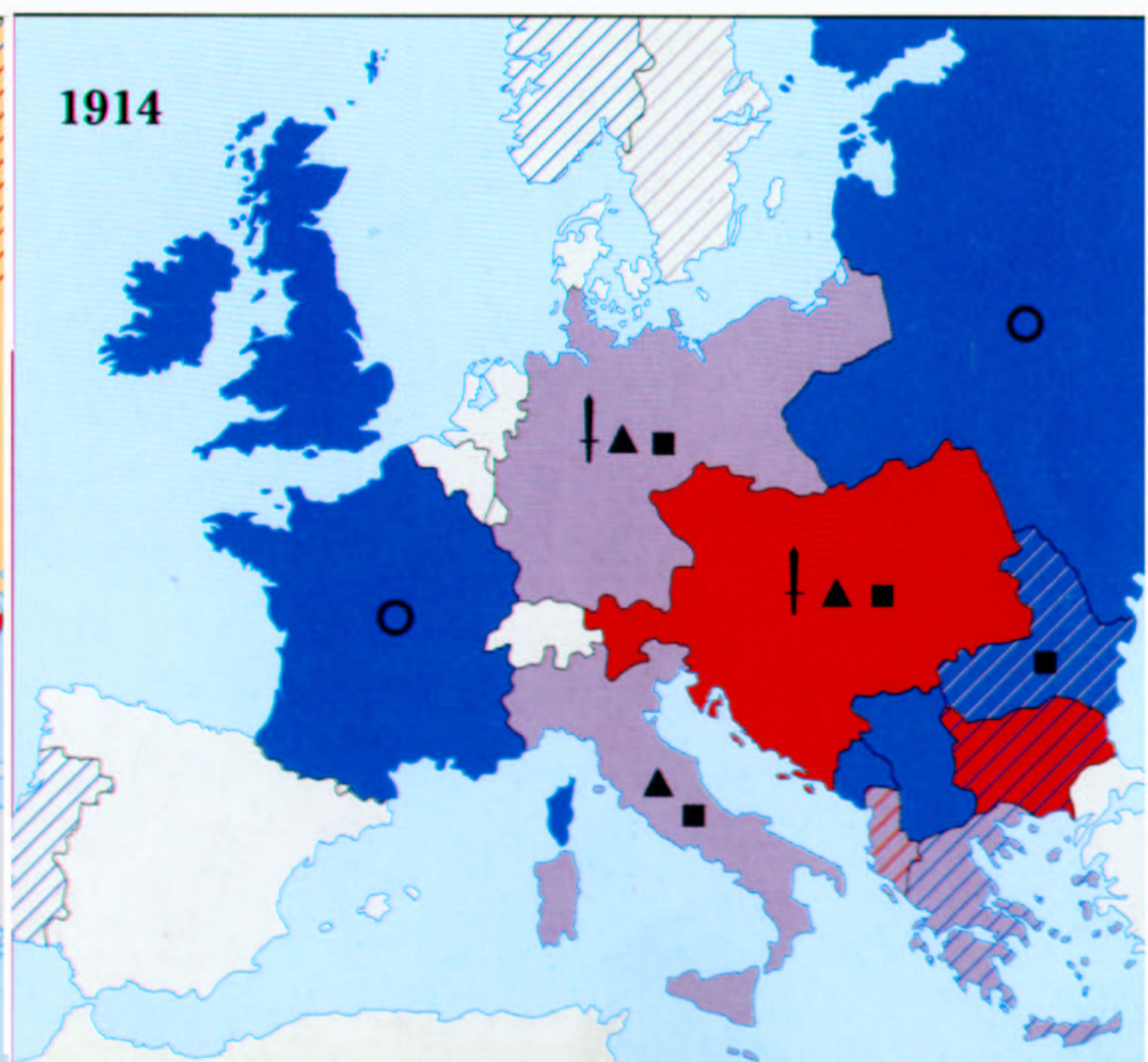
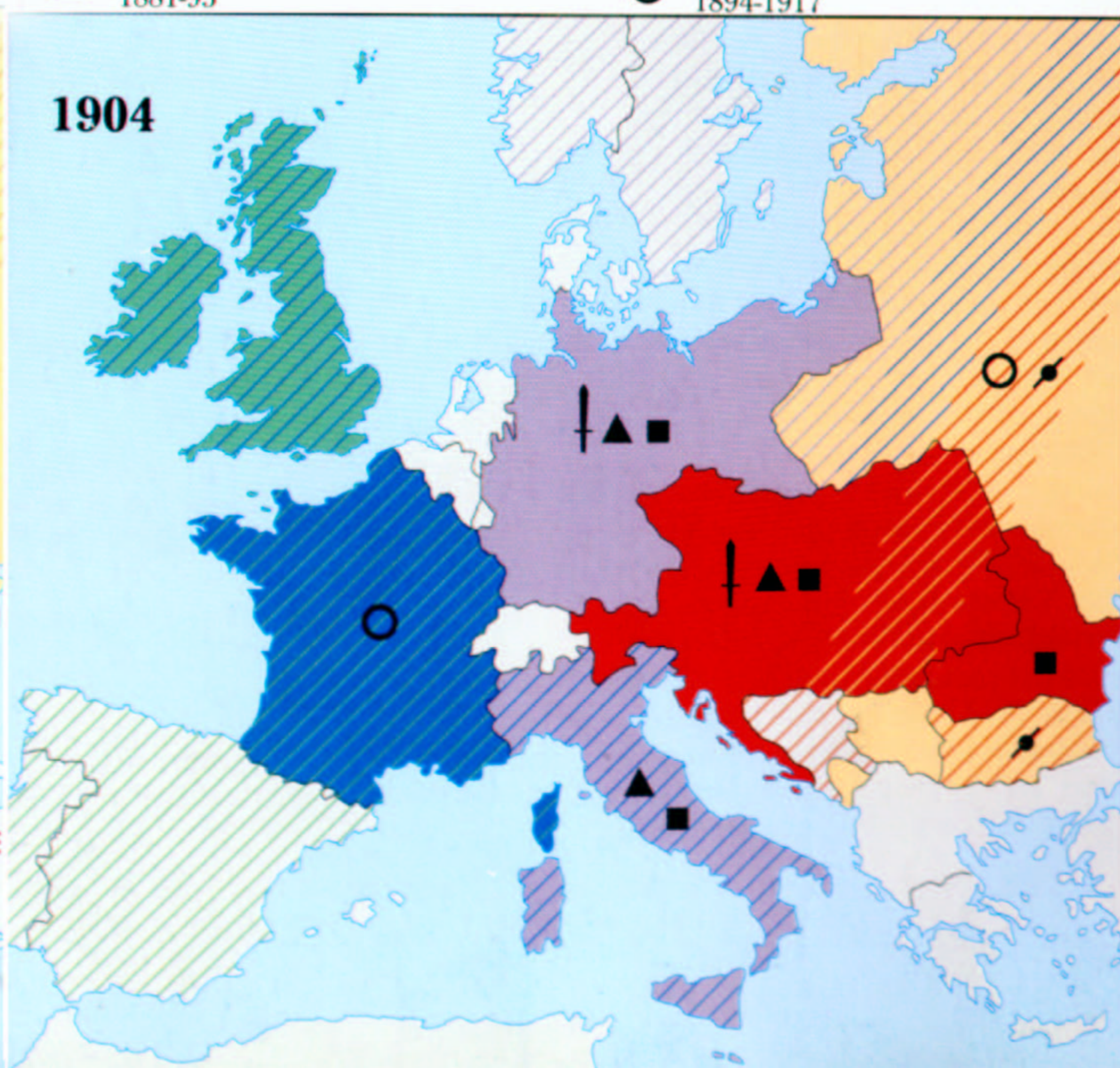
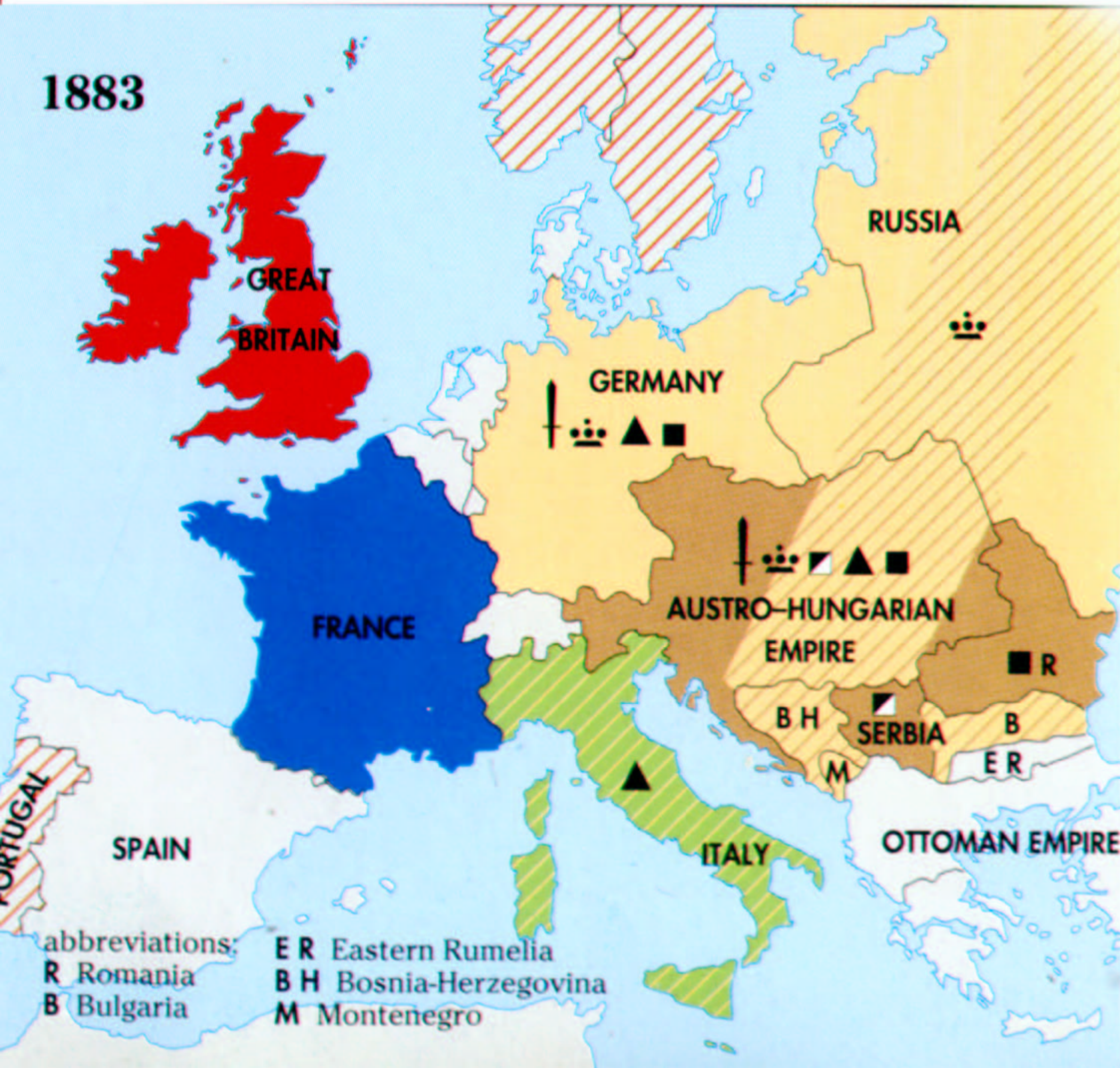
- ☐ Austro-Serbian Alliance 1881-95
- ▲ Triple Alliance 1882-1915

- ⚡ Russo-Bulgarian military convention 1902-13
- Stripes, similar and identical colours indicate an entente or community of interests

European alliances

- ⊥ Austro-German Alliance (the Dual Alliance) 1879-1918
- ☑ Three Emperors' Alliance 1881-95
- Austro-German-Romanian Alliance 1883-1916
- Franco-Russian Alliance 1894-1917

Alliance-systems in Europe, maps below.
From 1871 until 1914 a flexible system of multi-faceted diplomatic alignments and





Social and political change in Europe, 1929-39

Political regimes

- fascist or communist
- repressive or not fully democratic
- democratic

percentage of industrial workers unemployed
23.2

Major movements of protest and dissatisfaction, 1929-39

- strike wave
- riot or demonstration
- right-wing activity



As the German *Wehrmacht* was overwhelmed by the strain of fighting on two fronts, Allied advances cut deep into *Deutschland*.



The defeat of Germany, 1942-45

- "Grossdeutsches Reich" 1942
- maximum extent of Axis control, 1942
- Axis attacks
- ← Axis withdrawals
- ← Allied attacks
- cities under heavy air attack
- ◆ airborne landings
- ✎ partisan/resistance movements
- ★ major battle with date
- 🚀 V1 launching sites
- 🚀 V2 launching sites



The collapse of communism, 1989-95

- Soviet Union to 1991
- Yugoslavia to 1991
- Czechoslovakia to 1993
- frontiers, 1993
- disputed area subject to military action, May 1995
- united with the Federal Rep. of Germany, 1990
- independent, 1991
- independent, 1992
- independent, 1993
- other formerly communist states 1994
- de facto independent states in 1994 on former USSR territory, internationally unrecognised

Oct.-Nov. 1989: mass demonstrations in GDR.
 9 Nov: Berlin Wall breached; formally opened Dec.-Jan. 1990.
 18 Mar. 1990: free elections in GDR.
 1 July: currency union with West Germany.
 3 Oct. 1990: reunification.
 Nov. 1989: mass demonstrations spread from Prague leading to collapse of Communist rule.

1988: mass demonstrations in Yugoslavia against falling living standards. Declarations of independence by Croatia and Slovenia (25 June 1991) ignite civil war.
 7 July 1991: Brioni Agreement ends fighting in Slovenia. Fighting continues in Croatia and spreads to Bosnia-Herzegovina following declaration of independence (Apr. 1992) as Serbs attempt to extend territory in Croatia and Bosnia.

May 1995: controlled by separatist Serb forces.

1945-90: under four-power military control.
 June 1989: partially free elections.
 Sept. 1989: Solidarity-led government takes office.
 Jan. 1990: Communist party dissolves itself.
 Oct. 1991: free elections under new constitution.

June 1992: Slovak nationalists win elections in Slovakia.
 1 Jan. 1993: Slovak independence.

Oct. 1989: Communist rule ends peacefully, Apr./May 1990: free elections.

Nov. 1989: Dictator Zhivkov removed from office.
 June 1990: free elections.

8 Apr. 1993: admitted to UN.
 Dec. 1993: independence recognised by European Union.

Mar. 1991: free elections follow restoration of contact with West in 1989.

Nov. 1988: Estonian Supreme Soviet adopts right to veto all Union laws.
 Mar. 1990 Congress of Estonia formed and independence declared.
 Sept. 1991: independence recognised by USSR.

1989: mass anti-Communist demonstrations.
 Jan. 1990: free elections.
 Sept. 1991: independence recognised by USSR.

1989: mass anti-Communist demonstrations.
 Mar. 1990: independence declared.
 Sept. 1991: independence recognised by USSR.

June 1989: Popular Front founded.
 Aug. 1991: independence declared.
 Dec. 1991: founder member of CIS.

1 Dec. 1991: referendum vote for independence.
 Dec. 1991: founder member of CIS.

June 1989: Popular Front (founded May 1989) wins 75% of votes in election.
 27 Aug. 1991: independence declared.

Dec. 1989: mass demonstrations lead to armed uprisings and overthrow of Ceauşescu regime.
 May 1990: free elections.
 Nov. 1991: new constitution approved.

June 1991: Boris Yeltsin directly elected President of Russian Federation.
 14 Dec. 1991: Commonwealth of Independent States (CIS) established.
 25 Dec. 1991: USSR dissolved.
 Oct. 1993: crisis between Yeltsin and parliament; fighting in Moscow.
 Dec. 1993: first free parliamentary elections.

May 1995: part of Chechnia secured by Russian forces.

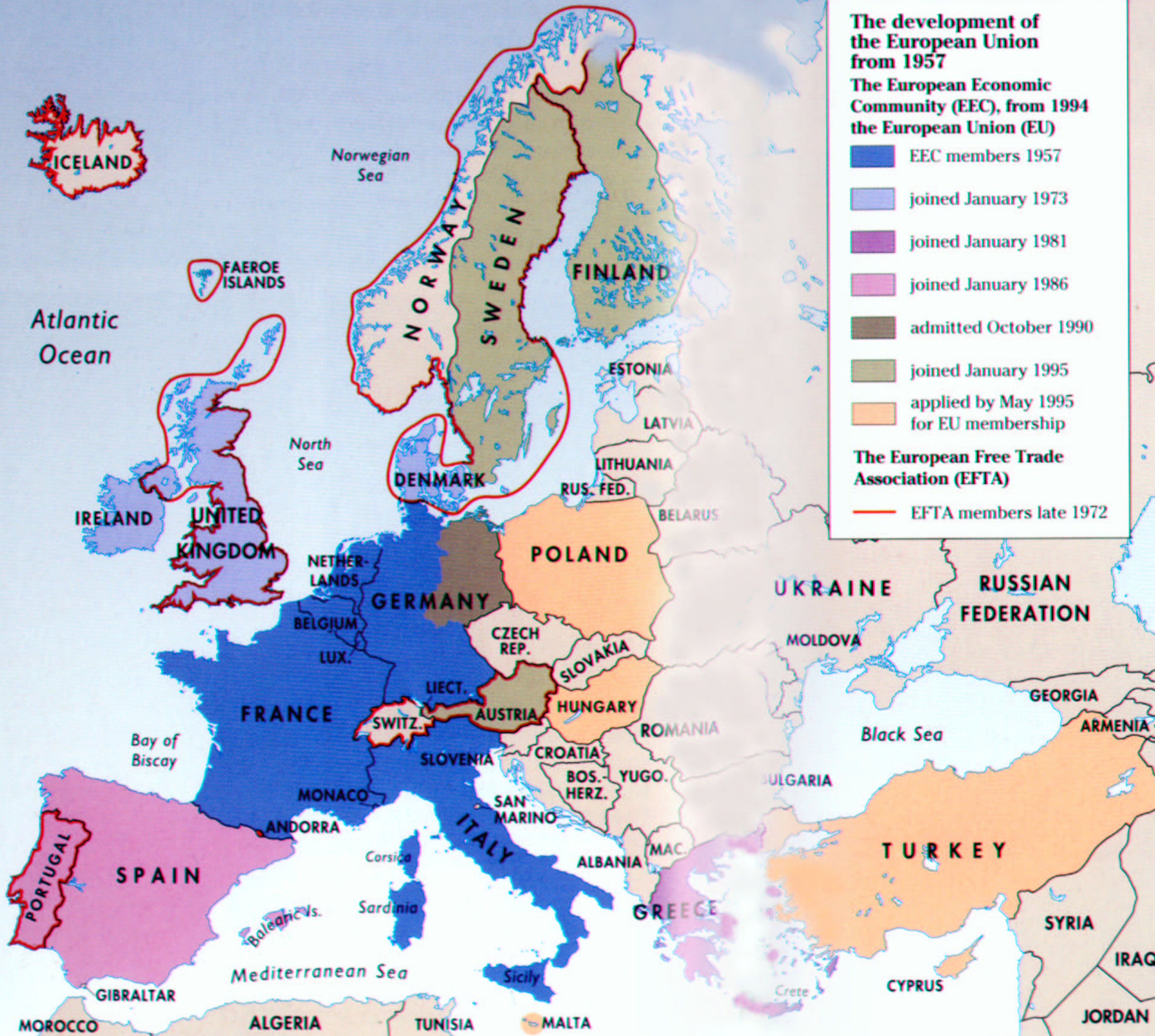
May 1995: Area controlled by Armenian forces.

The development of the European Union from 1957
The European Economic Community (EEC), from 1994 the European Union (EU)

- EEC members 1957
- joined January 1973
- joined January 1981
- joined January 1986
- admitted October 1990
- joined January 1995
- applied by May 1995 for EU membership

The European Free Trade Association (EFTA)

- EFTA members late 1972



TIMES BOOKS
77-85 Fulham Palace Road
London W6 8JB

First published by Times Books 1995
Reprinted 1996
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Editorial direction:
Philip Parker
Cicely Oliver
Thomas Cussans

Cartographic direction:
Martin Brown
Neil Forrest
Annabel Newby

Design:
Ivan Dodd
Nik Keevil
Nick O'Toole

Picture research:
Anne-Marie Ehrlich

Index:
Janet Smy

Typesetting by Times Books

Colour separations by Colourscan, Singapore

Printed and bound in Hong Kong
by HarperCollins *Publishers*

British Library Cataloguing in Publication Data.
A catalogue record for this book is available
from the British Library.

ISBN 0 7230 0724 1

Reprint of first edition – author's note:

Some typographical errors have been corrected and, within the limits allowed by the format of the work, a number of passages which needed revision – especially in Part III – have been rewritten to incorporate material not duplicated in other, overlapping works of mine. I am grateful to Bill Rosen, Thomas Cussans and Philip Parker for help in identifying these.

Felipe Fernández-Armesto
December 1995