IAL.	A Maritime Buoyage	System, which inclu	des Beacons → Q 130						
1	o	-0	Pasition of buoy						
Col	ors of Buoys and	Beacon Topmarks							
Abb	reviations for Colors	s → P							
2	8 G	A G G	Green and black	Ğ	♣ B	d G	F	Ġ	
3	§ R § 1	A Q I	Single colors other than green and black	E P	Ą	ģ	ģ	R	
4	₹RG ₽ ♠ Å 1	A GRG	Multiple colors in horizontal bands, the color sequence is from top to bottom	Å BY		♣ GRG		A BRB	
5	\$ A D	a A RW RW	Multiple colors in vertical or diagonal stripes, the darker color is given first	Q) RW		Å		Î RW	
6			Retroreflecting material						
	hted Marks ks with Fog Signals	-→ R							
7	△	JFIR <i>AFI.</i> G	Lighted marks on standard charts	♣ F	i.G		F	I.R	
8			Lighted marks on multicolored charts	In F	FI.R	- A	Q Isc	,	FI.G
	marks and Radar	Reflectors	Lighted marks on multicolored charts	In I	FI.R	F	a Isc	· •	FI.G
Тор		Reflectors		R			*w		Ğ
Тор				R			*w		Ğ
Top For		narks within the IALA	-System → Q 130 Topmarks on Special F	Purpose 4		ys ai	*w		Ğ

Bud	Buoys Features Common to Buoys and Beacons → Q 1-11					
Shapes of Buoys						
20	8 N	Д	Ą	Conical buoy, nun buoy	۵	
21	8 c	Þ	5	Can or cylindrical buoy	To the state of th	
22	& SP	Ω	a	Spherical buoy	۵	
23	Ø _P	Д	4	Pillar buoy	Д	
24	Øs	1	1	Spar buoy, spindle buoy	1	
25	8	æ	æ	Barrel buoy	Ø.	
26			4	Super buoy	占	
Ligh	nt Floats					
30	*-		FI G 3s Name	Light float as part of IALA System	FI.G.3s No 3 Name	*
31			FI(2) 10s 11M	Light float (unmanned light-vessel) not part of IALA System	±⊋. Fl.10s 12m 26M	
Mod	oring Buoys	s				
Oil c	or Gas Instai	llation Buo	y → L		Small Craft	Mooring → U
40				Mooring buoys	\$ \$ & &	
41	P.		FIY2s	Lighted mooring buoy (example)	FI.Y.2.5s	
42	Trot. mooring buoys with ground tackle and berth numbers					
43	See Supplementary national symbols M, n Mooring buoy with telegraphic or telephonic communication					
44			(5 buoys) Moorings	Numerous moorings (example)	Small Craft Moorings	

Special Purpose Buoys							
Note: Shapes of buoys are variable. Lateral or Cardinal buoys may be used in some situations.							
50			Firing danger area (Danger Zone) buoy	\$ DZ			
51			Target	🖒 Target			
52			Marker Ship	ှိ Marker Ship			
53			Barge	ధ్ Barge			
54			Degaussing Range buoy	Ģ			
55	8 Tel		Cable buoy	Ģ			
56	8		Spoil ground buoy	Å,			
57	8		Buoy marking outfall	ှ			
58	ODAS ODAS		ODAS-buoy (Ocean-Data-Acquisition System). Data-Collecting buoy of superbuoy size	d ODAS			
	8wor + ₽	8wor ₽ ₽	Special-purpose buoys				
59			Wave recorder, current meter	ф			
60	₿ AERO		Seaplane anchorage buoy				
61			Buoy marking traffic separation scheme				
62			Buoy marking recreation zone	Ģ			
Sea	Seasonal Buoys						
70	(mainta Priv interes	nined by private sts,use with caution)	Buoy privately maintained (example)	Ç (priv)			
71			Seasonal buoy (example)	දූර් (Apr-Oct)			

Bea	acons					
Ligh	Lighted Beacons → P Features Common to Beacons and Buoys → Q 1–11					
80	□Bn	. J . ⊚ Bn	Beacon in general, characteristics unknown or chart scale too small to show	. ↓ ⊙ Bn		
81	□ RW Δ	.l BW	Beacon with color, no distinctive topmark	I. BW		
82		R BY	Beacons with colors and topmarks (examples)	D A BRB		
83			Beacon on submerged rock (topmark as appropriate)	BRB BRB		
Min	or impermanent N	Marks usually in d	rying Areas (Lateral Mark of Minor Channel)	·		
Mind	or Pile → F					
90	• Pole • Pole	Ţ	Stake. pole	1		
91	• Stake • Stake	1	Perch. stake	PORT HAND STARBOARD HAND Y		
92			Withy	‡ ±		
Min	Minor Marks, usually on Land					
Lan	dmarks → E					
100	OCAIRN Cairn	O _{CAIRN} o _{Cairn}	Cairn	*		
101			Colored or white mark	□ Mk		
Bea	Beacon Towers					
110	□RW	A A A A	Beacon towers without and with topmarks and colors (examples)	A A A A A A A A A A A A A A A A A A A		
111			Lattice beacon	ā		
	1			1		

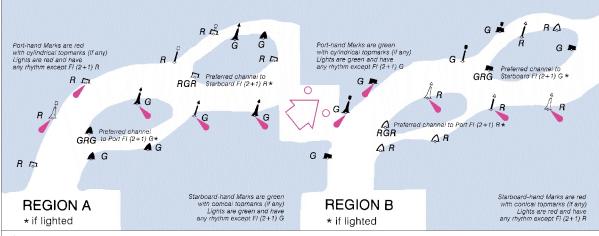
Special Purpose Beacons					
Leaging Lines, Clearing Lines → M					
Note: Topmarks and colors shown where scale permits.					
120	00	Bns in line 270°	Leading beacons	11	
121		Bns in line 270°	Beacons marking a clearing line	11	
122	COURSE 270 O TRUE MARKER MARKERS		Beacons marking measured distance with quoted bearings	Measured Distance 1852m 090°- 270	
123			Cable landing beacon (example)	§	
124			Refuge beacon	. Ref. Ref.	
125			Firing danger area beacons		
126		모	Notice board	T	

130 IALA Maritime Buoyage System

IALA International Association of Lighthouse Authorities

Where in force, the IALA System applies to all fixed and floating marks except lighthouses, sector lights, leading lights and leading marks, light-vessels and lanbys. The standard buoy shapes are cylindrical (can) \Box conical Δ , spherical \Box , pillar Δ , and spar J, but variations may occur, for example: light-floats \Box . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lit or unlit) only the shape of the topmark is of navigational significance.

130.1 Lateral marks are generally for well-defined channels. There are two international Buoyage Regions – A and B – where Lateral marks differ.



A preferred channel buoy may also be a pillar or a spar. All preferred channel marks have horizontal bands of color. Where for exceptional reasons an Authority considers that a green color for buoys is not satisfactory, black may be used.



IALA Buoyage Regions A and B

130.2 Direction of Buoyage

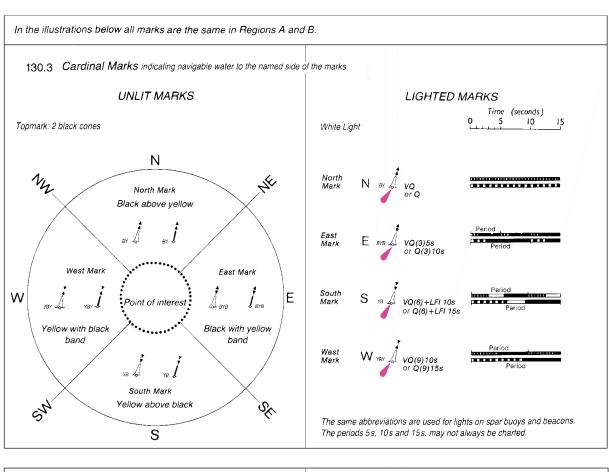
The direction of buoyage is that taken when approaching a horbor from seaward or along coasts, the direction determined by buoyage authorities. normally clockwise around land masses.

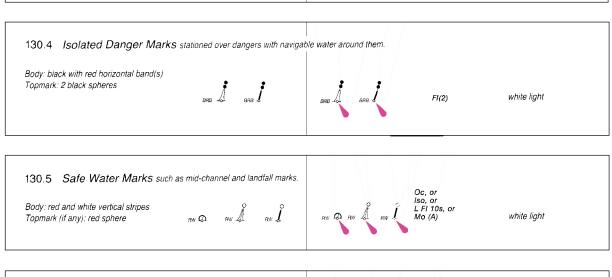


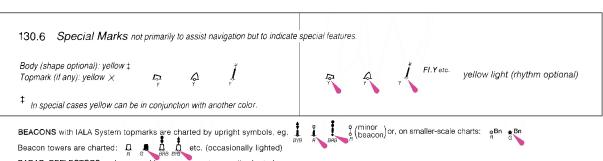
Symbol showing direction of buoyage where not obvious.



Symbol showing direction of buoyage on multicolored charts.







RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHT FLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

Sup	oplementary National Symbols		
а	8 BELL ABELL	Bell buoy	
b	8 gong Agong	Gong buoy	
С	8 whis A whis	Whistle buoy	
d	₿ _{RW}	Fairway buoy (RWVS)	
е	Å _{RW}	Midchannel buoy (RWVS)	
f	Ø R 8 "2"	Starboard - hand buoy (entering from seaward - US waters)	
g	8 "1" 8 "1"	Port - hand buoy (entering from seaward - US waters)	
h	BR RRG RGR RG	Bifurcation, Junction, Isolated danger, Wreck and Obstruction buoys	
i	8 Y	Fish trap (area) buoy	
j	8 Y	Anchorage buoy (marks limits)	
k	В	Black	
	▲ R △ RG Bn Bn	Triangular shaped beacons	
1	■G □GR □W □B Bn Bn Bn Bn	Square shaped beacons	
	□Bn	Beacon, color unknown	
m	Tel ♠ ^{Tel}	Mooring buoy with telegraphic communications	
n	→ ^T → ^T	Mooring buoy with telephonic communications	
O	₹	Lighted beacon	!Bn 🕹