

Non-navigational buoys

IHO Definition: **BUOY, NON-NAVIGATIONAL.** A buoy is a floating object moored to the bottom in a particular place, as an aid to navigation or for other specific purposes. (IHO Dictionary – S-32).

A non-navigational buoy is a buoy that has been established for purposes other than as an aid to navigation, such as for scientific or recreational purposes.

S-101 Geo Feature: Buoy non-navigational

Primitives: Point

<i>Real World</i>		<i>Paper Chart Symbol</i>	<i>ECDIS Symbol</i>	
S-101 Attribute	S-57 Acronym	Allowable Encoding Value	Type	Multiplicity
Buoy shape	(BOYSHP)	1 : conical (nun, ogival) 2 : can (cylindrical) 3 : spherical 4 : pillar 5 : spar (spindle) 6 : barrel (tun) 7 : superbuoy 8 : ice buoy	EN	1,1
Category of non-navigational buoy		1 : Mooring buoy 2 : ODAS (Ocean Data Acquisition system) 3 : Recording mark 4 : FAD (Fish Aggregating Device) 5 : Tsunami detection	EN	1,*
Colour	(COLOUR)	1 : white 2 : black 3 : red 4 : green 5 : blue 6 : yellow 7 : grey 8 : brown 9 : amber 10 : violet 11 : orange 12 : magenta 13 : pink	EN	1,*
Colour pattern	(COLPAT)	1 : horizontal stripes 2 : vertical stripes 3 : diagonal stripes 4 : squared 5 : stripes (direction unknown) 6 : border stripe	EN	0,1
Feature name			C	0,*
Display name			(S) BO	0,1

Language		ISO 639-3	(S) TE	0,1
Name	(OBJNAM)		(S) TE	1,1
Fixed date range			C	0,1
Date end	(DATEND)	ISO 8601:1988	(S) DA	0,1
Date start	(DATSTA)	ISO 8601:1988	(S) DA	0,1
Marks navigational – system of	(MARSYS)	1 : IALA A 2 : IALA B 9 : no system 10 : other system 11 : CEVNI	EN	0,1
Nature of construction	(NATCON)	6 : wooden 7 : metal 8 : glass reinforced plastic (GRP) 9 : painted 10 : latticed	EN	0,*
Periodic date range			C	0,*
Date end	(PEREND)	ISO 8601:1988	(S) DA	1,1
Date start	(PERSTA)	ISO 8601:1988	(S) DA	1,1
Radar conspicuous	(CONRAD)		BO	0,1
Status	(STATUS)	1 : permanent 2 : occasional 5 : periodic/intermittent 7 : temporary 8 : private 18 : existence doubtful	EN	0,*
Topmark	(TOPMAR)		C	0,1
Colour	(COLOUR)	1 : white 2 : black 3 : red 4 : green 5 : blue 6 : yellow 7 : grey 8 : brown 9 : amber 10 : violet 11 : orange 12 : magenta 13 : pink	(S) EN	1,*
Colour pattern	(COLPAT)	1 : horizontal stripes 2 : vertical stripes 3 : diagonal stripes 4 : squared 5 : stripes (direction unknown) 6 : border stripe	(S) EN	0,1
Fixed date range			C	0,1
Date end	(DATEND)	ISO 8601:1988	(S) DA	0,1
Date start	(DATSTA)	ISO 8601:1988	(S) DA	0,1

Topmark/daymark shape	(TOPSHP)	1 : cone, point up 2 : cone, point down 3 : sphere 4 : 2 spheres 5 : cylinder (can) 6 : board 7 : x-shape (St. Andrew's cross) 8 : upright cross (St George's cross) 9 : cube, point up 10 : 2 cones, point to point 11 : 2 cones, base to base 12 : rhombus (diamond) 13 : 2 cones (points upward) 14 : 2 cones (points downward) 15 : besom, point up (broom or perch) 16 : besom, point down (broom or perch) 17 : flag 18 : sphere over rhombus 19 : square 20 : rectangle, horizontal 21 : rectangle, vertical 22 : trapezium, up 23 : trapezium, down 24 : triangle, point up 25 : triangle, point down 26 : circle 27 : two upright crosses (one over the other) 27 : two upright crosses (one over the other) 28 : T-shape 29 : triangle pointing up over a circle 30 : upright cross over a circle 31 : rhombus over a circle 32 : circle over a triangle pointing up 33 : other shape (see INFORM)	(S) EN	1,1
Information			(S) C	0,*
Language		ISO 639-3	(S) TE	0,1
Text	(INFORM)		(S) TE	1,1
Vertical length	(VERLEN)		RE	0,1
Information			C	0,*
Language		ISO 639-3	(S) TE	0,1
Text	(INFORM)		(S) TE	1,1
Pictorial representation	(PICREP)		TE	0,1
Textual description			C	0,*
File reference	(TXTDSC)		(S) TE	1,1

Language		ISO 639-3	(S) TE	0,1
Scale minimum	(SCAMIN)	See clause X.X	IN	0,1

INT 1 Reference: Q ???

1.1.1 Non-navigational buoys (see S-4 – B-???)

If it is required to encode a buoy having a non-navigational function, it must be done using the feature **Buoy Non-navigational**.

Remarks:

- The attribute **colour pattern** must be populated if more than one value is populated for the mandatory attribute **colour**.
- For the complex attribute **topmark**, the sub-attribute **colour pattern** must be populated if more than one value is populated for the mandatory sub-attribute **colour**.
- If it is required to encode the total vertical length, including the topmark and any equipment features (e.g. light), of the buoy above the water level, it must be done using the attribute **vertical length**.

Distinction: Buoy, cardinal; buoy, emergency wreck marking; buoy, installation; buoy, isolated danger; buoy, lateral; buoy, safe water; buoy, special purpose/general; mooring/warping facility.