

Navigational Charts Legends

Updated: 13-Mar-24

TABLE OF CONTENTS







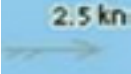
S. No.	Description	Page Numbers
1	Legend ENC, Navigational Charts	2
2	Legend CIO+ T&P, NAVAREA	14
3	Legend CIO+ Environmental Overlay	16

Falcon Mega Solutions




Legend ENC, Navigational Charts






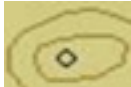



Depths, Tides, Currents

	Dredged area		Soundings
	Unsurveyed area		Depths areas
	Safety contour		Tidal stream (ebb stream)
	Tidal stream (flood stream)		

Buildings

	Bridge		Overhead cable
	Railway		Road
	Tunnel		Built-up area (town, city, etc.)
	Production/storage area		Airport, airfield

Natural Shapes, Coastlines

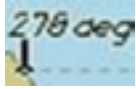
	Coastline (marshy shore)		Coastline
	Lake area		Sloping ground (dunes, hills)
	Slope topline		Land elevation
	Vegetation (general)		Vegetation (grassland)
	Vegetation (mangrove)		Vegetation (mixed)

Legend ENC, Navigational Charts

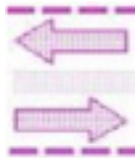
Shipping Routes, Radar, Seabed



Ferry route



Navigational line
(as transit, clearing line)



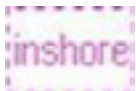
Traffic Separation Scheme



Traffic Separation Scheme
(Boundary)



Deep-water route



Inshore Traffic Zone



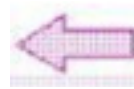
Radar line



Navigational line/recommended
track



Recommended track



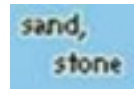
Traffic Separation Scheme
(Lane Part)



Traffic Separation Scheme
(Separation Zone)



Deep-water route centreline



Seabed area (nature of seabed)

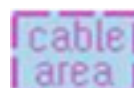
Offshore



Submarine cable



Pipeline



Cable area

Legend ENC, Navigational Charts

Areas, Boundaries



Restricted area
(anchoring prohibited)



Restricted area (fishing
prohibited)



Restricted area (nature reserve)



Military practice area



Restricted area (entry prohibited)



Cargo transshipment area



Caution area



Dumping ground



Maritime jurisdiction boundaries and
limits (national territory, territorial sea,
Exclusive Economic Zone)



Anchorage area



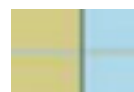
Precautionary area



Restricted area (dredging
prohibited)



Submarine transit lane



Administration area (national
boundary)

Constructions, Ports



Pontoon



River/canal



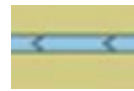
Dam



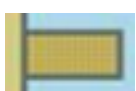
Floating dock



Dyke



Lock basin



Shoreline construction



Shoreline construction (pier)









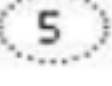

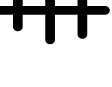

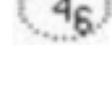
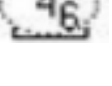


Legend ENC, Navigational Charts

Landmarks



	Temple		Mosque		Church, chapel
	Single building (custom office, harbour master, etc.)		Mosque		Church, chapel
	Chimney		Crane		Daymark (coloured or white mark)
	Column		Radio, television mast		Mast
	Pylon (power transmission, telephone, telegraph)		Flare stack (on land)		
	Quarry		Tank farm		Notice mark
	Production area (timber yard)		Refinery area		
	Radar scanner		Silo, tank		Silo, tank (silo in general)
	Dish aerial		Dome		Fortified structure (castle, fort)
	Water tower		Tower		Radio, television tower
	Production area (wind farm)		Wind motor		Windmill
	Flagstaff (flagpole)		Sloping ground		

Legend ENC, Navigational Charts

Obstructions

























	Underwater rock (always under water)		Underwater rock (awash)		Underwater rock (covers and uncovers)
	Underwater rock of known depth		Underwater rock as isolated danger (if shallower than safety contour)		Obstruction
	Obstruction (foul ground)		Obstruction (always dry)		Obstruction of known depth
	Obstruction as isolated danger (if shallower than safety contour)		Non-dangerous wreck (always under water)		Dangerous wreck
	Wreck of known depth		Wreck of known depth (swept by wire drag)		
	Wreck showing any portion of hull or superstructure		Wreck as isolated danger (if shallower than safety contour)		

Point Symbols A




	Signal station		Coastguard station		Small craft facility or yacht harbour, marina
	Lock gate		Caisson, flood barrage gate, dyke gate		Bridge
	Fishing harbour		Coast radar station		Rescue station
	Built-up area (city, town, etc.)		RoRo-terminal		Airport, airfield
	Spring				

Legend ENC, Navigational Charts

Point Symbols B

	Fog signal		Radar reflector		Pile
	Anchorage area		Anchor berth		Caution area
	Berth (with name)		Radar transponder beacon		Pilot boarding place
	Deviation dolphin		Land area		Mooring facility
	Point symbol with additional information		Fishing facility (fish trap)		Offshore platform
	Fishing facility		Fishing facility (fishing stake)		Marine farm/culture
	Distance mark		Hulk		Retro reflector
	Weed / kelp		Sand waves		Water turbulence

Navigational Aids

	Direction of Buoyage
	Weed / kelp
	Weed / kelp

Mooring Buoys



Shape: barrel (ton); colour: yellow, black, unknown



Shape: super-buoy; colour: yellow, black, unknown



Shape: can (cylindrical); colour: yellow, black, unknown

Beacons and Buoys



1 2 3 4 5 6 7 8 9 10

Beacons (1 - 3) and Buoys (4 - 10): colour: unknown

1. Shape: stake pole
2. Shape: lattice beacon
3. Shape: beacon tower
4. Shape: spar (spindle)
5. Shape: can (cylindrical)
6. Shape: conical
7. Shape: pillar
8. Shape: spherical
9. Shape: barrel (ton)
10. Shape: super-buoy

East Cardinal Marks



1 2 3 4 5 6

East cardinal marks (4, 5, 6: lighted marks):

Colour: black, yellow, black

Topmark: two cones, base to base

Lights: white

North Cardinal Marks



North cardinal marks (4, 5, 6: lighted marks):

Colour: black, yellow

Topmark: two cones, points upward

Lights: white

South Cardinal Marks



South cardinal marks (4, 5, 6: lighted marks):

Colour: yellow, black

Topmark: two cones, points downward

Lights: white

West Cardinal Marks



West cardinal marks (4, 5, 6: lighted marks):

Colour: yellow, black, yellow

Topmark: two cones, point to point

Lights: white

Isolated Danger Marks



Isolated danger marks (4, 5, 6: lighted marks):

Colour: black, red, black

Topmark: two black spheres

Lights: white

Starboard-Hand Lateral Marks



Starboard-hand lateral marks (5, 6, 10: with topmark, 6, 7, 8: lighted, 9: starboard-hand withy):

Colour: green

Topmark: 5, 6: cone point up, 10: besom point up

Lights: green

Port-Hand Lateral Marks



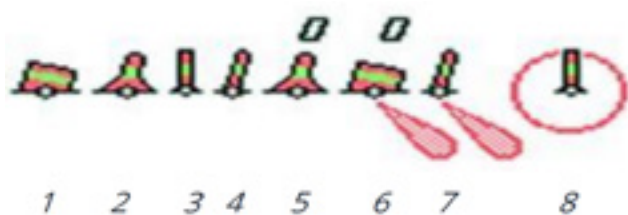
Port-hand lateral marks (5, 6, 10: with topmark, 6, 7, 8: lighted, 9: port-hand withy):

Colour: red

Topmark: 5, 6: cylinder (can)

10: besom point down

Preferred Channel to Starboard



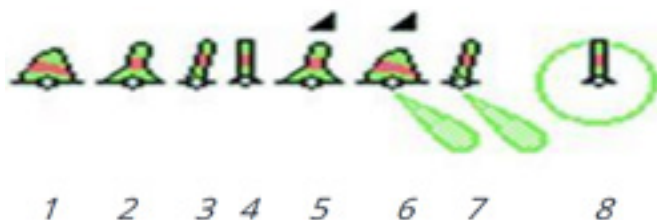
Preferred channel to starboard (5, 6: with topmark, 6, 7, 8: lighted):

Colour: red, green, red

Topmark: cylinder (can)

Lights: red

Preferred Channel to Port



Preferred channel to port (5, 6: with topmark, 6, 7, 8: lighted):

Colour: green, red, green

Topmark: cone point up

Lights: green

Safe-Water Marks



Safe-water marks (5, 6, 7: lighted marks):

Colour: red, white

Topmark: red sphere

Lights: white

Special-Purpose Marks



Special-purpose marks (7, 8, 9: lighted and with topmark):

Colour: yellow

Topmark: yellow x-shaped cross

Lights: yellow

Lights Symbols



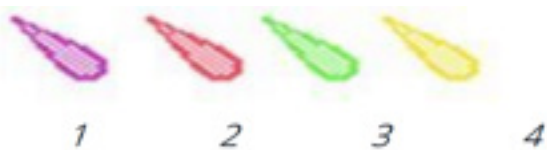
Carried by a landmark or non-floating object:

1 Colour unknown

2 Colour red

3 Colour green

4 Colour yellow or white



Carried by a floating object or if used as leading light:

1 Colour unknown

2 Colour red

3 Colour green

4 Colour yellow or white

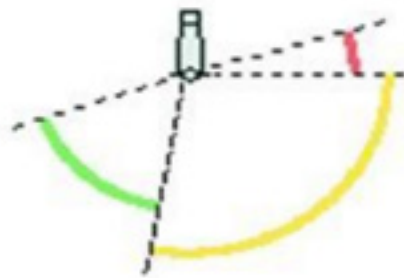
Legend ENC, Navigational Charts



- 1 Strip light
- 2 Spotlight
- 3 Floodlight
- 4 Light-float
- 5 Light-vessel



Lights with light characteristics (examples)















Sector lights






Leading lights




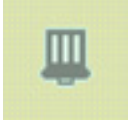







Annex D - Legend CIO + T&P, NAVAREA

Symbol	Meaning
 9.9m - 5005/2021 (3)	Spot depth
 Underwater - IN38/2021 (3)	Underwater hazard
 Wreck - 2320/2019	Wreck
 Obstruction - 40/2022	Obstruction
 Beacon - 5237/2020	Beacon
 Buoy - 5492/2021 (1)	Buoy
 Caution (Object Missing) - 5203/2020	Caution – object missing
 Caution (in vicinity) - 1407/2016	Caution – in vicinity
 Caution (in vicinity) - 101/2022	Caution – in vicinity, dangerous
 Caution - 2239/2021	Caution
 Restricted - 5223/2021	Caution with restrictions
 Cable - 2953/2021	Cable laying or maintenance

Legend CIO + T&P, NAVAREA

Symbol	Meaning
 NAVAREA I [German Coastal - North Sea] 522/2021	NAVAREA warning, punctual
 NAVAREA VIII [Coastal] 34/2022	NAVAREA warning, linear
 NAVAREA II [Spanish Territories] 238/2022	NAVAREA warning, areal

Annex E - Legend CIO + Environmental Overlay

Symbol	Meaning	Authority
	Prevention of pollution by Oil (Annex I)	IMO MARPOL Annex I
	Prevention of pollution by Noxious Liquid Substances	IMO MARPOL Annex II
	Prevention of pollution by Sewage	IMO MARPOL Annex IV
	Prevention of pollution by Garbage	IMO MARPOL Annex V
	Prevention of pollution by Sulphur oxides - SO _x	IMO MARPOL Annex VI
	Prevention of pollution by Nitrous Oxides – NO _x	IMO MARPOL Annex VI
	Prevention of pollution by SO _x and NO _x	IMO MARPOL Annex VI
	Prevention of pollution by SO _x , NO _x and Particulate Matter	IMO MARPOL Annex VI
	Prevention of pollution by SO _x	European Union 2005/33/EC
	Marine Sanctuary Area	US NOAA
	Vessel General Permit Area	US Environmental Protection Agency