### **CHART LEGEND**



This Chart Legend provides a visual reference and brief description of most objects found on C-MAP NT+ electronic charts.

Images on the left represent relative objects on color displays, while images on the right refer to grayscale displays. These images are only representative of typical systems. Variations of color or grayscale may be noticed from one manufacturer's system to another.

While display of objects may generally be enabled or disabled by the following categories, those marked with an asterisk (\*) will always remain on-screen

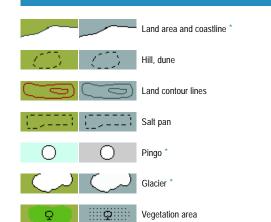
#### POSITIONS, DIRECTIONS, COMPASS

<del>(∰)</del>	4	***	4	Symbols in plan: position is center of symbol
*	Ş	*	Ş	Symbols in profile: position is at bottom of symbol

★ Magnetic variation (see attributes)

▲ Control point

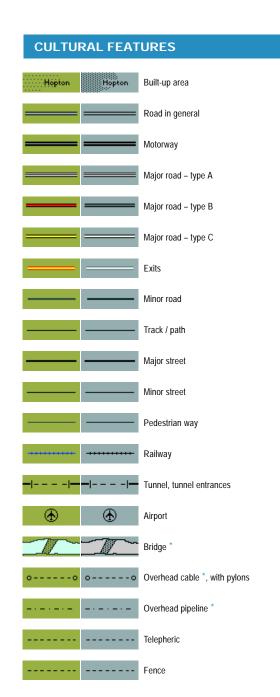
#### NATURAL FEATURES



#### **RIVERS, LAKES**

Ω Ω Tree

James James	River, canal
	Lake
• Waterfall	Waterfall



#### PORT, SERVICES

• • • Piles \*

Gridiron

Dry dock

Wet dock

Hulk

Gates \*, locks

o Distance mark

Timber Yard Timber yard

ф ⊕ ф ⊖ Crane

(1) Yacht harbor, marina

Bank / Exchange

Roat hoist

Boat yard

GAS Bottle gas

P Car parking

🚓 📤 Caravan site

Chandler

① Coastguard

S Crane

🔗 🖇 Electricity

? Engine repairs

Fuel station

4 Harbor Master

Hotel / Inn

Launderette

Health emergency

Cher marine repairs

Commercial fishing services

Customs / Custom police

M Electrical / Electronic repairs

Fishing / Diving gear, SCUBA recharge

RoRo Roll-on, roll-off terminal

oss oce ossignal station Coastguard station

Rescue station Pilot boarding place

Accessories / Marine electronics

Check point

Police

Post box

Provisions

🕌 🕌 Public radio

RT Public radio telegraph

M Public telegraph

Nublic telephone

WC Public toilets

Refuse bin

💢 🗶 Restaurant

♦ Sailmaker

Slipway

🐴 📥 Water

→ Waypoint

YC Yacht Club

Visitor's berth

Sewerage pump-out station

Transportation services

Parking for boat and trailers

Dam, weir

Floating dock

---- Floating oil barrier

Area under reclamation

Slipway, ramp

<del></del>	Breakwater *
	Groyne *, Causeway * (always dry, intertidal, underwater)
	Pier, Jetty *
<u>4</u> 4	Harbor facility in general
€	Fishing harbor
	Pontoon
	Landing place
	Landing stairs
<u>/①</u> / <u>①</u>	Berth with designation
	Dolphin *
t <sub></sub> ‡t- <sub></sub> ‡	Mooring trot (anchors with chain/wire)

SE	ABED TYPE		
M	Mud	Vol Ash	Volcanic ash
Су	Clay	K	Kelp
Si	Silt	Grs	Grass
S	Sand	Stg	Sea-tangle
St	Stone	Spi	Spicules
G	Gravel	Cir	Cirripedia
Р	Pebbles	Fu	Fucus
Cb	Cobbles	Ma	Mattes
R	Rock	S Co	Sabellaria
Lv	Lava	S Bk	Sandbank
Co	Coral		
Sh	Shells	f	Fine
Wd	Weed	m	Medium
Gd	Ground	С	Coarse
Oz	Ooze	bk	Broken
MI	Marl	sy	•
Sn	Shingle	S0	Soft
Во	Boulders	sf	Stiff
Ck	Chalk	V	Volcanic
	Quartz	са	Calcareous
Md	Madrepore	h	Hard
Ba	Basalt		
Pm	Pumice	W	White
T	Tufa	bl	Black
Sc	Scoriae	rd	Red
Cn	Cinders	gn	
Mn	Manganese Glauconite	b	Blue
Gc		У	Yellow
Oy Ms	Oysters Mussels	gy	Grey Brown
Sp	Sponge	br ch	
Al	Algae	lt .	Light
	Foraminifera	d	Dark
	Globigerina	u	Durk
	Diatoms	Example	es of composite abbreviations:
	Radiolaria	Example	os or composite abbreviations.
	Pteropods	fS	Fine sand
	Polyzoa		Broken shells
	Schist		Sand with shells
	Coral Head	BrM	Brown mud
	(J. )		cky area, coral reef
·		Weed / kelp	,

LANDMARKS

Buildings

₱ ₱ ₱ ₱ Church

☐ ☐ ☐ Tower

Chimney

B P B P Monument

★ 賞 本 賞 Windmill

🤼 🧏 🖺 Dish aerial

Fortified structure

Custom office

Harbor Master's office

Hospital, health office

Tank

Mast

Radar dome

# TIDES, CURRENTS Tide height (prediction available)

 $\sim$  Sand waves

↑ Spring in seabed

 $\longrightarrow$  Current

Water turbulence

## DEPTHS, SOUNDINGS Intertidal area \*, with low water line Depth area, with depth line (10 meters) 50 \_\_\_\_\_ 50 \_\_\_\_ Depth line (out of selected range) 2<sub>5</sub> Sounding (depth of 2 meters and 5 dm) Drying height above chart datum Dredged area Unsurveyed area or minimal depiction area (an area on the source nautical chart where most information is omitted, to indicate that the chart has too

general scale for navigation and to induce the mariner

to use more detailed charts)

#### WPECKS OBSTRUCTIONS

WRECKS, OBSTRUCTIONS			
······································	***************************************	Danger line, in general	
0	0	Rock (always dry) *	
*	*	Rock (covers and uncovers) *	
#	#	Rock (awash) *	
+	+	Rock (always underwater) *	
and the second s		Breakers	
*	*	Wreck showing hull or superstructure	
<b>⊕</b>	*	Submerged wreck (dangerous)	
+ +	##	Submerged wreck (non-dangerous)	
#	#	Remains of a wreck / foul area	
<b>Ş</b> ∀k	₩k	Wreck area	
Obstn	Obstn	Obstruction	
<b>e</b>	*	Fish haven *	
$\circ$	٠	Submerged wellhead *	
0		Offshore platform *	
		Submarine cable	
		Submarine pipeline, with diffuser	

Navigation line
Recommended track
Recommended route centerline Deep water route centerline
Deep water route (depth: see attributes)
Traffic separation scheme: boundary, lanes separation zone, separation line
Precautionary area
Fairway Fairway Fairway
Radar range, radar line

Radio calling-in point

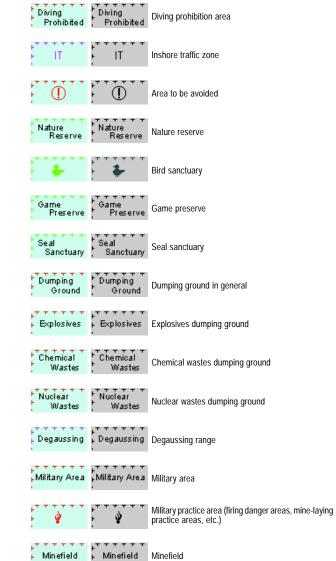
---- Ferry route

T T T T T T Cable area, submarine pipeline area

TRACKS, ROUTES

Rocks, wrecks, obstructions, fish havens: the depth value, if known, is encoded into

# **ATTENTION AREAS** Restricted area Prohibited area (no unauthorized entry) Caution area (with warning about safety of navigation, e.g. a danger, a risk, a rule, or advice) Anchorage area Anchorage (no defined limits) Anchor berth, with designation Anchor berth, with swinging circle Sea-plane landing area Anchoring prohibition area Fishing prohibition area Diving Prohibited Prohibited Diving Prohibition area IT Inshore traffic zone



⊦ Minefield	⊦ Minefield	Minefield
		Log pond
Spoil Ground	Spoil Ground	Spoil ground
	<u>-</u>	Cargo transhipment area
Incineration Area	Incineration Area	Incineration area
		Fishing ground
		Fish trap area, tunny nets area
		Marine farm

	 E	¦⁻ ¦	Marine farm
	₽	₩	Submarine transit lane
			Limit of ice / glacier *
-			International boundary on land
-			International maritime boundary
_			Straight territorial sea baseline
-			Territorial sea area, contiguous zone, fishery zone, continental shelf area, EEZ

- - - Custom zone, free port area

----- Harbor area (administrative)

NAV-AIDS (aids to navigation)				
* 4	* 4	Light in general	Ligh	



Lighted offshore platform

Multiple colored lights on same structure Sector light (sectors displayed)

Sector light (sectors not displayed) Light characteristic (e.g. fixed, flashing, etc.), period, elevation, range: see attributes

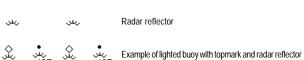
INTERNATIONAL Buoy shapes: nun, can, spherical, pillar, spar, barrel, superbuoy International and US symbols



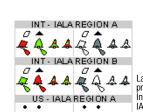
**3** • × ♦ **3** • × ♦

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 $\triangle \mathcal{Q} \updownarrow \lor \lor \Diamond \triangle \lor \lor \Diamond$  Buoy and beacon topmarks





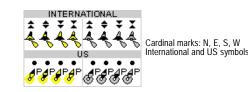


<u>&</u> Cairn

Lateral marks: port, starboard, preferred channel to port, preferred channel to starboard international and US symbols for different regions IALA A and IALA B



್ಲಿ Symbol showing direction of buoyage





₫<sup>s</sup> INTERNATIONAL



INTERNATIONAL



Fog signal

 $\odot$ Radar station, radar transponder beacon, radio station