	according to EG; "Minimum Contents of an IENC" (InlandEcdis stand.2.1 : Edition1 Version3 feb2008)	
V1	shoreline ~coastline ~high water line	*
V2	shoreline construction	
V3	contours of locks and dams	
V4	boundaries of the navigation channel	
V5	isolated under water dangers in the navigable channel	
	(wrecks, obstructions,)	
V6	isolated dangers above water in the navigable channel	
	(bridges, overhead cables,)	
V7	official aids to navigation	
	(buoys, beacons, lights, notice marks)	
V8	waterway axis with kilometers/hectometers or rivermiles	
	according to EU-Guideline	
=V8	waterway axis with kilometers/hectometers or rivermiles	
V9	restrictions for vessels or convoys in terms of length, width, draught and air draught	
V10	operation times of restricting structures, in particular locks and bridges	
V11	location of ports and transhipment sites	
V12	reference data for water level gauges relevant to navigation	

*1

According to S-57 standard (S-57 APPENDIX B.1 Annex A - Use of the Object Catalogue for ENC):

"In all cases the coastline is encoded as either a COALNE (line) or a SLCONS (line or area). These features form the border of the land area (LNDARE)."

according to S-57 standard (S-57 Appendix B Product Specifications):

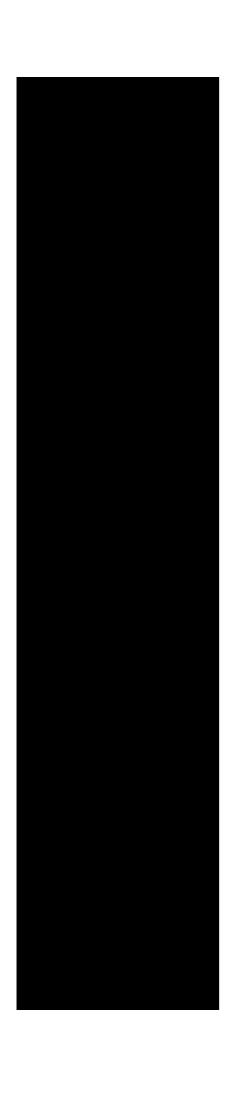
Each defined geographical area in an IENC-cel that can be effectively charted shall be covered without overlapping, the following S57objects as an area:

LNDARE ;land area PONTON ;pontoon FLODOC ;floating dock

HULKES ;hulk DEPARE ;depth area DRGARE ;dredged area UNSARE ;unsurveyed area





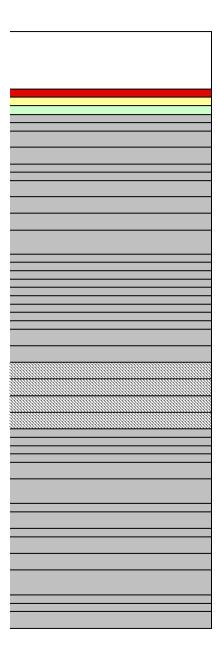


Pilot	Reference to	Description of the objects according to the Encoding Guide	C E7 object	Unload	S-57_Attributes
ENCs	the minimum	Description of the objects according to the Encoding Guide	5-57 object	Unioca	5-07_Attributes
priority	content as				
priority	described in				
	the Encoding				
	mandatory				
			Mandatory		
			Conditional Optional		
2		D.1.1 Canal (non-navigable at compilation scale)	CANALS(L, A)		OBJNAM NOBJNM SCAMIN SORDAT SORIND
3		D.1.2 Rivers (non-navigable at compilation scale)	RIVERS(L, A)		OBJINAM NOBJINI SCAMIN SORDAT SORIND
1		D.1.3 Water Area Name	SEAARE(P, A)		OBJNAM NOBJNM CATSEA SCAMIN SORDAT SORIND
		used to show name of waterway, e.g. "Albertkanaal"			
1		D.1.4 Dredging Lake	DEPARE(A)		DRVAL1 DRVAL2 QUASOU SORDAT SORIND
			depare(A)		DRVAL1 DRVAL2 eleva1 eleva2 wtwdis hunits SORDAT SORIND
3	144	D.1.5 Lake (non navigable at compilation scale)	LAKARE(A)		OBJINAM NOBJINM SCRAMM SORDAT SORIND
2	VI	D.2.1 Land Area D.2.2 Land Region	LNDRGN(P, A)		OBJNAM NOBJNM SORDAT SORIND OBJNAM NOBJNM SCAMIN SORDAT SORIND
2		used to show name of location	LINDROIN(F, A)		OBJIVANI NOBJIVIN SCANIN SONDAT SONIND
2		D.2.3 Natural Dunes or Ridges	SLOGRD(L, A)		CATSLO NATSUR SCAMIN SORDAT SORIND
		•	SLOTOP(L)		CATSLO NATSUR SCAMIN SORDAT SORIND
2		D.2.4 Rock Wall	SLOTOP(L)		CATSLO NATSUR SCAMIN SORDAT SORIND
		20.70	CTNARE(A)		INFORM SCAMIN SORDAT SORIND
1	V1	D.2.5 Shoreline	COALNE(L)		CATCOA SCAMIN SORDAT SORIND
		line where shore and water meet (EU: mean waer line, US: low water line)			
1		D.3.1 Vegetation	VEGATN(P, A)		CATVEG CONVIS SCAMIN SORDAT SORIND
1		E.1.1 Built-up Areas	BUAARE(P, A)		OBJNAM NOBJNM CATBUA SCAMIN SORDAT SORIND
1		E.1.2 Buildings of Navigational Significance	BUISGL(P, A)		OBJNAM NOBJNM FUNCTN CONVIS SCAMIN SORDAT SORIND
2		E.1.3 International Boundaries & National Limits (Administration Area)	ADMARE(A)		JRSDTN NATION OBJNAM NOBJNM SCAMIN SCAMIN SORDAT SORIND
2		E.2.1 Airport	AIRARE(P, A)		CATAIR OBJNAM NOBJNM SCAMM SORDAT SORIND
2		E.2.2 Railway E.2.3 Road	RAILWY(L) ROADWY(L, A)		OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND CATROD OBJNAM NOBJNM NATCON SCAMIN SORDAT SORIND
1		E.2.3 Road E.3.1 Silo / Storage Tank	SILTNK(P, A)		CATISE OBJINEN INCIDENT BERGINS OF OR TO SOCIETY PRODCT CATSE NOBJINEN NATCON INFORM SCAMIN SORDAT SORIND
1		F.1.1 Conspicuous Landmark	LNDMRK(P, A)		CONVIS CATUMK OBJNAM NOBJNM FUNCTN SCAMIN SORDAT SORIND
1	V2 V6	G.1.1 Bascule Bridge	bridge(A)	1	CATBRG = 5 VERCOL VERCOP windis hunits SCAMIN verdat unlocd INFORM PICREP SORDAT SORIND HORCLR
		-	C_AGGR()		OBJNAM NOBJNM TXTDSC SORDAT SORIND
1	V2 V6	G.1.2 Bridges with Bridge Arches	bridge(A)	1	CATBRG = 1 VERCCI
4	V2 V6	G.1.3 Fixed Bridge	C_AGGR() bridge(A)	- 4	OBJNAM NOBJNM TXTDSC SORDAT SORIND CATBRG = 1 VERCEL\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1	V2 V0	G. 1.3 Fixed Bridge	C AGGR()	'	OBJINAM NOBJINM TXTDSC SORDAT SORIND
1	V2 V6	G.1.4 Lift Bridge	bridge(A)	- 1	CATBRG = 4 VERCCL VERCOP witwids hunits SCAMIN verdat unlocd INFORM PICREP SORDAT SORIND HORCLR
		- · · · · · · · · · · · · · · · · · · ·	C_AGGR()		OBJNAM NOBJNM TXTDSC SORDAT SORIND
1	V2 V6	G.1.5 Suspension Bridge	bridge(A)	1	CATBRG = 12 VERCCL With Minds hunits SCAMIN verdat unlocd INFORM PICREP SORDAT SORIND HORCLR
			C_AGGR()		OBJNAM NOBJNM TXTDSC SORDAT SORIND
1	V2 V6	G.1.6 Swing Bridge	bridge(A) C_AGGR()	1	CATBRG = 3 VERCOL World bunits SCAMIN verdat unlocd INFORM PICREP SORDAT SORIND HORCLE WORLD HOR
2		G.1.7 Tunnel	TUNNEL(L, A)		OBJNAM NOBJNM TXTDSC SORDAT SORIND BURDEP HORCLR VERCIR OBJNAM NOBJNM TXTDSC SCAMIN SORDAT SORIND
1	V6	G.1.8 Overhead Cable	cblohd(L)	1	VERGLR Catable Verdat winds hunts SCAMIN unlocd OBJAMANOBUNIM INFORM NINFOM SCAMIN SORDAT SORIND
1	V6	G.1.9 Overhead Pipe	pipohd(L)	1	VERCLE CATPIP PRODCT verdat wtwdis hunits SCAMIN unlocd OSJNAM NOBJNAM INFORM NINFOM SCAMIN SORDAT SORIND
1		G.1.10 Pylons, Piers, and Bridge, Cable, Pipeline Support	PYLONS(P, A)		CATPYL WATLEV SCAMIN SORDAT SORIND
1	V2 V6	G.1.11 Foot Bridge / Catwalk	bridge(A)	1	CATBRG = 9 VERCCL VERCOP wtwdis hunits SCAMIN verdat unlocd INFORM PICREP SORDAT SORIND HORCLR
		0.04 B L v / L v v v	C_AGGR()		OBJIMA TXTDSC SORDAT SORIND
1		G.2.1 Dyke / Levee not to be used as 'shoreline'. Shorelines should be coded by COALNE	DYKCON(L, A)		HEIGHT INFORM SCAMIN SORDAT SORIND CATSLO NATSUR SCAMIN SORDAT SORIND
		not to be used as 'snoreline'. Snorelines snould be coded by COALINE or SLCONS	SLUTUP(L)		CATSLO NATSUR SCAMIN SORDAT SORIND
2	?	G.2.2 Fence / Floodwall	FNCLNE(L)		CATENC TXTDSC OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND
1	V5/6	G.2.3 Groin	SLCONS(L, A)		CATSLC NATCON watley OBJNAM NOBJNM SORMIN SORDAT SORIND
			LNDARE(A)		OBJNAM NOBJNM SORDAT SORIND
1		G.2.4 Ground Sill	SLCONS(L, A)		CATSLC NATCON WATLEV OBJNAM NOBJNM INFORM SOAMIN SORDAT SORIND
1	V1	G.2.5 Revetment (Loose Stone)	slcons(L, A) RESARE(A)		CATSLC SCAMIN NATCON watlev SCAMIN SORDAT SORIND SORDAT SORIND SORDAT SORIND
1	2	G.2.6 Revetment (Concrete Mattress)	slcons(L, A)		KESTINN SURMIN SURDAT SURINU CATSLO SCAMIN NATCON wately SCAMIN SORDAT SORIND
['	[S.Z.O NOVOLITORI (CONGIGUE WALLESS)	RESARE(A)		RESTRN SCAMIN SORDAT SORIND
1	V5/6	G.2.7 Training Wall	SLCONS(L, A)		catsic NATCON watley OBJNAM NOBJNM SCRMIN SORDAT SORIND
		=	LNDARE(A)		OBJNAM NOBJNM SORDAT SORIND
			DEPARE(A)		DRVAL1 DRVAL2 QUASOU SORDAT SORIND
1	V2	G.3.1 Boat Ramp	SLCONS(P)	<u> </u>	CATSLC NATCON WATEV STATUS OBJINAM NOBJINM SCRAMIN SORDAT SORIND
3	V2 V6	G.3.2 Bunker / Fueling Station G.3.3 Conveyor	bunsta(P, A) CONVYR(L,A)	1	catbun OBJNAM NOBJNM DUTINES INFORM NINFOM TXTDSC unlocd SCAMIN SORDAT SORIND CATCON PRODCT OBJNAM NOBJNM VERCLR SCAMIN SORDAT SORIND
['	V2 V0	G.S.S CONVEYOR	CONVYR(L,A)		CATCON PRODUCT OBJINAM NOBJINM VERCLR SCANINS SORDAT SORIND SORDAT SORIND SORDAT SORIND
			CONTY (L, A)		CONTROL CONTROL VENCEN

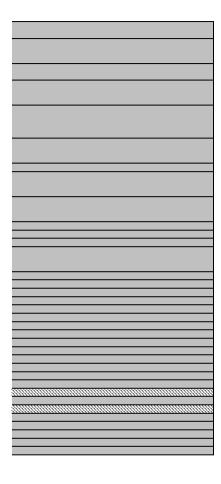
1	G.3.4 Crane	CRANES(P, A)	CATCRN	OBJNAM NOBJNM VERCLR SCAMIN SORDAT SORIND
4	G.3.5 Dock / Wharf	cranes(P,A) SLCONS(P, L, A)	CATCRN	OBJNAM NOBJNM VERCLR verdat SCAMIN SORDAT SORIND NATCON WATLEY OBJNAM NOBJNM SCAMIN SORDAT SORIND
1 V2	G.3.6 Dry Dock	DRYDOC(A)	OBJNAM	INATION WALLEY USJAMA NUSJAM SEAMIN SORDAT SORIND NOBJAM HORLEN HORWID HORCLE DRIVAL TXTDSC SCAMIN SORDAT SORIND
1	G.3.7 Floating Dock	FLODOC(A)	OBJNAM	NOBJIMM HORLEN HORWID HORCLE DRVALT TXTOSC SCAMIN SORBAT SORIND
		flodoc(A)	OBJNAM	NOBJNM HORLEN HORWID HORCLR horcly horcly DRVAL1 verdat TXTDSC SCAMIN SORDAT SORIND
1	G.3.8 Fender	SLCONS(P, L, A)	CATSLC	NATCON WATLEY SCAMIN SORDAT SORIND
2 V11	G.3.9 Harbor Area	hrbare(A)	1 cathbr	OBJNAM NOBJNM TXTDSC unlocd SCAMIN SORDAT SORIND
2 V11	G.3.10 Harbor Basin	hrbbsn(A)	1 HORLEN 1 OBJNAM	HORWID OBJIAM NOBJIM whood SCAMIN SORDAT SORIND
1 V2	G.3.11 Landing Stage, Pontoon	PONTON(A) ponton(A)	OBJNAM	NOBJNM TXTDSC SORDAT SORIND NOBJNM TXTDSC unlocd SCAMIN SORDAT SORIND
1 V11?	G.3.12 Mooring Facility	MORFAC(P, L, A)	CATMOR	NATCON OBJNAM NOBJNM WATLEY SCAMIN SORDAT SORIND
1 V2 V6	dolphin	1101 ti 710 (1 , 2, 77)	CATMOR	NATCON OBJNAM NOBJNM WATLEV SCAMIN SORDAT SORIND
1 V2 V6	post/pile		CATMOR	NATCON OBJINAM NOBJINM WATLEY SCAMIN SORDAT SORIND
1	mooring buoy		CATMOR	NATCON OBJNAM NOBJNM WATLEY SCAMIN SORDAT SORIND
2	bollard		CATMOR	NATCON OBJNAM NOBJNM WATLEV SCAMIN SORDAT SORIND
2	G.3.13 Federal Mooring Facility used to show name of location	SEAARE(P)	OBJNAM	NOBJIM SCAMIN SORDAT SORIND
1	G.3.14 Permanently Moored Vessel or Facility	HULKES(A)	CATHLK	OBJNAM NOBJNM TXTDSC SORDAT SORIND
	· · · · · · · · · · · · · · · · · · ·	hulkes(A)	1 cathlk	OBJNAM NOBJNM TXTDSC unlocd SCAMIN SORDAT SORIND
2 V11	G.3.15 Port Area	prtare(A)	1 OBJNAM	NOBJNM TXTDSC unlocd SCAMIN SORDAT SORIND
2 V11	G.3.16 Free Port Area	FRPARE(A)	OBJNAM	NOBJNM TXTDSC SCAMIN SORDAT SORIND
4 1/2	G.3.17 Refuse Dump G.3.18 Slipway	refdmp(P) SLCONS(A)	CATCLC	OBJNAM NOBJNM unlocd INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND OBJNAM NOBJNM SCAMIN SORDAT SORIND
2 V11	G.3.19 Terminal	termnl(P, A)	1 cathaf	CBSINAWI NOBSINWI SUCKET SURING TATA SURIN
2	G.3.20 Vehicle Transfer Location	vehtrf(P, A)	1 cathaf	TXTDSC HEIGHT verdat unlocd SCAMIN SORDAT SORIND
2	G.3.21 Landing Steps, Ladders	SLCONS(P, A)	CATSLC	SCAMIN SORDAT SORIND
2	G.3.22 Production / Storage Area	PRDARE(A)	CATPRA	PRODCT CONVIS OBJNAM NOBJNM STATUS TXTDSC SCAMIN SORDAT SORIND
2	G.3.23 Ice Breaker	slcons(A)	catslc	NATCON OBJNAM NOBJNM watlev SCAMIN SORDAT SORIND
2	G.4.1 Arrival Point	LNDRGN(P, A)	OBJNAM	NOBJNM INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND NOBJNM INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
4 1/0	G.4.2 Dam / Barrier	SEAARE(P)	OBJNAM	NOBJIM INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
1V2	G.4.2 Dam / Barrier	DAMCON(L, A)	CATDAM OBJNAM	OBJNAM NOBJNM NATCON SCAMN, SORDAT SORIND NOBJNM TXTDSC SORDAT SORIND
		RESARE(A)	CATREA	RESTRIN INFORM SCAMIN SORDAT SORIND
1 V9	G.4.3 Lock Basin	lokbsn(A)	1 horcll	hordw HORLEN HORWID unlocd OBJNAM NOBJNM TXTDSC SCAMIN SORDAT SORIND
		C_AGGR()	OBJNAM	NOBJNM TXTDSC SORDAT SORIND
1 V9	G.4.4 Lock Basin Part	lkbspt(A)	1 horcll	horely HORLEN HORWID unlocd OBJNAM NOBJNM TXTDSC SCAMIN SORDAT SORIND
1	C.A.E.L. pali. Cata	C_AGGR()	OBJNAM	NOBJNM TXTDSC SORDAT SORIND HORCLE VERCLE SCAMM SORDAT SORIND
•	G.4.5 Lock Gate	GATCON(L, A) gatcon(L,A)	CATGAT CATGAT	HORCLE VERGLE SURVIVIOR SOURIND SORDAT SORIND SORDAT SORIND SORDAT SORIND SORDAT SORIND
		C AGGR()	OBJNAM	NOBJAM TXTDSC SORDAT SORIND
1	G.4.6 Lock Name used to show name	comare(A)	catcom	COMCHA OBJNAM NOBJNM STATUS INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
		SEAARE(A)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
		C_AGGR()	OBJNAM	NOBJNM TXTDSC SORDAT SORIND
1	G.4.7 Lock Wall	slcons(A)	catsic OBJNAM	NATCON SCAMIN SORDAT SORIND NOBJNM TXTDSC SORDAT SORIND
1 \/2	G.4.8 Exceptional Navigational Structure	C_AGGR() excnst(P, A)	DRVAL1	NOBJINIM INTIDES SORBAT SORIND catexs verdat windis nuits SCAMIN unload SORDAT SORIND
· • • • • • • • • • • • • • • • • • • •	C.4.0 Exceptional Navigational offucture	C AGGR()	OBJNAM	NOBJIM TXTDSC SORDAT SORIND
2	H.1.1 Current	curent(P, A)	curvhw	curvlw curvmw curvow dirimp hignam lownam meanam othnam ORIENT SCAMIN SORDAT SORIND
1 V9	I.1.1 Detailed Depth - referenced to one water level	DEPARE(A)	DRVAL1	DRVAL2 QUASOU SORDAT SORIND
1 V9	I.1.2 Detailed Depth - water level model	depare(A)	DRVAL1	DRVAL2 eleva1 eleva2 wtwdis hunits QUASOU SORDAT SORIND
1 V9	I.1.3 Dredged Area	DRGARE(A)	DRVAL1	SORDAT SORIND
1 V9	I.1.4 Fairway I.1.5 Fairway Depth / Project Depth	FAIRWY(A) DEPARE(A)	DRVAL1	SORDAT SORIND DRVAL2 QUASOU SORDAT SORIND
1	I.1.6 Low / High Water Range (Drying Height)	DEPARE(A)	DRVAL1	DRVALZ QUASOU SURDAT SORIND DRVALZ INFORM SORDAT SORIND DRVALZ INFORM SORDAT SORIND
1 V9	I.1.7 Shallow Depth	DEPARE(A)	DRVAL1	DRVAL2 SORDAT SORIND
1	I.1.8 Soundings	SOUNDG(P)	SCAMIN	SORDAT SORIND
	depth in figures		0111001	
1	I.1.9 Unsurveyed Area	UNSARE(A)	QUASOU	SORDAT SORIND
	I.1.9 Unsurveyed Aea	DEPARE(A)	DRVAL1	DRVAL2 QUASOU SORDAT SORIND
	unsurveyed, but reposited depth			
2	I.2.1 Depth Contour	DEPCNT(L)	VALDCO	QUASOU SORDAT SORIND
V7	I.3.1 Depth Indicator	sistaw(P)	catsiw	INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
2 V7 1 V7	I.3.2 High Water Mark I.3.3 Vertical Clearance Indicator	sistaw(P) sistaw(P)	catsiw	INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
2 V9/ V12	I.3.4 Waterway Gauge	wtwgag(P, A)	1 OBJNAM	INVEX. NO. INVEX. SUSPENSION SOURCE S
1 V9	I.3.5 Waterway Profile	wtwprf(L)	wtwdis	hunis HEIGHT verdat reflev SCAMIN SCRATSORIND
1 V5	J.1.1 Rocks	UWTROC(P)	WATLEV	VALSOU NATSUR QUASOU SCAMIN SORDAT SORIND
		uwtroc(P)	watlev	VALSOU NATSUR QUASOU SCAMIN SORDAT SORIND
1 V5	J.2.1 Wrecks	WRECKS(P, A)	1 CATWRK	watley VALSOU QUASOU TECSOU STATUS SCAMIN SORDAT SORIND
1 V5	J.3.1 Obstruction	OBSTRN(P, L, A)	CATOBS	NATSUR VALSOU WATLEY INFORM NINFOM SCAMIN SORDAT SORIND

1	Ve	J.3.2 Oil Barrier	OILBAR/L\	CATBAR	SCAMIN SORDAT SORIND
1	V5	K.1.1 Submarine Cable	CBLSUB(L)	CATCBL	OBJINAM NOBJINI STATUS SCAMIN SORDAT SORIND
1			notmrk(P)	catnmk	factinm dirimp disipd disipu disbk1 disbk2 addmrk marsys STATUS INFORM NINFOM SCAMIN SORDAT SORIND
			CTNARE(A)	INFORM	SCAMIN SORDAT SORIND
1	V5	K.1.2 Submarine Cable Area	CBLARE(A)	CATCBL	RESTRI OBJNAM NOBJNM STATUS SCAMIN SORDAT SORIND
			notmrk(P)	catnmk	fnctnm dirimp disipd disipu disbk1 disbk2 addmrk marsys STATUS INFORM NINFOM SCAMIN SORDAT SORIND
1	V5	K.2.1 Submarine Pipeline	PIPSOL(P, L)	CATPIP	PRODCT OBJNAM NOBJNM STATUS SCAMIN SORDAT SORIND
			notmrk(P)	catnmk	fnctnm dirimp disipd disipu disbk1 disbk2 addmrk <mark>marsys S</mark> TATUS INFORM NINFOM <mark>SCAMIN SORDAT SORIND</mark>
	1.05	(0 0 0 1 1 1 D) 1	CTNARE(A)	INFORM	SCAMIN SORDAT SORIND
1	V5	K.2.2 Submarine Pipeline Area	PIPARE(A)	CATPIP	PRODCT RESTRAI OBJAMA NOBJAMA STATUS SCAMMA SORDAT SORIND
4	1/7	L 4 4 Navigation Line	notmrk(P)	CATNAY	finctime dirimp disipd disipd disbk1 disbk2 addmrk marsys STATUS INFORM NINFOM SCAMIN SORDAT SORIND ORIENT SCAMIN SORDAT SORIND
1	V / 7	L.1.1 Navigation Line L.1.2 Sailing Line / Recommended Track	NAVLNE(L) RECTRC(L)	CATTRK	URIENT SCHIIM SURUAT SURIND ORIENT TRAFIC INFORM SCAMIN SORDAT SORIND
ļ'	V	L.1.2 Salling Line / Recommended Track	SEAARE(P)	OBJNAM	NOBJIMI SCANINI SORINI
1	\/7	L.1.3 Two-way Route Part	wtware(A)	ORIENT	TRAFIC SCAMIN SORDAT SORIND
3	V8	L.1.4 Waterway Axis	wtwars(L)	catccl	OBJNAM NOBJNM SGAMIN SORDAT SORIND
1	V13	L.2.1 Cable Ferry	FERYRT(L)	CATERY	OBJNAM NOBJNM INFORM NINFOM STATUS TXTDSC SCAMIN SORDAT SORIND
1	V13	L.2.2 Free Moving Ferry	FERYRT(L)	CATFRY	OBJNAM NOBJNM INFORM NINFOM STATUS TXTDSC SCAMIN SORDAT SORIND
1	V13	L.2.3 Swinging Wire Ferry	feryrt(L)	CATFRY	OBJNAM NOBJNM INFORM STATUS TXTDSC SCAMIN SORDAT SORIND
			BOYSPP(P)	BOYSHP	CATSPM COLOUR CONRAD OBJNAM NOBJNM SCAMIN SORDAT SORIND
2	V9	L.3.1 CEMT Classification, ISRS Code	wtware(A)	1 catccl	dirimp unlocd SCAMIN SORDAT SORIND
3	V8	L.3.2 Distance Mark Along Waterway Axis	dismar(P)	CATDIS	wtwdis unlocd hunits SCAMIN SORDAT SORIND
1	V8	L.3.3 Distance Mark Ashore	dismar(P)	1 CATDIS	wtwdis hunits SCAMIN SORDAT SORIND
1		M.1.1 Anchorage Area	achare(P, A)	1 catach	clsdng TXTDSC OBJNAM NOBJNM restrn NATSUR STATUS unlocd INFORM NINFOM SCAMIN SORDAT SORIND
			SEAARE(P)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
1		M.1.2 Anchorage Berth	achbrt(P, A)	1 catach	cisding TXTDSC OBJNAM NOBJNM restri NATSUR STATUS unlocd INFORM NINFOM SCAMIN SORDAT SORIND
1		M.1.3 Berth without Transshipment / Fleeting Areas	berths(P, L, A)	1 catach	clsdng TXTDSC DRVAL1 OBJNAM NOBJNM STATUS unlocd INFORM NINFOM SCAMIN SORDAT SORIND
	144	MAAT	SLCONS(L, A)	CATSLC	NATCON WATLEY SCAMIN SORDAT SORIND
1	V11	M.1.4 Transshipment Berth	berths(P, L, A)	1 catach	clsdng TXTDSC DRVAL1 OBJNAM NOBJNM STATUS trshgd unlocd INFORM NINFOM SCAMIN SORDAT SORIND
	\ (40	MOAD at the LAws	SLCONS(L, A)	CATSLC	NATCON WATLEY SCAMIN SORDAT SORIND
1	V13	M.2.1 Restricted Area	resare(A)	restrn	CATREA NATSUR INFORM NINFOM SCAMM SORDAT SORIND
1	V7? V7?	M.3.1 Caution Area	CTNARE(P, A)	OBJNAM	NOBJNM NFORM SCAMIN SORDAT SORIND
1	V/?	M.4.1 Communication Area M.4.2 River Surveillance Area	comare(A) ADMARE(A)	catcom	COMCHAOBJNAM NOBJNM STATUS INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND NATION OBJNAM NOBJNM INFORM NINFOM TXTDSC SCAMIN SORDAT SORIND
1	1/0	M.4.3 Section of Limited Depth	resare(A)	JRSDIN	NATION CENTRAL NOBJIMI INFORM INFOOM X TORS BEARING SORDAT SORIND OBJIAM NOBJIMI NATSUR INFORM INFOOM SORMIN SORDAT SORIND
1	V9 V9	M.4.4 Section of Limited Depth M.4.4 Section of Limited Width	resare(A)	restro	OBJINAM MOBJIMI NATSUR INFORM NINFOM SCAMIN SORDAT SORIND OBJINAM MOBJIMI NATSUR INFORM NINFOM SCAMIN SORDAT SORIND
1	V9	M.4.5 Turning Basin	trnbsn(P, A)	1 HORCLR	OBJINAM NOBJINM INFORM INIFORM GOADING SCAMIN SORDAT SORIND
1	V7	N.1.1 Bridge Light	LIGHTS(P)	COLOUR	Gestavian Mostavian interview minited in successful section of the
1	**	N.1.2 Minor Light	PILPNT(P)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
1'		14. 1.2 Willor Light	LIGHTS(P)	COLOUR	EXCLIT LITCHR SIGPER SIGGED MLTYLT INFORM STATUS SCAMIN SORDAT SORIND
1	V7	N.1.3 Leading Light	PILPNT(P)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
1		======= g ==g	LIGHTS(P)	CATLIT	COLOUR EXCLIT ORIENT LITCHR SIGPER SIGGER SIGSEQ MLTYLT INFORM STATUS SCAMIN SORDAT SORIND
			NAVLNE(L)	CATNAV	ORIENT SCAMIN SORDAT SORIND
			RECTRC(L)	CATTRK	DRVAL1 DRVAL2 ORIENT TRAFIC SCAMIN SORDAT SORIND
1	V7	N.1.4 Directional Light	PILPNT(P)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
		ľ	LIGHTS(P)	CATLIT	COLOUR EXCLIT LITCHR LITVIS ORIENT SIGPER SIGGER SIGSEQ MLTYLT INFORM STATUS SCAMIN SORDAT SORIND
			NAVLNE(L)	CATNAV	ORIENT SCAMIN SORDAT SORIND
			RECTRC(L)	CATTRK	DRVAL1 DRVAL2 ORIENT TRAFIC SCAMIN SORDAT SORIND
1	V7	N.1.5 Sector Light	PILPNT(P)	OBJNAM	NOBJNM SCAMIN SORDAT SORIND
1			LIGHTS(P)	COLOUR	EXCLIT LITCHR SECTR1 SECTR2 SIGPER SIGGRP SIGSEQ INFORM STATUS SCAMIN SORDAT SORIND
			NAVLNE(L)	CATNAV	ORIENT SCAMIN SORDAT SORIND
			RECTRC(L)	CATTRK	DRVAL1 DRVAL2 ORIENT TRAFIC SCAMIN SORDAT SORIND
1	V7	O.1.1 Buoy at Bifurcation of Channel	BOYLAT(P)	BOYSHP	CATLAM COLOUR MARSYS OBJNAM NOBJNM INFORM SCAMIN SORDAT SORIND
1			BOYSPP(P)	BOYSHP	CATSPM COLOUR COLPAT MARSYS CONRAD OBJNAM NOBJNM SCAMIN SORDAT SORIND
			boylat(P)	BOYSHP	catlam COLOUR COLPAT marsys CONRAD OBJNAM NOBJNMINFORM SCAMIN SORDAT SORIND
1			TOPMAR(P)	COLOUR	TOPSHP COLPAT SCAMIN SORDAT SORIND
<u>_</u>	\ 	O 4 O D of Dillo Billo	LIGHTS(P)	COLOUR	EXCLIT LITCHR SIGPER SIGGRP SIGSEQ SCAMIN SORDAT SORIND CATION COLOUR COLOUR MATERIAL MATERIAL COLOUR MATERIAL MATERIAL COLOUR MATERIAL MATERIAL COLOUR MATERIAL MATERIAL COLOUR MATERIAL COLO
1	V7	O.1.2 Buoy at Bridge Pillar	boylat(P)	BOYSHP	Galamii COLLOUR COLEPAT MARSY CONRAD OBJINAM NOBJINAM INFORM SORDAT SORIND
<u>_</u>	177	O.4.2 Duran Marking Dearest Daint	LIGHTS(P) BOYSPP(P)	COLOUR BOYSHP	EXCLIT LITCHE SIGPER SIGGER SIGSEQ SCAMIN SORDAT SORIND CATSPM COLOUR COLPAT MARSYS CONRAD OBJNAM NOBJNMINFORM SCAMIN SORDAT SORIND
1	V7	O.1.3 Buoy Marking Danger Point		BOYSHP	CATISHM COLOUR COLPAT MARSYS CONRAD OBJINAM NOBJINMINFORM SCAMIN SORDAT SORIND catism COLOUR COLPAT marsys CONRAD OBJINAM NOBJINMINFORM SCAMIN SORDAT SORIND
			boylat(P) TOPMAR(P)	COLOUR	CRIAIM COLON COLPAN MARYS CONRAD OBJNAM NOBJNM INFORM SCAMIN SORIAL SORIND TOPSIP SCAMIN SORDAT SORIND
			LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGPER SIGGEP SIGSEQ SCAMIN SORDAT SORIND
1	\/7	O.1.4 Cardinal Buoy	BOYCAR(P)	BOYSHP	EACHT BITCH SIGNEY SIGNEY SOUND SOUN
1'	**	O. 1 Garumai Buoy	TOPMAR(P)	COLOUR	CATCAM COLOUR COLOUR MARSTS CONRAD OBJINAM NOBJINM INFORM BOAMIN SORDAT SORIND
1			LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGPER SIGGEP SIGSEQ SCAMIN SORDAT SORIND
1	V7	O.1.5 Lateral Buoy	boylat(P)	BOYSHP	catiam COLOUR COLPAT marsys CONRAD OBJNAM NOBJNMINFORM SCAMIN SORDAT SORIND
Ι΄		oo Ediorai Buoy	TOPMAR(P)	COLOUR	TOPSHP SCAMIN SCRIAT SCRIAT SCRIAT SCRIAT SCRIAT
			LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGER SIGSEQ SCAMIN SORDAT SORIND
1	V7	O.1.6 Safe Water Buoy	BOYSAW(P)	BOYSHP	COLOUR COLPAT CONRAD OBJNAM NOBJNM INFORM SCAMIN SORDAT SORIND
			TOPMAR(P)	COLOUR	TOPSHP SCAMIN SORDAT SORIND
1			LIGHTS(P)	COLOUR	EXCLIT LITCHR SIGFER SIGGRP SIGSEQ SCAMIN SORDAT SORIND
			/		· · · · · · · · · · · · · · · · · · ·

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1 V7	O.1.7 Stalling Buoy	BOYLAT(P)	BOYSHP	CATLAM COLOUR COLPAT MARSYS OBJNAM INFORM SCAMIN SORDAT SORIND
	0.100 1.100	LIGHTS(P)	COLOUR	LITCHR SIGGRP SCAMIN SORDAT SORIND COLOUR COLPAT OBJNAM NOBJNM INFORM SCAMIN SORDAT SORIND
1 V7	O.1.8 Swinging Axial Buoy	BOYSAW(P)	BOYSHP	
		TOPMAR(P)	COLOUR	TOPSHP INFORM SCANINI SORDAT SORIND
4	O.1.9 Swinging Lateral Buoy	LIGHTS(P)	COLOUR BOYSHP	LITCHR SIGGRP SCAMIN SORDAT SORIND CATLAM COLOUR COLPAT MARSYS INFORM SCAMIN SORDAT SORIND
1 V7	0.1.9 Swinging Lateral Buoy	BOYLAT(P) LIGHTS(P)	COLOUR	CATLAM CULTURE GUERALI MARSYS INFORM BURMINI SORDAT SORIND LITCHE SCAMIN SORDAT SORIND
1/7	O.1.10 Isolated Danger Buoy	BOYISD(P)		COLONE COLPAT CONRAD OBJINAM NOBJINM INFORM SCAMIN SORDAT SORIND
V 7	O. 1. To Isolated Danger Buoy	TOPMAR(P)	BOYSHP COLOUR	COLOUR COLPAI CONRAD CONTAIN NODININ INFORM SCANNING SCRUAT SORING TOPSHP SCANIN SORDAT SORIND
		LIGHTS(P)		EXCLIT LITCHE SIGPE SIGGEP SIGSEQ SCAMIN SORDAT SORIND
1 1/7	O.2.1 Day Mark	bcnlat(P)	COLOUR BCNSHP	cation diring CoLOUR COLONT COLONT SORDAT SORIND
· V	O.2.1 Day Walk	DAYMAR(P)	COLOUR	COLPAT INFORM SORDAT SORIND
		daymar(P)	COLOUR	TOPSHP COLPAT INFORM diring ORIENT SCANNIN SORDAT SORIND
		LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGPER SIGGED INFORM SCAMIN SORDAT SORIND
1 \/7	O.2.2 Landmark Beacon	BCNLAT(P)	BCNSHP	CATLAM COLON COLPAT SCAMIN SORDAT SORIND
· · · · · · · · · · · · · · · · · · ·	O.2.2 Landillark Deacon	TOPMAR(P)	COLOUR	TOPSHP COLPAT SCAMIN SORDAT SORIND
		LIGHTS(P)	COLOUR	TITCHE SIGGED SCAMIN SORDAT SORIND
1 \/7	O.2.3 Radar Beacon, RACON	RTPBCN(P)	CATRTB	LITCHR SIGGRP SCAMIN SORDAT SORIND RADWAL SIGGRP SCAMIN SORDAT SORIND
1 V7	O.2.4 Spring Flood Beacon	BCNLAT(P)	BCNSHP	CATLAM COLOUR INFORM NINFOM SCAMIN SORDAT SORIND
'	O.2.4 Opining Flood Deacon	TOPMAR(P)	COLOUR	TOPSHP SCAMIN SORDAT SORIND
		LIGHTS(P)	COLOUR	LITCHE SCAMIN SORDAT SORIND
1 V7	O.2.5 Isolated Danger Beacon	BCNISD(P)	BOYSHP	COLOUR COLPAT CONRAD OBJNAM NOBJNM INFORM SCAMIN SORDAT SORIND
		TOPMAR(P)	COLOUR	TOPSHP INFORM SCAMIN SORDAT SORIND
		LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGPER SIGGED SCAMIN SORDAT SORIND
1 V7	O.3.1 Notice Marks	notmrk(P)	catnmk	fnctnm dirimp disipd disipu disbk1 disbk2 addmrk bnkwtw marsys STATUS INFORM NINFOM SCAMIN SORDAT SORIND
1 V7	O.3.2 Notice Marks on Bridges	notmrk(P)	catnmk	fnctnm dirimp marsys ORIENT STATUS SCAMIN SORDAT SORIND
1 V7	O.3.3 Wreck Pontoon	notmrk(P)	catnmk	ORIENT INFORM DATSTA DATEND PERSTA PEREND SCAMIN SORDAT SORIND
1 V7	O.4.1 Special Purpose Buoy IALA	BOYSPP(P)	BOYSHP	CATSPM COLOUR CONRAD OBJNAM NOBJNM SCAMIN SORDAT SORIND
		LIGHTS(P)	COLOUR	EXCLIT LITCHE SIGPER SIGGED SIGSED SCAMIN SORDAT SORIND
		TOPMAR(P)	COLOUR	TOPSHP COLPAT SCAMIN SORDAT SORIND
1 V7	P.1.1 Fog Signal	FOGSIG(P)	CATFOG	SIGFRQ SIGGEN SIGGEP SIGGEQ VALMXR SCAMIN SORDAT SORIND
3	Q.1.1 Radar Station	RADSTA(P)	CATRAS	OBJNAM NOBJNM SCAMIN SORDAT SORIND
1 V7	Q.2.1 Radio Calling-in Point	rdocal(P, L)	TRAFIC	ORIENT COMCHA catcom TXTDSC OBJNAM NOBJNM SCAMIN SORDAT SORIND
1	R.1.1 Check Point	chkpnt(P, A)	1 catchp	NATION TXTDSC OBJNAM NOBJNM unlocd SCAMIN SORDAT SORIND
1 V7	R.2.1 Traffic Signal Station - Bridge Passage	sistat(P)	catsit	dirimp TXTDSC OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND
1 V7	R.2.2 Traffic Signal Station - Lock	sistat(P)	catsit	dirimp TXTDSC OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND
1 V7	R.2.3 Traffic Signal Station - Oncoming Traffic Indicator	sistat(P)	catsit	dirimp TXTDSC OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND
1 V7	R.2.4 Traffic Signal Station - Port Entry and Departure	sistat(P)	catsit	dirimp TXTDSC OBJNAM NOBJNM INFORM NINFOM SCAMIN SORDAT SORIND
2 V11?	S.1.1 Harbor Facilities	hrbfac(P, A)	cathaf	TXTDSC SCAMIN SORDAT SORIND
1	S.1.2 Marina	HRBFAC(P, A)	CATHAF	OBJNAM NOBJNM SOAMIN SORDAT SORIND
3	S.1.3 Small Craft Facility	SMCFAC(P, A)	CATSCF	TXTDSC OBJNAM NOBJNM SCAMM SORDAT SORIND
1 V10	T.1.1 Time Schedule (general)	tisdge()	catlab	schref shptyp useshp aptref dirimp SORDAT SORIND
1	U.1.1 Maximum Permitted Ship Dimensions	lg_sdm(A)	lg_rel	Ig bme Ig Igs Ig drt. Ig wdp Ig wdu Ig des Ic csi Ic cse Ic asi Ic ase Ic cci Ic cce Ig pbr SORDAT SORIND
1	U.1.2 Maximum Permitted Vessel Speed	lg_vsp(A)	ig_rei	
2 257	C.1.1 Data Coverage C.1.2 Data Quality	M_CUVR(A)	CATCOV	SORDAT SORIND SORIND SORDAT SORIND
1 1/7		M_QUAL(A) m_nsys(A)	CATZOC	SORDAT SORIND SORDAT SORIND
1 V7	C.1.4 Sounding Datum		marsys	SORDAT SORIND SORDAT SORIND
1	C.1.4 Sounding Datum C.1.5 Vertical Datum	m_sdat(A) m_vdat(A)	verdat	SORDAT SORIND SORDAT SORIND
2	C.1.6 Quality of Data for Detailed Depth Information	M QUAL(A)	TECSOLI	SOUACE POSACE SORDAT SORIND
2	C.1.5 Quality of Data for Detailed Depth Information C.1.7 Survey Reliability for Detailed Depth Information	M SREL(L, A)	OUASOU	SUDACE PUSACE SURAIT SURIND QUAPOS BURAIT SURBIA SURSIA SURTYP SORDAT SORIND
1	C.1.7 Survey Reliability for Detailed Depth Information C.1.8 Nautical Publication Information	M NPUB(A)	TYTOSC	QUAPUS BURNATH SUREIN SURSIA SURTIF SURDAT SURIND SORDAT SORIND
	O. 1.0 INAUTICAL FUDIICATION INTOTTIATION	IVI_INFUD(A)	TATUSC	OUNDA! OUNIND



othnor	odrlov	vorlov	CCAMPI	SORDAT	CODIND
othnam	sdrlev	vcrlev	SCAMIN	SUKDAI	SUKIND
nunum	annana a	nunnun	HIIIIIIIII		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
minni	immini	immini	mmmi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mmini



- 1 trnbsn(P, A)
- 1 wtware(A)
- 1 wtwgag(P, A)
- 1 excnst(P, A)
- 1 lkbspt(A)
- 1 lokbsn(A)
- 1 hrbbsn(A)
- 1 bridge(A)
- 2 berths(P, L, A)
- 2 achbrt(P, A)
- 2 achare(P, A)
- 2 vehtrf(P, A)
- 2 hulkes(A)
- 2 ponton(A)
- 2 bunsta(P, A)
- 3 dismar(P)
- 3 termnl(P, A)
- 4 chkpnt(P, A)
- 4 prtare(A)
- 4 hrbare(A)

An area of water or enlargement of a channel used for turning vessels.

Classification of the waterway according to CEMT; local International Ship Reporting System code.

A waterway gauge is an instrument for measuring water levels.

An exceptional navigational construction such as an aqueduct, lift-lock,

A lock basin is divided into several lock basin parts, if this lock basin has one ground level but several gates.

A lock basin is a wet dock in a waterway, permitting a ship to pass from one level to another.

An enclosed area of water surrounded by quay walls constructed to provide means for the transfer of cargo fr A bridge having permanent horizontal and vertical alignment.

A designated named or numbered place at the bank of the river or in a harbour basin for the mooring of vesse A designated area of water where a single vessel, convoy, sea plane, etc. may anchor.

An area in which vessels anchor or may anchor.

A place where vehicles can be loaded or unloaded from the inland vessel with onboard or onshore facilities. A permanently moored ship

A floating structure, usually rectangular in shape which serves as landing, pier head or bridge support.

A station, at which a vessel is able to bunker fuel, water or ballast

A distance mark indicates the distance measured from an origin and consists of a distinct location without spe A terminal covers that area on shore that provides buildings and constructions for the transfer of cargos from An official place to register, declare, or check goods and/or people.

Apart from harbors, a port includes a city or borough with accommodations and facilities for landing passenge The area of water and land with the works necessary for its formation, protection and maintenance.

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