

1	2	(3)	4	5	(6)	(7)	
Component	CO ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the CO ³	Proposed change by the CO	Secretariat observations on each comment submitted

Section 1 checked							
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Title	GB	1.2	Title	ge	The International Hydrographic Organization Electronic Navigation Chart Product Specification	The International Hydrographic Organization Electronic Navigational Chart Product Specification	
Enumeration	GB	1.3.1	Enumeration	ge	enumeration A fixed list of valid identifiers of named literal values. Attributes of an enumerated type may only take values from this list (source: ISO 19136:XX, Geographic information — Geography Markup Language (GML))	show in alphabetical order; move enumeration with definition to sit between curve and feature	
Geometric primitive	GB	1.3.1	Geometric primitive	ge	They include points, curves, surfaces and solids	add solid with definition (and boundary NOTE if required); solid missing - points, curves and surfaces defined (suggest remove solids)	
Surface	GB	1.3.1	Surface	ge	NOTE: The boundary of a point is the empty set	move NOTE to sit under point definition	
ECDIS	GB	1.3.2	ECDIS	ge	Electronic Chart Display and Information System	Retain as Electronic Chart Display and Information System	
GML	GB	1.3.2	GML	ge	General Mark-up Language	Geography Markup Language	
ISO	GB	1.3.2	ISO	ge	International Organisa s ion for Standardization	International Organization for Standardization	
Use of language	GB	1.4	Use of language	ge	“Should” indicates an d optional requirement, that is the recommended process to be followed, but is not mandatory;	“Should” indicates an optional requirement, that is the recommended process to be followed, but is not mandatory.	

Section 2 checked to 2.4.9 only							
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Aggregated feature type	GB	2.1	Aggregated feature type	ge	Aggregated feature type – are features made up of component features	What are component features – need for a definition; add examples – bridge	
Emergency wreck marking	GB	2.2	Table 2.1	te	Missing Buoy: Emergency Wreck Marking Buoy	Add Buoy Emergency Wreck Marking Buoy P to table	

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buoy							
Geometric primitives	GB	2.2	Table 2.1	ge	5.7 RAPIDS - Primitives: Point, Curve, Surface	Point, Curve, Surface shown in Table 2.1, previous Product Specification and UOC Ed 4.0.0 tracked changes which states point primitive does not display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove (inconsistent with WATFAL)	
Geometric primitives	GB	2.2	Table 2.1	ge	CTRPNT - Not shown as a Feature, appears only in Table 2.1 and in Distinction for LNDMRK (S57MD8) and Tanks, silos	Remove references as necessary	
Geometric primitives	GB	2.2	Table 2.1	ge	5.11 VEGATN - Primitives: Point, Curve, Surface	Point, Surface shown in Table 2.1 and Point, Curve, Surface shown in previous Product Specification and UOC Ed 4.0.0 tracked changes.	
Geometric primitives	GB	2.2	Table 2.1	ge	6.5 BRIDGE - Primitives: Point (struck through), Curve, Surface	Point, Curve, Surface shown in Table 2.1, previous Product Specification and UOC Ed 4.0.0 tracked changes which states point primitive does not display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove.	
Geometric primitives	GB	2.2	Table 2.1	ge	6.14 ROADWY - Primitives: Point (struck through), Curve, Surface (as shown in Table 2.1)	Point, Curve, Surface shown in previous Product Specification and UOC Ed 4.0.0 tracked changes which states point primitive does not display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove.	
Geometric primitives	GB	2.2	Table 2.1	ge	6.15 TUNNEL - Primitives: Point (struck through), Curve, Surface	Point, Curve, Surface shown in previous Product Specification and Table 2.1. UOC Ed 4.0.0 tracked changes states point primitive does not	

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						display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.4 PILPNT - Primitives: Point, Curve, Surface	Point shown in previous Product Specification and UOC Ed 4.0.0 tracked changes, Point, Surface shown in Table 2.1. Confirm geometric primitives for PILPNT.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.11 DAMCON - Primitives: Curve, Surface	Point, Curve, Surface shown in Table 2.1, previous Product Specification and UOC Ed 4.0.0 tracked changes. Confirm geometric primitives for DAMCON.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.12 CRANES - Primitives: Point, Curve, Surface (as shown in Table 2.1)	Primitives: Point, Surface shown in previous Product Specification and UOC Ed 4.0.0 tracked changes. Confirm geometric primitives for CRANES.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.16 FLODOC - Primitives: Point, Curve, Surface (as shown in Table 2.1)	Primitives: Curve, Surface shown in previous Product Specification and UOC Ed 4.0.0 tracked changes. Confirm geometric primitives for FLODOC.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.17 PONTON - Primitives: Point, Curve, Surface (as shown in Table 2.1)	Primitives: Curve, Surface shown in previous Product Specification and UOC Ed 4.0.0 tracked changes. Confirm geometric primitives for PONTON.	
Geometric primitives	GB	2.2	Table 2.1	ge	8.19 GRIDRN - Primitives: Point (struck through), Surface	Point, Surface shown in Table 2.1, previous Product Specification and UOC Ed 4.0.0 tracked changes which states point primitive does not display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove.	
Geometric	GB	2.2	Table 2.1	ge	10.3 CURENT - Primitives: Point, Curve, Surface	Point, Surface shown in Table 2.1 and Point shown in previous Product Specification and	

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primitives						UOC Ed 4.0.0 tracked changes. Confirm geometric primitives for CURENT.	
Geometric primitives	GB	2.2	Table 2.1	ge	13.1 Foul ground - Primitives: Point, Curve, Surface (as shown in Table 2.1)	13.6.1 states Foul ground, over which it is safe to navigate but which should be avoided for anchoring, taking the ground or ground fishing, should be encoded using a Foul Ground feature of type surface or point. 24.153.1 (not otherwise checked) shows Point/Surface. Confirm geometric primitives for Foul ground.	
Geometric primitives	GB	2.2	Table 2.1	ge	14.5 PIPSOL - Primitives: Point (struck through), Curve	Curve shown in Table 2.1, Point, Curve shown in previous Product Specification and UOC Ed 4.0.0 tracked changes which states point primitive does not display in an ECDIS - require a consistent approach for when point features do not display in an ECDIS, to either retain or remove.	
Geometric primitives	GB	2.2	Table 2.1	ge	15.5 RECTRC - Primitives: Curve, Surface (as shown in previous Product Specification and UOC Ed 4.0.0 tracked changes)	Add geometric primitive S to Table 2.1 for Recommended track	
Geometric primitives	GB	2.2	Table 2.1	ge	15.17 TSELNE - Primitives: Curve	Remove geometric primitive Area for TSELNE from Table 2.3 in UOC Ed 4.0.0 tracked changes, and amend AREA to Area for TSEZNE.	
Geometric primitives	GB	2.2	Table 2.1	ge	16.21 ICNARE - Incineration area missing from Table 2.1	Add Incineration area (geometric primitives P and S) to Table 2.1	
Multiplicity	GB	2.4.1	Multiplicity Table	ge	Format shown as: MinOccurs, MaxOccurs (if * Infinite) ordered – sequential e.g. LNDMRK Multiplicity for COLOUR: 0,* (ordered)	remove brackets iaw example shown in the multiplicity table in section 2 ^{1,* ordered} Multiplicity for COLOUR: 0,* ordered	
Simple attribute	GB	2.4.2	Time	te	Time: A time is given by an hour, minute and	The two examples require + and - respectively to	

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types					<p>second. Character encoding of a time is a string that follows the local time (complete representation, basic format) format defined in ISO 8601:1988.</p> <p>Time zone according to UTC is optional.</p> <p>Example: 183059 or 183059+0100 or 183059Z</p> <p>The complete representation of the time of 27 minutes and 46 seconds past 15 hours locally in Geneva (in winter one hour ahead of UTC), and in New York (in winter five hours behind UTC), together with the indication of the difference between the time scale of local time and UTC, are used as examples.</p> <p>Geneva: 1527460100 New York: 1527460500</p>	<p>denote the hours ahead and behind of UTC (complete representation/basic format)</p> <p>Geneva: 152746+0100 New York: 152746-0500</p>	
Dates	GB	2.4.8	Dates	te	_ No specific day required: CCYYMM	ISO 8601:1988 states year as YYYY _ No specific day required: YYYYMM	
Dates	GB	2.4.8	Dates	te	_ No specific month required: CCYY	ISO 8601:1988 states year as YYYY _ No specific day required: YYYYMM	
Dates	GB	2.4.8	Dates	te	Notes CCYY = calendar year	ISO 8601:1988 states year as YYYY Notes YYYY = calendar year	
Times	GB	2.4.9	Times	te	CCYYMMThhmmss	ISO 8601:1988 states year as YYYY YYYYMMThhmmss	
Section 3 checked to 3.6 only							
Quality of non-bathymetric data	GB	3.1	Quality of non-bathymetric data	te	Vertical uncertainty (VERACC) (S) RE 0,1 shown as a sub-attribute of Survey date range?	Vertical uncertainty (VERACC) RE 0,1	

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Quality of non-bathymetric data	GB	3.1	SCAMIN	te	Scale minimum (struck through)	Remove from table, SCAMIN – NOT SET	
Data coverage	GB	3.3	Table 2.2	te	Mandatory attribute: Category of coverage (struck through)	Category of coverage shown as mandatory attribute for Data coverage in Table 2.2 and previous ENC Product Specification. Amend Table 2.2 as required to show Maximum display scale and Minimum display scale for Data coverage.	
Coverage	GB	3.3.1	Table in 3.3.1	te	Table only shows the previous 11 Standard scale (rounded) values	Update table for new values 1 : 1000, 2 : 2000, 3 : 3000 and 15 : 10000000 and amended value 14 : 3500000	
Nautical publication information	GB	3.4	Table 2.1	te	Whole of this section (struck through)	Shown as a feature in Table 2.1	
Navigational system of marks	GB	3.5	SCAMIN	te	Scale minimum (struck through)	Remove from table, SCAMIN – NOT SET	
Local direction of buoyage	GB	3.6	SCAMIN	te	Scale minimum shown	Remove from table, SCAMIN – NOT SET	
Section 4 tables checked							
MAGVAR	GB	4.1	INFORM	te	INFORM	Remove Information attribute, not required. No instances found in GB data.	
MAGVAR	GB	4.1	Primitives	te	Point and curve	Supporting comment [A48] allowable but not recommended	
MAGVAR	GB	4.1	VALACM and VALMAG	te	plus/minus decimal minutes. Positive (unsigned) value indicates easterly. Negative value indicates	sign, negative values only. Ensure picrep shows E or W (feedback	

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					westerly	received) provide example as IHO Attributes. Clarity required on format no positive signs to be used, iaw IHO Attributes.	
MAGVAR	GB	4.1	SCAMIN	te	scale minimum > scale maximum	Amend as Scale maximum struck through	
Local magnetic anomaly	GB	4.2.1	Remarks	ge	The plus/minus character must not be encoded.	Support comment [A49] clarify single value and range of values, put in two examples, as unclear	
Section 5 checked to 5.11 only							
LNDARE	GB	5.4	STATUS	te	Status (STATUS) 18 : existence doubtful EN 0,*	change multiplicity to 0,1 (as for Status on Rivers), only one value 18 : existence doubtful provided	
LNDARE	GB	5.4	SCAMIN	te	SCAMIN	retain SCAMIN add a remark for usage; currently NOT SET	
Section 6 checked to 6.8 only							
BUAARE	GB	6.1	BUAARE	te	BUAARE	Recommend new attribute for Pilots, to reduce the numerous INFORM = Pilots in GB cells for Pilot stations ashore (over 100 instances)	
BUAARE	GB	6.1	CATBUA	te	CATBUA	Recommend new allowable encoding value for Bases, 7 : manned base (Summer only, unoccupied - INFORM currently used)	
BUAARE	GB	6.1	CATBUA	te	CATBUA	Recommend new allowable encoding values for the following: scattered buildings; hotels; houses on stilts	
BUISGL	GB	6.2	NATCON	te	NATCON 9 : painted (struck through)	Is this required?	
BUISGL	GB	6.2	NATCON	te	NATCON 10 : latticed not shown	Required for telecommunication towers	
BUISGL	GB	6.2	FUNCTN	te	Recommend new allowable encoding values for	INFORM currently used	

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					the following: house; hut;		
AIRARE	GB	6.3	CATAIR	ge	CATAIR 1 : military aeroplane airport 2 : civil aeroplane airport	Why in pink text when same as Feature Object Attributes?	
AIRARE	GB	6.3	CATAIR	te	Recommend new allowable encoding values for the following: airfield; airstrip;	INFORM currently used (may need encoding guidance for airstrip to use RUNWAY)	
AIRARE	GB	6.3	CONDTN	te	CONDTN 3 : under reclamation	Remove 3 : under reclamation from CONDTN. AIRARE on land (under reclamation is an area of the sea that is being reclaimed)	
AIRARE	GB	6.3	STATUS	te	STATUS 5 : periodic/intermittent shown	Are PEREND and PERSTA attributes required, not in IHO Object Catalogue for AIRARE (however shown for RUNWAY)	
RUNWAY	GB	6.4	CATRUN	te	CATRUN	Recommend new allowable encoding value for the following: airstrip	
RUNWAY	GB	6.4	NATCON	te	NATCON	Set Attribute_A NATCON retained - is this required?	
BRIDGE	GB	6.5	NATCON	te	NATCON 10 : latticed	IHO FCD Registry shows 10 : framework. Confirm value to be used.	
CONVYR	GB	6.8	CATCON	te	CATCON 2 : belt (struck through) conveyor	IHO FCD Registry shows 2 : belt conveyor. Confirm value to be used.	
Section 7 tables checked							
LNDMRK	GB	7.1	Table in 7.1	ge	Missing features in table in 7.1 for LNDMRK	Add new features: 22 : triangulation mark and 23 : boundary mark to the table in 7.1	
LNDMRK	GB	7.1	Table in 7.1	te	Feature: Windmotor	Feature: Windmotor on land. Shown as amendment (discussed at DCEG Sub-WG5) in UOC Ed 4.0.0 tracked changes.	
LNDMRK	GB	7.2	FUNCTN	ge	FUNCTN new allowable encoding values: 43 : passenger terminal building, 44 : sea rescue	Show new allowable encoding values 43 to 46 in green	

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					control, 45 : observatory, 46 : ore crusher, 47 : boathouse and 48 : pumping station		
LNDMRK, SILTNK, FORSTC, PRDARE	GB	7.2, 7.3, 7.4, 7.5	SORDAT	ge	Reported date (SORDAT) ISO 8601:1988 DA 0,1 shown? Source date (SORDAT) ISO 8601:1988 (S) DA 1,1 in pink struck through?	Why has SORDAT has been used for Reported date? (generic comment)	
LNDMRK	GB	7.2	LNDMRK	te	In the water BO 0,1	Remove - agree with comment A77.	
SILTNK	GB	7.3	PRODCT	te	Missing allowable encoding value from PRODCT	Insert allowable encoding value 16 : sawdust/wood chips. Common use for silos.	
SILTNK	GB	7.3	SILTNK	te	In the water BO 0,1	Is this required?	
FORSTC	GB	7.4	CATFOR	te	CATFOR new allowable encoding values: 8 : fortified submarine shelter and 9 : rampart	IHO Attributes show 1 - 6. Missing entry 7. Confirm numbering for new allowable encoding values.	
FORSTC	GB	7.4	CATFOR	te	STATUS 7 : temporary 8 : private 14 : public	Are these values required?	
FORSTC	GB	7.4	STATUS	te	IHO FCD Registry shows 19 - 27: Addition IHO (SNPWG) 19 : on request; 20 : drop away; 21 : rising; 22 : increasing; 23 : decreasing; 24 : strong; 25 : good; 26 : moderately; 27 : poor	Confirm numbering for new allowable encoding value STATUS 19 : buoyed	
FORSTC	GB	7.4	FORSTC	te	In the water BO 0,1	Is this required? (new CATFOR 8 : fortified submarine shelter)	
PRDARE	GB	7.5	CONDTN	te	CONDTN 3 : under reclamation	Remove 3 : under reclamation from CONDTN. PRDARE on land (under reclamation is an area of the sea that is being reclaimed)	
PRDARE	GB	7.5	PRODCT	te	PRODCT new allowable encoding values: 23 : electricity and 25 : clay	Missing entry 24? Confirm numbering for new allowable encoding values.	
PRDARE	GB	7.5	PRODCT	te	PRODCT	Insert new allowable encoding value Nuclear for PRODCT. (Nuclear power plant)	

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PRDARE	GB	7.5	STATUS	te	STATUS 8 : private	Is this required?	
LNDMRK, SILTNK, FORSTC, PRDARE	GB	7.2, 7.3, 7.4, 7.5	STATUS	te	STATUS 1 : permanent	Is this required?	
Section 8 not checked							
Section 9 tables checked							
Section 10 not checked							
Section 11 not checked							
Section 12 tables checked							
SBDARE	GB	12.1	Surface characteristics	ge	Surface characteristics C 1,* (ordered) (NATSUR) (S) EN 0,1 (NATQUA) (S) EN 0,3 Underlying layer (S) IN 0,1	Why the different multiplicities? Explain the Surface characteristics attribute.	
Section 13 not checked							
Section 14 not checked							
Section 15 not checked							
RECTRC	GB	15.5	DATEND	ge	Fixed date range Date end (DATEND) (S) DA 1,1	All other entries show 0,1 as for Date start	
Section 16 not checked							
Section 17 not checked							
Section 18 not checked							
Section 19 checked to 19.3 only							
BOYLAT	GB	19.1	Lateral buoy	ge	Set Attribute_A VERACC not shown	Generic comment for all previous attributes not	

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BOYLAT, BOYCAR, BOYISD	GB	19.1, 19.2, 19.3	BOYSHP	ge	BOYSHP 7 : superbuoy	IHO FCD Registry shows 7 : super-buoy. Will the existing value be changed in IHO FCD Registry?	
BOYLAT, BOYCAR, BOYISD	GB	19.1, 19.2, 19.3	NATCON	te	NATCON 10 : latticed	IHO FCD Registry shows 10 : framework. Confirm value to be used.	
BOYLAT	GB	19.1	STATUS	te	STATUS	Recommend new allowable encoding value for the following: reported missing; (may require year reported missing). INFORM currently used (Is this covered by 18 : existence doubtful?)	
BOYLAT, BOYCAR, BOYISD	GB	19.1, 19.2, 19.3	COLOUR and COLPAT	te	COLOUR (change multiplicity to 0,1) and COLPAT (remove)	Agree with comment [A224] for complex attribute TOPMAR	
BOYLAT, BOYCAR, BOYISD	GB	19.1, 19.2, 19.3	Association	te	Association: structure/equipment Role: Supports Multiplicity: 0,1	Explain how the multiplicity works? Why 0,1? Would there be an association for buoy and light and then a separate association for buoy and fog signal?	
BOYISD	GB	19.3	STATUS	te	STATUS allowable encoding values 1, 2, 4, 5, 7, 8, 12 and 18 shown	Remove allowable encoding values: 4 : not in use and 12 : illuminated as not shown for BOYLAT and BOYCAR.	
BOYSPP	GB	19.5	CATSPM	te	CATSPM	Recommend new allowable encoding value for the following: dan buoy, as INFORM is currently used.	
BOYSPP	GB	19.5	BOYSHP	te	BOYSHP	Recommend new allowable encoding value for the following: toroidal, as INFORM is currently used.	
Section 20 tables checked							

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AIS aid to navigation	GB	20.1	Category of AIS aid to navigation	te	Mandatory attribute: Category of AIS aid to navigation shows 1 : physical, 2 : synthetic and 3 : virtual	Should these all be incorporated into one feature or should physical AIS be attributed to the aid to navigation as an attribute? Reconsider allowable encoding values.	
AIS aid to navigation	GB	20.1	Category of AIS aid to navigation	te	STATUS allowable encoding values 1 : permanent; 5 : periodic/intermittent; 7 : temporary shown	Recommend change multiplicity to 0,1 as numerous instances are not required for the allowable encoding values shown.	
AIS aid to navigation	GB	20.1	Category of AIS aid to navigation	te	Association: structure/equipment Role: Supports Multiplicity: 0,1	How does the association work? Should the role be Supported by as for 20.3?	
RDOSTA	GB	20.2	Category of radio station	ge	CATROS 10 : Differential GNSS (also stated in Remarks)	Discrepancy noted: CATROS 10 : Differential GPS. Will the existing value be changed in IHO FCD Registry or will the numbering need to be changed?	
RDOSTA	GB	20.2	Category of radio station	ge	CATROS new allowable encoding values: 15 : radio telephone station, 16 : AIS base station, 17 : eLoran	Confirm numbering as IHO FCD Registry shows 15 : public communications (for conversations), 16 : commercial broadcast, 17 : facsimile transmission, 18 : time signal.	
RDOSTA	GB	20.2	Category of radio station	ge	STATUS allowable encoding values 1, 2, 4, 5, 7, 8 shown	Check - discuss	
RDOSTA	GB	20.2.1	Radio stations	ed	The exception is "emergency use only" VHF-based direction finding services (which do not use RDF equipment.	Improve - opening bracket only	
RTPBCN	GB	20.3	Radar transponder beacon	te	Signal sequence (SIGSEQ) (S) C 0, *(ordered)	Remove (S) illogical for complex attribute to be a sub-attribute: Signal sequence (SIGSEQ) C 0, *ordered	
Section 21 checked to 21.3 only							
PILBOP	GB	21.1	Status	te	STATUS allowable encoding values 1 - 3, 5, 6, 9, 16, 17, 19 shown	Is this required? Remove allowable encoding value: 3 : recommended.	

1 CO = Contributing Organisation (HOs should use 2 character codes e.g. FR AU etc.)

2 Type of comment: ge = general te = technical ed = editorial

3 Whilst not compulsory, comments are more likely to be accepted if accompanied by a proposed change.

NOTE Columns 1, 2, 4, 5 are compulsory.

1	2	(3)	4	5	(6)	(7)	
Component	CO ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the CO ³	Proposed change by the CO	Secretariat observations on each comment submitted
PILBOP	GB	21.1	Status	ge	IHO FCD Registry shows 19 - 27: Addition IHO (SNPWG) 19 : on request; 20 : drop away; 21 : rising; 22 : increasing; 23 : decreasing; 24 : strong; 25 : good; 26 : moderately; 27 : poor	Confirm numbering for new allowable encoding value STATUS 19 : buoyed	
PILBOP	GB	21.1	Association	ge	Association: District boarding locations Role: Boarding location Multiplicity: 0,*	Why Multiplicity: 0,*? Not sure how this works.	
Vessel traffic surface area	GB	21.2	SCAMAX	ge	SCAMAX (struck through)	Remove SCAMAX not required for a new feature	
CGUSTA	GB	21.3	STATUS	te	STATUS allowable encoding values 1, 4, 5, 16, 17 shown	Is this required? Add allowable encoding value: 2 : occasional if required	
CGUSTA	GB	21.3	Remarks	te	Remarks: If it is required to encode a MRCC, it should be done using Coastguard Station, with complex attribute information (sub-attribute text) = Maritime Rescue and Coordination Centre. The name of the station may be populated using the complex attribute feature name (sub-attribute name), e.g. MRCC Swansea.	Avoid using INFORM where possible - reference comment AHO235 - not sure about use of CATRSC. Recommend create a new attribute either Maritime Rescue and Coordination Centre of type BO and multiplicity 0,1 or Category of coastguard station of type EN and multiplicity 0,1 either as an attribute (or a sub-attribute of complex attribute Feature name)	

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