

S-124 Data Capture and Encoding Guide

Annex B: The Joint IMO/IHO/WMO Manual on Maritime Safety Information by type of hazard encoded as a S-124 Navigational Warning.

- Casualties to lights, fog signals, buoys and other aids to navigation affecting main shipping lanes.

Example 1 – Buoy Missing

Message element	Example 1 – Buoy Missing
1. Message series identifier	NAVAREA I 570/21
2. General area	IRISH SEA.
3. Locality	NORTHERN IRELAND.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	HELLYHAUNTER LIGHTBUOY
6. Geographical position	50-00.30N 006-02.00W MISSING
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Irish Sea
	locality	localityIdentifier	
		locationName	language: eng text: Northern Ireland
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber:570 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
	intService:	Y	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
	warningInformation	text: ISOLATED DANGER BUOY MISSING NavwarnTypeDetails: buoy missing	
	geometry	50-00.30N 006-02.00W	
	areaAffected	point	
	identifies (role)	ID01	
	cartographicText (role)	ID02	
TextPlacement (ID02)	text	Buoy missing	
	textJustification	right	
	geometry	50-00.30N 006-02.00W	
References	noMessageOnHand	N	

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Discussion Points:

- 1) NACs know their generalArea and locality the best, but perhaps we should establish some guidelines on how to best capture this information? Consider:
 - a) Simple: See example 1
 - b) Complex: See example 5
- 2) Currently buoys are associated to a position, but S-124 could provide the opportunity to link it to its unique buoy identifier (MRN) (if available) from the administrations AtoN database.
- 3) The system will link to the appropriate database(s) for the affected paper and/or ENC charts; information reviewed by NACs during the message drafting process.
- 4) As generated by S-124, the system would use the publicationDate format yyyyymmddTxxxxxxZ, where “T” separates date from time group; and time is expressed with six digits.
- 5) Currently the symbol “NW” is envisioned to plot on the lat/long of the buoy, but in this example we can use a TextPlacement to insert the type of warning, “missing buoy” to the right of the location.
- 6) Here we also see how the NW Preamble and the Navigational WarningFeaturePart(s) are linked to each other by the use of IDs in both parts. For a complex model, refer to Section 3, example 3.

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Example 2 – Light Unreliable

Message element	Example 2 – Light Unreliable
1. Message series identifier	NAVAREA III 451/21
2. General area	WESTERN MEDITERRANEAN SEA.
3. Locality	TUNISIA-NORTH COAST.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	CANIS LIGHT 31-21.20N 010-07.40E UNRELIABLE.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Western Mediterranean Sea
	locality	localityIdentifier	
		locationName	language: eng text: Tunisia-North Coast
	messageSeriesIdentifier	country: ES nameOfSeries: NAVAREA III productionAgency: ES warningIdentifier: warningNumber: 451 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: CANIS LIGHT UNRELIABLE NavwarnTypeDetails: light unreliable	
	geometry	31-21.20N 010-07.40E	
	areaAffected	Point	
	restrcition		
	Identifies (role)	ID01	
	cartographicText (role)	ID02	
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
References	ScaleMinimum		
	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

* when useful, additional values for warningHazardTypeDetails can be used, and this is done by adding an optional instance of the attribute.

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Discussion Points:

- 1) For **generalArea** is this << Tunisia. North Coast. >> (which would necessitate two generalAreas) or << Tunisia, North Coast. >> (one generalArea)?

Example 3 – Fog Signal Out of Service

Message element	Example 3 – Fog Signal Out of Service
1. Message series identifier	NAVAREA I 1279/21
2. General area	ENGLAND-EAST COAST.
3. Locality	RACE BANK WIND FARM.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	FOG SIGNALS INOPERATIVE AT TURBINES IN
6. Geographical position	A. 53-14.90N 000-48.90E.
7. Amplifying remarks	B. 53-17.80N 000-46.30E.
8. Cancellation details	C. 53-21.10N 000-49.10E.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: England – East Coast
	locality	localityIdentifier	
		locationName	language: eng text: Race Bank Wind Farm
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 1279 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: FOG SIGNALS INOPERATIVE NavwarnTypeDetails: fog signal out of service	
	geometry	53-14.90N 000-48.90E	
	areaAffected	Point	
	geometry	53-17.80N 000-46.30E	
	areaAffected	Point	
	geometry	53-21.10N 000-49.10E	
	areaAffected	Point	
	restriction		
	Identifies (role)	ID01	
	cartographicText (role)	ID02	
TextPlacement (ID02)	text		
	textJustification		
	geometry		

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	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	

Example 4 – RACON temporary removal

Message element	Example 4 – RACON temporary removal
1. Message series identifier	NAVAREA V 678/22
2. General area	WESTERN SOUTH ATLANTIC.
3. Locality	BRAZIL-SOUTH COAST.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. RACON AT TRAMANDAI LIGHT 30-00.50S 050-08.2W
6. Geographical position	INOOPERATIVE UNTIL 29 MAR 2022.
7. Amplifying remarks	2. CANCEL THIS MSG 30 MAR 2022.
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Western South Atlantic
	locality	localityIdentifier	
		locationName	language: eng text: Brazil-South Coast
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 678 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20220330T000000Z	
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPPreambleContent	intService:	Y	
	header (role)	ID00	
NavigationalWarn Part (ID01)	theWarningPart (role)	ID01	
	featureName	Tramandai Light	
	featureReference		
	fixedDateRange		
	warningInformation	text: Racon at Tramandai Light unreliable until 29 Mar 2022. NavwarnTypeDetails: RACON out of service	
	geometry	30-00.50S 050-08.2W	
	areaAffected	Point	
	restriction		
	identifies (role)	ID01	
	cartographicText (role)	ID02	
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
References	ScaleMinimum		
	noMessageOnHand	N	

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Discussion Points:

- 1) The official name of the light is entered into featureName field.
- 2) S-124 production systems can be configured to also pull the List of Light number from the administrations AtoN database and an automatically enter it into the featureReference field.

Example 5 – DGPS Station Removal

Message element	Example 1 – DGPS Station Removal
1. Message series identifier	NAVAREA IV 608/19
2. General area	GULF OF MEXICO.
3. Locality	TEXAS.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	ANGLETON DGPS STATION 29-18.10N 095-29.00W
6. Geographical position	PERMANENTLY DISCONTINUED.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Gulf of Mexico
	locality	localityIdentifier	
		locationName	language: eng text: Texas
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 608 warningType: (4) NAVAREA navigational warning year: 19	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20190101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NWPreambleContent	featureName	Angleton DGPS Station	
NavigationalWarn Part (ID01)	featureReference		
	fixedDateRange		
	warningInformation	text: Angleton DGPS Station Permanently discontinued NavwarnTypeDetails: DGPS station removal	
	geometry	29-18.10N 095-29.00W	
	areaAffected	Point	
	restrciction		
	Identifies (role)	ID01	
	cartographicText (role)	ID02	
	text		
	textJustification		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		

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References	noMessageOnHand	N
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- 2 The presence of dangerous wrecks in or near main shipping lanes and, if relevant, their marking

Example 1 – Dangerous Wreck

Message element	Example 1 – Dangerous Wreck
1. Message series identifier	NAVAREA VIII 805/21
2. General area	BAY OF BENGAL.
3. Locality	OFF KRISHNAPATNAM.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	DANGEROUS WRECK REPORTED IN 14-14.25N 080-09.85E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Bay of Bengal
	locality	localityIdentifier	
		locationName	language: eng text: off Krishnapatnam
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 805 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20210101T000000Z	
	navwarnTypeGeneral:	Newly discovered dangers	
	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NWPPreambleContent	featureName		
NavigationalWarn Part (ID01)	featureReference		
	fixedDateRange		
	warningInformation	text: Dangerous wreck reported NavwarnTypeDetails: Dangerous wreck	
	geometry	14-14.25N 080-09.85E	
	areaAffected	Point	
	restriction		
	Identifies (role)	ID01	
	cartographicText (role)	ID02	
	text		
	textJustification		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	

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	ReferenceCategory	
	messageSeriesIdentifier	

Example 2 – Wreck Located with Depth

Message element	Example 2 – Wreck Located with Depth
1. Message series identifier	NAVAREA XX 110/22
2. General area	BARENTS SEA.
3. Locality	CHART _____ (INT _____) .
4. Chart number	WRECK, LEAST DEPTH 20 METRES,
5. Key subject	IN 70-10.72N 032-56.55E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: Barents Sea
	locality	localityIdentifier	
		locationName	language: eng text
	messageSeriesIdentifier	country: RU nameOfSeries: NAVAREA XX productionAgency: RU warningIdentifier: warningNumber: 110 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Newly discovered dangers	
	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NWPPreambleContent	featureName		
NavigationalWarn Part (ID01)	featureReference		
	fixedDateRange		
	warningInformation	text: Wreck, Least Depth 20 Metres NavwarnTypeDetails: Dangerous wreck	
	geometry	70-10.72N 032-56.55E	
	areaAffected	Point	
	restrciction		
	Identifies (role)	ID01	
TextPlacement (ID02)	cartographicText (role)	ID02	
	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

Discussion Points:

- 1) Wreck with depth is not captured within the TypeDetails

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Example 3 – Wreck with Buoy

Message element	Example 3 – Wreck with Buoy
1. Message series identifier	NAVAREA IX 279/21
2. General area	IRAN.
3. Locality	RAS E JESK.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	DANGEROUS WRECK MARKED BY SOUTH CARDINAL BUOY
6. Geographical position	IN 25-38.85N 057-39.51E.
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text:IRAN
	locality	localityIdentifier	
		locationName	language: eng text:: RAS E JESK
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 279 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Newly discovered dangers	
	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NWPPreambleContent	featureName		
	featureReference		
NavigationalWarn Part (ID01)	fixedDateRange		
	warningInformation	text: Dangerous wreck marked by south cardinal buoy NavwarnTypeDetails: Dangerous wreck	
	geometry	25-38.85 057-39.51	
	areaAffected	Point	
	restrciction		
	Identifies (role)	ID01	
	cartographicText (role)	ID02	
	text		
	textJustification		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	

Discussion Points:

- 1) Would this be captured as two separate datasets one for the added wreck and one for the marking south cardinal buoy.

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- 2) The buoy could be captured in the text to allow only one feature displayed on the ECDIS and relay on the information captured within the dataset to allow the mariner to discover the full piece of MSI

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- 3 Establishment of major new aids to navigation or significant changes to existing ones, when such establishment or change might be misleading to shipping

Example 1 – Light Established

Message element	Example 1 – Light Established
1. Message series identifier	NAVAREA VIII 600/21
2. General area	INDIA – WEST COAST.
3. Locality	VALIYAZHIKAL.
4. Chart number	CHART _____ (INT _____).
5. Key subject	LIGHT, FL(3) W 2 SEC 15 M, ESTABLISHED
6. Geographical position	IN 09-08.41N 076-27.27E.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: INDIA – WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: VALIYAZHIKAL
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 600 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	NWPreambleContent	navwarnTypeGeneral: intService:	Aids to Navigation Y
NavigationalWarningFeaturePart (ID01) NWPreambleContent NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: LIGHT FL(3) W 2 Sec 15 M ESTABLISHED NavwarnTypeDetails: light establishment	
	geometry	09-08.41N 076-27.27E	
	areaAffected	Point	
TextPlacement (ID02)	restriction		
	text		
	textJustification		
	geometry		
References	flipBearing		
	ScaleMinimum		
	noMessageOnHand	N	

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Example 2 – Buoy Established

Message element	Example 2 – Buoy Established
1. Message series identifier	NAVAREA V 556/21
2. General area	BRAZIL.
3. Locality	ILHA DE SAO SEBASTIAO.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	SPECIAL BUOY (ODAS), YELLOW, FL(5) Y 20 SEC,
6. Geographical position	ESTABLISHED IN 24-28.03S 044-24.36W.
7. Amplifying remarks	
8. Cancellation details	

NWPreable (ID00)	generalArea	locality/Identifier locationName	language: eng text: BRAZIL
	locality	locality/Identifier locationName	language: eng text: ILHA DE SAO SEBASTIAO
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 556 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
NWPreableContent	navwarnTypeGeneral:	Aids to Navigation	
NavigationalWarningFeaturePart (ID01) NWPreableContent NavigationalWarn Part (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	Text: SPECIAL BUOY (ODAS), YELLOW, FL(5) Y 20 SEC ESTABLISHED NavwarnTypeDetails: buoy establishment	
TextPlacement (ID02)	geometry	24-28.03S 044-24.36W	
	areaAffected	Point	
	restriction		
	text		
References	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
	noMessageOnHand	N	

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Example 3 – Range Reduced

Message element	Example 3 – Range Reduced
1. Message series identifier	NAVAREA VIII 664/21
2. General area	ANDAMAN SEA.
3. Locality	PORT BLAIR.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	NORTH POINT LIGHT 11-42.29N 092-45.22E RANGE REDUCED TO
6. Geographical position	10 MILES.
7. Amplifying remarks	
8. Cancellation details	

NW Preamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ANDAMAN SEA
	locality	localityIdentifier	
		locationName	language: eng text: PORT BLAIR
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 664 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationTime	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NW PreambleContent	intService:	Y	
NavigationalWarningFeaturePart (ID01) NW PreambleContent NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displaynName: language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange		
	warningInformation	Text: NORTH POINT LIGHT RANGE REDUCED TO 10 MILES NavwarnTypeDetails: light range reduced	
	geometry	11-42.29N 092-45.22E	
	areaAffected	Point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	

Discussion Points:

- 1) In this example the featureName would require a URN?.

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Example 4 – Sector Light

Message element	Example 4 – Sector Light
1. Message series identifier	NAVAREA VIII 528/22
2. General area	INDIA-WEST COAST.
3. Locality	KANHOJI ANGRE.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	KHANDERI ISLAND LIGHT 18-42.20N 072-48.82E VISIBLE
6. Geographical position	SECTOR CHANGED TO WHITE 181-018, RED 018-181 DEGREES.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: INDIA-WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: KANHOJI ANGRE
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 528 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPreambleContent	intService:	Y	
NavigationalWarningFeaturePart (ID01) NWPreambleContent NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displaynName: language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:	
	warningInformation	Text: KHANDERI ISLAND LIGHT VISIBLE SECTOR CHANGED TO WHITE 181-018, RED 018-181 DEGREES. NavwarnTypeDetails: light range reduced	
	geometry	18-42.20N 072-48.82E	
	areaAffected	Point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
References	ScaleMinimum		
	noMessageOnHand	N	

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Example 5 – Light Change

Message element	Example 5 - Light Change
1. Message series identifier	NAVAREA III 863/21
2. General area	WESTERN MEDITERRANEAN SEA.
3. Locality	ALGERIA.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	ILE RACHGOUN LIGHT 35-19.45N 001-28.65W
6. Geographical position	CHANGED TO F R.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: WESTERN MEDITERRANEAN SEA
	locality	localityIdentifier	
		locationName	language: eng text: ALGERIA
	messageSeriesIdentifier	country: es nameOfSeries: NAVAREA III productionAgency: es warningIdentifier: warningNumber: 863 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPreambleContent	intService:	Y	
NavigationalWarningFeaturePart (ID01) NWPreambleContent NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: ILE RACHGOUN LIGHT CHANGED TO F R. NavwarnTypeDetails: light change	
	geometry	35-19.45N 001-28.65W	
	areaAffected	Point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
References	ScaleMinimum		
	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

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Discussion Points:

- 1) In this example the featureName is encoded, the featureReference (list of light number) could be extracted from an AtoN database linked with the production system.
- 2) If the official name of the light includes the word “light”, do we still need to include the word “light” in the text field?

Example 6 – AIS (Physical)

Message element	Example 6 – AIS (Physical)
1. Message series identifier	NAVAREA I 12/21
2. General area	SCOTLAND, NORTH-EAST COAST.
3. Locality	APPROACHES TO INVERNESS.
4. Chart number	CHART _____(INT _____).
5. Key subject	AIS AID TO NAVIGATION MMSI 992351072 ESTABLISHED AT RIFF BANK
6. Geographical position	EAST LIGHT-BUOY 57-38.38N 003-58.15W.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SCOTLAND
	generalArea	localityIdentifier	
		locationName	language: eng text: EAST COAST
	locality	localityIdentifier	
		locationName	language: eng text: APPROACHES TO INVERNESS
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 222 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
NWPreambleContent	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: Y language: eng name: RIFF BANK EAST LIGHT-BUOY	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: AIS AID TO NAVIGATION MMSI 992351072 ESTABLISHED AT RIFF BANK EAST LIGHT-BUOY NavwarnTypeDetails: AIS transmitter establishment	
	geometry	57-38.38N 003-58.15W	
	areaAffected	Point	
	restriction		

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TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In this example the featureName is encoded, while the featureReference (list of light number) could be extracted and input automatically from the linked AtoN database.
- 2) If the official name of the light includes the word “light”, do we still need to include the word “light” in the text field?
- 3) Since the current warningHazardType list doesn’t differentiate between synthetic and virtual AIS, we can use << Other: physical AIS >> as an optional instance.
- 4) * Should we instruct the NACs to indicate the type of AIS (i.e. a physical unit or a virtual signal)?

Example 7 – AIS (Virtual)

Message element	Example 7 – AIS (Virtual)
1. Message series identifier	NAVAREA X 12/21
2. General area	TORRES STRAIT.
3. Locality	CAPE YORK NORTHWESTWARD.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	HERALD PATCHES BUOY 10-30.16S 142-21.50E TEMPORARILY
6. Geographical position	REMOVED. VIRTUAL AIS AID TO NAVIGATION STARBOARD HAND
7. Amplifying remarks	
8. Cancellation details	MARK MMSI 995036022 ESTABLISHED AT THE SAME POSITION.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: TORRES STRAIT
	locality	locality/Identifier	
		locationName	language: eng text: CAPE YORK NORTHWESTWARD
	messageSeriesIdentifier	country: au nameOfSeries: NAVAREA X productionAgency: AMSA warningIdentifier: warningNumber: 12 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: Y language: eng name: HARALD PATCHES BUOY	
	featureReference	AtoNNumber:	

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		featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: HARALD PATCHES BUOY TEMPORARILY REMOVED. VIRTUAL AIDS TO NAVIGATION STARBOARD HAND MARK MMSI 995036022 ESTABLISHED. NavwarnTypeDetails: V-AIS establishment
	geometry	10-30.16S 142-21.50E
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

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4 The presence of large unwieldy tows in congested waters

Example 1 – Unwieldy Tow

Message element	Example 1 – Unwieldy Tow
1. Message series identifier	NAVAREA II 465/21
2. General area	PORTUGAL TO SPAIN.
3. Locality	OFF CAPE FINISTERRE.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	TOWING OPERATIONS IN PROGRESS BY TUG EEMS TOWING
6. Geographical position	M/V ANGON FROM LEIXOES TO VILLAGARCIA, LENGTH OF TOW
7. Amplifying remarks	400 METRES ALONG LINE JOINING
8. Cancellation details	38-22.60N 009-38.20W, 40-20.65N 010-03.88W, 42-12.87N 008-56.44W. WIDE BERTH REQUESTED.

NWPreamble (ID00)	generalArea	localityIdentifier	language: eng
		locationName	text: PORTUGAL TO SPAIN
	locality	localityIdentifier	
		locationName	language: eng
			text: OFF CAPE FINISTERRE
	messageSeriesIdentifier	country: ES nameOfSeries: NAVAREA III productionAgency: ES warningIdentifier: warningNumber: 465 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
	publicationDate	20220101T000000Z	
NWPreambleContent	navwarnTypeGeneral:	Towing operations	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: TOWING OPERATIONS IN PROGRESS BY TUG EEMS TOWING M/V ANGON FROM LEIXOES TO VILLAGARCIA, LENGTH OF TOW 400 METRES. WIDE BERTH REQUESTED NavwarnTypeDetails: unwieldy tow	
	geometry	38-22.60N 009-38.20W 40-20.65N 010-03.88W 42-12.87N 008-56.44W.	

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	areaAffected	Curve
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In order to effectively plot the progression of the navigational warning on ECDIS, the NAC should provide better geometry in terms of a series of waypoints from which an estimated 'curve' can be drawn from the port of departure city to the port of arrival.
- 2) In this case we only have start and end points but ideally the more waypoints provided, the greater the accuracy of the example. This might be rather challenging given wind/current/sea state considerations along this lengthy voyage, but we don't need precision, just an estimated path. Thus, the NW would plot along the established route.
- 3) Operations are in progress is it possible to have a DateTimeStart but not a DateTimeEnd?

Example 2 – Drill Rig Under Tow

Message element	Example 2 – Drill Rig Under Tow
1. Message series identifier	NAVAREA VII 342/21
2. General area	SOUTH ATLANTIC OCEAN.
3. Locality	SOUTH AFRICA TO SENEGAL.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	TUG SEA ALFA TOWING DRILL RIG PETROBRAS 2000.DEPARTS
6. Geographical position	CAPE TOWN 34-52.45S 018-29.45E DESTINATION DAKAR 18-
7. Amplifying remarks	16.00S 004-28.00E.LENGTH OF TOW 500 METRES. WIDE
8. Cancellation details	BERTH REQUESTED

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: SOUTH ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng
			text: SOUTH AFRICA TO SENEGAL.
	messageSeriesIdentifier	country: za nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 342 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
NWPreambleContent	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Towing operations	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N	language: name:

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	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: TUG SEA ALFA TOWING DRILL RIG PETROBRAS 2000. DEPARTS CAPE TOWN DETINATION DAKAR. LENGTH OF TOWN 500 METRES. WIDE BERTH REQUESTED NavwarnTypeDetails: drill rig under tow
	geometry	34-52.45S 018-29.45E 18-16.00s 004-28.00E
	areaAffected restriction	Curve
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In order to effectively plot the progression of the navigational warning on ECDIS, the NAC should be provided better geometry in terms of a series of waypoints from which an estimated 'curve' can be drawn from the port of departure city to the port of arrival. Currently there is insufficient information to plot this NW in ECDIS. We are limited by only having a start (port name only) an end position and one point of reference for the vessel path.
 - a) Could a NAC enter in points for display purposes? In this case a curve would not be possible and two points would not be sufficient for the mariner.
- 2) Would the NAC need to enter a cancellation time given the provided ETA? If so, what duration should the NAC use?

Example 3 – Drill Rig Under Tow with Trackline

Message element	Example 3 – Drill Rig Under Tow with Trackline
1. Message series identifier	NAVAREA XIII 54/21
2. General area	SEA OF JAPAN.
3. Locality	PROLIV LAPERUZA AND SAKHALIN NORTH EAST COAST.
4. Chart number	CHART _____ (INT _____).
5. Key subject	TUG TOWING DRILLING RIG PA-B 04 ON 18 JUN 2021 ALONG
6. Geographical position	LINE JOINING
7. Amplifying remarks	34-58.10N 128-48.35E, 52-55.90N 143-29.95E,
8. Cancellation details	45-43.00N 141-58.02E, 45-45.00N 142-30.00E, 45-49.00N 143-19.00E, 45-55.00N 143-40.00E, 52-52.00N 143-39.53E. LENGTH OF TOW 1000 METRES SPEED 4.2 KNOTS. ONE MILE BERTH REQUESTED.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SEA OF JAPAN
	locality	localityIdentifier	
		locationName	language: eng text: PROLIV LAPERUZA AND

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		SAKHALIN NORTH EAST COAST.
	messageSeriesIdentifier	country: ru nameOfSeries: NAVAREA XIII productionAgency: ru warningIdentifier: warningNumber: 54 warningType: (4) NAVAREA navigational warning year: 21
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____
	title	
	cancellationDate	
	publicationDate	20210618T000000Z
NWPreambleContent	navwarnTypeGeneral:	Towing operations
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: TUG TOWING DRILL RIG PA- B 04 ON 18 JUN 2021. LENGTH OF TOW 1000 METRES, SPEED 4.2 KNOTS. ONE MILE BERTH REQUESTED. NavwarnTypeDetails: drill rig under tow
	geometry	34-58.10N 128-48.35E 52-55.90N 143-29.95E 45-43.00N 141-58.02E 45-45.00N 142-30.00E 45-49.00N 143-19.00E 45-55.00N 143-40.00E 52-52.00N 143-39.53E
	areaAffected	Curve
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In order to effectively plot the progression of the navigational warning on ECDIS, the NAC should be provided better geometry in terms of a series of waypoints from which an estimated 'curve' can be drawn from the port of departure city to the port of arrival. This example demonstrates how challenging it will be to encode the waypoints unless NACs are provided clear guidelines. NACs need to start thinking in terms of digitized processes.
- 2) The addition of the way point text is optional, should the NAC be encouraged to do so as this may make the plotting of very long lines more visually clear for users? Users may have the option to turn off the text anyhow.
 - a) Is there any update on if cartographic text is optional for the mariner?

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- 3) Would the NAC need to enter a cancellation time given the provided ETA? If so, what duration should the NAC use?

Example 4 – Tow with positional update

Message element	Example 4 – Tow with positional update
1. Message series identifier	NAVAREA I 219/21
2. General area	ENGLISH CHANNEL.
3. Locality	DOVER STRAIT AND AT WEST HINDER TSS.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. ALP DEFENDER TOWING MV SPIEGELGRACHT FROM LYME
6. Geographical position	BAY, ENGLAND TO ZEEBRUGGE, BELGIUM IN VICINITY OF
7. Amplifying remarks	LINE JOINING
8. Cancellation details	50-10.1N 002-22.0W, 50-01.6N 002-17.1W, 50-27.8N 000-58.9E, 50-40.1N 001-20.9E, 50-54.1N 001-29.1E, 51-06.9N 001-47.7E, 51-22.0N 002-29.9E, 51-22.0N 002-40.7E, 51-25.3N 002-48.7E. LENGTH OF TOW 800 METRES. 2. ALP DEFENDER IN 50-40.1N 001-20.9E AT 020200 UTC DEC 2021.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ENGLISH CHANNEL.
	locality	localityIdentifier	
		locationName	language: eng text: DOVER STRAIT
	locality	localityIdentifier	
		locationName	language: eng text: AT WEST HINDER TSS
	messageSeriesIdentifier	country: gb nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 219 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
NWPPreambleContent	publicationDate	20210618T000000Z	
	navwarnTypeGeneral:	Towing operations	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: ALP DEFENDER TOWING MV SPIEGELGRACHT FROM LYME BAY, ENGLAND TO ZEEBRUGGE,	

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		BELGIUM. LENGTH OF TOW 800 METRES . NavwarnTypeDetails: unwieldy tow
	geometry	50-10.1N 002-22.0W 50-01.6N 002-17.1W 50-27.8N 000-58.9E 50-40.1N 001-20.9E 50-54.1N 001-29.1E 51-06.9N 001-47.7E 51-22.0N 002-29.9E 51-22.0N 002-40.7E 51-25.3N 002-48.7E
	areaAffected	Curve
	geometry	50-40.1N 001-20.9E
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	ALP DEFENDER AT 020200 UTC DEC 2021
	textJustification	Left
	geometry	50-40.1N 001-20.9E
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Point:

- 1) Used cartographic text to bring part two of the warning concerning the location of the tow on to the portrayal of the dataset. Is the the best practice? Potentially add the positional information into the warningInformation.
- 2) How to deal with vicinity while dealing with plotting?

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5 Drifting hazards (including derelict ships, ice, mines, containers, other large items etc.)

Example 1 – Container Adrift

Message element	Example 1 – Container Adrift
1. Message series identifier	NAVAREA I 215/21.
2. General area	CELTIC SEA.
3. Locality	OFF USHANT TSS.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	1. SEVEN CONTAINERS ADRIFT IN VICINITY
6. Geographical position	48-40.00N 005-56.00W AT 250856 UTC NOV 2021.
7. Amplifying remarks	2.CANCEL THIS MSG 280856 UTC NOV 2021.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: CELTIC SEA
	locality	localityIdentifier	
		locationName	language: eng
			text: OFF USHANT TSS
	messageSeriesIdentifier	country: gb nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 215 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20211128T085600Z	
NWPreambleContent	publicationDate	20211125T085600Z	
	navwarnTypeGeneral:	Drifting hazards	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: SEVEN CONTAINERS ADRIFT IN VICINITY AT 250856 UTC NOV 2021. NavwarnTypeDetails: container adrift	
	geometry	48-40.00N 005-56.00W	
	areaAffected	Point	
	restriction		
	text		
TextPlacement (ID02)	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		

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	messageSeriesIdentifier	
--	-------------------------	--

Discussion Points:

- 1) The cancellationDate is manually entered for this drifting hazard as 3 days after issuance.
- 2) Since drifting hazards cancel 72 hrs after issuance, is it still necessary to include the time the hazard was reported within the text field?
 - a. NAV IV/XII – would think this is still necessary in the warningInformation part to give more information. I would think the time added as cartographic text would not be needed.

Example 2 – Derelict Vessel Adrift

Message element	Example 2 – Derelict Vessel Adrift
1. Message series identifier	NAVAREA II 418/21
2. General area	EASTERN NORTH ATLANTIC.
3. Locality	MADEIRA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1.DERELICT SAILING VESSEL ADRIPT IN VICINITY
6. Geographical position	32-46.60N 014-09.10W AT 031423 UTC NOV 2021.
7. Amplifying remarks	2.CANCEL THIS MSG 061423 UTC NOV 2021.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: EASTERN NORTH ATLANTIC
	locality	localityIdentifier	
		locationName	language: eng text: MADEIRA
	messageSeriesIdentifier	country: fr nameOfSeries: NAVAREA II productionAgency: SHOM warningIdentifier: warningNumber: 418 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20211106T142300Z	
	publicationDate	20211103T142300Z	
	navwarnTypeGeneral:	Drifting hazards	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: DERELICT SAILING VESSEL ADRIPT NavwarnTypeDetails: derelict vessel adrift	
	geometry	32-46.60N 014-09.10W	
	areaAffected	Point	
	restriction		
	text	031423 UTC NOV 2021	
TextPlacement (ID02)			

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	textJustification	Right
	geometry	32-46.60 014-09.10W
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Point:

Would the mariner benefit from the time on screen as coded above, this time would not be contained within the warningInformation field, or would this be needed in both.

Example of the GML coding: *Old Example*

This is a representation of the information in the example above replicated in GML encoding. Note that the S124 prefixes found in some of the tags will be removed before 1st edition of S-124. In this case full identifiers has been used to make the example more realistic.

```
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<S124:DataSet xmlns:S124=http://www.iho.int/S124/gml/1.0
  xsi:schemaLocation=http://www.iho.int/S124/gml/1.0 ../schemas/1.0/S124.xsd
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml=http://www.opengis.net/gml/3.2
  xmlns:S100=http://www.iho.int/s100gml/1.0
  xmlns:xlink="http://www.w3.org/1999/xlink" gml:id="NW.FR.SHOM.NAVII.078.14">
  <gml:boundedBy><gml:Envelope srsName="EPSG:4326">
  <gml:lowerCorner>47.5 -6.3</gml:lowerCorner>
  <gml:upperCorner>47.7 -6.5</gml:upperCorner>
  </gml:Envelope></gml:boundedBy>
  <imember>
  <S124:S124_NWPreable gml:id="NW.FR.SHOM.N2.078.14">
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  <warningNumber>78</warningNumber>
  <year>14</year>
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  <language>eng</language>
  <text>SHOM</text>
  </productionAgency>
  <country>FR</country>
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  </generalArea>
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  </S124_affectedChartPublications>
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```

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  </S124:S124_NWPreamble>
</imember>
<member>
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    <geometry>
      <S100:pointProperty>
        <S100:Point gml:id="PT.NW.FR.SHOM.N2.078.14.1" srsName="EPSG:4326">
          <gml:pos>47.61667 -6.433333</gml:pos>
        </S100:Point>
      </S100:pointProperty>
    </geometry>
    <S124_warningHazardType>CONTAINER ADRIFT</S124_warningHazardType>
    <S124_warningInformation>
      <text>SIX CONTAINERS ADRIFT IN VICINITY.</text>
    </S124_warningInformation>
    <header xlink:href="#NW.FR.SHOM.N2.078.14"/>
  </S124:S124_NavigationalWarningPart>
</member>
</S124:DataSet>

```

Commented [ST-EJNUC1]: This is a great example to give to a developer at somepoint, I am just outside of my wheelhouse trying to encode the new performance standard

Example 3 – Fishing Net Adrift

Message element	Example 3 – Fishing Net Adrift
1. Message series identifier	NAVAREA XI 384/21
2. General area	TIMOR SEA.
3. Locality	CHART _____ (INT _____) .
4. Chart number	1.FISHING NET, 50 METRES LONG, ADRIFT
5. Key subject	IN 09-27.60S 131-49.00E AT 230022 UTC NOV 2021.
6. Geographical position	2.CANCEL THIS MSG 260022 UTC NOV 2021.
7. Amplifying remarks	
8. Cancellation details	

NWHPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: TIMOR SEA
	locality	locality/Identifier	
		locationName	language: text:
	messageSeriesIdentifier	country: jp nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 384 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate	20211126T002200Z	
	publicationDate	20211123T002200Z	
	navwarnTypeGeneral:	Drifting hazards	
NWHPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	

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	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: FISHING NET, 50 METRES LONG, ADRIFT AT 23022 UTC NOV 2021. NavwarnTypeDetails: fish net adrift
	geometry areaAffected restriction	09-27.60S 131-49.00E Point
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 4 – Object Adrift

Message element	Example 4 – Object Adrift
1. Message series identifier	NAVAREA IV 1044/21
2. General area	WESTERN CARIBBEAN SEA.
3. Locality	COLOMBIA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. PARTIALLY SUBMERGED RECTANGULAR METALLIC OBJECT
6. Geographical position	ADRIFT IN VICINITY 12-58.31N 078-03.09W
7. Amplifying remarks	AT 190030 UTC NOV 2021.
8. Cancellation details	2. CANCEL THIS MSG 220030 UTC NOV 2021.

NWPreamble (ID00)	generalArea	locality/Identifier locationName	language: eng text: WESTERN CARIBBEAN SEA
	locality	locality/Identifier locationName	language: eng text: COLOMBIA
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: NGA warningIdentifier: warningNumber: 1044 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate	20211122T003000Z	
	publicationDate	20211119T003000Z	
	navwarnTypeGeneral:	Drifting hazards	
	intService:	Y	
	header (role)	ID00	
NWPreambleContent	theWarningPart (role)	ID01	
NAVWARNPart (ID01)	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier:	

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	fixedDateRange	ENCFeatureReference: dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: PARTIALLY SUBERGED RECTANGUAL METALLIC OBJECT ADRIFT AT 190030 UTC NOV 2021. NavwarnTypeDetails: Object Adrift
	geometry	12-58.31N 078-03.09W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 5 – Buoy Adrift

Message element	Example 5 – Buoy Adrift
1. Message series identifier	NAVAREA VIII 709/21.
2. General area	BAY OF BENGAL.
3. Locality	OFF MACHILIPATNAM.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. BUOY ADRIFT IN VICINITY 15-37.90N 082-10.3E
6. Geographical position	ON 042359 UTC MAR 2021.
7. Amplifying remarks	2. CANCEL THIS MSG 072359 UTC MAR 2021.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier locationName	language: eng text: BAY OF BENGAL
	locality	localityIdentifier locationName	language: eng text: OFF MACHILIPATNAM
	messageSeriesIdentifier	country: in nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 709 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate	20210307T235900Z	
	publicationDate	20210304T235900Z	
	navwarnTypeGeneral:	Aids to Navigation	
	intService:	Y	
	NAVWARNPart (ID01)	header (role) theWarningPart (role) featureName featureReference	ID00 ID01 displayName: N language: name: AtoNNumber: featureIdentifier:

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	fixedDateRange	ENCFeatureReference: dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: BUOY ADRIFT ON 042359 UTC MAR 2021. NavwarnTypeDetails: Buoy Adrift
	geometry	15-37.90N 082-10.3E
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Is the publicationDate the date/time of the reported/observed event/hazard or the date/time the system inputs when warning is published?
 - a. Auto populated from the system as its published (Nav IV/XII)
- 2) Buoy Adrift has a soft list mapping to Aids to Navigation, would this change anything since it is coded as a drifting hazard?

Example 6 – Floating Debris

Message element	Example 6 - Floating Debris
1. Message series identifier	NAVAREA VII 93/21
2. General area	WESTERN INDIAN OCEAN.
3. Locality	OFF REUNION.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. WOOD DEBRIS ADRIFT IN 21-10.50S 055-12.33E AT
6. Geographical position	291036 UTC MAR 2021.
7. Amplifying remarks	2. CANCEL THIS MSG 011036 UTC APR 2021.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: WESTERN INDIAN OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: OFF REUNION
	messageSeriesIdentifier	country: za nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 93 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20210401T103600Z	
	publicationDate	20210329T103600Z	
	navwarnTypeGeneral:	Drifting hazard	
NWPreambleContent			

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NAVWARNPart (ID01)	intService:	Y
	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: WOOD DEBRIS ADRIFT AT 291036 UTC MAR 2021. NavwarnTypeDetails: floating debris
	geometry	21-10.50S 055-12.33E
TextPlacement (ID02)	areaAffected	Point
	restriction	
	text	
	textJustification	
	geometry	
References	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 7 – Dead Whale Adrift

Message element	Example 7 – Dead Whale Adrift
1. Message series identifier	NAVAREA IV 05/21
2. General area	NORTHWEST ATLANTIC OCEAN.
3. Locality	SOUTHEASTERN GRAND BANKS OF NEWFOUNDLAND.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. DEAD WHALE, 10 METRES IN LENGTH, REPORTED ADRIFT
6. Geographical position	IN 45-02.60N 048-52.80W AT 032100 UTC AUG 2021.
7. Amplifying remarks	2. CANCEL THIS MSG 042100 UTC AUG 2021.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NORTHWEST ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: SOUTHEASTERN GRAND BANKS OF NEWFOUNDLAND
	messageSeriesIdentifier	country: us nameOfSeries: NAVAREA IV productionAgency: NGA warningIdentifier: warningNumber: 5 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20211004T210000Z	

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	publicationDate	20211001T210000Z
NW PreambleContent	navwarnTypeGeneral:	Drifting hazard
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: DEAD WHALE, 10 METRES IN LENGTH REPORTED ADRIFT AT 032100 UTC AUG 2100. NavwarnTypeDetails: dead whale adrift
	geometry	45-02.60N 048-52.80W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 8 - Mines

Message element	Example 8 – Mines
1. Message series identifier	NAVAREA IX 71/20
2. General area	SOUTHERN RED SEA.
3. Locality	FARASAN BANK.
4. Chart number	1. MINES REPORTED ADRIFT IN AREA BOUND BY
5. Key subject	16-45.6N 042-15.7E, 15-41.5N 042-39.4E,
6. Geographical position	15-54.0N 043-02.3E, 16-58.7N 042-35.1E.
7. Amplifying remarks	2. MARINERS ARE REQUESTED TO NAVIGATE WITH CAUTION
8. Cancellation details	IN THE ABOVE AREA.

NW Preamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTHERN RED SEA
	locality	localityIdentifier	
		locationName	language: eng text: FARASAN BANK
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 71 warningType: (4) NAVAREA navigational warning year: 20	
	affectedChartPublications	chartAffected: internationalChartAffected: INT__	
	title		
	cancellationDate		
	publicationDate	20211001T210000Z	

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NWPreambleContent	navwarnTypeGeneral:	Hazard, other
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: MINES REPORTED ADRIFT. MARINERS ARE REQUESTED TO NAVIGATE WITH CAUTION. NavwarnTypeDetails: mines
	geometry	16-45.6N 042-15.7E 15-41.5N 042-39.4E 15-54.0N 043-02.3E 16-58.7N 042-35.1E
	areaAffected restriction	Composite Curve (Polygon)
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 9 – Pumice Raft

Message element	Example 9 – Pumice Raft
1. Message series identifier	NAVAREA XIV 108/22
2. General area	SOUTH PACIFIC OCEAN.
3. Locality	LAU BASIN.
4. Chart number	
5. Key subject	1. LARGE PUMICE RAFT FROM RECENT VOLCANIC ACTIVITY IN
6. Geographical position	VICINITY 18-56.0S 176-21.0W. 124 MILES WEST OF
7. Amplifying remarks	VAVAU, TONGA AT 262300 UTC AUG 2022. PUMICE RAFT
8. Cancellation details	APPROXIMATELY 70 SQUARE MILES IN SIZE.
	2. CANCEL THIS MSG 292300 UTC AUG 2022.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: SOUTH PACIFIC OCEAN
	locality	locality/Identifier	
		locationName	language: eng text: LAU BASIN
	messageSeriesIdentifier	country: NZ nameOfSeries: NAVAREA XIV productionAgency: MNZ warningIdentifier: warningNumber: 108 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_	
	title		
	cancellationDate		20220829T230000Z

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	publicationDate	20220101T000100Z
NW Preamble Content	navwarnTypeGeneral:	Natural phenomena
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: LARGE PUMICE RAFT FROM RECENT VOLCANIC ACTIVITY. PUMICE RAFT 124 MILES WEST OF VAVAU, TONGA AT 262300 UTC AUG 2022. PUMICE RAFT APPROXIMATELY 70 SQUARE MILES IN SIZE. NavwarnTypeDetails: volcano activity
	geometry	18-56.0S 176-21.0W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) How would this area be dealt with, I assume one would need to calculate the polygon extents of the pumice.

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- 6 Areas where search and rescue (SAR) and anti-pollution operations are being carried out (for avoidance of such areas)

Example 1 – Search and Rescue Operations

Message element	Example 1 – Search and Rescue Operations
1. Message series identifier	NAVAREA XVI 25/22
2. General area	PAITA BAY.
3. Locality	PERU.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	1. SAR OPERATION IN PROGRESS IN AREA BOUND BY
6. Geographical position	05-27.32S 081-44.45W, 05-22.53S 081-27.95W,
7. Amplifying remarks	05-49.57S 081-16.57W, 05-55.43S 081-32.42W.
8. Cancellation details	2. ALL VESSELS NOT UNDER INSTRUCTION OF THE SAR MISSION TO KEEP A WIDE BERTH.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: PAITA BAY
	locality	localityIdentifier	
		locationName	language: eng text: PERU
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 25 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20220101T000100Z	
	navwarnTypeGeneral:	Special operations	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: SAR OPERATION IN PROGRESS. ALL VESSELS NOT UNDER INSTRUCTION OF THE SAR MISSION TO KEEP A WIDE BERTH NavwarnTypeDetails: SAR operation	
	geometry	05-27.32S 081-44.45W 05-22.53S 081-27.95W 05-49.57S 081-16.57W 05-55.43S 081-32.42W	
	areaAffected	Polygon (Surface)	
	restriction		
	text		
TextPlacement (ID02)	textJustification		

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	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 2 – Search and Rescue Exercises

Message element	Example 2 – Search and Rescue Exercises
1. Message series identifier	NAVAREA II 417/21
2. General area	MOROCCO.
3. Locality	OFF CASABLANCA.
4. Chart number	1. SEARCH AND RESCUE EXERCISE IN PROGRESS UNTIL
5. Key subject	041600 UTC NOV 2021 IN AREA BOUND BY
6. Geographical position	33-57.00N 008-03.03W, 34-04.80N 007-47.00W,
7. Amplifying remarks	33-46.50N 007-36.00W, 33-39.00N 007-52.00W.
8. Cancellation details	2. CANCEL THIS MSG 041700 UTC NOV 2021.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: MOROCCO
	locality	localityIdentifier	
		locationName	language: eng
			text: OFF
			CASABLANCA
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: SHOM warningIdentifier: warningNumber: 417 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
NWPreambleContent	cancellationDate	20211104T170000Z	
	publicationDate	20211101T000100Z	
	navwarnTypeGeneral:	Special operations	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd:20211104 dateStart:20211101 timeOfDayEnd:160000Z timeOfDayStart: 000001Z	
	warningInformation	Text: SEARCH AND RESCUE EXERCISES IN PROGRESS UNTIL 041600 UTC NOV 2021 NavwarnTypeDetails: SAR exercise	
	geometry	05-27.32S 081-44.45W 05-22.53S 081-27.95W 05-49.57S 081-16.57W 05-55.43S 081-32.42W	
	areaAffected	Polygon (Surface)	
	restriction		

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TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Is the final DTG needed within warning Information?

Example 3 – Anti-Pollution Operations

Message element	Example 3 – Anti-Pollution Operations
1. Message series identifier	NAVAREA XII 574/22
2. General area	EASTERN NORTH PACIFIC.
3. Locality	1.THE OCEAN CLEANUP SYSTEM OPERATIONS IN PROGRESS
4. Chart number	BY M/V MAERSK TRADER AND M/V MAERSK TENDER
5. Key subject	TOWING 800 METER BARRIER MARKED WITH WHITE
6. Geographical position	LIGHTS AND RADAR REFLECTORS
7. Amplifying remarks	IN 35-14.00N 140-19.00W AT 170815Z AUG 2022.
8. Cancellation details	TWO MILE BERTH REQUESTED. 2.CANCEL NAVAREA XII 570/22.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: EASTERN NORTH PACIFIC
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA XII productionAgency: NGA warningIdentifier: warningNumber: 574 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20221101T000100Z	
	navwarnTypeGeneral:	Special operations	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:	
	warningInformation	Text: THE OCEAN CLEANUP SYSTEM OPERATION IN PROGRESS BY M/V MAERSK TRADER AND M/V MAERSK	

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		TENDER TOWING 800 METER BARRIER MARKED BY WHITE LIGHTS AND RADAR REFLECTORS AT 170815 UTC AUG 2022. TWO MILE BERTH REQUESTED NavwarnTypeDetails: anti pollution operation
	geometry	35-14.00N 140-19.00W
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	Cancellation (1)
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA XII productionAgency: NGA warningIdentifier: warningNumber: 570 warningType: (4) NAVAREA navigational warning year: 22

Discussion Points:

- 1) The way this is written it could also reasonably be considered a towing operation or a working vessel operation as well.
- 2) Is there a way to code the two mile berth as a circular area, would this want to be done?

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- 7 The presence of newly discovered rocks, shoals, reefs and wrecks likely to constitute a danger to shipping, and, if relevant, their marking

Example 1 - Shoal

Message element	Example 1 - Shoal
1. Message series identifier	NAVAREA XVII 83/21
2. General area	CANADIAN ARCTIC.
3. Locality	VICTORIA STRAIT.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	27.8 METRE SHOAL LOCATED IN 68-58.95N 101-08.32W.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: CANADIAN ARTIC
	locality	locality/Identifier	
		locationName	language: eng text: VICTORIA STRAIT
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVII productionAgency: Canadian CG warningIdentifier: warningNumber: 83 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20211101T000100Z	
	navwarnTypeGeneral:	Newly discovered dangers	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: 27.8 METRE SHOAL LOCATED NavwarnTypeDetails: shoal	
	geometry	68-58.95N 101-08.32W	
	areaAffected	POINT	
	restriction		
	text		
TextPlacement (ID02)	textJustification		
	geometry		
	flipBearing		
References	ScaleMinimum		
	noMessageOnHand	N	
	ReferenceCategory		

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	messageSeriesIdentifier	
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Example 2 – Shallow depth reported

Message element	Example 2 – Shallow depth reported
1. Message series identifier	NAVAREA V 372/21
2. General area	NORTH ATLANTIC OCEAN.
3. Locality	OFF SAO SEBASTIAO.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	DEPTHS REPORTED:
6. Geographical position	A. 15 METRES IN 24-00.75S 045-41.75W.
7. Amplifying remarks	B. 15 METRES IN 24-01.50S 045-23.90W.
8. Cancellation details	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	locationName	language: eng
				text: NORTH ATLANTIC OCEAN
	locality	localityIdentifier	locationName	language: eng
				text: OFF SAO SEBASTIAO
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: br warningIdentifier: warningNumber: 372 warningType: (4) NAVAREA navigational warning year: 21		
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____		
	title			
	cancellationDate			
	publicationDate	20211101T000100Z		
	navwarnTypeGeneral:	Newly discovered dangers		
NWPreambleContent	intService:	Y		
NAVWARNPart (ID01)	header (role)	ID00		
	theWarningPart (role)	ID01		
	featureName	displayName: N language: name:		
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:		
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:		
	warningInformation	Text: 15 METER DEPTH REPORTED NavwarnTypeDetails: shallow depth reported		
	geometry	24-00.75S 045-41.75W		
	areaAffected	POINT		
	restriction			
NAVWARNPart (ID02)	header (role)	ID00		
	theWarningPart (role)	ID02		
	featureName	displayName: N language: name:		
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:		
	fixedDateRange	dateEnd: dateStart:		

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		timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: 15 METER DEPTH REPORTED NavwarnTypeDetails: shallow depth reported
	geometry	24-01.50S 045-23.90W.
	areaAffected restriction	POINT
TextPlacement (ID03)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 3 – Uncharted Rock

Message element	Example 3 – Uncharted Rock
1. Message series identifier	NAVAREA X 290/21
2. General area	EASTERN INDIAN OCEAN.
3. Locality	AUSTRALIA-NORTHWEST COAST.
4. Chart number	CHART _____ (INT _____).
5. Key subject	UNCHARTED ROCK REPORTED IN 16-53.06S 122-03.78E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	locality/Identifier locationName	language: eng text: EASTERN INDIAN OCEAN
	locality	locality/Identifier locationName	language: eng text: AUSTRALIA-NORTHWEST COAST
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AMSA warningIdentifier: warningNumber: 290 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
	publicationDate	20211101T000100Z	
	navwarnTypeGeneral:	Newly discovered dangers	
	intService:	Y	
	NAVWARNPart (ID01)	header (role) theWarningPart (role)	ID00 ID01
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	

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	warningInformation	Text: UNCHARTED ROCK REPORTED NavwarnTypeDetails: uncharted rock
	geometry	16-53.06S 122-03.78E
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 4 – Submerged Object

Message element	Example 4 – Submerged Object
1. Message series identifier	NAVAREA XIII 11/21 KARA SEA. ZALIV CHIKHACHYOVA. CHART _____ (INT _____). UNDERWATER OBSTRUCTION LOCATED IN 59-29.25N 140-54.76W.
2. General area	
3. Locality	
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: KARA SEA
	locality	localityIdentifier	
		locationName	language: eng text: ZALIV CHIKHACHYOVA
	messageSeriesIdentifier	country: RU nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: 11 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20211101T000100Z	
	navwarnTypeGeneral:	Newly discovered dangers	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: UNDERWATER OBSTRUCTION LOCATED NavwarnTypeDetails: submerged object	

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	geometry	59-29.25N 140-54.76W
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 5 – Less Water than Charted

Message element	Example 5 – Less Water than Charted
1. Message series identifier	NAVAREA XVI 98/21.
2. General area	PERU.
3. Locality	BAHIA DEL CALLAO.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	LESS WATER THAN CHARTED REPORTED
6. Geographical position	11-59.89S 077-17.50W.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: PERU
	locality	localityIdentifier	
		locationName	language: eng text: BAHIA DEL CALLAO
	messageSeriesIdentifier	country: pe nameOfSeries: NAVAREA XVI productionAgency: pe warningIdentifier: warningNumber: 98 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
	publicationDate	20211101T000100Z	
	navwarnTypeGeneral:	Natural phenomena	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: LESS WATER THAN CHARTED REPORTED NavwarnTypeDetails: low water level	
	geometry	11-59.89S 077-17.50W	
	areaAffected	POINT	
	restriction		

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Discussion Points:

- 1) Is less water than charted low water level. This example seems to have category challenges?

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8 Unexpected alteration or suspension of established routes

Example 1 – TSS Closure

Message element	Example 1 – TSS Closure
1. Message series identifier	NAVAREA XIX 15/22
2. General area	BARENTS SEA
3. Locality	1. DUE TO ROCKET LAUNCHING THE USE OF THE
4. Chart number	FOLLOWING TRAFFIC SEPARATION SCHEME AND
5. Key subject	RECOMMENDED ROUTE ARE TEMPORARILY SUSPENDED
6. Geographical position	FROM 191400 TO 221400 UTC FEB 2022:
7. Amplifying remarks	A. TSS OFF VARDOE AND TSS OFF SLETTNES
8. Cancellation details	B. RECOMMENDED ROUTE BETWEEN TSS OFF VARDOE AND TSS OFF SLETTNES 2. CANCEL NAVAREA XIX 14/22 3. CANCEL THIS MESSAGE 221400 UTC FEB 2022

NWFPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: BARENTS SEA
	locality	localityIdentifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: NO nameOfSeries: NAVAREA XIX productionAgency: NO warningIdentifier: warningNumber: 15 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20220222T140000Z	
NWFPreambleContent	publicationDate	20220217T000100Z	
	navwarnTypeGeneral:	Routing Information	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: 20220222 dateStart: 20220219 timeOfDayEnd: 140000Z timeOfDayStart: 140000Z	
	warningInformation	Text: DUE TO ROCKET LAUNCHING THE USES OF THE FOLLOWING TRAFFIC SEPERATION SCHEME AND RECOMMEND ROUTE ARE TEMPORARILY SUSPENDED: A. TSS OFF CARDOE AND TSS OFF SLETTNES B. RECOMMENDED ROUTE BETWEEN TSS OFF CARDOE AND TSS OFF SLETTNES NavwarnTypeDetails: WATERWAY RECOMMENDED/NOT RECOMMENDED FOR SHIPPING	
	geometry		
	areaAffected		

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	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	country: NO nameOfSeries: NAVAREA XIX productionAgency: NO warningIdentifier: warningNumber: 14 warningType: (4) NAVAREA navigational warning year: 22

Discussion Points:

- 1) As this is written, it's impossible to be effectively encoded under S-124 standards. The TSS would have to be given a position or somehow associate the TSS feature from the proper S-100 dataset to properly display such a large area.

Example 2 – Compulsory Pilotage

Message element	Example 2 – Compulsory Pilotage
1. Message series identifier	NAVAREA X 234/22
2. General area	AUSTRALIA NORTH COAST. TORRES STRAIT.
3. Locality	CHART _____ (INT _____).
4. Chart number	COMPULSORY TORRES STRAIT PILOTAGE 10-32S 143-01E.
5. Key subject	MASTERS OF SHIPS 70 METRES IN LENGTH OVERALL OR GREATER, AND ALL LOADED OIL, CHEMICAL TANKERS OR LIQUEFIED GAS CARRIERS ARE ADVISED THAT AUSTRALIAN LAW HAS BEEN AMENDED TO REQUIRE A LICENSED PILOT TO BE ENGAGED WHEN NAVIGATING THE TORRES STRAIT. ALL SHIPS WILL BE AUTOMATICALLY CHECKED FOR COMPLIANCE AND THE FAILURE TO EMBARK A LICENSED PILOT MAY RESULT IN PROSECUTION. MASTERS OF SHIPS SHOULD ENSURE CONTACT IS MADE IN A TIMELY MANNER WITH A PILOTAGE PROVIDER TO GUARANTEE A LICENSED PILOT IS BOOKED. THE FOLLOWING ARE THE CONTACT DETAILS OF THE TWO COMPANIES THAT CAN PROVIDE LICENSED PILOTS: AUSTRALIAN REEF PILOTS PTY LTD. – OPERATIONS@REEFPILOTS.COM.AU. TORRES PILOTS PTY LTD - OPERATIONS@TORRESPILOTS.COM.AU.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: AUSTRALIA NORTH COAS
	locality	localityIdentifier	
		locationName	language: eng text: TORRES STRAIT
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber: 234 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	

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	title	
	cancellationDate	
	publicationDate	20220217T000100Z
NW Preamble Content	navwarnTypeGeneral:	Routing Information
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	text: COMPULSORY TORRES STRAIT PILOTAGE. MASTERS OF SHIPS 70 METRES IN LENGTH OVERALL OR GREATER, AND ALL LOADED OIL, CHEMICAL TANKERS OR LIQUEFIED GAS CARRIERS ARE ADVISED THAT AUSTRALIAN LAW HAS BEEN AMENDED TO REQUIRE A LICENSED PILOT TO BE ENGAGED WHEN NAVIGATING THE TORRES STRAIT. ALL SHIPS WILL BE AUTOMATICALLY CHECKED FOR COMPLIANCE AND THE FAILURE TO EMBARK A LICENSED PILOT MAY RESULT IN PROSECUTION. MASTERS OF SHIPS SHOULD ENSURE CONTACT IS MADE IN A TIMELY MANNER WITH A PILOTAGE PROVIDER TO GUARANTEE A LICENSED PILOT IS BOOKED. THE FOLLOWING ARE THE CONTACT DETAILS OF THE TWO COMPANIES THAT CAN PROVIDE LICENSED PILOTS: AUSTRALIAN REEF PILOTS PTY LTD. – OPERATIONS@REEFPILOTS.COM.AU . TORRES PILOTS PTY LTD - OPERATIONS@TORRESPILOTS.COM.AU . NavwarnTypeDetails: REGULATION
	geometry	POINT
	areaAffected	10-32S 143-01
	restriction	
	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) As this is written, there's really no possible changes to the actual text area.
- 2) The NW symbol would plot this NW at the provided point geometry only.
- 3) The option "regulation" for warningHazardTypedetails has been used.

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Example 3 – Temporary Traffic Lanes

Message element	Example 3 – Temporary Traffic Lanes
1. Message series identifier	NAVAREA V 206/22
2. General area	BRAZIL - SOUTH COAST.
3. Locality	CHART _____ (INT _____).
4. Chart number	1. NAVAL CONTROL EXERCISE 091900 UTC TO 130300 UTC
5. Key subject	NOV 2022 IN AREA BOUNDED BY:
6. Geographical position	31-33.00S 051-14.50W, 32-17.50S 050-07.00W,
7. Amplifying remarks	33-51.00S 051-33.50W, 33-07.00S 052-38.00W.
8. Cancellation details	A. MERCHANT SHIPS SHOULD CROSS MARITIME AREA USING THE FOLLOWING LANES: i) LANE COASTAL-1: (DIRECTION NE-SW) 32-00.00S 050-50.00W AND 33-20.00S 052-03.00W. ii) LANE COASTAL-2: (NC2-PORT RIO GRANDE) 32-38.00S 051-25.00W AND 32-15.00S 051-58.00W. B. WIDTH OF LANE IS SIX NAUTICAL MILES, THREE NAUTICAL MILES ON EACH SIDE OF THE TRACKLINE JOINING: i) NC1: 32-00.00S 050-50.00W. ii) NC2: 32-38.00S 051-25.00W. iii) NC3: 33-20.00S 052-03.00W. C. ACCESS AND DEPART RIO GRANDE PORT FROM: 32-15.00S 051-58.00W. D. ACCORDING TO ENTERING POSITION, MERCHANT SHIPS IN THE AREA SHOULD CALL LANE CONTROLLER SHIPS BY VHF CHANNELS 16 AND 10, USING THE FOLLOWING: i) NC1 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY NORTHEAST OF AREA. ii) NC2 CONTROLLER OF MERCHANT SHIPS REQUESTING AND LEAVING FROM POINT OF ACCESS AND DEPART OF RIO GRANDE PORT. iii) NC3 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY SOUTHWEST OF AREA. 2. CANCEL THIS MSG 130400 UTC NOV 2022.

NWPreamble (ID00)	generalArea	locality/Identifier	language: eng
		locationName	text: BRAZIL – SOUTH COAST
	locality	locality/Identifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 206 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate	20221113T040000Z	
	publicationDate	20221109T000100Z	
NWPreambleContent	navwarnTypeGeneral:	Routing Information	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	

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	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: 20221109 dateStart: 20221113 timeOfDayEnd: 190000Z timeOfDayStart: 030000Z
	warningInformation	text: NAVAL CONTROL EXERCISE ACCORDING TO ENTERING POSITION, MERCHANT SHIPS IN THE AREA SHOULD CALL LANE CONTROLLER SHIPS BY VHF CHANNELS 16 AND 10, USING THE FOLLOWING: i) NC1 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY NORTHEAST OF AREA. ii) NC2 CONTROLLER OF MERCHANT SHIPS REQUESTING AND LEAVING FROM POINT OF ACCESS AND DEPART OF RIO GRANDE PORT. iii) NC3 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY SOUTHWEST OF AREA. ACCESS AND DEPART RIO GRANDE PORT FROM: 32-15.00S 051-58.00W NavwarnTypeDetails: WATERWAY RECOMMENDED/NOT RECOMMENDED FOR SHIPPING
	geometry	POLYGON
	areaAffected	31-33.00S 051-14.50W, 32-17.50S 050-07.00W, 33-51.00S 051-33.50W, 33-07.00S 052-38.00W.
TextPlacement (ID02)	restriction	(8) entry restricted
	text	NC1
	textJustification	RIGHT
	geometry	32-00.00S 050-50.00W
	flipBearing	
TextPlacement (ID03)	ScaleMinimum	
	text	NC2
	textJustification	RIGHT
	geometry	32-38.00S 051-25.00W
	flipBearing	
TextPlacement (ID04)	ScaleMinimum	
	text	NC3
	textJustification	RIGHT
	geometry	33-20.00S 052-03.00W
	flipBearing	
TextPlacement (ID05)	ScaleMinimum	
	text	ACCESS AND DEPEART RIO GRANDE PORT
	textJustification	RIGHT
	geometry	32-15.00S 051-58.00W
	flipBearing	
NAVWARNPart (ID06)	ScaleMinimum	
	header (role)	ID00
	theWarningPart (role)	ID06
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier:

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		ENCFeatureReference:
	fixedDateRange	dateEnd: 20221109 dateStart: 20221113 timeofDayEnd: 190000Z timeofDayStart: 030000Z
	warningInformation	text: A. MERCHANT SHIPS SHOULD CROSS MARITIME AREA USING THE FOLLOWING LANES: i) LANE COASTAL-1: (DIRECTION NE-SW) 32-00.00S 050-50.00W AND 33-20.00S 052-03.00W. ii) LANE COASTAL-2: (NC2-PORT RIO GRANDE) 32-38.00S 051-25.00W AND 32-15.00S 051-58.00W. B. WIDTH OF LANE IS SIX NAUTICAL MILES, THREE NAUTICAL MILES ON EACH SIDE OF THE TRACKLINE JOINING: i) NC1: 32-00.00S 050-50.00W. ii) NC2: 32-38.00S 051-25.00W. iii) NC3: 33-20.00S 052-03.00W. C. ACCESS AND DEPART RIO GRANDE PORT FROM: 32-15.00S 051-58.00W. NavwarnTypeDetails: WATERWAY RECOMMENDED/NOT RECOMMENDED FOR SHIPPING
	geometry	CURVE
	areaAffected	(polygon1) THREE NAUTICAL MILES ON EACH SIDE OF curve between 32-00.00S 050-50.00W AND 33-20.00S 052-03.00W (polygon2) THREE NAUTICAL MILES ON EACH SIDE OF curve between 32-38.00S 051-25.00W AND 32-15.00S 051-58.00W.
	restriction	(8) entry restricted
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In this example we've demonstrated how complex S-124 coding can become.
- 2) WWNWS-SC may need to re-assess how the to manage such complex NAVAREA warnings usig S-124 coding. That is, how much information should one navigational warning message contain? Is it more effective/efficient to separate content for ease of understanding?

Example 5 – Port Closure

Message element	Example 5 – Port Closure
1. Message series identifier	NAVAREA IV 785/21
2. General area	DUE TO PASSAGE OF HURRICANE IDA:
3. Locality	1. THE FOLLOWING PORT(S) ARE CLOSED:
4. Chart number	A. PORT OF BATON ROUGE 30-27N 091-11W.
5. Key subject	B. PORT OF NEW ORLEANS 29-57N 090-03W.
6. Geographical position	2. THE FOLLOWING PORT(S) ARE OPEN WITH RESTRICTIONS:
7. Amplifying remarks	A. PASCAGOULA 30-21N 088-34W.
8. Cancellation details	B. PENSACOLA 30-24N 087-13W.
	3. THE FOLLOWING PORT(S) HAVE RE-OPENED:
	A. MOBILE 30-41N 088-07W.
	4. CURRENT PORT INFORMATION CAN BE FOUND AT HOMEPOR.T.USCG.MIL USING TH-E PORT DIRECTORY TAB.
	5. CANCEL NAVAREA IV 780/21.

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NW Preamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng
			text:
	locality	locality/Identifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: NGA warningIdentifier: warningNumber: 785 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
NW PreambleContent	publicationDate	20210101T000000Z	
	navwarnTypeGeneral:	Routing Information	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: DUE TO PASSAGE OF HURRICAN IDA THE FOLLOWING PORTS ARE CLOSED. CURRENT PORT INFORMATION CAN BE FOUN D AT HOMEPORT.USCG.MIL USING THE PORT DIRECTORY TAB. NavwarnTypeDetails: open/close harbour	
	geometry	30-27 091-11W	
	areaAffected	Point	
	geometry	29-57 09-03W	
	areaAffected	Point	
	restriction	(8) entry restricted	
TextPlacement (ID02)	text	Baton Rouge	
	textJustification	right	
	geometry	30-27 091-11W	
	flipBearing		
	ScaleMinimum		
TextPlacement (ID03)	text	New Orleans	
	textJustification	right	
	geometry	29-57N 090-03W	
	flipBearing		
	ScaleMinimum		
NAVWARNPart (ID04)	header (role)	ID00	
	theWarningPart (role)	ID04	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	

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	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: DUE TO PASSAGE OF HURRICAN IDA THE FOLLOWING PORTS ARE OPEN WITH RESTRICTIONS. CURRENT PORT INFORMATION CAN BE FOUND AT HOMEPORT.USCG.MIL USING THE PORT DIRECTORY TAB. NavwarnTypeDetails: open/close harbour
	geometry	30-21N 088-34W
	areaAffected	Point
	geometry	30-24N 087-13W
	areaAffected	Point
	restriction	(8) entry restricted
TextPlacement (ID05)	text	PASCAGOULA
	textJustification	right
	geometry	30-21N 088-34W
	flipBearing	
	ScaleMinimum	
TextPlacement (ID06)	text	PENSACOLA
	textJustification	right
	geometry	29-57N 090-03W
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID07)	header (role)	ID00
	theWarningPart (role)	ID07
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: DUE TO PASSAGE OF HURRICAN IDA THE FOLLOWING PORTS HAVE RE-OPENED NavwarnTypeDetails: open/close harbour
	geometry	30-41N 088-07W
	restriction	(8) entry restricted
	text	MOBILE
TextPlacement (ID08)	textJustification	right
	geometry	30-41N 088-07W
	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
References	ReferenceCategory	
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: NGA warningIdentifier: warningNumber: 780 warningType: (4) NAVAREA navigational warning year: 21

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- 9 Cable or pipe-laying activities, seismic survey, the towing of large submerged objects for research or exploration purposes, the employment of manned or unmanned submersibles, or other underwater operations constituting potential dangers in or near shipping lanes

Example 1 – Hydrographic Survey

Message element	Example 1 – Hydrographic Survey
1. Message series identifier	NAVAREA III 821/21
2. General area	EASTERN MEDITERRANEAN SEA.
3. Locality	CYPRUS.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. HYDROGRAPHIC SURVEY IN PROGRESS UNTIL
6. Geographical position	170001 UTC NOV 2021
7. Amplifying remarks	BY M/V NAUTICAL GEO IN AREA BOUND BY
8. Cancellation details	34-18.65N 033-08.00E, 34-24.23N 032-20.74E, 34-20.11N 032-20.63E, 34-13.36N 033-07.27E. WIDE BERTH REQUESTED.
	2. CANCEL THIS MSG 1701001 UTC NOV 2021.

NWPPreamble (ID00)	generalArea	locality/Identifier	language: eng
		locationName	text: EASTERN MEDITERRANEAN SEA
	locality	locality/Identifier	
		locationName	language: eng
			text: CYPRUS
	messageSeriesIdentifier	country: ES nameOfSeries: NAVAREA III productionAgency: ES warningIdentifier: warningNumber: 821 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20211117T0100100Z	
	publicationDate	20211112T000100Z	
NWPPreambleContent	navwarnTypeGeneral:	Special operations	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: HYDROGRAPHIC SURVEY IN PROGRESS BY M/V NAUTICAL GEO. WIDE BERTH REQUESTED NavwarnTypeDetails: hydrographic survey	
	geometry	34-18.64N 033-08.00E	

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		34-24.23N 032-20.74E 34-20.11N 032-20.63E 34-13.36N 033-07.27E
	areaAffected restriction	Curve (polygon)
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Wide berth around a moving object, like a ship, can only be captured in text. In this case I kept the text within the warning part as apposed to cartographic text.

Example 2 – Scientific Survey

Message element	Example 2 – Scientific Survey
1. Message series identifier	NAVAREA XV 95/21
2. General area	EASTERN SOUTH PACIFIC.
3. Locality	CHILE
4. Chart number	CHART _____ (INT _____) .
5. Key subject	
6. Geographical position	1. SCIENTIFIC OPERATIONS BY M/V ABATE MOLINA FROM 090345 UTC MAY 2021 TO 07000 UTC JUN 2021
7. Amplifying remarks	IN AREA BOUND BY 32-10.00S 071-41.00W, 38-02.00S 074-05.00W, 40-20.00S 074-40.00W, 40-20.00S 073-47.00W. WIDE BERTH REQUESTED.
8. Cancellation details	2. CANCEL THIS MSG 070100 UTC JUN 2021.

NWPreamble (ID00)	generalArea	localityIdentifier locationName	language: eng text: EASTERN SOUTH PACIFIC
	locality	localityIdentifier locationName	language: eng text: CHILE
	messageSeriesIdentifier	country: CL nameOfSeries: NAVAREA XV productionAgency: SHOA warningIdentifier: warningNumber: 95 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT__	
	title		
	cancellationDate	20210607T010000Z	
	publicationDate	20210601T000100Z	
	navwarnTypeGeneral:	Special operations	
	intService:	Y	
	NAVWARNPart (ID01)	header (role) theWarningPart (role)	ID00 ID01
NWPreambleContent	featureName	displayName: N language: name:	
	featureReference	AtoNNumber:	

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		featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: SCIENTIFIC OPERATIONS BY M/V ABATE MOLINA. WIDE BERTH REQUESTED NavwarnTypeDetails: scientific survey
	geometry	32-10.00S 071-41.00W 38-02.00S 074-05.00W 40-20.00S 074-40.00W 40-20.00S 073-47.00W
	areaAffected restriction	Curve (polygon)
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 3 – Seismic Survey

Message element	Example 3 – Seismic Survey
1. Message series identifier	NAVAREA XIII 43/21
2. General area	SEA OF OKHOTSK.
3. Locality	CHART _____ (INT _____)
4. Chart number	1. SEISMIC SURVEY OPERATIONS IN PROGRESS
5. Key subject	UNTIL 310001 UTC AUG 2021 BY M/V VYACHESLAV
6. Geographical position	TIKHONOV AND M/V PX GEO TOWING 4050 METER LONG
7. Amplifying remarks	CABLES IN AREA BOUND BY
8. Cancellation details	52-46.56N 143-22.21E, 52-45.73N 143-57.85E, 52-02.62N 143-54.99E, 52-03.61N 143-11.28E. FOUR MILE BERTH REQUESTED. 2. CANCEL THIS MSG 3101001 UTC AUG 2021.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SEA OF OKHOTSK
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: ru nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: 43 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20210831T0100100Z	
	publicationDate	20210828T000100Z	
	navwarnTypeGeneral:	Special operations	
	intService:	Y	
	NAVWARNPart (ID01)	header (role)	ID00
		theWarningPart (role)	ID01
		featureName	displayName: N

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		language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: SEISMIC SURVEY OPERATIONS IN PROGRESS UNTIL 310001 UTC AUG BY M/V VYACHESLAV TIKHONOV AND M/V PX GEO TOWING 4050 METRE LONG CABLES. FOUR MILE BERTH REQUESTED. NavwarnTypeDetails: seismic survey
	geometry	52-46.56N 143-22.21E 52-45.73N 143-57.85E 52-02.62N 143-54.99E 52-03.61N 143-11.28E
	areaAffected restriction	Curve (polygon)
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Would “four mile berth requested” be kept within the msg, or perhaps cartographic text. Next gen standards could a four mile polygon around an AIS feed?

Example 4 – Dredging Operations

Message element	Example 4 – Dredging Operations
1. Message series identifier	NAVAREA XVIII 42/21
2. General area	HUSON BAY.
3. Locality	CANADA.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	DREDGING OPERATIONS 1100 UTC TO 2300 UTC DAILY 18
6. Geographical position	AUG 2021 UNTIL FURTHER NOTICE BY TUGS POINCIANA
7. Amplifying remarks	AND MANUELS RIVER IN VICINITY 47-12.96N 061-59.09W.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier locationName	language: eng text: HUDSON BAY
	locality	localityIdentifier locationName	language: eng text: CANADA
	messageSeriesIdentifier	country: ca nameOfSeries: NAVAREA XVIII productionAgency: CA warningIdentifier: warningNumber: 42 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		

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	cancellationDate	
	publicationDate	20210817T000100Z
NWPPreambleContent	navwarnTypeGeneral:	Works
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: DREDGING OPERATION 100 UTC TO 2300 UTC DAILY UNTIL FURTHER NOTICE BY TUGS POINCIANA AND MANUELS RIVER NavwarnTypeDetails: dredging operation
	geometry	47-12.96N 061-59.09W
	areaAffected	Curve (polygon)
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 5 – Pipe Laying Operations

Message element	Example 5 – Pipe laying operations
1. Message series identifier	NAVAREA III 795/21
2. General area	MEDITERRANEAN SEA.
3. Locality	TUNISIA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. PIPELAYING OPERATIONS IN PROGRESS UNTIL 130001 UTC FEB 2022 BY M/V IEVOLI IVORI IN AREA BOUND BY 37-01.01N 011-04.22E, 37-12.80N 011-15.51E, 37-12.80N 011-15.10E, 37-25.47N 011-42.71E. ONE MILE BERTH REQUESTED.
6. Geographical position	2. CANCEL THIS MSG 130001 UTC FEB 2022.
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: MEDITERRANEAN SEA
	locality	localityIdentifier	
		locationName	language: eng text: TUNISIA
	messageSeriesIdentifier	country: ES	
		nameOfSeries: NAVAREA XVIII	
		productionAgency: ES	
	affectedChartPublications	warningIdentifier:	
		warningNumber: 795	
		warningType: (4) NAVAREA navigational warning	
	title	year: 21	
		chartAffected:	
		internationalChartAffected: INT _____	

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	cancellationDate	20220213T000100Z
	publicationDate	20210817T000100Z
NWPPreambleContent	navwarnTypeGeneral:	Works
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: PIPELAYING OPERATIONS IN PROGRESS BY M/V IEVOLI IVORI UNTIL 13001 UTC FEB 2022. ONE MILE BERTH REQUESTED NavwarnTypeDetails: PIPE LAYING OPERATION
	geometry	37-01.01N 011-04.22E 37-12.80N 011-15.51E 37-12.80N 011-15.10E 37-25.47N 011-42.71E
	areaAffected	Curve (polygon)
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

1. HOW CAN WE HAVE AN EVENT END WITHOUT AN EVENT START TIME?

Example 6 – Unmanned Operations

Message element	Example 6 – Unmanned operations
1. Message series identifier	NAVAREA IV 1123/21
2. General area	NORTH ATLANTIC OCEAN.
3. Locality	1. UNMANNED ATLANTIC CROSSING BY FOUR METRE
4. Chart number	M/V MAHI TWO IN VICINITY OF LINE JOINING
5. Key subject	19-38.30N 035-00.00W, 18-50.01N 036-36.39W,
6. Geographical position	17-24.81N 044-29.68W, 17-04.67N 051-21.64W,
7. Amplifying remarks	16-23.00N 059-04.41W.
8. Cancellation details	2. FOR THE MOST CURRENT POSITION OF M/V MAHI TWO, GO TO PROJECTMAHI.DATYLO.COM

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NORTH ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: US	
		nameOfSeries: NAVAREA IV productionAgency: NGA	

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		warningIdentifier: warningNumber: 1123 warningType: (4) NAVAREA navigational warning year: 21
	affectedChartPublications	chartAffected: internationalChartAffected: INT
	title	
	cancellationDate	
	publicationDate	20210817T000100Z
NWPPreambleContent	navwarnTypeGeneral:	Hazard, other
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: UNMANNED ATLANTIC CROSSING BY FOUR METRE M/V MAHI TWO. FOR MOST CURRENT POSTION OF M/V MAHI TWO GO TO PROJECTMAHI.DATYLO.COM NavwarnTypeDetails:
	geometry	19-38.30N 035-00.00W 18-50.01N 036-36.39W 17-24.81N 044-29.68W 17-04.67N 051-21.64W 16-23.00N 059-04.41W
	areaAffected restriction	Curve (polyline)
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 7 – Cable Laying Operations

Message element	Example 7 – Cable Laying Operations
1. Message series identifier	NAVAREA I 193/21
2. General area	WESTERN APPROACHES TO THE ENGLISH CHANNEL.
3. Locality	CHART _____ (INT _____).
4. Chart number	CABLE LAYING OPERATIONS IN PROGRESS BY M/V ILE DE.
5. Key subject	BREHAT IN VICINITY OF LINES JOINING:
6. Geographical position	A. 49-00.80N 007-55.60W, 49-02.20N 007-53.90W.
7. Amplifying remarks	B. 49-05.10N 007-52.40W, 49-06.00N 007-52.60W.
8. Cancellation details	

NWPPreamble (ID00)	generalArea	locality/Identifier	language: eng
		locationName	text: WESTERN APPROACHES TO THE ENGLISH CHANNEL
	locality	locality/Identifier	

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		locationName	language: eng
			text:
	messageSeriesIdentifier	country: UK nameOfSeries: NAVAREA I productionAgency: UK warningIdentifier: warningNumber: 193 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20210817T000100Z	
NWPreambleContent	navwarnTypeGeneral:	Works	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: CABLE LAYING OPERATION IN PROGRESS BY M/V ILE DE BREHAT NavwarnTypeDetails: CABLE LAYING OPERATION	
	geometry	49-00.80N 007-55.60W 49-02.20N 007-53.90W	
	areaAffected	Curve (polyline)	
	geometry	49-05.10N 007-52.40W 49-06.00N 007-52.60W	
	areaAffected	Curve (polyline)	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

Example 7 – Ship to Ship Operations

Message element	Example 8 – Ship to Ship Operations
1. Message series identifier	NAVAREA IV 20/22
2. General area	WESTERN SOUTH ATLANTIC.
3. Locality	EAST OF PARANAGUA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. SHIP TO SHIP OPERATIONS 290900 UTC DEC 2021 TO
6. Geographical position	010900 UTC JAN 2022 BETWEEN M/V LENA KNUTSEN AND
7. Amplifying remarks	M/V SAVEIROS IN 10-02.28N 060-15.08W.
8. Cancellation details	2. CANCEL THIS MESSAGE 011000 UTC JAN 2022.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: WESTERN SOUTH ATLANTIC

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	locality	localityIdentifier	
		locationName	language: eng
			text: EAST OF PARANAGUA
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 20 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20220101T100000Z	
NWPreambleContent	publicationDate	20211225T000100Z	
	navwarnTypeGeneral:	Hazard, other	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd:20220101 dateStart:20211229 timeOfDayEnd:090000Z timeOfDayStart: 090000Z	
	warningInformation	Text: SHIP TO SHIP OPERATIONS BETWEEN M/V LENA KNUTSEN AND M/V SAVEIROS NavwarnTypeDetails:	
	geometry	10-02.28N 060-15.08W	
	areaAffected	point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

Example 9 – Diving Operations

Message element	Example 8 – Diving operations
1. Message series identifier	NAVAREA V 20/22
2. General area	WESTERN SOUTH ATLANTIC.
3. Locality	EAST OF PONTA DO UBU.
4. Chart number	CHART_____ (INT _____) .
5. Key subject	1.DIVING OPERATIONS IN PROGRESS 1100 UTC TO 2100
6. Geographical position	UTC DAILY 23 TO 26 OCT 2022 IN 20-50.33S 040-03.52W.
7. Amplifying remarks	2.CANCEL THIS MESSAGE 262200 UTC OCT 2022.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
	locality		text: WESTERN SOUTH ATLANTIC
		locationName	language: eng

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			text: EAST OF PONTA DO UBU
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 20 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT____	
	title		
	cancellationDate	20221026T220000Z	
	publicationDate	20221017T000100Z	
NWPPreambleContent	navwarnTypeGeneral:	Works	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd:20221026 dateStart:20221023 timeofDayEnd:210000Z timeofDayStart: 110000Z	
	warningInformation	Text: DIVING OPERATIONS IN PROGRESS 1100 UTC TO 2100 UTC DAILY NavwarnTypeDetails: DIVING OPERATIONS	
	geometry	20-50.33S 040-03.52W	
	areaAffected	point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

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10 The establishment of research or scientific instruments in or near shipping lanes

Example 1 – Scientific Mooring

Message element	Example 1 – Scientific Mooring
1. Message series identifier	NAVAREA II 251/22
2. General area	BAY OF BISCAY.
3. Locality	SPAIN.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	1. SCIENTIFIC MOORINGS ESTABLISHED UNTIL 010001 UTC MAR
6. Geographical position	2022 BY M/V ATALANTE IN:
7. Amplifying remarks	A. 46-06.00N 006-47.00W.
8. Cancellation details	B. 44-10.00N 002-10.00W.
	2. CANCEL THIS MSG 010100 UTC MAR 2022.

NWPPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng
			text: BAY OF BISCAY
	locality	locality/Identifier	
		locationName	language: eng
			text: SPAIN
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 251 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20220301T010000Z	
NWPPreambleContent	publicationDate	20220117T000100Z	
	navwarnTypeGeneral:	Scientific Instruments	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: SCIENTIFIC MOORING ESTABLISHED UNTIL 01001 UTC MAR BY M/V ATALANTE NavwarnTypeDetails: Scientific Mooring	
	geometry	46-06.00N 006-47.00W	
	areaAffected	Point	
	geometry	44-10.00N 002-10.00W	
	areaAffected	point	
	restriction		
TextPlacement (ID02)	text		

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	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 2 – Tide Gauge

Message element	Example 2 – Tide Gauge
1. Message series identifier	NAVAREA X 180/21
2. General area	ARAFURA SEA.
3. Locality	AUSTRALIA-NORTH COAST.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	TIDE GAUGE IN 10-31.30S 141-12.70E UNRELIABLE.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ARAFURA SEA
	locality	localityIdentifier	
		locationName	language: eng text: AUSTRALIA-NORTH COAST
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber: 180 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
	publicationDate	20210117T000100Z	
	navwarnTypeGeneral:	Scientific Instruments	
NWPPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: TIDE GAUGE UNRELIABLE NavwarnTypeDetails: Tide Gauge	
	geometry	10-31.30S 141-12.70E	
	areaAffected	Point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		

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References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 3 – Scientific Buoy

Message element	Example 3
1. Message series identifier	NAVAREA IV 333/21
2. General area	NORTH ATLANTIC OCEAN.
3. Locality	GRAND BANKS OF NEWFOUNDLAND.
4. Chart number	CHART_____(INT _____).
5. Key subject	DART BUOY ESTABLISHED 44-04.58N 055-12.80W.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: NORTH ATLANTIC OCEAN
	locality	locality/Identifier	
		locationName	language: eng text: GRAND BANKS OF NEWFOUNDLAND
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 333 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20210117T000100Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: DART BUOY ESTABLISHED NavwarnTypeDetails: buoy establishment	
	geometry	44-04.58N 055-12.80W	
	areaAffected	Point	
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

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Example 4 – Acoustic Recorder

Message element	Example 4 – Acoustic Recorder
1. Message series identifier	NAVAREA XVII 55/19
2. General area	IONIAN SEA.
3. Locality	CENTRAL.
4. Chart number	CHART _____ (INT _____) .
5. Key subject	1. ACOUSTIC SEABED INSTRUMENTS DEPLOYED FROM 231500 UTC
6. Geographical position	TO 242000 UTC MAR 2019 IN:
7. Amplifying remarks	A. 44-41.46N 063-37.71W.
8. Cancellation details	B. 44-41.46N 063-38.38W.
	C. 44-41.32N 063-38.04W.
	2. CANCEL THIS MSG 242100 MAR 2019.

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: IONIAN SEA
	locality	localityIdentifier	
		locationName	language: eng
			text: CENTRAL
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVII productionAgency: CA warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 19	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20190324T210000Z	
	publicationDate	20190317T000100Z	
NWPreableContent	navwarnTypeGeneral:	Scientific Instruments	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: 20190324 DateStart: 20190323 timeOfDayEnd: 200000Z timeOfDayStart: 150000Z	
	warningInformation	Text: ACOUSTIC SEABED INSTRUMENTS DELOYED FROM 231500 UTC TO 24200 UTC MAR 2019 NavwarnTypeDetails: Acoustic Recorder	
	geometry	44-41.46N 063-37.71W	
	areaAffected	Point	
	geometry	44-41.46N 063-38.38W	
	areaAffected	Point	
	geometry	44-41.32N 063-38.040W	
	areaAffected	Point	
	restriction		
	TextPlacement (ID02)	text	
		textJustification	
		geometry	
		flipBearing	
		ScaleMinimum	
References	noMessageOnHand	N	

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	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Would central need to be included with Ionian Sea?
- 2) Would the timeframe of the even need to be included within the text of the warning or could the field of date and time start and stop be displayable?

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11 The establishment of offshore structures in or near shipping lanes

Example 1 – Drill Rig on Location

Message element	Example 1 – Drill Rig on Location
1. Message series identifier	NAVAREA X 5/21
2. General area	INDIAN OCEAN.
3. Locality	AUSTRALIA-NORTHWEST COAST.
4. Chart number	CHART _____ (INT _____).
5. Key subject	DRILL RIG VALARIS MS-1 IN 20-57.27S 114-52.10E.
6. Geographical position	2.5 MILES CLEARANCE REQUESTED.
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	locationName	language: eng text: INDIAN OCEAN
	locality	localityIdentifier	locationName	language: eng text: AUSTRALIA-NORTHWEST COAST
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AMSA warningIdentifier: warningNumber: 5 warningType: (4) NAVAREA navigational warning year: 21		
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____		
	title			
	cancellationDate			
	publicationDate	20210317T000100Z		
	navwarnTypeGeneral:	Offshore Structures		
	intService:	Y		
	header (role)	ID00		
NAVWARNPart (ID01)	theWarningPart (role)	ID01		
	featureName	displayName: N language: name:		
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:		
	fixedDateRange	DateEnd: 20190324 DateStart: 20190323 timeOfDayEnd: 200000Z timeOfDayStart: 150000Z		
	warningInformation	Text: DRILL RIG VALARIS MS-1. 2.5 MILES CLEARANCE REQUESTED NavwarnTypeDetails: drill rig on location		
	geometry	20-57.27S 114-52.10		
	areaAffected	Point		
	restriction			
TextPlacement (ID02)	text			
	textJustification			
	geometry			
	flipBearing			
References	ScaleMinimum			
	noMessageOnHand	N		
	ReferenceCategory			
	messageSeriesIdentifier			

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Example 2 – Drilling Site Operations

Message element	Example 2 – Drilling Site Operations
1. Message series identifier	NAVAREA VII 117/21
2. General area	SOUTH ATLANTIC OCEAN.
3. Locality	ANGOLA, CONGO, IVORY COAST AND NAMIBIA.
4. Chart number	CHART _____(INT _____).
5. Key subject	RIG LIST:
6. Geographical position	05-08.58S 011-55.15E PRIDE CAPINDA.
7. Amplifying remarks	05-33.08S 011-27.08E PRIDE VENEZUELA.
8. Cancellation details	06-03.81S 011-05.86E GSF RIG 140.
	06-19.02S 011-03.23E KIZOMBA A (NEW).
	06-20.15S 011-18.01E PRIDE SOUTH PACIFIC.
	06-20.92S 011-09.22E KIZOMBA B.
	07-40.05S 011-45.08E PRIDE AFRICA.
	07-43.00S 011-43.00E PRIDE ANGOLA.
	35-08.86S 022-31.81E PRIDE SOUTH SEAS.
	35-13.99S 021-29.89E ORCA.
	FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTH ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: ANGOLA
	locality	localityIdentifier	
		locationName	language: eng text: CONGO
	locality	localityIdentifier	
		locationName	language: eng text: IVORY COAST
	locality	localityIdentifier	
		locationName	language: eng text: NAMIBIA
	messageSeriesIdentifier	country: ZA nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 117 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT _____	
	title		
	cancellationDate		
	publicationDate	20210317T000100Z	
NWPPreambleContent	navwarnTypeGeneral:	Offshore Structures	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd:	

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	warningInformation	timeOfDayStart: Text: RIG LIST: 05-08.58S 011-55.15E PRIDE CAPINDA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	05-08.58S 011-55.15E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 05-08.58S 011-55.15E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
	restriction	
TextPlacement (ID02)	text	PRIDE CAPINDA
	textJustification	Right
	geometry	05-08.58S 011-55.15E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID03)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 05-33.08S 011-27.08E PRIDE VENEZUELA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	05-33.08S 011-27.08E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 05-33.08S 011-27.08E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
	restriction	
TextPlacement (ID04)	text	PRIDE VENEZUELA
	textJustification	Right
	geometry	05-33.08S 011-27.08E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID05)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 06-03.81S 011-05.86E GSF RIG 140. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.

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		NavwarnTypeDetails: drilling site operations
	geometry	06-03.81S 011-05.86E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-03.81S 011-05.86E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID06)	text	GSF RIG 140
	textJustification	Right
	geometry	06-03.81S 011-05.86E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID07)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 06-19.02S 011-03.23E KIZOMBA A (NEW). FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	06-19.02S 011-03.23E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-19.02S 011-03.23E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID08)	text	KIZOMBA A (NEW)
	textJustification	Right
	geometry	06-19.02S 011-03.23E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID09)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 06-20.15S 011-18.01E PRIDE SOUTH PACIFIC. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	06-20.15S 011-18.01E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-20.15S 011-18.01E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM

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TextPlacement (ID10)	text	PRIDE SOUTH PACIFIC
	textJustification	Right
	geometry	06-20.15S 011-18.01E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID11)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 06-20.92S 011-09.22E KIZOMBA B. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry areaAffected	06-20.92S 011-09.22E Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-20.92S 011-09.22E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID12)	text	KIZOMBA B
	textJustification	Right
	geometry	06-20.92S 011-09.22E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID13)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 07-40.05S 011-45.08E PRIDE AFRICA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry areaAffected	07-40.05S 011-45.08E Polygon limited by a curve boundary of type S100_CircleByCenterPoint 07-40.05S 011-45.08E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID14)	text	PRIDE AFRICA
	textJustification	Right
	geometry	07-40.05S 011-45.08E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID15)	header (role)	ID00

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	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 07-43.00S 011-43.00E PRIDE ANGOLA FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	07-43.00S 011-43.00E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 07-43.00S 011-43.00E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID16)	text	PRIDE ANGOLA
	textJustification	Right
	geometry	07-43.00S 011-43.00E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID17)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 35-08.86S 022-31.81E PRIDE SOUTH SEAS FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	35-08.86S 022-31.81E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 35-08.86S 022-31.81E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
TextPlacement (ID18)	text	PRIDE SOUTH SEAS
	textJustification	Right
	geometry	35-08.86S 022-31.81E
	flipBearing	
	ScaleMinimum	
NAVWARNPart (ID19)	header (role)	ID00
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19
	featureName	displayName: N language: name:

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	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RIG LIST: 35-13.99S 021-29.89E ORCA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS. NavwarnTypeDetails: drilling site operations
	geometry	35-13.99S 021-29.89E
TextPlacement (ID20)	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 35-13.99S 021-29.89E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
	text	ORCA
	textJustification	Right
	geometry	35-13.99S 021-29.89E
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) This is a complex message and its neither necessary or correct to have the rig name as a component of the featureName. Using featureName would visualize the rig name anywhere within the zone.
- 2) However, textPlacement is required to name the rig location given the required exclusion zone.
- 3) Note again the generalArea issue previously mentioned.
- 4) Should exclusion zones be encoded with restrictions, such as entry prohibited?

Example 3 – Platform Established

Message element	Example 3 – Platform Established
1. Message series identifier	NAVAREA VI 116/21
2. General area	URUGUAY.
3. Locality	MONTEVIDEO.
4. Chart number	CHART _____ (INT _____).
5. Key subject	PLATFORM M4/25 ESTABLISHED IN 35-00N 056-20W.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: URUGUAY
	locality	localityIdentifier	
		locationName	language: eng text: MONTEVIDEO
	messageSeriesIdentifier	country: AR nameOfSeries: NAVAREA VI productionAgency: AR warningIdentifier: warningNumber: 116 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier:	

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		internationalChartAffected: INT ____ language: publicationAffected:
	NAVWARNtitle	Language: Text:
	cancellationDate	
	publicationDate	20210101T000000Z
NWPreambleContent	navwarnTypeGeneral:	Offshore Structures
NavigationalWarn Part (ID01)	intService:	Y
	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: Platform M4/25 ESTABLISHED NavwarnTypeDetails:
	geometry	35-00.00N 056-20.00W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) There is no NavwarnTypeDetails for establishment of a platform

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12 Significant malfunctioning of radio-navigation services and shore-based maritime safety information radio or satellite services

Example 1 – VHF Services Off Air

Message element	Example 1 – VHF Services Off Air
1. Message series identifier	NAVAREA I 116/22
2. General area	GMDSS.
3. Locality	MRCC SHETLAND
4. Chart number	VHF R/T AND DSC SERVICES TO DUNNET HEAD SITE,
5. Key subject	58-40.3N 003-22.6W OFF AIR.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreable (ID00)	generalArea	locality/Identifier	
		locationName	language: eng
			Text: GMDSS
	locality	locality/Identifier	
		locationName	language: eng
			text: MRCC Shetland
	messageSeriesIdentifier	country: UK nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 116 warningType: (4) NAVAREA navigational warning year: 22	
NWPreableContent	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Radio services	
	intService:	Y	
	header (role)	ID00	
NavigationalWarningFeaturePart (ID01) NWPreableContent NavigationalWarn Part (ID01)	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: VHF R/T and DSC services to Dunet head site, off air. NavwarnTypeDetails: VHF service	
	geometry	58-40.3N 003-22.6W	
	areaAffected	Point	
TextPlacement (ID02)	restriction		
	text		
	textJustification		
	geometry		
References	flipBearing		
	ScaleMinimum		
	noMessageOnHand	N	

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	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) The general area in this case is GMDSS and the MRCC associated with the VHF. Could this be coded as general area and locality.
- 2) This is a navwarn for an area, but yet we are only giving a point on land, would it be best to use the limits of the RCC. Is the global SAR plan mature enough on a global scale to support this?

Example 2 – MF Services Off Air

Message element	Example 2 – MF Services Off Air
1. Message series identifier	NAVAREA I 169/22
2. General area	GMDSS.
3. Locality	MRCC STORNOWAY.
4. Chart number	MF R/T AND DSC SERVICES FROM BUTT OF LEWIS SITE,
5. Key subject	58-27.7N 006-13.9W, OFF AIR.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: GMDSS
	locality	localityIdentifier	
		locationName	language: eng text: MRCC STORNOWAY
	messageSeriesIdentifier	country: UK nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 169 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	NWPreambleContent	navwarnTypeGeneral: Radio services	
NavigationalWarningFeaturePart (ID01) NWPreambleContent NavigationalWarn Part (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: MF R/T and DSC services from butt of Lewis site, off air. NavwarnTypeDetails: MF service	

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	geometry	58-27.7N 006-13.9
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) See discussion points from Ex 1 in radio services.

Example 3 – NAVTEX Off Air

Message element	Example 3 – NAVTEX Off Air
1. Message series identifier	NAVAREA I 53/22
2. General area	GMDSS
3. Locality	1.NAVTEX STATION CULLERCOATS (G), 55-04N 001-28W,
4. Chart number	OFF AIR DAILY BETWEEN 0900 AND 1530 UTC FROM 12
5. Key subject	TO 13 JAN 2022.
6. Geographical position	2. CANCEL THIS MESSAGE 131630 UTC JAN 2022.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			Text: GMDSS
	locality	localityIdentifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: UK nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 53 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20220113T163000Z	
	publicationDate	20220101T000000Z	
NWPreambleContent	navwarnTypeGeneral:	Radio services	
	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: 20220112 DateStart: 20220112 timeOfDayEnd: 153000Z timeOfDayStart: 090000Z	
	fixedDateRange	DateEnd: 20220113	

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		DateStart: 20220113 timeOfDayEnd: 1530000Z timeOfDayStart: 090000Z
	warningInformation	Text: NAVTEX STATION CULLERCOATS (G) OFF AIR DAILY BETWEEN 0900 AND 1530 UTC FROM 12 to 13 JAN 2022 NavwarnTypeDetails: NAVTEX
	geometry	55-04.00N 001-28.00W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 4 – NAVTEX Off Air

Message element	Example 4 – NAVTEX Off Air
1. Message series identifier	NAVAREA I 018/22
2. General area	GMDSS.
3. Locality	BALTIC SEA.
4. Chart number	1. NAVTEX STATIONS GRIMETON (I), 57-06.3N 012-
5. Key subject	23.4E, AND GISLOVSHAMMAR (J), 55-29.4N 014-18.9E,
6. Geographical position	OFF AIR. 2. BALTIC SEA NAVIGATION WARNING 007/22 REFERS.

NWPPreamble (ID00)	generalArea	locality/Identifier locationName	language: eng Text: GMDSS
	locality	locality/Identifier locationName	language: eng text: BALTIC SEA
	messageSeriesIdentifier	country: UK nameOfSeries: NAVAREA I productionAgency: UKHO warningIdentifier: warningNumber: 18 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	Radio services	
	intService:	Y	
NWPPreambleContent			
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd:	

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		DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: NAVTEX STATIONS GRIMETON (I) AND GISLOVSHAMMER (J) OFF AIR NavwarnTypeDetails: NAVTEX
	geometry	57-06.3N 012-23.4E
	areaAffected	Point
	geometry	55-29.4N 014-18.9E
	areaAffected	Point
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	country: SW nameOfSeries: Sub Area Ib productionAgency: SW warningIdentifier: warningNumber: 7 warningType: (3) sub-areanavigational warning year: 22

Discussion Points:

- 1) Tried to refer to a subarea warning

Example 5 – Seasonal Change

Message element	Example 5 – Seasonal Change
1. Message series identifier	NAVAREA XVIII 135/21
2. General area	CANADIAN ARCTIC
3. Locality	IQALUIT MCTS
4. Chart number	
5. Key subject	1. REMOTE CONTROL FACILITIES LOCATED AT CORAL HARBOUR OFF AIR FOR THE 2021 NAVIGATIONAL SEASON
6. Geographical position	161330 UTC NOV 2021. 2. CANCEL NAVAREA XVIII 130/21. 3. CANCEL THIS MSG AT 292330 UTC NOV 2021

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: CANADIAN ARTIC
	locality	localityIdentifier	
		locationName	language: eng text: IQALUIT MCTS
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVIII productionAgency: CA warningIdentifier: warningNumber: 135 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____	
		chartPublicationIdentifier: internationalChartAffected: INT ____	
		language: publicationAffected:	

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	NAVWARNtitle	Language: Text:
	cancellationDate	20211129T233000Z
	publicationDate	20211121T000000Z
NWPreambleContent	navwarnTypeGeneral:	Aids to Navigation
NavigationalWarn Part (ID01)	intService:	Y
	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: REMOTE CONTROL FACILITIES LOCATED AT CORAL HARBOUR OFF AIR FOR THE 2021 NAVIGATIONAL SEASON AT 161330 UTC NOV 2021 NavwarnTypeDetails: Seasonal decommissioning complete
	geometry	
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	country: CA nameOfSeries: Sub Area 1b productionAgency: CA warningIdentifier: warningNumber: 130 warningType: (4) sub-areanavigational warning year: 21

Discussion Points:

- 1) Needs a position for Coral Harbour, is it possible to have a feature reference which refers to the GMDSS master plan?

Example 6 – GMDSS Services

Message element	Example 6 – GMDSS Services
1. Message series identifier	NAVAREA XVIII 102/21
2. General area	CANADIAN ARCTIC
3. Locality	GMDSS
4. Chart number	IQUALUIT MCTS
5. Key subject	ALL GMDSS DSC, NBDP, AND RT TRANSMIT FACILITIES
6. Geographical position	LOCATED AT IQUALUIT 63-45N 068-31W OFF AIR 212300 UTC SEP 2021.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: CANADIAN ARTIC
	locality	localityIdentifier	
		locationName	language: eng

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		text: IQALUIT MCTS
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVIII productionAgency: CA warningIdentifier: warningNumber: 102 warningType: (4) NAVAREA navigational warning year: 21
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:
	NAVWARNtitle	Language: Text:
	cancellationDate	
	publicationDate	20210921T000000Z
NWPPreambleContent	navwarnTypeGeneral:	Radio Services
	intService:	Y
NavigationalWarn Part (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: All GMDSS DSC, NBDP, AND RT TRANSMIT FACILITIES LOCATED AT IQALUIT OFF AIR AT 212300 UTC SEP 2021. NavwarnTypeDetails:
	geometry	63-45N 068-31W
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Radio Services, general with no type details

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Example 7 – GPS Disruption

Message element	Example 6 – GMDSS Services
1. Message series identifier	NAVAREA X 151/21
2. General area	1. POSSIBLE GPS DISRUPTION DUE TO MILITARY
3. Locality	EXERCISES:
4. Chart number	A. FROM 191400 UTC JUL 2021 TO 271400 UTC
5. Key subject	JUL 2021
6. Geographical position	IN AREA WITHIN 15 NM OF 20-00.4S 148-15.9E.
	B. FROM 261400 UTC JUL 2021 TO 311400 UTC
	JUL 2021
	IN AREA WITHIN 15NM OF 18-43.2S 146-17.8E.
	2. REPORT SAFETY CONCERNS TO JRCC AUSTRALIA:
	PHONE: +61262306811
	EMAIL: RCCAUS@AMSA.GOV.AU
	3. CANCEL THIS MSG 311500 UTC JUL 2021.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text:
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber: 151 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20210731T150000Z	
	publicationDate	20210721T000000Z	
	navwarnTypeGeneral:	Aids to Navigation	
NWPPreambleContent	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01, ID02	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: 20210727 DateStart: 20210719 timeOfDayEnd: 140000Z timeOfDayStart: 140000Z	
	warningInformation	Text: POSSIBLE GPS DISRUPTION DUE TO MILITARY EXERCISES. 2. REPORT SAFETY CONCERNS TO JRCC AUSTRALIA: PHONE +61262306811 EMAIL: RCCAUS@AMSA.GOV.AU NavwarnTypeDetails:	
	geometry	20-00.4S 148-15.9E	

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NavigationalWarn Part (ID02)	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 20-00.4S 148-15.9E (center point) interpolation=circularArcCenterPointWithRadius radius=15NM
	restriction	
	header (role)	ID00
	theWarningPart (role)	ID01, ID 02
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: 20210731 DateStart: 20210726 timeOfDayEnd: 140000Z timeOfDayStart: 140000Z
	warningInformation	Text: POSSIBLE GPS DISRUPTION DUE TO MILITARY EXERCISES. 2. REPORT SAFETY CONCERS TO JRCC AUSTRALIA: PHONE +61262306811 EMAIL: RCCAUS@AMSA.GOV.AU NavwarnTypeDetails:
	geometry	18-43.2S 146-17.8E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 18-43.2S 146-17.8E (center point) interpolation=circularArcCenterPointWithRadius radius=15NM
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

[Discussion Points:](#)

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- 13 Information concerning events which might affect the safety of shipping, sometimes over wide areas, e.g. naval exercises, missile firings, space missions, nuclear tests, ordnance dumping zones, etc.

Example 1 – Firing Operations

Message element	Example 1 – Firing Operations
1. Message series identifier	NAVAREA XVI 221/21
2. General area	EASTERN SOUTH PACIFIC.
3. Locality	PERU.
4. Chart number	CHART ____ (INT ____).
5. Key subject	1. NAVAL FIRING EXERCISES 161400 UTC TO 170000 UTC JAN 2022 IN AREA BOUND BY 11-35.00S 077-43.00W, 11-35.00S 077-33.00W, 11-47.00S 077-33.00W, 11-47.00S 077-43.00W.
6. Geographical position	2.CANCEL THIS MESSAGE 181700 UTC JAN 2021.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: EASTERN SOUTH PACIFIC
	locality	localityIdentifier	
		locationName	language: eng text: PERU
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 221 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20210118T170000Z	
	publicationDate	20210115T000000Z	
	navwarnTypeGeneral:	Special Operations	
NWPPreambleContent	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01, ID02	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: 20210117 DateStart: 20210116 timeOfDayEnd: 00001Z timeOfDayStart: 140000Z	
	warningInformation	Text: NAVAL FIRING EXERCISES 161400 utc TO 1700 UTC JAN NavwarnTypeDetails: firing exercises	
	geometry	11-35.00S 077-43.00W 11-35.00S 077-33.00W 11-47.00S 077-33.00W	

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	areaAffected	11-47.00S 077-43.00W
	restriction	
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

Example 2 – Blasting Operation

Message element	Example 2 – Blasting Operation
1. Message series identifier	NAVAREA VIII 864/21
2. General area	INDIA WEST COAST.
3. Locality	OFF ALAPPUZHA.
4. Chart number	1.SUBSURFACE EXPLOSIVE OPERATIONS SCHEDULED 0330 TO
5. Key subject	0630 UTC DAILY ON 17 AND 21 DEC 2021 IN AREA
6. Geographical position	WITHIN FIVE MILES OF 09-19.58N 075-46.8E.
	2.CANCEL THIS MSG 210730 UTC DEC 21.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: INDIA WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: OFF ALAPPUZHA
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 864 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20211221T073000Z	
	publicationDate	20211215T000000Z	
	navwarnTypeGeneral:	Special Operations	
NWPreambleContent	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01, ID02	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: 20211217 DateStart: 20211217 timeofDayEnd: 063000Z timeofDayStart: 033000Z	

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	fixedDateRange	DateEnd: 20211221 DateStart: 20211221 timeOfDayEnd: 063000Z timeOfDayStart: 033000Z
	warningInformation	Text: SUBSURFACE EXPLOSIVE OPERATIONS SCHEDULED 0330 TO 0630 utc ON 17 AND 21 DEC 2021 NavwarnTypeDetails: firing exercises
	geometry	09-19.58N 075-46.8E
	areaAffected	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 09-19.58N 075-46.8E (center point) interpolation=circularArcCenterPointWithRadius radius=5NM
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

Example 3 – Fallout Hazard (Space Debris)

Message element	Example 3
1. Message series identifier	NAVAREA XIV 218/21.
2. General area	SOUTHWEST PACIFIC BASIN.
3. Locality	1. HAZARDOUS OPERATIONS, SPACE DEBRIS SCHEDULED
4. Chart number	FROM 062240 UTC TO 200925 UTC DEC 2021 IN AREAS
5. Key subject	BOUND BY:
6. Geographical position	A. 41-06.00S 176-18.00W, 39-54.00S 175-42.00W,
7. Amplifying remarks	40-36.00S 171-06.00W, 41-54.00S 171-18.00W.
8. Cancellation details	B. 42-36.00S 163-06.00W, 41-36.00S 163-12.00W,
	41-42.00S 158-00.00W, 42-36.00S 157-48.00W.
	2. CANCEL THIS MSG 201025 UTC DEC 2021.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: SOUTHWEST PACIFIC BASIN
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: NZ nameOfSeries: NAVAREA XIV productionAgency: MNZ warningIdentifier: warningNumber: 218 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20211220T102500Z	
	publicationDate	20211215T000000Z	
	navwarnTypeGeneral:	Hazard, other	

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	intService:	Y
NavigationalWarn Part (ID01)	header (role)	ID00
	theWarningPart (role)	ID01, ID02
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: 20211220 DateStart: 20211206 timeOfDayEnd: 092500Z timeOfDayStart: 224000Z
	warningInformation	Text: HAZARDOUS OPERATIONS, SPACE DEBRIS SCHEDULED FROM 062240 UTC TO 200925 UTC DEC 2021 NawarnTypeDetails: Fallout Hazard
	geometry	41-06.00S 176-18.00W 39-54.00S 175-42.00W 40-36.00S 171-06.00W 41-54.00S 171-18.00W
	areaAffected	Polygon
	geometry	42-36.00S 163-06.00W 41-36.00S 163-12.00W 41-42.00S 158-00.00W 42-36.00S 157-48.00W
	areaAffected	Polygon
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
References	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 4 – Military Exercise

Message element	Example 4
1. Message series identifier	NAVAREA VIII 857/21.
2. General area	ARABIAN SEA.
3. Locality	OFF BALASORE.
4. Chart number	1. INDIAN AIR FORCE EXERCISE 0430 TO 0630 UTC AND 0830 TO 1030 20 THRU 22 DEC 2021 IN AREA BOUND BY 21-41.00N 087-44.00E, 20-57.00N 086-53.00E 20-56.00N 086-55.00E. 2. CANCEL THIS MSG 221130 UTC DEC 2021.
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: ARABIAN SEA
	locality	localityIdentifier	
		locationName	language: eng text: OFF BALASORE
	messageSeriesIdentifier	country: IN	
		nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: - warningType: (4) NAVAREA navigational warning year: 21	

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	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:
	NAVWARNtitle	Language: Text:
	cancellationDate	20211222T113000Z
	publicationDate	20211218T000000Z
NWPPreambleContent	navwarnTypeGeneral:	Special Operations
NavigationalWarn Part (ID01)	intService:	Y
	header (role)	ID00
	theWarningPart (role)	ID01, ID02
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	DateEnd: 20211220 DateStart: 20211220 timeOfDayEnd: 043000Z timeOfDayStart: 063000Z
	fixedDateRange	DateEnd: 20211220 DateStart: 20211220 timeOfDayEnd: 083000Z timeOfDayStart: 103000Z
	fixedDateRange	DateEnd: 20211221 DateStart: 20211221 timeOfDayEnd: 043000Z timeOfDayStart: 063000Z
	fixedDateRange	DateEnd: 20211221 DateStart: 20211221 timeOfDayEnd: 083000Z timeOfDayStart: 103000Z
	fixedDateRange	DateEnd: 20211222 DateStart: 20211222 timeOfDayEnd: 043000Z timeOfDayStart: 063000Z
	fixedDateRange	DateEnd: 20211222 DateStart: 20211222 timeOfDayEnd: 083000Z timeOfDayStart: 103000Z
	warningInformation	Text: INDIAN AIRFORCE EXERCISE 0430 TO 0630 AND 0830 TO 1030 UTC 20 THRU 22 DEC 2021 NavwarnTypeDetails: military exercises
	geometry	21-41.00N 087-44.00E 20-57.00N 086-53.00E 20-56.00N 086-55.00E
	areaAffected	polygon
	restriction	
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

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Example 5 – Fallout Hazard (Rocket Launch)

Message element	Example 5 – Fallout Hazard (Rocket Launch)
1. Message series identifier	NAVAREA IV 1092/21
2. General area	WESTERN NORTH ATLANTIC.
3. Locality	FLORDIA.
4. Chart number	1. ROCKET LAUNCHING 090600 UTC TO 090753 UTC DEC 2021, ALTERNATE 0600 UTC TO 0753 UTC DAILY 10 THRU 14 DEC 2021 IN AREA BOUND BY 28-39.03N 080-37.70W, 28-41.00N 080-20.00W, 28-38.00N 079-42.00W, 28-35.00N 079-43.00W, 28-33.00N 080-17.00W, 28-34.78N 080-34.08W. 2. CANCEL THIS MESSAGE 140853 UTC DEC 2021.
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: WESTERN NORTH ATLANTIC
	locality	localityIdentifier	
		locationName	language: eng text: FLORDIA
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 1029 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: ____ internationalChartAffected: INT ____ language: ____ publicationAffected: ____	
	NAVWARNtitle	Language: ____ Text: ____	
	cancellationDate	20211221t085300z	
	publicationDate	20211210T000000Z	
	navwarnTypeGeneral:	Hazard, other	
NWPPreambleContent	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01, ID02	
	featureName	displayName: N language: ____ name: ____	
	featureReference	AtoNNumber: ____ featureIdentifier: ____ ENCFeatureReference: ____	
	fixedDateRange	DateEnd: 20211209 DateStart: 20211209 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z	
	fixedDateRange	DateEnd: 20211210 DateStart: 20211210 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z	
	fixedDateRange	DateEnd: 20211211 DateStart: 20211211 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z	
	fixedDateRange	DateEnd: 20211212 DateStart: 20211212 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z	
	fixedDateRange	DateEnd: 20211213	
	fixedDateRange		

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		DateStart: 20211213 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z
	fixedDateRange	DateEnd: 20211214 DateStart: 20211214 timeOfDayEnd: 060000Z timeOfDayStart: 075300Z
	warningInformation	Text: ROCKET LAUNCHING 090600 UTC TO 090753 UTC DEC 2021, ALTERNATE 0600 UTC TO 0753 UTC DAILY 10 THRU 14 DEC 2021 NavwarnTypeDetails: military exercises
	geometry	28-39.03N 080-37.70W 28-41.00N 080-20.00W 28-38.00N 079-42.00W 28-35.00N 079-43.00W 28-33.00N 080-17.00W 28-34.78N 080-34.08W
	areaAffected	polygon
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

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14. Operating anomalies identified within ECDIS including ENC issues

Example 1 – ECDIS Anomalies

Message element	Example 1 – ECDIS Anomalies
1. Message series identifier	NAVAREA XVII 82/22
2. General area	DISPLAY ANOMALIES IN SOME ECDIS.
3. Locality	SOME ELECTRONIC CHART DISPLAY AND INFORMATION
4. Chart number	SYSTEMS (ECDIS) MAY EXHIBIT OPERATING
5. Key subject	ANOMALIES. THE INTERNATIONAL MARITIME
6. Geographical position	ORGANIZATION'S CIRCULAR MSC.1/circ.1503/rev1
7. Amplifying remarks	(HTTP://WWW.IMO.ORG/OURWORK/CIRCULARS/PAGES/IMODOCS.ASPX (REGISTRATION REQUIRED)) LISTS IDENTIFIED
8. Cancellation details	ANOMALIES, THEIR CHARACTERISTICS AND REMEDIAL ADVICE. MARINERS ARE REMINDED THAT THEY SHOULD ACCESS THE INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) DATA PRESENTATION AND PERFORMANCE CHECK (DPPC) DATASET (http://www.iho.int/srv1/index.php?option=com) AND ENSURE THAT ALL INSTALLED ECDIS UNITS ARE CHECKED.

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text:
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVII productionAgency: CA warningIdentifier: warningNumber: 82 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	ECDIS operating anomalies including official data issues	
NWPreableContent	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	DateEnd: DateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: SOME ELECTRONIC CHART DISPLAY INFORMATION SYSTEMS (ECDIS) MAY EXHIBIT OPERATING ANOMALIES. THE INTERNATIONAL MARITIME ORGANIZATION'S CIRCULAR MSC.1/circ.1503/rev1. (HTTP://WWW.IMO.ORG/OURWORK/CIRCULARS/PAGES/IMODOCS.ASPX) (REGISTRATION REQUIRED)) LISTS IDENTIFIED ANOMALIES, THEIR CHARACTERISTICS AND REMEDIAL ADVICE. MARINERS ARE REMINDED THAT THEY SHOULD ACCESS THE INTERNATIONAL HYDROGRAPHIC	

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		ORGANIZATION (IHO) DATA PRESENTATION AND PERFORMANCE CHECK (DPPC) DATASET (HTTP://WWW.IHO.INT/SRVL/INDEX.PHP?OPTION=COM) AND ENSURE THAT ALL INSTALLED ECDIS UNITS ARE CHECKED. NavwarnTypeDetails: NAVTEX
	geometry	
	areaAffected	Point
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) In the current warningHazardType list, this type is captured from S-53, but it's rather lengthy. Suggest we amend it to "ECDIS Anomalies"? ;
- 2) This NW is global in scope, do we have appropriate geometry available? Should NACs use a polygon of their NAVAREA(s) to ensure appropriate on ECDIS?

Example 2 – ENC Anomaly

Message element	Example 2 – ENC Anomaly
1. Message series identifier	NAVAREA XVIII 94/22
2. General area	CANADIAN ARCTIC
3. Locality	SIMPSON STRAIT
4. Chart number	ETA ISLAND
5. Key subject	CHART CHS 7736 / ENC CA473317THE CHARTED ORIENTATION
6. Geographical position	OF THE RANGE LINE FOR SIMPSON STRAIT #6 RANGE (WEST-
7. Amplifying remarks	FACING RANGE MARKS ON ETA ISLAND) IS IN ERROR. THE
8. Cancellation details	CORRECT VISUAL RANGE LINE PASSES 94 METRES SOUTH OF THE ADVERTISED POSITION OF SIMPSON STRAIT BUOY #11 ON HEADINGS 289/109 DEGREES TRUE.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: CANADIAN ARCTIC
	locality	locality/Identifier	
		locationName	language: eng text: SIMPSON ISLAND
	locality	locality/Identifier	
		locationName	language: eng text: ETA ISLAND
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVIII productionAgency: Canadian CG warningIdentifier: warningNumber: 94 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: CHS 7736 internationalChartAffected: INT	
	title		

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	cancellationDate	
	publicationDate	20211101T000100Z
NWPPreambleContent	navwarnTypeGeneral:	ECDIS operating anomalies including official data issues
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: CHS CHART 7736/ENC CA473317 THE CHARTED ORIENTATION OF THE RANGE LINE FOR SIMSON STRAIT #6 RANGE (WEST-FACING RANGE MARKS ON ETA ISLAND) IS IN ERROR. THE CORRECT VISUAL RANGE LINE PASSES 94 METRES SOUTH OF THE ADVERTISED POSITION OF SIMPSON STRAIT BUOY #11 ON HEADINGS 289/109 DEGREES TRUE. NavwarnTypeDetails:
	geometry	
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) The geometry for this issue COULD reflect the bounding box of the ENC with the anomaly. It also could be just the feature if the feature (in this case a range line) had a URL.
- 2) Suggest the warningHazardTypeDetail be unique, as in, "ENC Issues/anomaly"?

Example 3 – ENC Anomaly

Message element	Example 2 – ENC Not Safe for Navigation
1. Message series identifier	NAVAREA II 199/22
2. General area	IROISE
3. Locality	DUE TO A PRODUCTION PROBLEM THAT HAS CAUSED
4. Chart number	DISPLACED FEATURES, IT HAS BEEN DETERMINED THAT
5. Key subject	ELECTRONIC NAUTICAL CHART 7066 FR (1800 INT)
6. Geographical position	IS NOT TO BE USED FOR NAVIGATION OR SITUATIONAL
7. Amplifying remarks	AWARENESS.
8. Cancellation details	A REVIEW IS IN PROGRESS TO ADDRESS THIS SITUATION.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: IROISE

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	locality	localityIdentifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: SHOM warningIdentifier: warningNumber: 199 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate		
	publicationDate	20211101T000100Z	
NWPreambleContent	navwarnTypeGeneral:	ECDIS operating anomalies including official data issues	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference: editionNumber:1 ENCName:FR7066 FeatureobjectIdentifier: updateNumber:4	
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:	
	warningInformation	Text: DUE TO A PRODUCTION PROBLEM THAT HAS CAUSED DISPLACED FEATURES, IT HAS BEEN DETERMINED THAT ELECTRONIC NAUTICAL CHART 7066 FR (1800 INT) IS NOT TO BE USED FOR NAVIGATION OR SITUATIONAL AWARENESS. A REVIEW IS IN PROGRESS TO ADDRESS THIS SITUATION. NavwarnTypeDetails:	
	geometry		
	areaAffected		
	restriction		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

Discussion Points:

- 1) Attempt at using ENCfeatureReference
- 2) Very challenging to portray, it would need to be the bounding box for the ENC limits.

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15. Acts of piracy and armed conflict against ships

Example 1- Armed Robbery

Message element	Example 1 – Armed Robbery
1. Message series identifier	NAVAREA XVI 306/22
2. General area	PERU.
3. Locality	CALLAO ANCHORAGE.
4. Chart number	ARMED ROBBERY.
5. Key subject	
6. Geographical position	1. M/V AT ANCHOR BOARDED BY SEVEN ARMED ROBBERS
7. Amplifying remarks	IN 12-01.05S 077-11.37W AT 280710 UTC JAN 2022.
8. Cancellation details	ROBBERS ATTACKED CREW, STOLE SHIP PROPERTY AND ESCAPED. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION. REPORTS TO IMB PIRACY REPORTING CENTER, PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, E-MAIL: IMBKL@ICC-CCS.ORG, PIRACY@ICC-CCS.ORG.
	2. CANCEL THIS MSG 040710 UTC FEB 2022.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng
			text: PERU
	locality	locality/Identifier	
		locationName	language: eng
			text: CALLAO ANCHORAGE
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 306 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20220204T071000Z	
NWPreambleContent	publicationDate	20220129T000100Z	
	navwarnTypeGeneral:	Piracy	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:	
	warningInformation	Text: M/V AT ANCHOR BOARDED BY SEVEN ARMED ROBBERS AT 280710 UTC JAN 2022. ROBBERS ATTACHED CREW STOLE SHIP PROERTY AND ESCAPED. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTERMED CAUTION.	

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		REPORT TO IMB PIRACY REPORTING CENTER. PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, EMAIL: IMBKL@ICC-CCS.ORG , PIRACY@ICC-CCS.ORG NavwarnTypeDetails:
	geometry	12-01.05S 077-11.37W
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) Would it be useful to have multiple type details for armed robber, piracy, kidnapping etc.?

Example 2 - Piracy

Message element	Example 2 - Piracy
1. Message series identifier	NAVAREA II 223/21
2. General area	GULF OF GUINEA.
3. Locality	NIGERIA.
4. Chart number	ACT OF PIRACY.
5. Key subject	1. M/V ATTACKED IN 02-49N 002-31E AT 061700 UTC JUN 2021.
6. Geographical position	
7. Amplifying remarks	VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION.
8. Cancellation details	REPORT TO MDAT-GOG, PHONE: +33 2 98 22 88 88 E-MAIL: WATCHKEEPERS@MDAT-GOG.ORG 2. CANCEL THIS MSG 091930 UTC JUN 2021.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: GULF OF GUINEA
	locality	locality/Identifier	
		locationName	language: eng text: NIGERIA
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: SHOM warningIdentifier: warningNumber: 223 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT ____	
	title		
	cancellationDate	20210609T193000Z	
	publicationDate	20210606T180000Z	
	navwarnTypeGeneral:	Piracy	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N	

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		language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: M/V ATTACKED AT 061700 UTC JUN 2021. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORT TO MDAT-GOG, PHONE: + 33 2 98 22 88 88, EMAIL: WATCHKEEPERS@MDAT-GOG.ORG NavwarnTypeDetails:
	geometry	02-49N 002-31E
	areaAffected	POINT
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
References	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 3 – Piracy (Kidnapping)

Message element	Example 3 – Piracy (Kidnapping)
1. Message series identifier	NAVAREA II 2031/20
2. General area	GULF OF GUINEA.
3. Locality	NIGERIA.
4. Chart number	OFF BAYELSA.
5. Key subject	ACT OF PIRACY.
6. Geographical position	
7. Amplifying remarks	1. M/V ATTACKED BY PIRATES IN 04-28.15N 005-31.17E AT 261258 UTC NOV 2020. TEN PERSONS KIDNAPPED. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION. REPORTS TO IMB PIRACY REPORTING CENTER, PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, E-MAIL: IMBKL@ICC-CCS.ORG, PIRACY@ICC-CCS.ORG.
8. Cancellation details	2. CANCEL THIS MSG 291200 UTC NOV 2020.

NWPreamble (ID00)	generalArea	locality/Identifier	
		locationName	language: eng text: GULF OF GUINEA
	locality	locality/Identifier	
		locationName	language: eng text: NIGERIA
	locality	locality/Identifier	
		locationName	language: eng text: OFF BAYELSA
	messageSeriesIdentifier	country: FR	
		nameOfSeries: NAVAREA II	
		productionAgency: SHOM	
		warningIdentifier: warningNumber: 2031	

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		warningType: (4) NAVAREA navigational warning year: 20
	affectedChartPublications	chartAffected: internationalChartAffected: INT
	title	
	cancellationDate	20201129T120000Z
	publicationDate	20201126T140000Z
NWPreambleContent	navwarnTypeGeneral:	Piracy
NAVWARNPart (ID01)	intService:	Y
	header (role)	ID00
	theWarningPart (role)	ID01
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:
	warningInformation	Text: M/V ATTACKED BY PIRATES AT 261258 UTC NOV 2022. TEN PERSON KIDNAPPED. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORT TO IMB PIRACY REPORTING CENTER. PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, EMAIL: IMBKL@ICC-CCS.ORG , PIRACY@ICC-CCS.ORG NavwarnTypeDetails:
	geometry	04-28.15N 005-31.17E
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 4 – Piracy (Hijacking)

Message element	Example 4 – Piracy (Hijacking)
1. Message series identifier	NAVAREA IX 3048/19
2. General area	RED SEA.
3. Locality	ERITREA.
4. Chart number	ACT OF PIRACY.
5. Key subject	1. M/V HIJACKED BY SIX ARMED PIRATES
6. Geographical position	IN 16-30N 040-08E AT 170338 UTC SEP 2019.
7. Amplifying remarks	VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION. REPORTS TO IMB PIRACY REPORTING CENTER, PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, E-MAIL: IMBKL@ICC-CCS.ORG, PIRACY@ICC-CCS.ORG.
8. Cancellation details	2. CANCEL THIS MSG 200237 UTC SEP 2019.

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NW Preamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: RED SEA
	locality	localityIdentifier	
		locationName	language: eng text: ERITREA
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 2031 warningType: (4) NAVAREA navigational warning year: 20	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20190920T023700Z	
NW PreambleContent	publicationDate	20190917T040000Z	
	navwarnTypeGeneral:	Piracy	
	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: M/V HIJACKED BY SIX ARMED PIRATES AT 170338 UTC SEP 2019. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORT TO IMB PIRACY REPORTING CENTER. PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, EMAIL: IMBKL@ICC-CCS.ORG , PIRACY@ICC- CCS.ORG NavwarnTypeDetails:	
	geometry	16-30N 040-08E	
	areaAffected	POINT	
	restriction		
	text		
TextPlacement (ID02)	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand	N	
	ReferenceCategory		
	messageSeriesIdentifier		

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Example 5 – Piracy (Mothership Activity)

Message element	Example 5
1. Message series identifier	NAVAREA II 250/21.
2. General area	GULF OF GUINEA.
3. Locality	OFF GHANA.
4. Chart number	
5. Key subject	ACT OF PIRACY.
6. Geographical position	1.SUSPECTED MOTHERSHIP ACTIVITY IN VICINITY 01-50N
7. Amplifying remarks	001-11E AT 190930 UTC OCT 2021. 24 METER TUG, WHITE HULL AND BLACK SUPERSTRUCTURE, UNNAMED AND NOT TRANSMITTING AIS. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION. REPORTS TO IMB PIRACY REPORTING CENTER, PHONE: 603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, E-MAIL: IMBKL@ICC-CCS.ORG, PIRACY@ICC-CCS.ORG .
8. Cancellation details	2.CANCEL THIS MSG 220930 UTC OCT 2021.

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: GULF OF GUINEA
	locality	localityIdentifier	
		locationName	language: eng text: OFF GHANA
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 250 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20211022T093000Z	
	publicationDate	20211019T100000Z	
	navwarnTypeGeneral:	Piracy	
NWPreableContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeofDayEnd: timeofDayStart:	
	warningInformation	Text: SUSPECTED MOTHER SHIP ACTIVITY AT 190930 UTC OCT 2021. 24 METRE TUG, WHITE HULL AND BLACK SUPERSTRUCTURE, UNNAMED AND NOT TRANSMITTING AIS. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORT TO IMB PIRACY REPORTING CENTER. PHONE:	

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		603 2031 0014, 603 2078 5763, FAX: 603 2078 5769, EMAIL: IMBKL@ICC-CCS.ORG , PIRACY@ICC-CCS.ORG
	geometry	01-50N 001-11E
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	scaleMinimum	
References	noMessageOnHand	N
	referenceCategory	
	messageSeriesIdentifier	

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16. Tsunamis and other natural phenomena, such as abnormal changes to sea level

Example 1 – Tsunami (General)

Message element	Example 1 -Tsunami (General)
1. Message series identifier	NAVAREA XI 0251/21
2. General area	PACIFIC OCEAN.
3. Locality	PHILLIPINES.
4. Chart number	TSUNAMI WARNING.
5. Key subject	EARTHQUAKE, MAGNITUDE 7.2, OCCURRED
6. Geographical position	AT 111746 UTC AUG 2021 IN 06-30N 126-48E.
7. Amplifying remarks	TSUNAMI WAVES ARE POSSIBLE WHICH COULD CAUSE
8. Cancellation details	DAMAGE TO THE COASTS AND ISLANDS OF THE PHILLIPINES. VESSELS IN VICINITY OF COASTAL AREAS ARE ADVISED TO USE CAUTION.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: PACIFIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: PHILLIPINES
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 251 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
NWPreambleContent	publicationDate	20211019T100000Z	
	navwarnTypeGeneral:	Natural phenomena	
NAVWARNPart (ID01)	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:	
	warningInformation	Text: TSUNAMI WARNINGS. EARTHQUAKE, MAGNITUDE 7.2, OCCURRED AT 111746 UTC AUG 2021. TSUNAMI WAVES ARE POSSIBLE WHICH COULD CAUSE DAMAGE TO THE COASTS AND ISTLANDS OF THE PHILLIPINES. VESSSELS IN VICINITY OF COASTAL AREAS ARE ADVISED TO USE CAUTION NavwarnTypeDetails: tsunami warning	

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	geometry	06-30N 126-48E
	areaAffected	POINT
	restriction	
	text	
TextPlacement (ID02)	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) The geometry is the reported location of the earthquake/volcano? Do we need to expand this geometry to capture the danger zone of potential tsunami? If so how?

Example 2 – Tsunami (General)

Message element	Example 2 -Tsunami (Earthquake)
1. Message series identifier	NAVAREA XII 365/21
2. General area	ALASKA COASTAL AREAS.
3. Locality	TSUNAMI WARNING.
4. Chart number	EARTHQUAKE WITH MAGNITUDE OF 8.2 HAS OCCURRED
5. Key subject	IN VICINITY 55-18N 157-48W AT 290616Z JUL 2021.
6. Geographical position	A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE
7. Amplifying remarks	DAMAGE TO COASTS OF SOUTH ALASKA, THE ALASKA
8. Cancellation details	PENINSULA AND THE ALEUTIAN ISLANDS. TSUNAMI WAVE HEIGHTS CANNOT BE PREDICTED AND MAY BE A SERIES OF WAVES WHICH COULD BE DANGEROUS FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: ALASKA COASTAL AREA
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA XII productionAgency: US warningIdentifier: warningNumber: 365 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20211019T100000Z	
	navwarnTypeGeneral:	Natural phenomena	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd:	

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		dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: EARTHQUAKE WITH MAGNITUDE OF 8.2 HAS OCCURRED AT 290616Z JUL 2021. A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO COASTS OF SOUTH ALASKA, THE ALASKA PENINSULA AND THE ALEUTIAN ISLANDS. TSUNAMI WAVE HEIGHTS CANNOT BE PREDICTED AND MAY BE A SERIES OF WAVES WHICH COULD BE DANGEROUS FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL. NavwarnTypeDetails: tsunami warning
	geometry	55-18N 157-48W
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 3-Tsunmai (Arrival Times)

Message element	Example 3 -Tsunami (Arrival Times)
1. Message series identifier	NAVAREA XII 365/21
2. General area	ALASKA COASTAL AREAS.
3. Locality	TSUNAMI WARNING.
4. Chart number	EARTHQUAKE WITH MAGNITUDE OF 8.2 HAS OCCURRED
5. Key subject	IN VICINITY 55-18N 157-48W AT 290616Z JUL 2021.
6. Geographical position	A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE
7. Amplifying remarks	DAMAGE TO COASTS OF SOUTH ALASKA, THE ALASKA
8. Cancellation details	PENINSULA AND THE ALEUTIAN ISLANDS. TSUNAMI WAVE HEIGHTS CANNOT BE PREDICTED AND MAY BE A SERIES OF WAVES WHICH COULD BE DANGEROUS FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: CARIBBEAN SEA
	locality	localityIdentifier	
		locationName	language: eng text: HAITI
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: NGA warningIdentifier: warningNumber: 702 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate		

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	publicationDate	20211019T100000Z
NWPreambleContent	navwarnTypeGeneral:	Natural phenomena
	intService:	Y
NAVWARNPart (ID01)	header (role)	ID00
	theWarningPart (role)	ID01, ID02
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: TSUNAMI WARNINGS. EARTHQUAKE, MAGNITUDE 8.2, OCCURRED AT 141229 UTC AUG 2021. TSUNAMI WAVES ARE POSSIBLE WHICH COULD CAUSE DAMAGE TO THE SURROUNDING COSATS. TSUNAMI WAVES REACHING THREE METERS ABOVE THE TIDE LEVEL ARE POSSIBLE AND MAY BE A SERIES OF WAVES WHICH COULD BE DANGEROUS FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL. NavwarnTypeDetails: tsunami warning
	geometry	18-36N 073-30W
	areaAffected	POINT
	restriction	
	header (role)	ID00
NAVWARNPart (ID02)	theWarningPart (role)	ID01, ID02
	featureName	displayName: N language: name:
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: TSUNAMI ACTIVITY IS FORECASTED TO START AT THE FOLLOWING TIMES: A. JEREMIE AT 1239Z B. JACAMEL AT 1318Z C. PORT AU PRINCE AT 1328Z NavwarnTypeDetails: tsunami warning
	geometry	18-36N 074-06W
	areaAffected	POINT
	geometry	18-06N 072-30W
	areaAffected	POINT
	geometry	18-30N 072-24W
	areaAffected	POINT
	restriction	
TextPlacement (ID03)	text	JEREMIE
	textJustification	RIGHT
	geometry	18-36N 074-06W
	flipBearing	
TextPlacement (ID04)	ScaleMinimum	
	text	JACAMEL
	textJustification	RIGHT

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TextPlacement (ID05)	geometry	18-06N 072-30W
	flipBearing	
	ScaleMinimum	
	text	JEREMIE
	textJustification	RIGHT
	geometry	18-36N 074-06W
References	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) The geometry is the reported location of the earthquake/volcano? Do we need to expand this geometry to capture the danger zone of potential tsunamis? If so how?

Example 4 – Volcanic Activity

Message element	Example 4 – Volcanic Activity
1. Message series identifier	NAVAREA IV 301/21
2. General area	EASTERN CARIBBEAN SEA.
3. Locality	SAINT VINCENT.
4. Chart number	RESTRICTED AREA DUE TO VOLCANIC ACTIVITY
5. Key subject	IN AREA BOUND BY
6. Geographical position	13-15.00N 061-19.60W, 13-18.00N 061-18.50W,
7. Amplifying remarks	13-22.08N 061-15.38W, 13-26.00N 061-09.91W,
8. Cancellation details	13-22.29N 061-04.90W, 13-19.88N 061-04.10W, 13-14.41N 061-03.90W.

NWPreamble (ID00)	generalArea	locality/Identifier	language: eng
		locationName	Text: EASTERN CARIBBEAN SEA.
	locality	locality/Identifier	language: eng
		locationName	text: SAINT VINCENT.
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 301 warningType: (4) NAVAREA navigational warning year: 21	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate		
	publicationDate	20211019T100000Z	
	navwarnTypeGeneral:	Natural phenomena	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:	
	fixedDateRange	dateEnd:	

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		dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: RESTRICTED AREA DUE TO VOLCANIC ACTIVITY NavwarnTypeDetails: VOLCANO ACTIVITY
	geometry	13-15.00N 061-19.60W 13-18.00N 061-18.50W 13-22.08N 061-15.38W 13-19.88N 061-04.10W 13-14.41N 061-03.90W
	areaAffected restriction	POLYGON
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Example 5 – Tsunami (Volcanic Activity)

Message element	Example 2 -Tsunami (Earthquake)
1. Message series identifier	NAVAREA XIV 4/22
2. General area	SOUTH PACIFIC OCEAN.
3. Locality	1. TSUNAMI THREAT MESSAGE ISSUED BY PACIFIC TSUNAMI
4. Chart number	WARNING CENTRE AT 152006 UTC JAN 2022. A VOLCANIC
5. Key subject	ERUPTION HAS OCCURRED IN VICINITY 20-30S 175-24W
6. Geographical position	LOCATION TONGA AT 150427 UTC JAN 2022. HAZARDOUS
7. Amplifying remarks	TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE
8. Cancellation details	WITHIN THE NEXT THREE HOURS. 2. CANCEL THIS MSG 152336 UTC JAN 2022.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: SOUTH PACIFIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA XIV productionAgency: US warningIdentifier: warningNumber: 4 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate	20220115T233600Z	
	publicationDate	2022015T202000Z	
	navwarnTypeGeneral:	Natural phenomena	
NWPreambleContent	intService:	Y	
NAVWARNPart (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName	displayName: N language: name:	

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	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd: timeOfDayStart:
	warningInformation	Text: TSUNAMI THREAT MESSAGE ISSUED BY PACIFIC TSUNAMI WARNING CENTRE AT 152006 UTC JAN 2022. A VOLCANIC ERUPTION HAS OCCURRED. LOCATION TONGA AT 150427 UTC JAN 2022. HAZARDOUS TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE WITHIN THE NEXT THREE HOURS. NavwarnTypeDetails: tsunami warning
	geometry	55-18N 157-48W
	areaAffected	POINT
	restriction	
TextPlacement (ID02)	text	
	textJustification	
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) This particular example had impacts from new Zealand to Alaska and chile, how can this be portrayed?

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17. World Health Organization (WHO) health advisory information

Example 1 – WHO Advisory

Message element	Example 1 – WHO Advisory
1. Message series identifier	NAVAREA XVIII 69/21 CANADA
2. General area	1. ON 11 MARCH 2020, THE WORLD HEALTH ORGANIZATION DECLARED THAT THE GLOBAL OUTBREAK OF COVID-19 IS A PANDEMIC. TO REDUCE THE SPREAD OF COVID-19, WHERE POSSIBLE, PRACTICE PHYSICAL DISTANCING AND PROPER HYGIENE, KEEP ROOMS WELL VENTILATED AND DISINFECT SURFACES ON BOARD.MARINERS ARE REMINDED OF THEIR RESPONSIBILITY TO DECLARE ANY ON-BOARD ILLNESS AS OUTLINED IN PART 4, OF THE CANADIAN COAST GUARD PUBLICATION, RADIO AIDS TO MARINE NAVIGATION. THE CANADIAN COAST GUARD REMAINS READY TO PROVIDE ASSISTANCE TO MARINERS. VISIT WWW.CANADA.CA FOR UPDATES ON COVID-19. VISIT WWW.TC.CANADA.CA FOR COVID-19 UPDATES RELATED TO MARINE TRANSPORTATION. 2. CANCEL NAVAREA XVIII 125/20.
3. Locality	
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWFPreamble (ID00)	generalArea	localityIdentifier	locationName	language: eng Text: CANADA
	locality	localityIdentifier	locationName	language: eng text:
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVIII productionAgency: CA warningIdentifier: warningNumber:69 warningType: (4) NAVAREA navigational warning year: 21		
	affectedChartPublications	chartAffected: internationalChartAffected: INT		
	title			
	cancellationDate			
	publicationDate	2021015T202000Z		
	navwarnTypeGeneral:	Health Advisory		
NWFPreambleContent	intService:	Y		
NAVWARNPart (ID01)	header (role)	ID00		
	theWarningPart (role)	ID01		
	featureName	displayName: N language: name:		
	featureReference	AtoNNumber: featureIdentifier: ENCFeatureReference:		
	fixedDateRange	dateEnd: dateStart: timeOfDayEnd:		

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		timeOfDayStart:
	warningInformation	Text: 1. ON 11 MARCH 2020, THE WORLD HEALTH ORGANIZATION DECLARED THAT THE GLOBAL OUTBREAK OF COVID-19 IS A PANDEMIC. TO REDUCE THE SPREAD OF COVID-19, WHERE POSSIBLE, PRACTICE PHYSICAL DISTANCING AND PROPER HYGIENE, KEEP ROOMS WELL VENTILATED AND DISINFECT SURFACES ON BOARD. MARINERS ARE REMINDED OF THEIR RESPONSIBILITY TO DECLARE ANY ON-BOARD ILLNESS AS OUTLINED IN PART 4, OF THE CANADIAN COAST GUARD PUBLICATION, RADIO AIDS TO MARINE NAVIGATION. THE CANADIAN COAST GUARD REMAINS READY TO PROVIDE ASSISTANCE TO MARINERS. VISIT WWW.CANADA.CA FOR UPDATES ON COVID-19. VISIT WWW.TC.CANADA.CA FOR COVID-19 UPDATES RELATED TO MARINE TRANSPORTATION. NavwarnTypeDetails: World Health Organization notice
	geometry	
	areaAffected	POINT
TextPlacement (ID02)	restriction	
	text	
	textJustification	
	geometry	
References	flipBearing	
	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	country: CA nameOfSeries: NAVAREA XVIII productionAgency: CA warningIdentifier: warningNumber:125 warningType: (4) NAVAREA navigational warning year: 20

Discussion Points:

- 1) The geometry does not exist.

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18. Security Related Requirements

Example 1

Message Element	Example 1
1. Message series identifier	NAVAREA I 88/22
2. General area	FRANCE NORTH COAST
3. Locality	BAIE DE SEINE AND LE HAVRE HARBOUR.
4. Chart number	SECURITY ANNOUNCEMENT. REF: ISPS CODE - SECURITY LEVELS IN
5. Key subject	FRENCH TERRITORIAL WATERS IN THE BAIE DE SEINE AND IN LE
6. Geographical position	HAVRE HARBOUR UPGRADED TO SECURITY LEVEL 3. ALL SHIPS ARE
7. Amplifying remarks	PROHIBITED TO ENTER BAIE DE SEINE AND
8. Cancellation details	LE HAVRE HARBOUR.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: FRANCE NORTH COAST
	locality	localityIdentifier	
		locationName	language: eng text: BAIE DE SEINE
	locality	localityIdentifier	
		locationName	language: eng text: le havre harbour
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber:88 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	security	
NWPreambleContent	intService:	Y	
	header (role)	ID00	
NavigationalWarn Part (ID01)	theWarningPart (role)	ID01	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: SECURITY ANNOUNCEMENT. REF: ISPS CODE - SECURITY LEVELS IN FRENCH TERRITORIAL WATERS IN THE BAIE DE SEINE AND IN LE HAVRE HARBOUR UPGRADED TO SECURITY LEVEL 3. ALL SHIPS ARE PROHIBITED TO ENTER BAIE DE SEINE AND LE HAVRE HARBOUR. NavwarnTypeDetails: maritime security level change	
	geometry		
	areaAffected	point	
	restriction	(7) ENTRY PROHIBITED	
	identifies (role)	ID01	

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	cartographicText (role)	
TextPlacement (ID02)	text	
	textJustification	right
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) The geometry does not exist.

Example 2

Message element	Example 2
1. Message series identifier	NAVAREA XI 111/22
2. General area	JAPAN.
3. Locality	THE GOVERNMENT OF JAPAN ANNOUNCES PUBLICLY THAT IT SETS
4. Chart number	MARITIME SECURITY LEVEL 1. FOR DETAILS, CALL SOLAS
5. Key subject	CONVENTION IMPLEMENTATION OFFICE,
6. Geographical position	PHONE: 81-3-5253-8071.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: JAPAN
	locality	localityIdentifier	
		locationName	language: eng
			text:
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 111 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
NWPreambleContent	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	security	
	intService:	Y	
NavigationalWarn Part (ID01)	header (role)	ID00	
	theWarningPart (role)	ID01	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: THE GOVERNMENT OF JAPAN ANNOUNCES PUBLICLY THAT IT SETS MARITIME SECURITY LEVEL 1. FOR DETAILS, CALL SOLAS CONVENTION IMPLEMENTATION OFFICE, PHONE: 81-3-5253-8071. NavwarnTypeDetails: maritime security level change	
	geometry		

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	areaAffected	point
	restriction	
	Identifies (role)	ID01
	cartographicText (role)	
TextPlacement (ID02)	text	
	textJustification	right
	geometry	
	flipBearing	
References	ScaleMinimum	
	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

Example 3

Message element	Example 3
1. Message series identifier	SUBAREA I 49/22
2. General area	SWEDEN.
3. Locality	HEIGHTENED ISPS SECURITY LEVEL.
4. Chart number	THE SWEDISH GOVERNMENT HAS DECIDED THAT ALL SHIPS IN
5. Key subject	SWEDISH PORTS OR IN SWEDISH TERRITORIAL WATERS ABOUT TO
6. Geographical position	ENTER A SWEDISH PORT, SHALL APPLY SECURITY LEVEL 2.
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SWEDEN
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: SW nameOfSeries: SUBAREA I productionAgency: SW warningIdentifier: warningNumber: 111 warningType: (3) sub-area navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
		navwarnTypeGeneral:	security
	intService:	Y	
NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: HEIGHTENED ISPS SECURITY LEVEL. THE SWEDISH GOVERNMENT HAS DECIDED THAT ALL SHIPS IN SWEDISH PORTS OR IN SWEDISH TERRITORIAL WATERS ABOUT TO	

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		ENTER A SWEDISH PORT, SHALL APPLY SECURITY LEVEL 2. NavwarnTypeDetails: maritime security level change
	geometry	
	areaAffected	point
	restriction	
	Identifies (role)	
TextPlacement (ID02)	cartographicText (role)	
	text	
	textJustification	right
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

Example 4

Message element	Example 3
1. Message series identifier	NAVAREA VI 285/22
2. General area	
3. Locality	
4. Chart number	ARGENTINA.
5. Key subject	THE ARGENTINE GOVERNMENT HAS SET MARITIME SECURITY LEVEL 3 FOR ALL PORTS. ALL SHIPS ENTERING ARGENTINA WATERS OR PORTS ARE REQUIRED TO MAINTAIN AN ARMED SECURITY WATCH.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ARGENTINA
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: AR nameOfSeries: NAVAREA VI productionAgency: AR warningIdentifier: warningNumber: 852 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:	security	
NWPreambleContent	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: THE ARGENTINE GOVERNMENT HAS SET MARITIME SECURITY LEVEL	

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		3 FOR ALL PORTS. ALL SHIPS ENTERING ARGENTINA WATERS OR PORTS ARE REQUIRED TO MAINTAIN AN ARMED SECURITY WATCH. NavwarnTypeDetails: maritime security level change
	geometry	
	areaAffected	point
	restriction	
	Identifies (role)	
TextPlacement (ID02)	cartographicText (role)	
	text	
	textJustification	right
	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	N
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

All security navigational warnings lack geographic representation

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Miscellaneous

In-Force Bulletin

Message element	Example 1
1. Message series identifier	NAVAREA I 022/22
2. General area	1. NAVAREA I WARNINGS IN FORCE AT 041000 UTC MAR
3. Locality	2022:
4. Chart number	
5. Key subject	2021 SERIES: 031.
6. Geographical position	2022 SERIES: 020, 021, 022.
7. Amplifying remarks	
8. Cancellation details	NOTES: A. TEXTS OF NAVAREA I WARNINGS ISSUED EACH WEEK ARE PUBLISHED IN WEEKLY EDITIONS OF THE ADMIRALTY NOTICES TO MARINERS BULLETIN (ANMB). B. NAVAREA I WARNINGS LESS THAN 42 DAYS OLD (020/22 ONWARD) ARE PROMULGATED VIA ENHANCED GROUP CALL (EGC) AND/OR RELEVANT NAVTEX TRANSMITTERS. C. THE COMPLETE TEXTS OF ALL IN-FORCE NAVAREA I WARNINGS, INCLUDING THOSE WHICH ARE NO LONGER BEING BROADCAST, ARE REPRINTED IN SECTION III OF ANMB IN WEEKS 1, 13, 26 AND 39 AND ARE ALSO AVAILABLE FROM THE UKHO WEBSITE AT: WWW.ADMIRALTY.CO.UK/RNW. ALTERNATIVELY, THESE MAY BE REQUESTED BY E-MAIL FROM NAVAREA I CO-ORDINATOR AT: NAVWARNINGS@UKHO.GOV.UK

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text:NAVAREA I
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 22 warningType: (9) NAVAREA in force bulletin year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate		20220101T000000Z
	navwarnTypeGeneral:		
NWPreambleContent	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
	TheReferences (role)	ID02, ID03, ID04, ID 05	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: 1.NAVAREA I WARNINGS IN FORCE AT 04100 UTC MAR 2022 NOTES:	

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		A. TEXTS OF NAVAREA I WARNINGS ISSUED EACH WEEK ARE PUBLISHED IN WEEKLY EDITIONS OF THE ADMIRALTY NOTICES TO MARINERS BULLETIN (ANMB). B. NAVAREA I WARNINGS LESS THAN 42 DAYS OLD (020/22 ONWARD) ARE PROMULGATED VIA ENHANCED GROUP CALL (EGC) AND/OR RELEVANT NAVTEX TRANSMITTERS. C. THE COMPLETE TEXTS OF ALL IN-FORCE NAVAREA I WARNINGS, INCLUDING THOSE WHICH ARE NO LONGER BEING BROADCAST, ARE REPRINTED IN SECTION III OF ANMB IN WEEKS 1, 13, 26 AND 39 AND ARE ALSO AVAILABLE FROM THE UKHO WEBSITE AT: WWW.ADMIRALTY.CO.UK/RNW. ALTERNATIVELY, THESE MAY BE REQUESTED BY E-MAIL FROM NAVAREA I CO-ORDINATOR AT: NAVWARNINGS@UKHO.GOV.UK NavwarnTypeDetails:
	geometry	
	areaAffected	point
	restriction	
	Identifies (role)	
TextPlacement	cartographicText (role)	
	text	
	textJustification	right
	geometry	
	flipBearing	
	ScaleMinimum	
References (ID02)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 31 warningType: (4) NAVAREA navigational warning year: 21
References (ID03)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 20 warningType: (4) NAVAREA navigational warning year: 22
References (ID04)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 21 warningType: (4) NAVAREA navigational warning year: 21
References (ID05)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I

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		productionAgency: GB warningIdentifier: warningNumber 22 warningType: (4) NAVAREA navigational warning year: 21
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Discussion Points:

- 1) In this example, we are using References and not multiple NavigationalWarningFeaturePart. S-124 can express the required text in the message preamble.
- 2) This message will not plot on ECDIS; instead, ECDIS will check the NW datasets against the existing information in the system, cancelling those that are no longer valid and flag those which are missing.
 - a. If there is no way to display on an ECDIS how would this information get to the mariner?

In-Force Bulletin

Message element	Example 1
1. Message series identifier	NAVAREA II 085/22
2. General area	1. NAVAREA II WARNINGS IN FORCE AT 271630 UTC FEB 22:
3. Locality	2020 SERIES: 083,
4. Chart number	2021 SERIES: 251, 476,
5. Key subject	2022 SERIES: 020, 027, 040, 041, 046, 057, 066, 069, 071,
6. Geographical position	073, 079, 080, 082, 083, 085.
7. Amplifying remarks	2. ONLY THOSE LESS THAN 42 DAYS OLD ARE DAILY BROADCAST ON
8. Cancellation details	SAFETY NET AT 04H30 AND 16H30 UTC.
	3. THE COMPLETE TEXTS OF ALL IN-FORCE NAVAREA II WARNINGS ARE
	AVAILABLE FROM THE SHOM WEBSITE AT: DIFFUSION.SHOM.FR
	4. ALTERNATIVELY, THESE MAY BE REQUESTED BY E-MAIL AT:
	COORD.NAVAREA2@SHOM.FR
	5. CANCEL NAVAREA II 067/22.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text:NAVAREA II
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 85 warningType: (9) NAVAREA in force bulletin year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate		
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:		
	intService:	Y	
	header (role)	ID00	
	NWPreambleContent		

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	theWarningPart (role)	ID01
	TheReferences (role)	ID02, ID03, ID04, ID05, ID06, ID07, ID08, ID09, ID10, ID11, ID12, ID13, ID14, ID15, ID16, ID17, ID18, ID19, ID20, ID21
NavigationalWarn Part (ID01)	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	text: 1.NAVAREA II WARNINGS IN FORCE AT 271630 UTC 2022. 2.ONLY THOSE LESS THAN 42 DAYS OLD ARE DAILY BROADCAST ON SAFETYNET AT 04H30 AND 16H30 UTC. 3.THE COMPLETE TEXTS OF ALL IN-FORCE NAVAREA II WARNINGS ARE AVAILABLE FROM THE SHOM WEBSITE AT DIFFUSION.SHOM.FR 4.ALTERNATIVELY, THESE MAY BE REQUESTED BY -MAIL AT COORD.NAVAREA2@SHOM.FR 5.CANCEL NAVAREA II 67/22. NavwarnTypeDetails:
	geometry	
	areaAffected	point
	restriction	
	Identifies (role)	
	cartographicText (role)	
TextPlacement	text	
	textJustification	right
	geometry	
	flipBearing	
	ScaleMinimum	
References (ID02)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 83 warningType: (4) NAVAREA navigational warning year: 20
References (ID03)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 251 warningType: (4) NAVAREA navigational warning year: 21
References (ID04)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 476 warningType: (4) NAVAREA navigational warning year: 21
References (ID05)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II

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		productionAgency: FR warningIdentifier: warningNumber 20 warningType: (4) NAVAREA navigational warning year: 22
References (ID06)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 27 warningType: (4) NAVAREA navigational warning year: 22
References (ID07)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 40 warningType: (4) NAVAREA navigational warning year: 22
References (ID08)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 41 warningType: (4) NAVAREA navigational warning year: 22
References (ID09)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 46 warningType: (4) NAVAREA navigational warning year: 22
References (ID10)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 57 warningType: (4) NAVAREA navigational warning year: 22
References (ID11)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 66 warningType: (4) NAVAREA navigational warning year: 22
References (ID12)	noMessageOnHand	N
	ReferenceCategory	In force (5)

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	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 69 warningType: (4) NAVAREA navigational warning year: 22
References (ID13)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 71 warningType: (4) NAVAREA navigational warning year: 22
References (ID14)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 73 warningType: (4) NAVAREA navigational warning year: 22
References (ID15)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 79 warningType: (4) NAVAREA navigational warning year: 22
References (ID16)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 80 warningType: (4) NAVAREA navigational warning year: 22
References (ID17)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 82 warningType: (4) NAVAREA navigational warning year: 22
References (ID19)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 83 warningType: (4) NAVAREA navigational warning year: 22

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References (ID20)	noMessageOnHand	N
	ReferenceCategory	In force (5)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber 85 warningType: (4) NAVAREA navigational warning year: 21
References (ID21)	noMessageOnHand	N
	ReferenceCategory	Cancellation (1)
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 67 warningType: (4) NAVAREA navigational warning year: 22

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No Warning Message

Message element	Example 1
1. Message series identifier	NAVAREA XIII
2. General area	SELF CANCELLING. NO NAVAREA XIII WARNINGS TO BROADCAST AT
3. Locality	282130 UTC JAN 14.
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng
			text: NAVAREA XIII
	messageSeriesIdentifier	country: RU nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: warningType: (5) NAVAREA no warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20140128TxxxxxxZ	
	publicationDate	201401028T213000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID02	
NWReferences	theWarning (role)	ID00	
	theReferences (role)	ID01	
References (ID01)	Message series identifier		
	No MessageOnHand	true	
	referenceCategory	in-force (5)	

Discussion Points:

- 1) This is a self-cancelling NW, so what do we report for the time within the cancellationDate field?
- 2) Does this need to be plotted on ECDIS? If so, is the NAVAREA polygon required for the geometry?
- 3) How should ECDIS handle self-cancelling NWs?

Commented [ST-EJNUC2]: Warning removed from the MSI manual, probably best done via self cancelling messages or an empty in force bulletin

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Cancellation Message:

Example 1:

Message element	Example 1
1. Message series identifier	NAVAREA VII 126/22
2. General area	CANCEL NAVAREA VII 100/22 AND THIS MSG, BAIXO RIBEIRO
3. Locality	LIGHT, NORMAL CONDITIONS RESTORED.
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: WESTERN NORTH ATLANTIC
	locality	localityIdentifier	
		locationName	language: eng text: FLORDIA
	messageSeriesIdentifier	country: ZA nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 126 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20221210T000000Z	
	publicationDate	20221210T000000Z	
	navwarnTypeGeneral:		
NWPPreambleContent	intService:	Y	
References	noMessageOnHand	N	
	ReferenceCategory	Cancellation (1)	
	messageSeriesIdentifier	country: ZA nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 100 warningType: (4) NAVAREA navigational warning year: 22	

Discussion Points:

- Cancellation and in-force bulletin messages do not require a NavigationalWarningFeaturePart.
 - Would one be needed to add the additional cancellation content within S-53?
- One function of a Navigational Warning is for dataset management (i.e. cancellations and in-force bulletins).
- ECDIS will not plot this NW; its reference will be to the NW being cancelled. If plotting is required, the ECDIS could extract it as a report.
- ECDIS will simply remove the cancelled NW from the display, but a record of the NW and its cancellation would be maintained in the system.
- What is the standard for the date/time to be used in the cancellationDate for a self cancelling NW?
 - Have the cancel time match the publication time?

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Example 2:

Message element	Example 2
1. Message series identifier	NAVAREA IV 74/14
2. General area	RADIO SERVICES.
3. Locality	1. U.S. COAST GUARD WILL TERMINATE HF RADIOTELEX (SITOR)
4. Chart number	SERVICES FOR COLLECTION OF AMVER SHIP POSITION REPORTS AND
5. Key subject	OF METEOROLOGICAL OBSERVATION FROM:
6. Geographical position	A. COMMUNICATIONS AREA MASTER STATION ATLANTIC (CAMSLANT
7. Amplifying remarks	NMN) AND COMMUNICATIONS STATION KODIAK (NOJ) EFFECTIVE
8. Cancellation details	312359 UTC MAR 14.
	B. COMMUNICATIONS AREA MASTER STATION PACIFIC (CAMSPAC
	NMC/NMO) AND COMMUNICATIONS STATION GUAM (NRV) WILL
	CONTINUE AT LEAST UNTIL 302359 UTC SEP 14.
	AMVER AND NOAA METEOROLOGICAL REPORTS WILL CONTINUE TO
	BE RECEIVED AT NO CHARGE THRU SHIPCOM HF RADIOTELEX
	(NBDP) SERVICE VIA STATIONS KLB NEAR SEATTLE AND WLO NEAR
	MOBILE, ALABAMA, AND NOAA'S SEAS (SHIPBOARD ENVIRONMENTAL
	(DATA) ACQUISITION SYSTEM) PROGRAM THROUGH INMARSAT-C.
	AMVER REPORTS MAY ALSO BE SENT AT NO CHARGE THRU GLOBE
	WIRELESS.BROADCAST OF MARITIME SAFETY INFORMATION BY HF
	SITOR (HF NAVTEX) WILL NOT BE AFFECTED BY THIS ACTION
	2. CANCEL THIS MSG 010001 UTC OCT 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA IV
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 74 warningType: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate	20141001T000100Z	
	publicationDate	20140101T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	HF services	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: 1. U.S. COAST GUARD WILL TERMINATE HF RADIOTELEX (SITOR) SERVICES FOR COLLECTION OF AMVER SHIP POSITION REPORTS AND OF METEOROLOGICAL OBSERVATION FROM: A. COMMUNICATIONS AREA MASTER STATION ATLANTIC (CAMSLANT NMN) AND COMMUNICATIONS STATION KODIAK (NOJ) EFFECTIVE 312359 UTC MAR 14. AMVER AND NOAA METEOROLOGICAL REPORTS WILL CONTINUE TO BE RECEIVED AT NO	

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		CHARGE THRU SHIPCOM HF RADIOTELEX (NBDP) SERVICE VIA STATIONS KLB NEAR SEATTLE AND WLO NEAR MOBILE, ALABAMA, AND NOAA'S SEAS (SHIPBOARD ENVIRONMENTAL (DATA) ACQUISITION SYSTEM) PROGRAM THROUGH INMARSAT-C. AMVER REPORTS MAY ALSO BE SENT AT NO CHARGE THRU GLOBE WIRELESS. BROADCAST OF MARITIME SAFETY INFORMATION BY HF SITOR (HF NAVTEX) WILL NOT BE AFFECTED BY THIS ACTION
	geometry	(polygon 1) CAMSLANT NMN (polygon 2) STATION KODIAK (NOJ)
	areaAffected	
NavigationalWarningFeaturePart (ID02)	restriction	
	warningHazardType	HF services
	warningHazardType*	
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 1. U.S. COAST GUARD WILL TERMINATE HF RADIOTELEX (SITOR) SERVICES FOR COLLECTION OF AMVER SHIP POSITION REPORTS AND OF METEOROLOGICAL OBSERVATIONS FROM COMMUNICATIONS AREA MASTER STATION PACIFIC (CAMSPAC NMC/NMO). COMMUNICATIONS STATION GUAM (NRV) WILL CONTINUE AT LEAST UNTIL 302359 UTC SEP 14. AMVER AND NOAA METEOROLOGICAL REPORTS WILL CONTINUE TO BE RECEIVED AT NO CHARGE THRU SHIPCOM HF RADIOTELEX (NBDP) SERVICE VIA STATIONS KLB NEAR SEATTLE AND WLO NEAR MOBILE, ALABAMA, AND NOAA'S SEAS (SHIPBOARD ENVIRONMENTAL (DATA) ACQUISITION SYSTEM) PROGRAM THROUGH INMARSAT-C. AMVER REPORTS MAY ALSO BE SENT AT NO CHARGE THRU GLOBE WIRELESS. BROADCAST OF MARITIME SAFETY INFORMATION BY HF SITOR (HF NAVTEX) WILL NOT BE AFFECTED BY THIS ACTION
	geometry	(polygon 3) (CAMSPAC NMC/NMO)
	areaAffected	

Discussion Points:

In this example, the S-124 dataset should create two distinct navigationalWarningFeatureParts.

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Permanent Time Zone Change:

Message element	Example 1
1. Message series identifier	NAVAREA XV 55/14
2. General area	DUE TO TIME CHANGE CARRIED OUT 300001 UTC MAR 14 CHILEAN
3. Locality	STANDARD TIME HAS CHANGED TO TIME ZONE (UTC+4). SHIPS SHOULD
4. Chart number	COMPLY WITH REGULATIONS OF NATIONAL MARITIME AUTHORITY IN
5. Key subject	THE FOLLOWING WEB SITE: WWW.SHOA.MIL.CL
6. Geographical position	(SERVICIOS/RADIOAVISOS/RADIOWARNINGS/PROVISIONS OF THE
7. Amplifying remarks	NATIONAL MARITIME AUTHORITY). ALL SHIPS ARE REQUESTED TO
8. Cancellation details	SEND IN CLEAR TEXT, WIND, SEA AND ATMOSPHERIC PRESSURE
	REPORTS, TO CHILREP.

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XV
	messageSeriesIdentifier	country: CL nameOfSeries: NAVAREA xv productionAgency: CL warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
NWPreableContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	regulations	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DUE TO TIME CHANGE CARRIED OUT 30001 UTC MAR 13 CHILEAN STANDARD TIME HAS CHANGED TO TIME ZONE (UTC+4). SHIPS SHOULD COMPLY WITH REGULATIONS OF NATIONAL MARITIME AUTHORITY IN THE FOLLOWING WEB SITE: WWW.SHOA.MIL.CL (SERVICES RADIOAVISOS, RADIOWARNINGS, PROVISIONS OF THE NATIONAL MARITIME AUTHORITY). ALL SHIPS ARE REQUESTED TO SEND IN CLEAR TEXT, WIND SEAN AND ATOMSPHERIC PRESSURE REPORTS, TO CHILREP.	
	geometry	(polygon of Chile coast waters)?	
	areaAffected		

Commented [ST-EJNUC3]:

Commented [ST-EJNUC4R3]: Recommend deletion, warnings no longer within the MSI manual

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Website out of Service

Message element	Example 1
1. Message series identifier	NAVAREA VIII 43/22
2. General area	NAVAREA VIII WEBSITE.
3. Locality	1. NAVAREA VIII WEBSITE UNUSABLE
4. Chart number	122300 UTC TO 132300 UTC NOV 2022.
5. Key subject	FOR URGENT SERVICE, CONTACT NAVAREA VIII,
6. Geographical position	PHONE: 91 135 274 7365,
7. Amplifying remarks	FAX: 91 135 274 8373,
8. Cancellation details	E-MAIL: INHO_MARINESAFETY@DATAONE.IN.
	2.CANCEL THIS MSG 140001 UTC NOV 2022.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text:
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 43 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT ____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20221114T000100Z	
	publicationDate	20220101T000000Z	
	navwarnTypeGeneral:		
NWPreambleContent	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange	DateEnd: 20221113 DateStart: 20221112 timeOfDayEnd: 230000Z timeOfDayStart: 230000Z	
	warningInformation	text: NAVAREA VIII WEBSITE UNUSABLE 122300 UTC TO 132300 UTC NOV 2022. FOR URGENT SERVICE, CONTACT NAVAREA VIII, PHONE: 91 135 274 7365, FAX: 91 135 274 8373, E-MAIL: INHO_MARINESAFETY@DATAONE.IN . NavwarnTypeDetails:	
	geometry		
	areaAffected	point	
	restriction		
	Identifies (role)	ID01	
	cartographicText (role)		
TextPlacement (ID02)	text		
	textJustification		

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	geometry	
	flipBearing	
	ScaleMinimum	
References	noMessageOnHand	
	ReferenceCategory	
	messageSeriesIdentifier	

Discussion Points:

- 1) This is about a website – so is the geometry linked to the NAVAREA?

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Space Weather

Message element	Example 1
1. Message series identifier	NAVAREA IV 43/22
2. General area	
3. Locality	SPACE WEATHER.
4. Chart number	
5. Key subject	1. STRONG SOLAR RADIATION STORM IN PROGRESS UNTIL
6. Geographical position	081000 UTC MAR 2022. RADIO AND SATELLITE
7. Amplifying remarks	NAVIGATION SERVICES MAY BE AFFECTED.
8. Cancellation details	2. CANCEL THIS MSG 081100 UTC MAR 2022.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text:
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 43 warningType: (4) NAVAREA navigational warning year: 22	
	affectedChartPublications	chartAffected: ____ chartPublicationIdentifier: internationalChartAffected: INT____ language: publicationAffected:	
	NAVWARNtitle	Language: Text:	
	cancellationDate	20220308T110000Z	
	publicationDate	20220303T000000Z	
	navwarnTypeGeneral:		
NWPreambleContent	intService:	Y	
	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarn Part (ID01)	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	text: STRONG SOLAR RADIATION STORM IN PROGRESS UNTIL 081000 UTC MAR 2022. RADIO AND SATELLITE NAVIGATION SERVICES MAY BE AFFECTED. NavwarnTypeDetails:	
	geometry		
	areaAffected	point	
	restriction		
	Identifies (role)	ID01	
	cartographicText (role)		
TextPlacement (ID02)	text		
	textJustification		
	geometry		
	flipBearing		
	ScaleMinimum		
References	noMessageOnHand		
	ReferenceCategory		
	messageSeriesIdentifier		

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Radiation Hazard

Message element	Example 1
1. Message series identifier	NAVAREA XI 1167/11
2. General area	HONSHU, E COAST. FUKUSHIMA PREF COAST.
3. Locality	DANGEROUS AREA DESIGNATED AT 150230 UTC MAR 11. WITHIN
4. Chart number	10 KILOMETRES OF FUKUSHIMA NR 1 NUCLEAR POWER PLANT,
5. Key subject	37-25.5N 141-02.0E. SHIPS ARE ADVISED TO KEEP CLEAR. IN ADDITION,
6. Geographical position	RESTRICTED AREA, WITHIN 20 KILOMETRES OF FUKUSHIMA NR 1
7. Amplifying remarks	NUCLEAR POWER PLANT BASED ON SPECIAL MEASURES CONCERNING
8. Cancellation details	NUCLEAR EMERGENCY PREPAREDNESS AT 211500 UTC APR 11.

Commented [ST-EJNUC5]: Warning no longer in the MSI manual, recommend deletion

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XI
	locality	localityIdentifier	
		locationName	language: eng text: HONSHU, E COAST
	locality	localityIdentifier	
		locationName	language: eng text: FUKUSHIMA PREF COAST
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 1167 warningType: (4) NAVAREA navigational warning year: 11	
	affectedChartPublications	chartAffected: internationalChartAffected: INT	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction	8	
	warningHazardType	Restricted area	
	warningHazardType*	Hazardous area	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DANGEROUS AREA DESIGNATED AT 150230 UTC MAR 11. WITHIN 10 KILOMETRES OF FUKUSHIMA NR 1 NUCLEAR POWER PLANT. SHIPS ARE ADVISED TO KEEP CLEAR. IN ADDITION, RESTRICTED AREA, WITHIN 20 KILOMETRES OF FUKUSHIMA NR 1 NUCLEAR POWER PLANT BASED ON SPECIAL MEASURES CONCERNING NUCLEAR EMERGENCY PREPAREDNESS AT 211500 UTC APR 11.	
	Geometry (1)	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 37-25.5N 141-02.0E (center point) interpolation=circularArcCenterPointWithRadius radius=20NM	
	areaAffected		

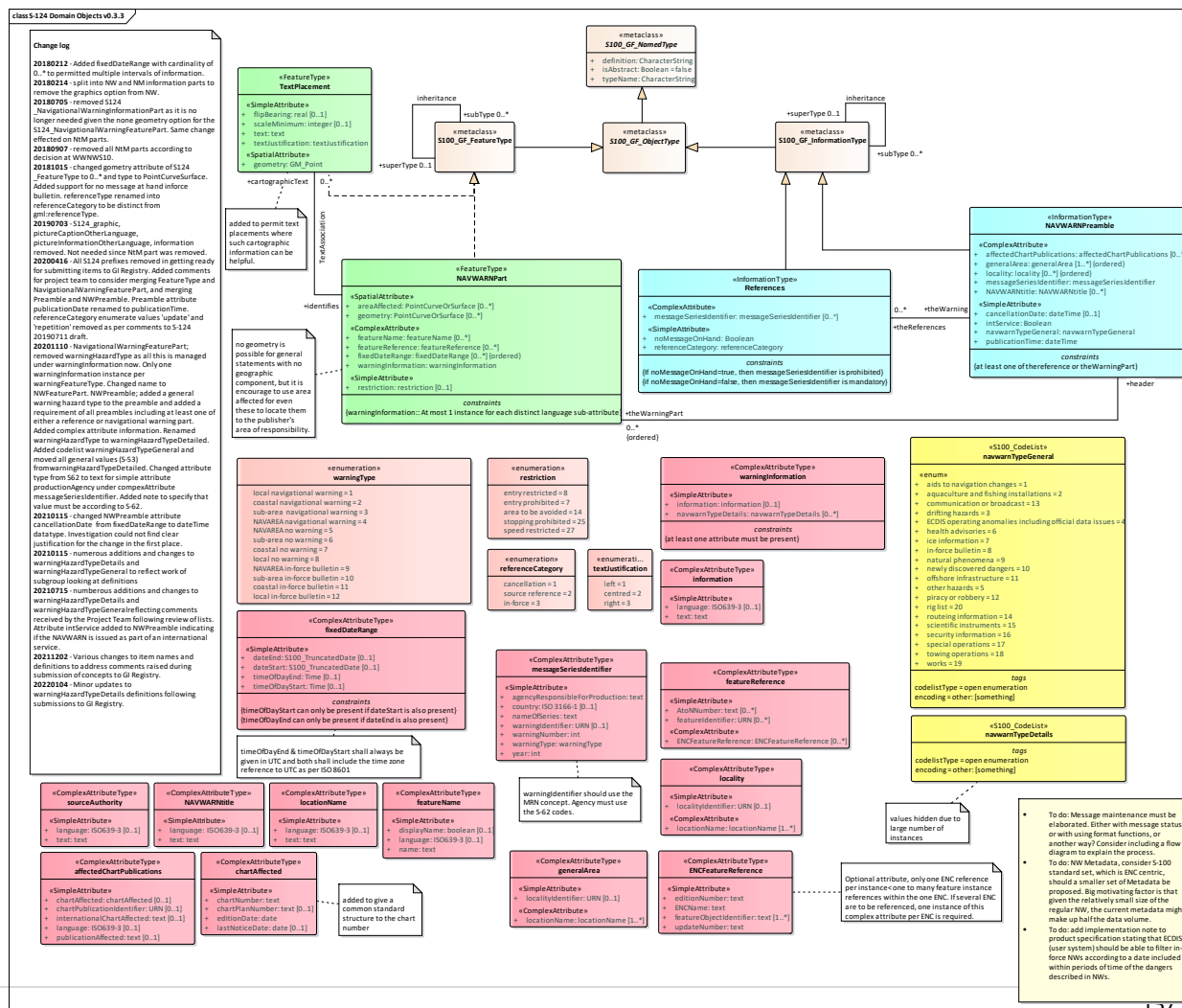
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	Geometry (2)	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 24-17.8S 042- 39.8W (center point) interpolation=circularArcCenterPointWithRadius radius=10NM
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Annex B – S-124 data model (@2022-06-09)

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