

S-124 Training Manual for NAVAREA Coordinators

Annex B: S53 navigational warnings by type of hazard encoded as S-124

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

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA XIII 145/14
2. General area	SEA OF OKHOTSK.
3. Locality	WESTERN PART.
4. Chart number	CHART _____ (INT _____).
5. Key subject	ISOLATED DANGER BUOY 54-49.9N 142-04.1E MISSING.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: Sea of Okhotsk	
	locality	localityIdentifier		
		locationName	language: eng text: Western part	
	messageSeriesIdentifier	country: ru nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: 145 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
theWarningPart (role)		ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	buoys		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: ISOLATED DANGER BUOY MISSING		
	geometry	54-49.9N 142-04.1E		
	areaAffected			
	TextAssociation	Identifies (role)	ID01	
cartographicText (role)		ID02		
TextPlacement (ID02)	text	isolated danger buoy		
	textJustification	right		
	geometry	54-49.9N 142-04.1E		

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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 (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 "MSI" is envisioned to plot on the lat/long of the buoy, but in this example we can use a TextPlacement to insert the name of the buoy to the right of the location.
- 6) Here we also see how the NWPreamble 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

Message element	Example 2
1. Message series identifier	NAVAREA X 346/14
2. General area	AUSTRALIA NORTH EAST COAST.
3. Locality	ARCHER POINT.
4. Chart number	CHART _____ (INT _____).
5. Key subject	LIGHT 15-35.6S 145-19.7E UNRELIABLE.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: AUSTRALIA NORTH EAST COAST
	locality	localityIdentifier	
		locationName	language: eng text: ARCHER POINT
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber:346 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aid to navigation	
	warningHazardType*	lights and fog signals	
	featureName		
	featureReference	ARCHER POINT LIGHT	
	fixedDateRange		
	warningInformation	headline: language: text: UNRELIABLE.	
	geometry	15-35.6S 145-19.7E	
	areaAffected		

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

Discussion Points:

- 1) For **generalArea** is this << Australia. North East Coast. >> (which would necessitate two generalAreas) or << Australia, North East Coast. >> (one generalArea)?
- 2) For warningHazardType, as the S-124 list is getting extensive, WWNWS should look at streamlining the hierarchy, with key Subjects, such as Aids to Navigation and optional instances, such as lights and fog signals.
 - a) If no 'optional instance' is available on the list, S-124 will permit additional content using the structure: other: xxxx.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA I 23/14
2. General area	SOUTHERN NORTH SEA.
3. Locality	VICTOR GAS FIELD.
4. Chart number	CHART (INT _____).
5. Key subject	PLATFORM 49/22-JD 53-19.6N 002-21.8E FOG SIGNAL INOPERATIVE.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: SOUTHERN NORTH SEA	
	locality	localityIdentifier		
		locationName	language: eng text: VICTOR GAS FIELD	
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 23 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	aids to navigation		
	warningHazardType*	lights & fog signals		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: PLATFORM 49/22-JD. FOG SIGNAL INOPERATIVE.		
	geometry	53-19.6N 002-21.8E		
	areaAffected			

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA VII 345/14
2. General area	MOZAMBIQUE CHANNEL.
3. Locality	PORT OF MAPUTO.
4. Chart number	CHART (INT _____).
5. Key subject	BAIXO RIBEIRO LIGHT 25-54.6S 032-48.1E UNLIT.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: MOZAMBIQUE CHANNEL
	locality	localityIdentifier	
		locationName	language: eng text: PORT OF MAPUTO
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 345 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aids to navigation	
	warningHazardType*	lights & fog signals	
	featureName	BAIXO RIBEIRO LIGHT	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: UNLIT	
	geometry	25-54.6S 032-48.1E	
	areaAffected		

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.

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Example 5

Message element	Example 1
1. Message series identifier	NAVAREA IX 12/14
2. General area	RED SEA, EGYPT.
3. Locality	GULF OF AQABA, STRAIT OF TIRAN.
4. Chart number	CHART _____(INT.).
5. Key subject	WEST CARDINAL BUOY 27-59.4N 034-29.1E RACON INOPERATIVE.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: RED SEA, EGYPT
	locality	localityIdentifier	
		locationName	language: eng text: GULF OF AQABA
	locality	localityIdentifier	
		locationName	language: eng text: STRAIT OF TIRAN
	messageSeriesIdentifier	country: PA nameOfSeries: NAVAREA IX productionAgency: PA warningIdentifier: warningNumber: 12 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aids to navigation	
	warningHazardType*	RACON	
	featureName	WEST CARDINAL BUOY	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: RACON INOPERATIVE	
	geometry	27-59.4N 034-29.1E	
	areaAffected		

Discussion Points:

- 1) The S-124 production system could be configured to recognize the warningHazardType and instance of RACON, but the warning information would still need to display the word "RACON" to avoid ambiguity.

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

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA III 45/14
2. General area	TUNISIA, EAST COAST.
3. Locality	RADE DE SFAX.
4. Chart number	CHART (INT).
5. Key subject	WRECK REPORTED IN VICINITY 34-41.5N 010-54.0E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: TUNISIA, EAST COAST
	locality	localityIdentifier	
		locationName	language: eng text: RADE DE SFAX
	messageSeriesIdentifier	country: SP nameOfSeries: NAVAREA III productionAgency: SP warningIdentifier: warningNumber: 45 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	dangerous wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WRECK REPORTED IN VICINITY.	
	geometry	34-41.5N 010-54.0E	
areaAffected			

Discussion Points:

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

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA I 110/14
2. General area	SOUTHERN NORTH SEA.
3. Locality	SWARTE BANK.
4. Chart number	CHART (INT _).
5. Key subject	WRECK LOCATED 53-26.02N 002-08.40E
6. Geographical position	MARKED BY NORTH, SOUTH, EAST AND TWO WEST CARDINAL
7. Amplifying remarks	LIGHTBUOYS, THE MOST WESTERLY ONE FITTED WITH RACON MO(D).
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTHERN NORTH SEA
	locality	localityIdentifier	
		locationName	language: eng text: SWARTE BANK
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 110 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
theWarningPart (role)		ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Dangerous Wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WRECK LOCATED. MARKED BY NORTH, SOUTH, EAST AND TWO WEST CARDINAL LIGHTBUOYS. THE MOST WESTERLY ONE FITTED WITH RACON MO(D).	
	geometry	53-26.02N 002-08.40E	
	areaAffected		

Discussion Points:

- 1) Without detailed positions for the five marking buoys, we're unable to develop a detailed S-124 representation.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XVI 95/14
2. General area	PERU.
3. Locality	PAITA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	WRECK LOCATED 05-04.8N 081-06.7W. EMERGENCY WRECK MARKING
6. Geographical position	BUOY ESTABLISHED 0.25 MILES SOUTH, ALTERNATING OCCULTING BLUE
7. Amplifying remarks	AND YELLOW THREE SECONDS.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: PERU
	locality	localityIdentifier	
		locationName	language: eng text: PAITA
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 110 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	dangerous wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WRECK LOCATED. EMERGENCY WRECK MARKING BUOY ESTABLISHED 0.25 MILES SOUTH, ALTERNATING OCCULTING BLUE AND YELLOW THREE SECONDS.	
	geometry	05-04.8N 081-06.7W	
	areaAffected		

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA V 56/14
2. General area	BRAZIL, SOUTH COAST.
3. Locality	APPROACHES TO BAIA DE GUANABARA.
4. Chart number	CHART (INT___).
5. Key subject	TUG ANGLIAN MONARCH STANDING BY WRECK 23-01.8S 043- 08.3W. TUG IS EXHIBITING FLASHING BLUE LIGHT.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: BRAZIL, SOUTH COAST
	locality	localityIdentifier	
		locationName	language: eng text: APPROACHES TO BAIA DE GUANABARA
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 56 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT___	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	dangerous wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: TUG ANGLIAN MONARCH STANDING BY LOCATED WRECK. TUG IS EXHIBITING FLASHING BLUE LIGHT.	
	geometry	23-01.8S 043- 08.3W	
	areaAffected		

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA VI 16/14
2. General area	ARGENTINA, EAST COAST.
3. Locality	VALDES PENINSULA.
4. Chart number	CHART _____(INT _____).
5. Key subject	WRECK OF FISHING VESSEL REPORTED 42-05.75S 063-22.00W.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ARGENTINA, EAST COAST
	locality	localityIdentifier	
		locationName	language: eng text: VALDES PENINSULA
	messageSeriesIdentifier	country: AR nameOfSeries: NAVAREA VI productionAgency: AR warningIdentifier: warningNumber: 16 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	dangerous wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WRECK OF FISHING VESSEL REPORTED.	
	geometry	42-05.75S 063-22.00W	
	areaAffected		

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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

Message element	Example 1
1. Message series identifier	
2. General area	NAVAREA IV 210/14
3. Locality	JAMAICA, SOUTHWARDS.
4. Chart number	PEDRO BANK.
5. Key subject	CHART 26050
6. Geographical position	SOUTHWEST ROCK LIGHT, FL (3) 10 SECONDS 7 METRES 5M
7. Amplifying remarks	ESTABLISHED 16-47.55N 078-11.48W.
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: JAMAICA, SOUTHWARDS
	locality	localityIdentifier	
		locationName	language: eng text: PEDRO BANK
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 210 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: 26050 internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aid to navigation	
	warningHazardType*		
	featureName	SOUTHWEST ROCK	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: LIGHT, FL (3) 10 SECONDS 7 METRES 5M ESTABLISHED	
	geometry	16-47.55N 078-11.48W	
	areaAffected		

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA V 23/14
2. General area	BRAZIL, SOUTH COAST.
3. Locality	ILHA RASA SOUTHEASTWARD.
4. Chart number	CHART (INT).
5. Key subject	EIGHT UNLIT LARGE SPHERICAL ORANGE BUOYS ESTABLISHED WITHIN 1
6. Geographical position	MILE RADIUS OF 24-17.8S 042- 39.8W. EXPLORATION IN PROGRESS WITHIN
7. Amplifying remarks	THIS AREA 15 APR TO 15 MAY 14.
8. Cancellation details	CANCEL THIS MSG 160300 UTC MAY 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: BRAZIL
	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTH COAST
	locality	localityIdentifier	
		locationName	language: eng text: ILHA RASA
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREAV productionAgency: BR warningIdentifier: warningNumber: 23 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT____	
	title		
	cancellationDate	20140516T030000Z	
	publicationDate	20140401T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	hazardous area	
	warningHazardType*	buoys	
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20140515 dateStart: 20140415 timeOfDayEnd: 000000Z timeOfDayStart: 000000Z	
	warningInformation	headline: language: text: EIGHT UNLIT LARGE SPHERICAL ORANGE BUOYS ESTABLISHED. EXPLORATION IN PROGRESS WITHIN THIS AREA .	
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 24-17.8S 042- 39.8W (center point) interpolation=circularArcCenterPointWithRadius radius=1NM	
	areaAffected		

Discussion Points:

- 1) In this example the S-124 develops a polygon using the position and 1nm radius so the position content is unnecessary in the 'text' field in the warningInformation section.

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- 2) The warningHazardType hierarchy reflects that exploration is underway (hazardous area) and not the fact buoys were established. Hence, “buoys” become the optional instance.
- 3) The NAC will input a fixedDateRange so this information is no longer required in the ‘text’ area.
- 4) The cancellation date of this message is 3 hours after the fixedDateRange.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA X 15/14
2. General area	AUSTRALIA - NORTH WEST COAST.
3. Locality	PORT HEDLAND, NORTHWARDS.
4. Chart number	CHART _____ (INT _____).
5. Key subject	E2 SOUTH CARDINAL LIGHTBUOY ESTABLISHED 20-03.08S 118- 32.82E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: AUSTRALIA
	generalArea	localityIdentifier	
		locationName	language: eng text: NORTH WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: PORT HEDLAND
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber: 15 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	buoys	
	warningHazardType*		
	featureName	E2 SOUTH CARDINAL LIGHTBUOY	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: ESTABLISHED.	
	geometry	20-03.08S 118- 32.82E	
	areaAffected		

Discussion Points:

- 1) In this example the featureName is coded so that the only text necessary in the warningInformation section is the word "established".

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA I 245/14
2. General area	ENGLAND - WEST COAST.
3. Locality	LIVERPOOL APPROACH.
4. Chart number	CHART (INT _____).
5. Key subject	LIGHTBUOYS ESTABLISHED MARKING BURBO WINDFARM
6. Geographical position	CONSTRUCTION AREA.
7. Amplifying remarks	A. WEST CARDINAL 53-30.21N 003-13.56W.
8. Cancellation details	B. WEST CARDINAL 53-29.70N 003-13.79W.
	C. SOUTH CARDINAL 53-28.22N 003-11.10W.

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ENGLAND, WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: LIVERPOOL APPROACH
	locality	localityIdentifier	
		locationName	language: eng text: Burbo Windfarm
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 245 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: internationalChartAffected: INT_____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreableContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID02, ID03	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	buoys	
	warningHazardType*		
	featureName	WEST CARDINAL LIGHTBUOY	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: BUOY ESTABLISHED MARKING BURBO WINDFARM CONSTRUCTION AREA.	
	geometry	53-30.21N 003-13.56W	
areaAffected			
NavigationalWarningFeaturePart (ID02)	restriction		
	warningHazardType	buoys	
	warningHazardType*		
	featureName	WEST CARDINAL LIGHTBUOY	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: BUOY ESTABLISHED MARKING BURBO WINDFARM CONSTRUCTION AREA.	
	geometry	53-29.70N 003-13.79W	

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	areaAffected	
NavigationalWarningFeaturePart (ID03)	restriction	
	warningHazardType	buoys
	warningHazardType*	
	featureName	SOUTH CARDINAL LIGHTBUOY
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: BUOY ESTABLISHED MARKING BURBO WINDFARM CONSTRUCTION AREA.
	geometry	53-28.22N 003-11.10W
	areaAffected	

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Example 5

Message element	Example 4
1. Message series identifier	NAVAREA I 222/14
2. General area	SCOTLAND, EAST COAST
3. Locality	CHART _____ (INT _____).
4. Chart number	FIFE NESS LIGHT, 56-16.7N 002-35.2W, CHANGED TO FL(3)
5. Key subject	20 SEC 14 METRES 16 MILES
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: SCOTLAND	
	generalArea	localityIdentifier		
		locationName	language: eng text: EAST COAST	
	MessageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 222 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: internationalChartAffected: INT_		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	aid to navigation		
	warningHazardType*	lights & fog signals		
	featureName	FIFE NESS LIGHT		
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: LIGHT CHANGED TO FL(3) 20 SEC 14 METRES 16 MILES		
	geometry	56-16.7N 002-35.2W		
	areaAffected			

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?

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Example 6

Message element	Example 4
1. Message series identifier	NAVAREA I 12/14
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	

NWPPreamble (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: 14		
	affectedChartPublications	chartAffected: internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPPreambleContent	header (role)	ID00	
		theWarningPart (role)	ID01	
	NavigationalWarningFeaturePart (ID01)	restriction		
warningHazardType		aid to navigation		
warningHazardType*		Other: physical AIS		
featureName		RIFF BANK EAST LIGHTBUOY		
featureReference				
fixedDateRange				
warningInformation		headline: language: text: PHYSICAL * AIS AID TO NAVIGATION MMSI 992351072 ESTABLISHED.		
geometry		57-38.38N 003-58.15W		
areaAffected				

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.

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- 4) * Should we instruct the NACs to indicate the type of AIS (i.e. a physical unit or a virtual signal)?

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4 The presence of large unwieldy tows in congested waters

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA VII 58/14
2. General area	SOUTH ATLANTIC OCEAN.
3. Locality	CHART (INT _____).
4. Chart number	TUG RIG DELIVERER WILL TOW VESSEL AGATE ISLAND FROM RECIFE,
5. Key subject	BRAZIL TO CAPE TOWN, COMMENCING 09 JUN 14, ETA CAPE TOWN 09
6. Geographical position	JUL 14. LENGTH OF TOW 550 METRES WIDE BERTH REQUESTED.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTH ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: CAPE TOWN
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 58 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140601T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	unwieldy tow	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20140709 dateStart: 20140609 timeOfDayEnd: 000000Z timeOfDayStart: 000000Z	
	warningInformation	headline: language: text: TUG RIG DELIVERER WILL TOW VESSEL AGATE ISLAND FROM RECIFE, BRAZIL TO CAPE TOWN, SOUTH AFRICA. LENGTH OF TOW 550 METRES, WIDE BERTH REQUESTED.	
	geometry	(curve from Recife to Cape Town)?	
	areaAffected		
	TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02, ID03	
TextPlacement (ID02)	text	From (Recife)	
	textJustification	right	
	geometry	(departure position lat/long)	
TextPlacement (ID03)	text	To (Cape Town)	
	textJustification	right	

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	geometry	(arrival position lat/long)
--	----------	-----------------------------

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.

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA XI 76/14
2. General area	KYUSHU - WEST COAST TO EASTERN CHINA SEA.
3. Locality	CHART _____(INT _____).
4. Chart number	TUG TOWING DRILLING RIG KURYU NR 3. DEPARTS NAGASAKI KO ETD
5. Key subject	010100 UTC JUL 14 TO EASTERN CHINA SEA, 29-37.5N 125-49.8E, VIA 31-
6. Geographical position	45N 128-51E. SPEED 5 KNOTS. ETA 060300 UTC JUL 14. LENGTH OF TOW
7. Amplifying remarks	1000 METRES.
8. Cancellation details	

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: KYUSHU, WEST COAST
	generalArea	localityIdentifier	
		locationName	language: eng text: EASTERN CHINA SEA
	locality	localityIdentifier	
		locationName	language: eng text:
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 76 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate	20140706T040000Z	
publicationDate	20140101T000000Z		
NWPreableContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drill rig under tow	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 201400706 dateStart: 201400701 timeOfDayEnd: 000000Z timeOfDayStart: 000000Z	
	warningInformation	headline: language: text: TUG TOWING DRILLING RIG KURYU NR 3, DEPARTS NAGASAKI TO EASTERN CHINA SEA.SPEED 5 KNOTS. LENGTH OF TOW 1000 METRES.	
	Geometry (curve)	29-37.5N 125-49.8E 31-45N 128-51E	
	areaAffected		
	TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02, ID03	
TextPlacement (ID02)	text	From	
	textJustification	right	
	geometry	29-37.5N 125-49.8E	
TextPlacement (ID03)	text	To	
	textJustification	right	

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	geometry	31-45N 128-51E
--	----------	----------------

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

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XIII 34/14
2. General area	SEA OF JAPAN.
3. Locality	PROLIV LAPERUZA AND SAKHALIN NORTH EASTCOAST.
4. Chart number	CHART _____ (INT _____).
5. Key subject	TUG TOWING DRILLING RIG PA-B 04,18 JUN 14 FROM
6. Geographical position	34-58.1N 128-48.3E TO 52-55.9N 143-29.9E, VIA 45-43.0N 141-58.0E, 45-
7. Amplifying remarks	45.0N 142-30.0E, 45-49.0N 143-19.0E, 45-55.0N 143-40.0E, 52-52.0N 143-
8. Cancellation details	39.5E, 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
	locality	localityIdentifier	
		locationName	language: eng text: SAKHALIN NORTH EAST COAST
	messageSeriesIdentifier	country: RU nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: 34 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drill rig under tow	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: TUG TOWING DRILLING RIG PA-B 04,18 JUN 14. LENGTH OF TOW 1000 METRES. SPEED 4.2 KNOTS. ONE MILE BERTH REQUESTED.	
	Geometry (curve)	34-58.1N 128-48.3E 45-43.0N 141-58.0E 45-45.0N 142-30.0E 45-49.0N 143-19.0E 45-55.0N 143-40.0E 52-52.0N 143-39.5E 52-55.9N 143-29.9E	

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	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02, ID03, ID04, ID05, ID06, ID07, ID08
TextPlacement (ID02)	text	from
	textJustification	right
	geometry	34-58.1N 128-48.3E
TextPlacement (ID03)	text	wp1
	textJustification	right
	geometry	45-43.0N 141-58.0E
TextPlacement (ID04)	text	wp2
	textJustification	right
	geometry	45-45.0N 142-30.0E
TextPlacement (ID05)	text	wp3
	textJustification	right
	geometry	45-49.0N 143-19.0E
TextPlacement (ID06)	text	wp4
	textJustification	right
	geometry	45-55.0N 143-40.0E
TextPlacement (ID07)	text	wp5
	textJustification	right
	geometry	52-52.0N 143-39.5E
TextPlacement (ID08)	text	to
	textJustification	right
	geometry	52-55.9N 143-29.9E

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

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA III 65/14
2. General area	BLACK SEA.
3. Locality	ROMANIA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	GSP KING TOWING PLATFORM JUPITER 060030 UTC AUG 14 FROM 44-31.9N 029-28.0E TO 44-35.9N 029-21.5E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble(ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: BLACK SEA	
	locality	localityIdentifier		
		locationName	language: eng text: ROMANIA	
	messageSeriesIdentifier	country: SP nameOfSeries: NAVAREA III productionAgency: SP warningIdentifier: warningNumber: 65 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	drill rig under tow		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: GSP KING TOWING PLATFORM JUPITER 060030 UTC AUG 14		
	Geometry (curve)	44-31.9N 029-28.0E 44-35.9N 029-21.5E		
areaAffected				
TextAssociation	Identifies (role)	ID01		
	cartographicText (role)	ID02, ID03		
TextPlacement (ID02)	text	from		
	textJustification	right		
	geometry	44-31.9N 029-28.0E		
TextPlacement (ID03)	text	to		
	textJustification	right		
	geometry	44-35.9N 029-21.5E		

Discussion Point:

- 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 departure to arrival positions.

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA I 145/14
2. General area	SCOTLAND - EAST COAST.
3. Locality	NOSS HEAD SOUTH-EASTWARDS TO KITTIWAKE OIL FIELD
4. Chart number	CHART (INT).
5. Key subject	TOW OF SEMI-SUBMERGED PIPELINE BUNDLE IN PROGRESS IN VICINITY OF LINE JOINING:
6. Geographical position	58-30N 003-08W, 58-28N 001-51W, 58-16N 000-48W, 58-05N 000-28W, 57-43N 000-11W AND 57-32N 000-10E.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: SCOTLAND, EAST COAST.	
	locality	localityIdentifier		
		locationName	language: eng text: NOSS HEAD.	
	locality	localityIdentifier		
		locationName	language: eng text: KITTIWAKE OIL FIELD	
	messageSeriesIdentifier	country: SP nameOfSeries: NAVAREA III productionAgency: SP warningIdentifier: warningNumber: 65 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
publicationDate	20140101T000000Z			
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	drill rig under tow		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: TOW OF SEMI-SUBMERGED PIPELINE BUNDLE IN PROGRESS IN VICINITY.		
	Geometry (curve)	58-30N 003-08W 58-28N 001-51W 58-16N 000-48W 58-05N 000-28W 57-43N 000-11W 57-32N 000-10E		
	areaAffected			
	TextAssociation	Identifies (role)	ID01	
	cartographicText (role)	ID02, ID03, ID04, ID05, ID06, ID07		
TextPlacement (ID02)	text	wp1		
	textJustification	right		
	geometry	58-30N 003-08W		
TextPlacement (ID03)	text	wp2		
	textJustification	right		
	geometry	58-28N 001-51W		

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TextPlacement (ID04)	text	wp3
	textJustification	right
	geometry	58-16N 000-48W
TextPlacement (ID05)	text	wp4
	textJustification	right
	geometry	58-05N 000-28W
TextPlacement (ID06)	text	wp5
	textJustification	right
	geometry	57-43N 000-11W
TextPlacement (ID07)	text	Wp6
	textJustification	right
	geometry	57-32N 000-10E

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

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA VIII 35/14
2. General area	INDIA WEST COAST.
3. Locality	OFF MURUD JANJIRA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. LARGE RECTANGULAR PARTIALLY SUBMERGED METALLIC
6. Geographical position	OBJECT ADRIFT IN VICINITY 18-16N 072-24E AT 150830 UTC JUN
7. Amplifying remarks	14.
8. Cancellation details	2. CANCEL THIS MSG 180830 UTC JUN 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: INDIA WEST COAST
	locality	localityIdentifier	
		locationName	language: eng text: OFF MURUD JANJIRA
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 35 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140618T08300Z	
	publicationDate	20140615T08300Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drifting hazard (other)	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: LARGE RECTANGULAR PARTIALLY SUBMERGED METALLIC OBJECT ADRIFT IN VICINITY .	
	geometry	18-16N 072-24E	
	areaAffected		

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?

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA II 78/14
2. General area	PAZENN.
3. Locality	CHART _____(INT _____).
4. Chart number	1. SIX CONTAINERS ADRIFT IN VICINITY
5. Key subject	47-37N 006-26W AT 262200 UTC JUL 14.
6. Geographical position	2. CANCEL THIS MSG 292200 UTC JUL 14.
7. Amplifying remarks	
8. Cancellation details	

NWPreable (NW.FR.SHOM.N2.078.14)	generalArea	localityIdentifier		
		locationName	language: eng text: PAZENN	
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 78 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140729T220000Z		
	publicationDate	20140726T220000Z		
NWPreableContent	header (role)	NW.FR.SHOM.N2.078.14		
	theWarningPart (role)	NW.FR.SHOM.N2.078.14.1		
NavigationalWarningFeaturePart (NW.FR.SHOM.N2.078.14.1)	restriction			
	warningHazardType	container adrift		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: SIX CONTAINERS ADRIFT IN VICINITY		
	geometry	47-37N 006-26W		
	areaAffected			

Example of the GML coding:

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.

```
<?xml version="1.0" encoding="UTF-8"?>
<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>
```

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```
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<imember>
  <S124:S124_NW Preamble gml:id="NW.FR.SHOM.N2.078.14">
    <messageSeriesIdentifier>
      <NameOfSeries>NAVAREA II</NameOfSeries>
      <S124_warningType>NAVAREA navigational warning</
S124_warningType >
      <warningNumber>78</warningNumber>
      <year>14</year>
      <productionAgency>
        <language>eng</language>
        <text>SHOM</text>
      </productionAgency>
      <country>FR</country>
    </messageSeriesIdentifier>
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    <S124_cancellationDate>20140729T220000Z</S124_cancellationDate>
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      <S124_locationName>
        <text>PAZENN</text>
      </S124_locationName>
    </generalArea>
    <S124_affectedChartPublications>
      <chartAffected>
        <chartNumber>XXX</chartNumber>
        <editionDate>20140101</editionDate>
      </chartAffected>
    </S124_affectedChartPublications>
    <theWarningPart xlink:href="#NW.FR.SHOM.N2.078.14.1"/>
  </S124:S124_NW Preamble>
</imember>
<member>
  <S124:S124_NavigationalWarningPart gml:id="NW.FR.SHOM.N2.078.14.1">
    <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>
```


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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA I 112/14
2. General area	CELTIC SEA.
3. Locality	CELTIC DEEP.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. DERELICT FISHING VESSEL REPORTED ADRIFT 51-25.5N 006-21.9W AT 132210 UTC NOV 14.
6. Geographical position	2. CANCEL THIS MSG 162210 UTC NOV 14.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: CELTIC SEA
	locality	localityIdentifier	
		locationName	language: eng text: CELTIC DEEP
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 112 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20141116T221000Z	
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drifting hazard	
	warningHazardType*	vessel adrift	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DERELICT FISHING VESSEL REPORTED ADRIFT.	
	geometry	51-25.5N 006-21.9W	
	areaAffected		

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA IV 75/14
2. General area	MEXICO.
3. Locality	PLAYA DEL CARMEN APPROACH.
4. Chart number	CHART (INT _____).
5. Key subject	1. DRIFTING MINE REPORTED 20-37.3N 087-03.1W AT 060850 UTC AUG 14.
6. Geographical position	2. CANCEL THIS MSG 090850 UTC AUG 14.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: MEXICO
	locality	localityIdentifier	
		locationName	language: eng text: PLAYA DEL CARMEN APPROACH
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 75 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate	20140809T085000Z	
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drifting hazard	
	warningHazardType*	mines	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DRIFTING MINE REPORTED.	
	geometry	20-37.3N 087-03.1W	
	areaAffected		

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA VI 99/14
2. General area	SOUTH ATLANTIC.
3. Locality	WEST SCOTIA RIDGE, RHINE BANK
4. Chart number	CHART (INT _____).
5. Key subject	ICEBERGS REPORTED AT 250130 UTC JUL 14:
6. Geographical position	A. 55-27.9S 053-35.6W.
7. Amplifying remarks	B. 55-26.2S 053-18.3W.
8. Cancellation details	CANCEL THIS MSG 280130 UTC JUL 14.

NWPreable (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: SOUTH ATLANTIC	
	locality	localityIdentifier		
		locationName	language: eng text: WEST SCOTIA RIDGE	
	locality	localityIdentifier		
		locationName	language: eng text: RHINE BANK	
	messageSeriesIdentifier	country: AR nameOfSeries: NAVAREA VI productionAgency: AR warningIdentifier: warningNumber: 99 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
	cancellationDate	20140728T013000Z		
	publicationDate	20140725T013000Z		
	NWPreableContent	header (role)	ID00	
		theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	drifting hazard		
	warningHazardType*	iceberg outside of advertised limit		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: ICEBERGS REPORTED.		
	geometry	55-27.9S 053-35.6W		
	geometry	55-26.2S 053-18.3W		
	areaAffected			

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?

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Example 6

Message element	Example 6
1. Message series identifier	NAVAREA IV 55/14
2. General area	WEST INDIES.
3. Locality	MARTINIQUE, SOUTH.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. LARGE TRUNK, ELEVEN METRES IN LENGTH, REPORTED IN VICINITY 14-14N 060-52W
6. Geographical position	AT 272115 UTC AUG 14.
7. Amplifying remarks	
8. Cancellation details	2. CANCEL THIS MSG 302115 UTC AUG 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: WEST INDIES
	locality	localityIdentifier	
		locationName	language: eng text: MARTINIQUE, SOUTH
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140830T211500Z	
publicationDate	20140827T211500Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drifting hazard	
	warningHazardType*	tree trunk	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: LARGE TRUNK, ELEVEN METRES IN LENGTH, REPORTED IN VICINITY.	
	geometry	14-14N 060-52W	
	areaAffected		

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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

Message element	Example 1
1. Message series identifier	NAVAREA XIV 67/14
2. General area	NEW ZEALAND.
3. Locality	COOK STRAIT.
4. Chart number	CHART _____ (INT _____).
5. Key subject	SAR OPERATION IN PROGRESS CENTRED ON 40-24.5S 173- 57.6E.
6. Geographical position	ALL VESSELS NOT UNDER INSTRUCTION OF THE SAR MISSION
7. Amplifying remarks	CONTROLLER RCCNZ ARE REQUESTED TO KEEP A WIDE BERTH.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NEW ZEALAND
	locality	localityIdentifier	
		locationName	language: eng text: COOK STRAIT
	messageSeriesIdentifier	country: NZ nameOfSeries: NAVAREAXIV productionAgency: NZ warningIdentifier: warningNumber: 67 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	SAR and anti-pollution operations	
	warningHazardType*	SAR operations	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: SAR OPERATION IN PROGRESS. ALL VESSELS NOT UNDER INSTRUCTION OF THE SAR MISSION CONTROLLER RCCNZ ARE REQUESTED TO KEEP A WIDE BERTH.	
	geometry	40-24.5S 173- 57.6E	
	areaAffected		

Discussion Points:

- 1) NACs should be provided a specific 'wide berth' criteria in order for the effective plotting of the NW on ECDIS as S-124 can't develop a polygon without this information.

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA I 25/14
2. General area	ENGLAND SOUTH COAST.
3. Locality	LYME BAY, BEER HEAD WESTWARDS.
4. Chart number	CHART (INT ____).
5. Key subject	ANTIPOLLUTION OPERATIONS IN PROGRESS 50-40.0N 003-10.0W.
6. Geographical position	A TEMPORARY EXCLUSION ZONE RADIUS TWO MILES HAS BEEN
7. Amplifying remarks	ESTABLISHED CENTRED ON THIS POSITION. SHIPS ARE PROHIBITED
8. Cancellation details	FROM ENTERING OR REMAINING WITHIN THIS ZONE.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ENGLAND SOUTH COAST
	locality	localityIdentifier	
		locationName	language: eng text: LYME BAY
	locality	localityIdentifier	
		locationName	language: eng text: BEER HEAD WESTWARDS
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 67 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction	7 (entry prohibited)	
	warningHazardType	SAR and anti-pollution operations	
	warningHazardType*	anti pollution exercises	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: ANTIPOLLUTION OPERATIONS IN PROGRESS. A TEMPORARY EXCLUSION ZONE HAS BEEN ESTABLISHED. SHIPS ARE PROHIBITED FROM ENTERING OR REMAINING WITHIN THIS ZONE.	
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 50-40.0N 003-10.0W (center point) interpolation=circularArcCenterPointWithRadius radius=2NM	
	areaAffected		

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Discussion Points:

- 1) Note that the temporary exclusion zone has been identified as a restriction.
- 2) The 2NM radius of this exclusion zone is captured by the geometry and is not needed within the message text.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA IV 6/14
2. General area	GULF OF MEXICO.
3. Locality	LOUISIANA.
4. Chart number	CHART (INT ____).
5. Key subject	NAVIGATION PROHIBITED ON LOWER MISSISSIPPI RIVER, SOUTHWEST
6. Geographical position	PASS BUOY TO MILE MARKER 98, DUE TO OIL SPILL RESPONSE
7. Amplifying remarks	OPERATIONS. CONTACT CAPTAIN OF THE PORT OF NEW ORLEANS FOR
8. Cancellation details	PERMISSION TO ENTER PROHIBITED AREA AND FOR UPDATED INFORMATION.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: GULF OF MEXICO	
	locality	localityIdentifier		
		locationName	language: eng text: LOUISIANA	
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 67 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction	8		
	warningHazardType	SAR and anti-pollution operations		
	warningHazardType*	anti-pollution operations		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: NAVIGATION PROHIBITED ON LOWER MISSISSIPPI RIVER, SOUTHWEST PASS BUOY TO MILE MARKER 98, DUE TO OIL SPILL RESPONSE OPERATIONS. CONTACT CAPTAIN OF THE PORT OF NEW ORLEANS FOR PERMISSION TO ENTER PROHIBITED AREA AND FOR UPDATED INFORMATION.		
	geometry			
	areaAffected			

Discussion Points:

- 1) As this is written, it's impossible to be correctly encoded under S-124 standards. If the lat/long of the " southwest pass buoy " and the " mile marker 98 " were provided (or known), a polygon representing the area of oil spill operations could be developed.
- 2) We can input the entry restricted as a restriction (8).

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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

Message element	Example 1
1. Message series identifier	NAVAREA XII 222/14
2. General area	COSTA RICA.
3. Locality	SOUTHWEST COAST.
4. Chart number	CHART (INT).
5. Key subject	SHOALS LOCATED:
6. Geographical position	A. 28 METRES 08-17.1N 083-53.1W.
7. Amplifying remarks	B. 13.5 METRES 08-19.2N 083-54.2W.
8. Cancellation details	C. 27 METRES 08-21.8N 083-56.1W.

NWPPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: COSTA RICA	
	locality	localityIdentifier		
		locationName	language: eng text: SOUTHWEST COAST	
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA XII productionAgency: US warningIdentifier: warningNumber: 22 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID02, ID03		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	shoal		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: LOCATED AT 28 METRES		
	geometry	08-17.1N 083-53.1W		
areaAffected				
NavigationalWarningFeaturePart (ID02)	restriction			
	warningHazardType	shoal		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: LOCATED AT 13.5 METRES.		

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	geometry	08-19.2N 083-54.2W
	areaAffected	
NavigationalWarningFeaturePart (ID03)	restriction	
	warningHazardType	shoal
	warningHazardType*	
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: LOCATED AT 27 METRES.
	geometry	08-21.8N 083-56.1W

Discussion Points:

- 1) The three shoals are identified separately with a unique NavigationalWarningFeaturePart.
- 2) The S-124 will plot the 3 shoals with the "MSI" symbol.

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA IV 231/14
2. General area	NORTH PACIFIC
3. Locality	OCEAN.
4. Chart number	JASPER SEAMOUNT.
5. Key subject	CHART _____(INT _____).
6. Geographical position	DISCOLOURED WATER WITH SUBMARINE VOLCANIC ACTIVITY
7. Amplifying remarks	REPORTED VICINITY 30-27N 122-40W AT 190110 UTC FEB 14.
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: NORTH PACIFIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: JASPER SEAMOUNT
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 231 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140211T011000Z	
	NWPPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	newly discovered dangers	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DISCOLOURED WATER WITH SUBMARINE VOLCANIC ACTIVITY REPORTED IN VICINITY	
	geometry	30-27N 122-40W	
	areaAffected		

Discussion Points:

- 1) Do we need to identify a new instance for 'newly discovered dangers'; currently we have nothing for volcanic activity
- 2) Do we consider the publicationDate as the start time of the reported event it's not required within the text field?

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA VII 48/14
2. General area	ANGOLA.
3. Locality	PORT OF LUANDA.
4. Chart number	CHART (INT _____).
5. Key subject	WRECK LOCATED 08-16.50S 013-16.07E.
6. Geographical position	LEAST DEPTH EIGHT METRES.
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: ANGOLA
	locality	localityIdentifier	
		locationName	language: eng text: PORT OF LUANDA
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 48 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	dangerous wreck	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: LEAST DEPTH EIGHT METRES.	
	geometry	08-16.50S 013-16.07E	
	areaAffected		

Discussion Points:

- 1) If we use 'dangerous wreck' for warningHazardType is the "WRECK LOCATED" component still required in the text field?

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA I 432/14
2. General area	ORKNEY ISLANDS.
3. Locality	WESTRAY FIRTH.
4. Chart number	CHART (INT).
5. Key subject	SHOAL DEPTH 10.9 METRES LOCATED 59-12.97N 002-54.96W
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: ORKNEY ISLANDS
	locality	localityIdentifier	
		locationName	language: eng text: WESTRAY FIRTH
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 48 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	shoal	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: SHOAL DEPTH 10.9 METRES LOCATED .	
	geometry	59-12.97N 002-54.96W.	
	areaAffected		

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA XVI 98/14
2. General area	PERU.
3. Locality	BAHIA DEL CALLAO.
4. Chart number	CHART (INT).
5. Key subject	SIGNIFICANTLY LESS WATER THAN CHARTED REPORTED 11- 59.89S
6. Geographical position	077-17.50W.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng Text: ORKNEY ISLANDS
	locality	localityIdentifier	
		locationName	language: eng text: WESTRAY FIRTH
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 98 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	shallow depth reported	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: SIGNIFICANTLY LESS WATER THAN CHARTED IS REPORTED.	
	geometry	11- 59.89S 077-17.50W	
	areaAffected		

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8 Unexpected alteration or suspension of established routes

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA I 67/14
2. General area	ENGLAND - EAST COAST.
3. Locality	THAMES ESTUARY NORTHERN APPROACHES.
4. Chart number	CHART (INT).
5. Key subject	WITH EFFECT FROM 010001 UTC JUL 14 EXTENSIVE CHANGES TO ROUTEING AND BUOYAGE WILL BE IMPLEMENTED TO SEAWARD OF AND IN THE SUNK AREA 51-50N 001-46E. FOR FULL DETAILS REFER TO ADMIRALTY NOTICE TO MARINERS 534(P)/14 AND RELEVANT NEW EDITIONS OF ADMIRALTY CHARTS PUBLISHED IN MAY AND JUNE 14. THE CURRENT SUNK VTS IS CANCELLED AT 010001 UTC JULY 14 UNTIL FURTHER NOTICE. SHIPS REQUIRING A PILOT SHOULD CONTACT SUNK PILOTAGE SERVICE VHF CHANNEL 9.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: ENGLAND - EAST COAST
	locality	localityIdentifier	
		locationName	language: eng text: THAMES ESTUARY NORTHERN APPROACHES
	messageSeriesIdentifier	country:GB nameOfSeries: NAVAREA I productionAgency:GB warningIdentifier: warningNumber: 67 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Regulations	
	warningHazardType*	Other: routing measures	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WITH EFFECT FROM 010001 UTC JUL 14 EXTENSIVE CHANGES TO ROUTEING AND BUOYAGE WILL BE IMPLEMENTED TO SEAWARD OF AND IN THE SUNK AREA. FOR FULL DETAILS REFER TO ADMIRALTY NOTICE TO MARINERS 534(P)/14 AND RELEVANT NEW EDITIONS OF ADMIRALTY CHARTS PUBLISHED IN MAY AND JUNE 14. THE CURRENT SUNK VTS IS	

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		CANCELLED AT 010001 UTC JULY 14. SHIPS REQUIRING A PILOT SHOULD CONTACT SUNK PILOTAGE SERVICE VHF CHANNEL 9.
	geometry	51-50N 001-46E
	areaAffected	

Discussion Points:

- 1) As this is written, it's impossible to be effectively encoded under S-124 standards. The vagueness of the area, "seaward of and in Sunk area" and the lack of a radius/range with the associated lat/long, makes the development of a polygon challenging.
- 2) S-124 should ideally link to associated publications, i.e. the NOTMAR reference would be inserted into an appropriate source field for references (xxxx) .

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA X 234/14
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 COAST
	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: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	regulations	
	warningHazardType*	Other: pilotage	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: 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	

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		<p>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.</p>
	<p>geometry</p>	<p>10-32S 143-01E</p>
	<p>areaAffected</p>	

Discussion Points:

- 1) As this is written, there's really no possible changes to the actual text area.
- 2) The MSI symbol would plot this NW at the provided geometry.
- 3) The optional instance of "pilotage" for warningHazardType has been used.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XI 07/14
2. General area	MALAYSIA SOUTH COAST.
3. Locality	SINGAPORE.
4. Chart number	CHART _____ (INT _____).
5. Key subject	WEST JURONG CHANNEL WILL BE CLOSED FROM 0100 TO 0600
6. Geographical position	UTC DAILY 02 THRU 20 JAN 14 WHILE REPLACING ALL CHANNEL
7. Amplifying remarks	BUOYS. MASTERS OF SHIPS SHOULD CONTACT SINGAPORE PORT
8. Cancellation details	OPERATIONS AT LEAST 48 HOURS IN ADVANCE PRIOR TO ENTERING OR LEAVING THE WEST JURONG CHANNEL TO ENSURE PILOTS ARE ENGAGED IN A TIMELY MANNER. CONTACT INFORMATION IS AS FOLLOWS. PHONE: 65-62265539, FAX: 65- 62279971.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: MALAYSIA SOUTH COAST
	locality	localityIdentifier	
		locationName	language: eng text: SINGAPORE
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 07 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction	Entry restricted (8)	
	warningHazardType	regulations	
	warningHazardType*	other: waterway closure	
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20140102 dateStart: 20140102 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z	
	fixedDateRange	dateEnd: 20140103 dateStart: 20140103 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z	
	fixedDateRange	dateEnd: 20140104 dateStart: 20140104 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z	
	fixedDateRange	dateEnd: 20140105 dateStart: 20140105 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z	
	fixedDateRange	dateEnd: 20140106 dateStart: 20140106 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z	
fixedDateRange	dateEnd: 20140107		

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		dateStart: 20140107 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140108 dateStart: 20140108 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140109 dateStart: 20140109 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140110 dateStart: 20140110 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140111 dateStart: 20140111 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140112 dateStart: 20140112 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140113 dateStart: 20140113 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140114 dateStart: 20140114 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140115 dateStart: 20140115 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140116 dateStart: 20140116 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140117 dateStart: 20140117 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140118 dateStart: 20140118 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140119 dateStart: 20140119 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	fixedDateRange	dateEnd: 20140120 dateStart: 20140120 timeOfDayEnd: 010000Z timeOfDayStart: 060000Z
	warningInformation	headline: language: text: WEST JURONG CHANNEL WILL BE CLOSED FROM 0100 TO 0600 UTC DAILY 02 THRU 20 JAN 14 WHILE REPLACING ALL CHANNEL BUOYS. MASTERS OF SHIPS SHOULD CONTACT SINGAPORE PORT OPERATIONS AT LEAST 48 HOURS IN ADVANCE PRIOR TO ENTERING OR LEAVING THE WEST JURONG

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		CHANNEL TO ENSURE PILOTS ARE ENGAGED IN A TIMELY MANNER. CONTACT INFORMATION IS AS FOLLOWS. PHONE: 65-62265539, FAX: 65-62279971.
	geometry	
	areaAffected	

Discussion Points:

- 1) As this is written, there's really no possible changes to the actual text area.
- 2) The NAC would need to be provided appropriate geometry (either lat/longs to develop a polygon or a reference point for West Jurong Channel) in order for to plot this NW on ECDIS. .
- 3) In this instance, 'waterway closure' was chosen as the optional instance for warningHazardType even though pilotage issues are discussed.
- 4) With the use of fixedDateRange, each instance of closing the area is encoded, enabling visualization of the closing only when it is in effect, and permitting route checking against the closed periods. Should the text in warningInformation change to account for this?

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA V 206/14
2. General area	BRAZIL - SOUTH COAST.
3. Locality	CHART (INT).
4. Chart number	1. NAVAL CONTROL EXERCISE 091900 UTC TO 130300 UTC NOV
5. Key subject	14 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 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: BRAZIL - SOUTH COAST
	messageSeriesIdentifier	country: BR nameOfSeries: NAVAREA V productionAgency: BR warningIdentifier: warningNumber: 206 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20141113T040000Z	
	publicationDate	20141101T000000Z	
NWPreambleContent	header(role)	ID00	
	theWarningPart(role)	ID01, ID06	
NavigationalWarningFeaturePart (ID01)	restriction	entry restricted (8)	
	warningHazardType	military operations	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20141109 dateStart: 20141113 timeOfDayEnd:190000Z timeOfDayStart:030000Z	
	warningInformation	headline: NAVAL CONTROL EXERCISE language:	

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		<p>text: ACCORDING TO ENTERING POSITION, MERCHANT SHIPS IN THE AREA SHOULD CALL LANE CONTROLLER SHIPS BY VHF CHANNELS 16 AND 10, USING THE FOLLOWING:</p> <p>i) NC1 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY NORTHEAST OF AREA.</p> <p>ii) NC2 CONTROLLER OF MERCHANT SHIPS REQUESTING AND LEAVING FROM POINT OF ACCESS AND DEPART OF RIO GRANDE PORT.</p> <p>iii) NC3 CONTROLLER OF MERCHANT SHIPS ENTERING AND LEAVING BY SOUTHWEST OF AREA.</p> <p>ACCESS AND DEPART RIO GRANDE PORT FROM: 32-15.00S 051-58.00W</p>
	geometry	(polygon) 31-33.00S 051-14.50W, 32-17.50S 050-07.00W, 33-51.00S 051-33.50W, 33-07.00S 052-38.00W.
	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02, ID03, ID04, ID05
TextPlacement (ID02)	text	NC1
	textJustification	right
	geometry	32-00.00S 050-50.00W
TextPlacement (ID03)	text	NC2
	textJustification	right
	geometry	32-38.00S 051-25.00W
TextPlacement (ID04)	text	NC3
	textJustification	right
	geometry	NC3: 33-20.00S 052-03.00W
TextPlacement (ID05)	text	ACCESS AND DEPART RIO GRANDE PORT
	textJustification	right
	geometry	32-15.00S 051-58.00W
NavigationalWarningFeaturePart (ID06)	restriction	entry restricted (8)
	warningHazardType	military operations
	warningHazardType*	
	featureName	
	featureReference	
	fixedDateRange	dateEnd: 20141109 dateStart: 20141113 timeOfDayEnd:190000Z timeOfDayStart:030000Z
	warningInformation	<p>headline:</p> <p>language:</p> <p>text:.</p> <p>A. MERCHANT SHIPS SHOULD CROSS MARITIME AREA USING THE FOLLOWING LANES:</p> <p>i) LANE COASTAL-1: (DIRECTION NE-SW) 32-00.00S 050-50.00W AND 33-20.00S 052-03.00W.</p> <p>ii) LANE COASTAL-2: (NC2-PORT RIO GRANDE) 32-38.00S 051-25.00W AND 32-15.00S 051-58.00W.</p> <p>B. WIDTH OF LANE IS SIX NAUTICAL MILES, THREE NAUTICAL MILES ON EACH SIDE OF THE TRACKLINE JOINING:</p> <p>i) NC1: 32-00.00S 050-50.00W.</p> <p>ii) NC2: 32-38.00S 051-25.00W.</p>

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		iii) NC3: 33-20.00S 052-03.00W. C. ACCESS AND DEPART RIO GRANDE PORT FROM: 32-15.00S 051-58.00W.
	geometry	(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.
	areaAffected	

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?

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA IV
2. General area	351/14 NORTH ATLANTIC.
3. Locality	NORTH CAROLINA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	1. THE PORTS FOR NORTH CAROLINA HAVE BEEN CLOSED UNTIL FURTHER NOTICE IN PREPARATION FOR THE ANTICIPATED IMPACT OF HURRICANE HANNA. ALL INLAND WATERS, COASTAL INLETS AND TERRITORIAL SEAS WITHIN THE CAPTAIN OF THE PORT ZONE, FROM LITTLE RIVER INLET TO THE NORTH CAROLINA – VIRGINIA BOUNDARY HAVE BEEN ESTABLISHED. NO SHIP MAY ENTER, DEPART OR TRANSIT WITHIN THIS SAFETY ZONE WITHOUT THE PERMISSION OF THE CAPTAIN OF THE PORT.
6. Geographical position	2. ALL CARGO AND BUNKER HANDLING OPERATIONS MUST CEASE.
7. Amplifying remarks	3. CONTACT CAPTAIN OF PORT FOR UPDATED INFORMATION.
8. Cancellation details	

NWPreable	generalArea	localityIdentifier	
		locationName	language: eng text: NORTH ATLANTIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng NORTH CAROLINA
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 351 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreableContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart	restriction	entry prohibited (7)	
	warningHazardType	opening/closing of waterway	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: THE PORTS FOR NORTH CAROLINA HAVE BEEN CLOSED UNTIL FURTHER NOTICE IN PREPARATION FOR THE ANTICIPATED IMPACT OF HURRICANE HANNA. ALL INLAND WATERS, COASTAL INLETS AND TERRITORIAL SEAS WITHIN THE CAPTAIN OF THE PORT ZONE, FROM LITTLE RIVER INLET TO THE NORTH CAROLINA – VIRGINIA BOUNDARY HAVE BEEN ESTABLISHED. NO SHIP MAY ENTER, DEPART OR TRANSIT WITHIN THIS SAFETY ZONE	

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		WITHOUT THE PERMISSION OF THE CAPTAIN OF THE PORT. ALL CARGO AND BUNKER HANDLING OPERATIONS MUST CEASE. CONTACT CAPTAIN OF PORT FOR UPDATED INFORMATION.
	geometry	
	areaAffected	

Discussion Points:

- 1) S-124 can't effectively manage this content and won't be able to plot the NW on ECDIS without the NAC being provided appropriate geometry.
- 2) For S-124 to work as envisioned, geometry is crucial as without it, the system won't be able to do spatial queries or place meaningful symbology.

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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

Message element	Example 1
1. Message series identifier	NAVAREA VII 256/14
2. General area	ATLANTIC OCEAN.
3. Locality	ANGOLA.
4. Chart number	CHART _____ (INT _____).
5. Key subject	M/V GECO EMERALD IS CONDUCTING SEISMIC SURVEY
6. Geographical position	OPERATIONS AND TOWING SIX STREAMERS AT 8000 METRE
7. Amplifying remarks	LENGTH WITH ENDS MARKED WITH YELLOW BUOYS AND BLUE
8. Cancellation details	FLASHING LIGHTS IN AREA BOUNDED BY 10-55S, 11-21S, 013- 20E AND 012-40E. WIDE BERTH REQUESTED, MINIMUM SIX MILES ASTERN AND THREE MILES ABEAM. SURVEY SHIP STANDING BY ON VHF CH 67 AND 16. GUARD VESSEL ST JOHNS IN ATTENDANCE.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: ATLANTIC OCEAN	
	locality	localityIdentifier		
		locationName	language: eng text: ANGOLA	
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 256 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
cancellationDate				
publicationDate	20140101T000000Z			
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	seismic survey		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: M/V GECO EMERALD IS CONDUCTING SEISMIC SURVEY OPERATIONS AND TOWING SIX STREAMERS AT 8000 METRE LENGTH WITH ENDS MARKED WITH YELLOW BUOYS AND BLUE FLASHING LIGHTS IN THE AREA.		

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		WIDE BERTH REQUESTED, MINIMUM SIX MILES ASTERN AND THREE MILES ABEAM. SURVEY SHIP STANDING BY ON VHF CH 67 AND 16. GUARD VESSEL ST JOHNS IN ATTENDANCE.
	Geometry	(polygon) AREA BOUNDED BY 10- 55S, 11-21S, 013- 20E, 012-40E
	areaAffected	

Discussion Points:

- 1) Wide berth around a moving object, like a ship, can only be captured in text.

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA IX 15/14 RED SEA.
2. General area	GULF OF SUEZ.
3. Locality	CHART (INT).
4. Chart number	SHIP TIME BARGE IS WORKING ON HILAL PLATFORM MOORED WITH
5. Key subject	EIGHT ANCHORS AND BUOYS IN FOLLOWING POSITIONS:
6. Geographical position	A. 27-49.98N 033-43.82E.
7. Amplifying remarks	B. 27-50.21N 033-43.67E.
8. Cancellation details	C. 27-50.29N 033-43.36E.
	D. 27-50.41N 033-43.45E.
	E. 27-50.06N 033-44.41E.
	F. 27-50.18N 033-44.03E.
	G. 27-50.50N 033-43.74E.
	H. 27-50.50N 033-43.61E. WIDE BERTH REQUESTED.

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: RED SEA
	locality	localityIdentifier	
		locationName	language: eng text: GULF OF SUEZ
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 15 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	offshore structures	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: SHIP TIME BARGE IS WORKING ON HILAL PLATFORM MOORED WITH EIGHT ANCHORS AND BUOYS. WIDE BERTH REQUESTED.	
	Geometry (polygon)	27-49.98N 033-43.82E 27-50.21N 033-43.67E 27-50.29N 033-43.36E 27-50.41N 033-43.45E 27-50.06N 033-44.41E 27-50.18N 033-44.03E 27-50.50N 033-43.74E 27-50.50N 033-43.61E	
	areaAffected		

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Discussion Points:

- 1) S-124 will plot symbols at each mooring buoy location.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XIII 55/14
2. General area	TATARSKIY PROLIV.
3. Locality	PROLIV LAPERUZA.
4. Chart number	CHART (INT)).
5. Key subject	1. CABLE LAYING OPERATIONS IN PROGRESS BY SHIP SUBARU
6. Geographical position	UNTIL 30 JUN 14 ALONG LINE JOINING 45-56.8N 140- 00.7E, 46-
7. Amplifying remarks	36.5N 140-53.6E, 46-36.6N 141-29.0E, 46-38.9N 141-47.3E, 46-
8. Cancellation details	36.5N 141-49.8E. WIDE BERTH REQUESTED.
	2. 2. CANCEL THIS MSG 020001 UTC JUL 14.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: TATARSKIY PROLIV	
	locality	localityIdentifier		
		locationName	language: eng text: PROLIV LAPERUZA	
	messageSeriesIdentifier	country: RU nameOfSeries: NAVAREA XIII productionAgency: RU warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140702T000100Z		
publicationDate	20140101T000000Z			
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	cable laying operations		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: CABLE LAYING OPERATIONS IN PROGRESS BY SHIP SUBARU UNTIL 30 JUN 14. WIDE BERTH REQUESTED.		
	Geometry (curve)	45-56.8N 140-00.7E 46-36.5N 140-53.6E 46-36.6N 141-29.0E 46-38.9N 141-47.3E 46-36.5N 141-49.8E		
areaAffected				
TextAssociation	Identifies (role)	ID01		
	cartographicText (role)	ID02, ID03, ID04, ID05		
TextPlacement (ID01)	text	Point 1		
	textJustification	right		
	geometry	45-56.8N 140-00.7E		
TextPlacement (ID02)	text	Point 2		
	textJustification	right		
	geometry	46-36.5N 140-53.6E		
TextPlacement (ID03)	text	Point 3		
	textJustification	right		

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	geometry	46-36.6N 141-29.0E
TextPlacement (ID04)	text	Point 4
	textJustification	right
	geometry	46-38.9N 141-47.3E
TextPlacement (ID05)	text	Point 5
	textJustification	right
	geometry	46-36.5N 141-49.8E

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA VIII 361/14
2. General area	INDIAN OCEAN.
3. Locality	SONGO AND MAFIA ISLANDS.
4. Chart number	CHART _____ (INT _____).
5. Key subject	SEISMIC SURVEY IN PROGRESS BY M/V GEO MARINER IN AREA
6. Geographical position	BOUNDED BY:
7. Amplifying remarks	A. 07-32S 039-18E.
8. Cancellation details	B. 07-37S 040-17E.
	C. 06-22S 039-50E.
	D. 06-35S 039-09E.
	SHIP TOWING A FOUR MILE SEISMIC CABLE WITH YELLOW TAIL BUOY AND FLASHING LIGHT AT THE END OF THE CABLE.
	SIX MILE BERTH REQUESTED.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: INDIAN OCEAN	
	locality	localityIdentifier		
		locationName	language: eng text: SONGO AND MAFIA ISLANDS	
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 361 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	seismic survey		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: SEISMIC SURVEY IN PROGRESS BY M/V GEO MARINER. SIX MILE BERTH REQUESTED.		
	Geometry	(polygon) 07-32S 039-18E 07-37S 040-17E 06-22S 039-50E 06-35S 039-09E		
	areaAffected			

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Example 5

Message element	Example 4
1. Message series identifier	NAVAREA IV 20/14
2. General area	NORTH ATLANTIC OCEAN.
3. Locality	TRINIDAD, EASTWARDS.
4. Chart number	CHART (INT).
5. Key subject	1. PIPELAYING OPERATIONS IN PROGRESS UNTIL 31 JUL 14 BY
6. Geographical position	M/V SOLITAIRE AND M/V HIGHLAND NAVIGATOR ALONG TRACK
7. Amplifying remarks	BETWEEN 10-02.28N 060-15.08W AND 10-06.08N 060-17.81W. WIDE
8. Cancellation details	BERTH REQUESTED. 2. CANCEL THIS MESSAGE 010001 UTC AUG 14.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: NORTH ATLANTIC OCEAN	
	locality	localityIdentifier		
		locationName	language: eng text: TRINIDAD, EASTWARDS	
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 20 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
	cancellationDate	20140801T000100Z		
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	pipe laying operations		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: PIPELAYING OPERATIONS IN PROGRESS UNTIL 31 JUL 14 BY M/V SOLITAIRE AND M/V HIGHLAND NAVIGATOR. WIDE BERTH REQUESTED.		
	Geometry (curve)	10-02.28N 060-15.08W 10-06.08N 060-17.81W		
	areaAffected			
TextAssociation	Identifies (role)	ID01		
	cartographicText (role)	ID02, ID03		
TextPlacement (ID02)	text	Pipelaying operations		
	textJustification	right		
	geometry	10-02.28N 060-15.08W		
TextPlacement (ID03)	text	Pipelaying operations		
	textJustification	right		
	geometry	10-02.28N 060-15.08W		

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Discussion Points:

1. There may be insufficient geometry to effectively plot this NW.

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

Example 1

Message element	Example 1
1. Message series identifier	
2. General area	NAVAREA X 77/14
3. Locality	AUSTRALIA WEST COAST.
4. Chart number	EXMOUTH PLATEAU.
5. Key subject	CHART _____(INT _____).
6. Geographical position	SUBSEA MOORING BUOY ESTABLISHED 21-26S 114-04E. BUOY
7. Amplifying remarks	MARKED WITH MOORING LINE AND SMALL FLOAT. WIDE BERTH
8. Cancellation details	REQUESTED

NWPreamble (ID00)	generalArea	localityIdentifier locationName	language: eng text: AUSTRALIA WEST COAST
	locality	localityIdentifier locationName	language: eng text: EXMOUTH PLATEAU
	messageSeriesIdentifier	country: AU nameOfSeries: NAVAREA X productionAgency: AU warningIdentifier: warningNumber: 77 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	subsurface moorings	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: SUBSEA MOORING BUOY ESTABLISHED. BUOY MARKED WITH MOORING LINE AND SMALL FLOAT. WIDE BERTH REQUESTED	
	geometry	21-26S 114-04E	
areaAffected			

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA VII
2. General area	321/14
3. Locality	MADAGASCAR.
4. Chart number	PORT OF MAJUNGA.
5. Key subject	CHART _____(INT _____).
6. Geographical position	TWO TIDE GAUGES AND A CURRENT METER MOORED IN AREA
7. Amplifying remarks	BOUNDED BY: 15-32.70S, 15-33.03S, 046-11.77E AND 046- 11.53E.
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: MADAGASCAR
	locality	localityIdentifier	
		locationName	language: eng text: PORT OF MAJUNGA
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 321 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	tide gauges	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: TWO TIDE GAUGES AND A CURRENT METER MOORED IN AREA	
	Geometry (polygon)	15-32.70S, 15-33.03S, 046-11.77E, 046- 11.53E	
	areaAffected		

Discussion Points:

- 1) S-124 should have an established standard on how areas are reported in order to effectively develop a geometry polygon.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA IV 333/14 NORTH ATLANTIC OCEAN. GRAND BANKS OF NEWFOUNDLAND. CHART__(INT ____). DART BUOY ESTABLISHED 44-04.58N 055-12.80W.
2. General area	
3. Locality	
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NORTH ATLANTIC OCEAN
	locality	localityIdentifier	
		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: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreableContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aid to navigation	
	warningHazardType*	buoys	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DART BUOY ESTABLISHED	
	geometry	44-04.58N 055-12.80W	
	areaAffected		

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA III 55/14 IONIAN SEA. CENTRAL. CHART _____(INT _____). ODAS BUOY ESTABLISHED 38-25.59N 18-20.65E.
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: IONIAN SEA.	
	locality	localityIdentifier		
		locationName	language: eng text: CENTRAL.	
	messageSeriesIdentifier	country: ES nameOfSeries: NAVAREA III productionAgency: ES warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate			
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	aid to navigation		
	warningHazardType*	buoys		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: ODAS BUOY ESTABLISHED		
	geometry	38-25.59N 18-20.65E		
	areaAffected			

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA XI 66/14 NORTH PACIFIC OCEAN. CAROLINE ISLANDS AND NGULU ATOL SOUTH-WESTWARDS. CHART_____(INT _____). ODAS BUOY ESTABLISHED IN VICINITY 07-39.0N 136-41.9E.
2. General area	
3. Locality	
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NORTH PACIFIC OCEAN
	locality	localityIdentifier	
		locationName	language: eng text: CAROLINE ISLANDS
	locality	localityIdentifier	
		locationName	language: eng text: NGULU ATOL SOUTH - WESTWARDS
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 66 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPPreambleContent	header (role)	ID00
		theWarningPart (role)	ID01
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aid to navigation	
	warningHazardType*	buoys	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: ODAS BUOY ESTABLISHED IN VICINITY.	
	geometry	07-39.0N 136-41.9E	
	areaAffected		

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11 The establishment of offshore structures in or near shipping lanes

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA IX 5/14
2. General area	RED SEA.
3. Locality	GULF OF SUEZ, TOR BANK.
4. Chart number	CHART _____(INT _____).
5. Key subject	MOBILE RIG ESTABLISHED IN 28-12.8N 033-24.1E.
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: RED SEA
	locality	localityIdentifier	
		locationName	language: eng text: GULF OF SUEZ
	locality	localityIdentifier	
		locationName	language: eng text: TOR BANK
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 5 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	drilling rig on location	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: MOBILE RIG ESTABLISHED.	
	geometry	28-12.8N 033-24.1E	
	areaAffected		

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA VII 117/14
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.
	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.

NWPreable (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: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 117 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreableContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13, ID15, ID17, ID19	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Offshore structures	
	warningHazardType*	Rig List	
	featureName		
	featureReference		
	fixedDateRange		
warningInformation	headline: language: text: RIG LIST: 05-08.58S 011-55.15E PRIDE CAPINDA.		

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		FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 05-08.58S 011-55.15E (center point) interpolation=circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02
TextPlacement (ID02)	text	PRIDE CAPINDA
	textJustification	right
	geometry	05-08.58S 011-55.15E
NavigationalWarningFeaturePart (ID03)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 05-33.08S 011-27.08E PRIDE VENEZUELA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 05-33.08S 011-27.08E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID03
	cartographicText (role)	ID04
TextPlacement (ID04)	text	PRIDE VENEZUELA
	textJustification	right
	geometry	05-33.08S 011-27.08E
NavigationalWarningFeaturePart (ID05)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 06-03.81S 011-05.86E GSF RIG 140. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-03.81S 011-05.86E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID05
	cartographicText (role)	ID06
TextPlacement (ID06)	text	GSF RIG 140
	textJustification	right
	geometry	06-03.81S 011-05.86E

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NavigationalWarningFeaturePart (ID07)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 06-19.02S 011-03.23E KIZOMBA A. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-19.02S 011-03.23E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM	
areaAffected		
TextAssociation	Identifies (role)	ID07
	cartographicText (role)	ID08
TextPlacement (ID08)	text	KIZOMBA A
	textJustification	right
	geometry	06-19.02S 011-03.23E
NavigationalWarningFeaturePart (ID09)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 06-20.15S 011-18.01E PRIDE SOUTH PACIFIC. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-20.15S 011-18.01E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM	
areaAffected		
TextAssociation	Identifies (role)	ID09
	cartographicText (role)	ID10
TextPlacement (ID10)	text	PRIDE SOUTH PACIFIC
	textJustification	right
	geometry	06-20.15S 011-18.01E
NavigationalWarningFeaturePart (ID11)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 1. 06-20.92S 011-09.22E KIZOMBA B.

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		FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 06-20.92S 011-09.22E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID11
	cartographicText (role)	ID12
TextPlacement (ID12)	text	KIZOMBA B
	textJustification	right
	geometry	06-20.92S 011-09.22E
NavigationalWarningFeaturePart (ID13)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 07-40.05S 011-45.08E PRIDE AFRICA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 07-40.05S 011-45.08E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID13
	cartographicText (role)	ID14
TextPlacement (ID14)	text	PRIDE AFRICA
	textJustification	right
	geometry	07-40.05S 011-45.08E
NavigationalWarningFeaturePart (ID15)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 07-43.00S 011-43.00E PRIDE ANGOLA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 07-43.00S 011-43.00E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
	areaAffected	
TextAssociation	Identifies (role)	ID15
	cartographicText (role)	ID16
TextPlacement (ID16)	text	PRIDE ANGOLA
	textJustification	right

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	geometry	07-43.00S 011-43.00E
NavigationalWarningFeaturePart (ID17)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 35-08.86S 022-31.81E PRIDE SOUTH SEAS. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 35-08.86S 022-31.81E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
areaAffected		
TextAssociation	Identifies (role)	ID17
	cartographicText (role)	ID18
TextPlacement (ID18)	text	PRIDE SOUTH SEAS
	textJustification	right
	geometry	35-08.86S 022-31.81E
NavigationalWarningFeaturePart (ID19)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: 35-13.99S 021-29.89E ORCA. FOUR MILE EXCLUSION ZONE ABOUT RIGS DUE TO PRESENCE OF UNLIT ANCHOR MARKING BUOYS.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 35-13.99S 021-29.89E (center point) Interpolation set to circularArcCenterPointWithRadius radius=4NM
areaAffected		
TextAssociation	Identifies (role)	ID19
	cartographicText (role)	ID20
TextPlacement (ID20)	text	ORCA
	textJustification	right
	geometry	35-13.99S 021-29.89E

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?

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA VIII
2. General area	244/14 INDIA.
3. Locality	1. PRESENT POSITION OF OIL RIGS AND DRILL SHIPS:
4. Chart number	20-43.00N 072-19.06E ABAN V.
5. Key subject	20-18.23N 070-00.03E BADRINATH.
6. Geographical position	19-54.20N 071-18.95E FRONTIER ICE.
7. Amplifying remarks	19-29.72N 071-22.89E NOBLE ED HOLT.
8. Cancellation details	19-11.99N 072-11.00E RON TAPPMAYER. 19-40.14N 072-00.33E SAGER RATNA. 19-25.23N 071-16.98E TRIDENT-12. 19-18.23N 072-02.75E ENSCO-50. 19-32.70N 071-13.98E SUNDOWNER-7. WIDE BERTH REQUESTED.
	2. CANCEL NAVAREA VIII 236/14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: INDIA
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 244 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	publicationDate	20140101T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID02, ID03, ID04, ID05, ID06, ID07, ID08, ID09	
References	Message series identifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 236 warningType: (4) NAVAREA navigational warning year: 14	
	No MessageOnHand	false	
	referenceCategory	Cancellation (1)	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Offshore structures	
	warningHazardType*	other: Rig List	
	featureName	ABAN V	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.	
	geometry	20-43.00N 072-19.06E	
	areaAffected		
NavigationalWarningFeaturePart (ID02)	restriction		
	warningHazardType	Offshore structures	
	warningHazardType*	other: Rig List	

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	featureName	BADRINATH
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	20-18.23N 070-00.03E
NavigationalWarningFeaturePart (ID03)	areaAffected	
	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	FRONTIER ICE
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	19-54.20N 071-18.95E
	areaAffected	
NavigationalWarningFeaturePart (ID04)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	NOBLE ED HOLT
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	19-29.72N 071-22.89E
	areaAffected	
	NavigationalWarningFeaturePart (ID05)	restriction
warningHazardType		Offshore structures
warningHazardType*		other: Rig List
featureName		RON TAPMEYER
featureReference		
fixedDateRange		
warningInformation		headline: language: text: WIDE BERTH REQUESTED.
geometry		19-11.99N 072-11.00E
areaAffected		
NavigationalWarningFeaturePart (ID06)		restriction
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	SAGER RATNA.
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	19-40.14N 072-00.33E
	areaAffected	
	NavigationalWarningFeaturePart (ID07)	restriction
warningHazardType		Offshore structures
warningHazardType*		other: Rig List
featureName		TRIDENT-12
featureReference		
fixedDateRange		
warningInformation		headline: language: text: WIDE BERTH REQUESTED.
geometry		19-25.23N 071-16.98E
areaAffected		

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NavigationalWarningFeaturePart (ID08)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	ENSCO-50.
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	19-18.23N 072-02.75E
areaAffected		
NavigationalWarningFeaturePart (ID09)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	SUNDOWNER-7.
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: WIDE BERTH REQUESTED.
	geometry	19-32.70N 071-13.98E
areaAffected		

Discussion Points:

- 1) In this complex example, S-124 doesn't need to create any polygon for an exclusion zone (as in the previous example). As such, we don't need to add the textPlacement since S-124 can take this information from the feature name.
- 2) Should a common encoding rule of such rig lists be created?

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA I 220/14
2. General area	CHART _____(INT _____).
3. Locality	1. RIGLIST. CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA. 51N TO 55N.
4. Chart number	52-54.1N 004-08.5E NOBLE LYNDA BOSSLER.
5. Key subject	53-27.7N 002-17.1E ENSCO 100.
6. Geographical position	NEW 53-39.3N 004-16.9E ENSCO 72.
7. Amplifying remarks	53-48.3N 002-50.3E NOBLE JULIE ROBERTSON.
8. Cancellation details	53-57.0N 002-13.5E NOBLE AL WHITE. NEW 54-16.6N 002-12.6E GSF LABRADOR. 54-19.0N 002-37.2E NOBLE GEORGE SAUVAGEAU.
	NOTES: A. RIGS ARE PROTECTED BY A 500 METRE SAFETY ZONE. B. ACP - ADJACENT TO CHARTED PLATFORM.
	2. CANCEL NAVAREA I 225/14.

*typo? can't have an earlier message cancel a future message. So we've switched them below!

NWPreable (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: SOUTHERN NORTH SEA
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 225 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
NWPreableContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID03, ID05, ID07, ID09, ID11, ID13	
References	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency:GB warningIdentifier: warningNumber:220 warningType: (4) NAVAREA navigational warning year: 14	
	No MessageOnHand	false	
	referenceCategory	Cancellation (1)	
	restriction		
NavigationalWarningFeaturePart (ID01)	warningHazardType	Offshore structures	
	warningHazardType*	other: Rig List	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. 52-54.1N 004-08.5E NOBLE LYNDA BOSSLER. RIG PROTECTED BY A 500	

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		METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 52-54.1N 004-08.5E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02
TextPlacement (ID02)	text	NOBLE LYNDA BOSSLER.
	textJustification	right
	geometry	52-54.1N 004-08.5E
NavigationalWarningFeaturePart (ID03)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. 53-27.7N 002-17.1E ENSCO 100. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 53-27.7N 002-17.1E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
	areaAffected	
TextAssociation	Identifies (role)	ID03
	cartographicText (role)	ID04
TextPlacement (ID04)	text	ENSCO 100
	textJustification	right
	geometry	53-27.7N 002-17.1E
NavigationalWarningFeaturePart (ID05)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. (NEW) 53-39.3N 004-16.9E ENSCO 72. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint

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		53-39.3N 004-16.9E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
	areaAffected	
TextAssociation	Identifies (role)	ID05
	cartographicText (role)	ID06
TextPlacement (ID06)	text	ENSCO 72
	textJustification	right
	geometry	53-39.3N 004-16.9E
NavigationalWarningFeaturePart (ID07)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. 53-48.3N 002-50.3E NOBLE JULIE ROBERTSON. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 53-48.3N 002-50.3E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
	areaAffected	
TextAssociation	Identifies (role)	ID07
	cartographicText (role)	ID08
TextPlacement (ID08)	text	NOBLE JULIE ROBERTSON
	textJustification	right
	geometry	53-48.3N 002-50.3E
NavigationalWarningFeaturePart (ID09)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. 53-57.0N 002-13.5E NOBLE AL WHITE. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 53-57.0N 002-13.5E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
	areaAffected	

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TextAssociation	Identifies (role)	ID09
	cartographicText (role)	ID010
TextPlacement (ID010)	text	NOBLE AL WHITE
	textJustification	right
	geometry	53-57.0N 002-13.5E
NavigationalWarningFeaturePart (ID11)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. (NEW) 54-16.6N 002-12.6E GSF LABRADOR. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 54-16.6N 002-12.6E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
areaAffected		
TextAssociation	Identifies (role)	ID11
	cartographicText (role)	ID12
TextPlacement (ID12)	text	GSF LABRADOR
	textJustification	right
	geometry	54-16.6N 002-12.6E
NavigationalWarningFeaturePart (ID13)	restriction	
	warningHazardType	Offshore structures
	warningHazardType*	other: Rig List
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	headline: language: text: CORRECT AT 040600 UTC AUG 14. SOUTHERN NORTH SEA 51N TO 55N. 54-19.0N 002-37.2E NOBLE GEORGE SAUVAGEAU. RIG PROTECTED BY A 500 METRE SAFETY ZONE. ACP - ADJACENT TO CHARTED PLATFORM.
	geometry	Polygon limited by a curve boundary of type S100_CircleByCenterPoint 54-19.0N 002-37.2E (center point) Interpolation set to circularArcCenterPointWithRadius radius=500metres
areaAffected		
TextAssociation	Identifies (role)	ID13
	cartographicText (role)	ID14
TextPlacement (ID14)	text	NOBLE GEORGE SAUVAGEAU
	textJustification	right
	geometry	54-19.0N 002-37.2E

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Discussion Points:

- 1) In this complex example, S-124 will delete the previous Rig List (NW) and generate a 500 M berth polygon around each rig.
- 2) This model is not including the polygon area “(SOUTHERN NORTH SEA) 51N to 55N” – not sure if this is relevant in the future vision of S-124. Should the NAC still feel it’s required, then a new area geometry NW feature part would need to be developed for this unique area.

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA VI
2. General area	116/14
3. Locality	URUGUAY.
4. Chart number	MONTEVIDEO.
5. Key subject	CHART _____(INT _____).
6. Geographical position	PLATFORM AJAX ESTABLISHED 35-00N 056-20W.
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: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Offshore structures	
	warningHazardType*	Other: drill rig on location	
	featureName	AJAX	
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: PLATFORM ESTABLISHED	
	geometry	35-00N 056-20W	
	areaAffected		

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

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA I 55/14 GPS SATELLITE SYSTEM. 1. PRN 25 UNUSABLE 231900 UTC TO 241000 UTC APR 14. 2. CANCEL THIS MESSAGE 241100 UTC APR 14.
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: NAVAREA I	
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140424T110000Z		
	publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	aid to navigation		
	warningHazardType*	other: GPS		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: PRN 25 UNUSABLE 231900 UTC TO 241000 UTC APR 14.		
	geometry			
	areaAffected			

Discussion Points:

- 1) The current subject list doesn't contain GPS, only DPGS; perhaps we should have one main category "GNSS" and can specify the system in the option warningHazardType?
- 2) This is a global navwarn, so how would this 'plot' on the ECDIS screen? By NAVAREA geometry?

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA I 66/14 1. ___LORAN-C. NORTH-WEST EUROPE.LESSAY CHAIN RATE 6731-M AND SYLT CHAIN RATE 7499-X OFF AIR 080600 UTC TO 081500 UTC OCT 14. 2. CANCEL THIS MESSAGE 081600 UTC OCT 14.
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: NAVAREA I	
	locality	localityIdentifier		
		locationName	language: eng text: NORTH- WEST EUROPE	
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 66 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
	cancellationDate	20141008T160000Z		
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	aid to navigation		
	warningHazardType*	other: Loran-C		
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: LORAN-C. NORTH-WEST EUROPE. LESSAY CHAIN RATE 6731-M AND SYLT CHAIN RATE 7499-X OFF AIR 080600 UTC TO 081500 UTC OCT 14.		
	geometry			
	areaAffected			

Discussion Points:

- 1) The current warningHazardType list contain LORAN-C, should the have one main type, i.e. "GNSS" and then we can specify the unique system as an optional warningHazardType?
- 2) For those administrations offering LORAN-C, the NACs should develop polygons for their respective LORAN-C zones in order for these NWs to effectively plot on ECDIS.

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA I 93/14 GMDSS SHETLAND ISLANDS. MRCC SHETLAND. VHF RT AND DSC SERVICES FROM SAXA VORD SITE, 60-50N 000-50W, OFF AIR.
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: NAVAREA I	
	locality	localityIdentifier		
		locationName	language: eng text: SHETLAND ISLANDS	
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 93 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
cancellationDate				
	publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	MSI Services		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: MRCC SHETLAND. VHF RT AND DSC SERVICES FROM SAXA VORD SITE, 60-50N 000-50W, OFF AIR.		
	geometry	60-50N 000-50W		
areaAffected				

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA I 43/14 GMDSS IRELAND WEST COAST. ALL NAVTEX TRANSMISSIONS FROM VALENTIA 51-55.8N 010-20.9W, OFF AIR.
2. General area	
3. Locality	
4. Chart number	
5. Key subject	
6. Geographical position	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA I
	locality	localityIdentifier	
		locationName	language: eng text: IRELAND WEST COAST
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 43 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	MSI Services	
	warningHazardType*	NAVTEX	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: ALL NAVTEX TRANSMISSIONS FROM VALENTIA OFF AIR.	
	geometry	51-55.8N 010- 20.9W	
	areaAffected		

Discussion Points:

- 1) For those administrations offering a NAVTEX service, the NACs should develop polygons for their respective Coverage (or Service) Areas in order for these NWs to effectively plot on ECDIS.
- 2) How much of a 'buffer zone' would be required to provide ships advance notice?

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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

Message element	Example 1
1. Message series identifier	NAVAREA III 199/14
2. General area	BLACK SEA. UKRAINE.
3. Locality	CHART (INT ____).
4. Chart number	1. GUNNERY EXERCISES 0800 TO 1600 UTC DAILY 16 TO 18 JAN IN
5. Key subject	AREA BOUNDED BY:
6. Geographical position	A. 44-43.8N 032-52.2E. B. 44-34.8N 032-37.4E. C. 44-39.0N 032-11.5E. D. 44-48.4N 032-08.2E. E. 45-00.2N 032-14.2E. F. 44-52.2N 032-41.6E.
	2. CANCEL THIS MESSAGE 181700 UTC JAN 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: BLACK SEA
	locality	localityIdentifier	
		locationName	language: eng text: UKRAINE
	messageSeriesIdentifier	country: ES nameOfSeries: NAVAREA III productionAgency: ES warningIdentifier: warningNumber: 45 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate	20140118T170000Z	
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	military exercises	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20140116 dateStart: 20140116 timeOfDayEnd: 160000Z timeOfDayStart: 080000Z	
		dateEnd: 20140117 dateStart: 20140117 timeOfDayEnd: 160000Z timeOfDayStart: 080000Z	
		dateEnd: 20140118 dateStart: 20140118 timeOfDayEnd: 160000Z timeOfDayStart: 080000Z	
	warningInformation	headline: language: text: 1. GUNNERY EXERCISES 0800 TO 1600 UTC DAILY 16 TO 18 JAN IN	

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	Geometry (polygon)	44-43.8N 032-52.2E 44-34.8N 032-37.4E 44-39.0N 032-11.5E 44-48.4N 032-08.2E 45-00.2N 032-14.2E 44-52.2N 032-41.6E
	areaAffected	

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA VIII 62/14
2. General area	INDIA WEST COAST.
3. Locality	MORMUGAO.
4. Chart number	1. FIRING PRACTICE BY NAVAL AIRCRAFT 0230 TO 1230 UTC
5. Key subject	DAILY FROM 01 TO 07 AUG AND 14 AUG TO 21 AUG 14 IN
6. Geographical position	AREA BOUNDED BY 15-13N, 15-11N, 073-57E AND 073- 52E.
	2. CANCEL THIS MESSAGE 211330 UTC AUG 14.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: INDIA WEST COAST	
	locality	localityIdentifier		
		locationName	language: eng text: MORMUGAO	
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 62 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140821T133000Z		
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01, ID02		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	military exercises		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange	dateEnd: 20140814 dateStart: 20140814 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140815 dateStart: 20140815 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140816 dateStart: 20140816 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140817 dateStart: 20140817 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140818 dateStart: 20140818 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140820 dateStart: 20140820 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z		
	fixedDateRange	dateEnd: 20140821		

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		dateStart: 20140821 timeOfDayEnd: 123000Z timeOfDayStart: 023000Z
	warningInformation	headline: language: text: 1. FIRING PRACTICE BY NAVAL AIRCRAFT 0230 TO 1230 UTC DAILY FROM 01 TO 07 AUG AND 14 AUG TO 21 AUG 14
	Geometry (polygon)	15-13N, 15-11N, 073-57E AND 073-52E
	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02
TextPlacement (ID02)	text	Firing Practice
	textJustification	right
	geometry	(xxxx)?

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XIV 233/14
2. General area	SOUTH PACIFIC OCEAN
3. Locality	1. HAZARDOUS OPERATIONS SPACE DEBRIS FROM 090600 TO 090845 UTC MAR IN AREA BOUNDED BY:
4. Chart number	A. 19-30S 120-00W
5. Key subject	B. 26-30S 120-00W
6. Geographical position	C. 30-00S 123-30W
7. Amplifying remarks	D. 30-00S 132-00W
8. Cancellation details	2. CANCEL THIS MSG 090945 UTC MAR 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: PACIFIC OCEAN SOUTH
	messageSeriesIdentifier	country: NZ nameOfSeries: NAVAREA IXV productionAgency: NZ warningIdentifier: warningNumber: 233 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate	20140309T094500Z	
	publicationDate	20140101T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	hazardous area	
	warningHazardType*	other: space debris	
	featureName		
	featureReference		
	fixedDateRange	dateEnd: 20140314 dateStart: 20140314 timeOfDayEnd: 090845Z timeOfDayStart: 090600Z	
	warningInformation	headline: language: text: HAZARDOUS OPERATIONS SPACE DEBRIS	
	Geometry (polygon)	19-30S 120-00W 26-30S 120-00W 30-00S 123-30W 30-00S 132-00W	
	areaAffected		

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA XI 198/14
2. General area	JAPAN, HONSHU.
3. Locality	NOJIMA SAKI, SOUTHEASTWARD.
4. Chart number	1. HAZARDOUS OPERATIONS ROCKET, FLARE FIRING AND BOMBING FROM 041500 TO 071500 UTC AUG 14, ALTERNATE FROM 071500 TO 081500 UTC AUG 14. AREA BOUNDED BY: A. 34-35.2N 140-16.8E.
5. Key subject	B. 34-08.2N 141-01.8E.
6. Geographical position	C. 33-44.2N 140-22.8E.
7. Amplifying remarks	D. 34-31.2N 140-07.8E.
8. Cancellation details	2. CANCEL THIS MSG 071600 UTC AUG 14.

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: JAPAN, HONSHU	
	locality	localityIdentifier		
		locationName	language: eng text: NOJIMA SAKI, SOUTHEASTWARD	
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 198 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140807T160000Z		
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	military exercises		
	warningHazardType*	other: hazardous operations		
	featureName			
	featureReference			
	fixedDateRange	dateEnd: 20140814 dateStart: 20140814 timeOfDayEnd: 071500Z timeOfDayStart: 041500Z		
	fixedDateRange	dateEnd: 20140814 dateStart: 20140814 timeOfDayEnd: 081500Z timeOfDayStart: 071500Z		
	warningInformation	headline: language: text: HAZARDOUS OPERATIONS ROCKET, FLARE FIRING AND BOMBING FROM 041500 TO 071500 UTC AUG 14, ALTERNATE FROM 071500 TO 081500 UTC AUG 14.		
	Geometry (polygon)	34-35.2N 140-16.8E 34-08.2N 141-01.8E 33-44.2N 140-22.8E 34-31.2N 140-07.8E		
	areaAffected			

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA VII 74/14
2. General area	INDIAN OCEAN.
3. Locality	ILES KERGUELEN NORTH-EASTWARDS.
4. Chart number	1. ROCKET LAUNCHING SCHEDULED 0330 TO 0530 UTC 28 APR TO 03
5. Key subject	MAY 14. FOLLOWING RANGE CLEARANCE AREA ESTABLISHED:
6. Geographical position	A. 44–20S 074–45E.
7. Amplifying remarks	B. 44–20S 077–30E.
8. Cancellation details	C. 49–10S 074–45E.
	D. 49–10S 077–30E.
	SHIPS TO REMAIN CLEAR OF THIS AREA.
	2. CANCEL THIS MESSAGE 030630 UTC MAY 14

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: INDIAN OCEAN	
	locality	localityIdentifier		
		locationName	language: eng text: ILES KERGUELEN NORTH-EASTWARDS	
	messageSeriesIdentifier	country: SA nameOfSeries: NAVAREA VII productionAgency: SA warningIdentifier: warningNumber: 198 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140503T063000Z		
	publicationDate	20140101T000000Z		
	NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	military exercises		
	warningHazardType*	other: hazardous operations		
	featureName			
	featureReference			
	fixedDateRange	dateEnd: 20140428 dateStart: 20140428 timeOfDayEnd: 05300Z timeOfDayStart: 03300Z		
	fixedDateRange	dateEnd: 20140429 dateStart: 20140429 timeOfDayEnd: 05300Z timeOfDayStart: 03300Z		
	fixedDateRange	dateEnd: 20140430 dateStart: 20140430 timeOfDayEnd: 05300Z timeOfDayStart: 03300Z		
	fixedDateRange	dateEnd: 20140501 dateStart: 20140501 timeOfDayEnd: 05300Z timeOfDayStart: 03300Z		
	fixedDateRange	dateEnd: 20140502 dateStart: 20140502 timeOfDayEnd: 05300Z		

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		timeOfDayStart: 03300Z
	fixedDateRange	dateEnd: 20140503 dateStart: 20140503 timeOfDayEnd: 05300Z timeOfDayStart: 03300Z
	warningInformation	headline: language: text: ROCKET LAUNCHING SCHEDULED. RANGE CLEARANCE AREA ESTABLISHED. SHIPS TO REMAIN CLEAR OF THIS AREA.
	geometry	44-20S 074-45E 44-20S 077-30E 49-10S 074-45E 49-10S 077-30E
	areaAffected	
TextAssociation	Identifies (role)	ID01
	cartographicText (role)	ID02
TextPlacement (ID02)	text	Rocket Launch
	textJustification	right
	geometry	(xxxx)?

Discussion Points:

- 1) The time of the event is may not be required in the “text” field as this is captured by the system in the fixedDateRange section.

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14. Operating anomalies identified within ECDIS including ENC issues

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA I 48/14
2. General area	DISPLAY ANOMALIES IN SOME ECDIS.
3. Locality	MARINERS ARE ADVISED THAT THE INTERNATIONAL
4. Chart number	HYDROGRAPHIC ORGANIZATION (IHO) CHECK DATA SET SHOWS
5. Key subject	THAT SOME ECDIS SYSTEMS FAIL TO DISPLAY SOME SIGNIFICANT
6. Geographical position	UNDERWATER FEATURES IN THE STANDARD DISPLAY MODE. THE
7. Amplifying remarks	USE OF THIS CHECK DATA SET (ISSUED THROUGH ENC SERVICE
8. Cancellation details	PROVIDERS AND AVAILABLE FROM THE IHO WEBSITE WWW.IHO.INT) TO CHECK THE OPERATION OF ECDIS IS STRONGLY RECOMMENDED. XXXX HAS CONFIRMED THAT CERTAIN VERSIONS OF XXXX ECDIS FAIL TO DISPLAY SOME TYPES OF WRECK AND OBSTRUCTION (INCLUDING STRANDED WRECKS) IN ANY DISPLAY MODE. WHERE XXXX ECDIS IS IN USE, PAPER CHARTS SHOULD BE THE PRIMARY MEANS OF NAVIGATION UNTIL THE ECDIS HAS BEEN PROVED TO OPERATE CORRECTLY. SEE HTTP://WWW..... FOR FURTHER INFORMATION.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA I
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 48 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	operating anomalies identified within ECDIS including ENC issues	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DISPLAY ANOMALIES IN SOME ECDIS. MARINERS ARE ADVISED THAT THE INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) CHECK DATA SET SHOWS THAT SOME ECDIS SYSTEMS FAIL TO DISPLAY SOME SIGNIFICANT UNDERWATER FEATURES IN THE STANDARD DISPLAY MODE. THE USE OF THIS CHECK DATA SET (ISSUED THROUGH ENC SERVICE PROVIDERS AND AVAILABLE FROM THE IHO WEBSITE WWW.IHO.INT) TO CHECK THE OPERATION OF ECDIS IS STRONGLY	

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		RECOMMENDED. XXXX HAS CONFIRMED THAT CERTAIN VERSIONS OF XXXX ECDIS FAIL TO DISPLAY SOME TYPES OF WRECK AND OBSTRUCTION (INCLUDING STRANDED WRECKS) IN ANY DISPLAY MODE. WHERE XXXX ECDIS IS IN USE, PAPER CHARTS SHOULD BE THE PRIMARY MEANS OF NAVIGATION UNTIL THE ECDIS HAS BEEN PROVED TO OPERATE CORRECTLY. SEE HTTP://WWW..... FOR FURTHER INFORMATION.
	geometry	(xxxx)?
	areaAffected	

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 Anomolies"? ;
- 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?

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA IV 89/14
2. General area	GULF OF MEXICO.
3. Locality	NEW ORLEANS TO JACKSONVILLE.
4. Chart number	DUE TO A PRODUCTION PROBLEM THAT HAS CAUSED DISPLACED
5. Key subject	FEATURES, IT HAS BEEN DETERMINED THAT ELECTRONIC
6. Geographical position	NAUTICAL CHART US2GC12M (NEW ORLEANS TO JACKSONVILLE) IS
7. Amplifying remarks	NOT TO BE USED FOR NAVIGATION OR SITUATIONAL AWARENESS.
8. Cancellation details	A REVIEW IS IN PROCESS TO ADDRESS THIS SITUATION.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA IV
	locality	localityIdentifier	
		locationName	language: eng text: GULF OF MEXICO
	locality	localityIdentifier	
		locationName	language: eng text: NEW ORLEANS TO JACKSONVILLE
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 48 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	operating anomalies ECDIS / ENC issues	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DUE TO A PRODUCTION PROBLEM THAT HAS CAUSED DISPLACED FEATURES, IT HAS BEEN DETERMINED THAT ELECTRONIC NAUTICAL CHART US2GC12M (NEW ORLEANS TO JACKSONVILLE) IS NOT TO BE USED FOR NAVIGATION OR SITUATIONAL AWARENESS. A REVIEW IS IN PROCESS TO ADDRESS THIS SITUATION.	
	geometry	<i>The geometry should be the bounding box of the ENC in question.</i>	
	areaAffected		

Discussion Points:

- 1) The geometry for this issue should reflect the bounding box of the ENC with the anomaly.

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- 2) Suggest the warningHazardType be unique, as in, "ENC Issues"?

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15. Acts of piracy and armed conflict against ships

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA IX 99/14
2. General area	GULF OF
3. Locality	CHART (INT).
4. Chart number	M/V ALWAYS SAIL REPORTS ACT OF PIRACY/ARMED ROBBERY IN
5. Key subject	VICINITY 11-50N 048- 60E AT 120600 UTC AUG 14. TWO ZODIACS
6. Geographical position	CARRYING 3–4 MEN EACH APPROACHING FROM ASTERN AT 20 KNOTS
7. Amplifying remarks	AT FIRST LIGHT. ATTEMPTED TO BOARD PORT SIDE AFT. SHIPS
8. Cancellation details	ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORTS TO UKMTO DUBAI, PHONE 97 150 552 3215. CANCEL THIS MESSAGE 14 AUG 14.

NWPPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: NAVAREA IX	
	locality	localityIdentifier		
		locationName	language: eng text: GULF OF ADEN	
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 99 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20140814T235900Z		
	publicationDate	20140101T000000Z		
	NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	piracy		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: M/V ALWAYS SAIL REPORTS ACT OF PIRACY/ARMED ROBBERY IN VICINITY 11-50N 048- 60E AT 120600 UTC AUG 14. TWO ZODIACS CARRYING 3–4 MEN EACH APPROACHING FROM ASTERN AT 20 KNOTS AT FIRST LIGHT. ATTEMPTED TO BOARD PORT SIDE AFT. SHIPS ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORTS TO UKMTO DUBAI, PHONE 97 150 552 3215.		
	geometry	11-50N 048- 60E		
	areaAffected			

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA XI 60/14
2. General area	MALACCA STRAIT.
3. Locality	PIRACY ATTACK/ARMED ROBBERY/M/V ATTACKED IN POSITION 01-
4. Chart number	20.6N 103-18.2E AT 061930 UTC FEB 14. VESSELS ARE ADVISED TO
5. Key subject	KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME
6. Geographical position	CAUTION. REPORTS TO IMB PIRACY REPORTING CENTRE, TEL 60 3
7. Amplifying remarks	2078 5763, E-MAIL PIRACY@ICC-CCS.ORG
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XI
	locality	localityIdentifier	
		locationName	language: eng text: MALACCA STRAIT
	messageSeriesIdentifier	country: JP nameOfSeries: NAVAREA XI productionAgency: JP warningIdentifier: warningNumber: 60 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	piracy	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: PIRACY ATTACK/ARMED ROBBERY/M/V ATTACKED AT 061930 UTC FEB 14. VESSELS ARE ADVISED TO KEEP CLEAR OF THIS POSITION AND TO EXERCISE EXTREME CAUTION. REPORTS TO IMB PIRACY REPORTING CENTRE, TEL 60 3 2078 5763, E-MAIL PIRACY@ICC-CCS.ORG	
	geometry	01- 20.6N 103-18.2E	
	areaAffected		

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Example 3

Message element	Example 3
1. Message series identifier	NAVAREA XV
2. General area	231/14 CHILE.
3. Locality	ISLA SAN AMBROSIO AND ISLA SAN FELIX.
4. Chart number	1. FOUR SPEEDBOATS CARRYING 20 PIRATES, ALL ARMED WITH AUTOMATIC WEAPONS, ATTACKED A FISHING BOAT KILLING FOUR CREW AND INJURING EIGHT OTHERS. THE WOUNDED CREW WERE SENT TO SHORE FOR MEDICAL TREATMENT.
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	2. CANCEL THIS MSG 140001 UTC JUN 14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XV
	locality	localityIdentifier	
		locationName	language: eng text: CHILE
	locality	localityIdentifier	
		locationName	language: eng text: ISLA SAN AMBROSIO AND ISLA SAN FELIX
	messageSeriesIdentifier	country: CL nameOfSeries: NAVAREA XV productionAgency: CL warningIdentifier: warningNumber: 231 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140614T000100Z	
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	PIRACY	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: FOUR SPEEDBOATS CARRYING 20 PIRATES, ALL ARMED WITH AUTOMATIC WEAPONS, ATTACKED A FISHING BOAT KILLING FOUR CREW AND INJURING EIGHT OTHERS. THE WOUNDED CREW WERE SENT TO SHORE FOR MEDICAL TREATMENT.	
	geometry	(polygon for encompassing the two islands required)	
	areaAffected		

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA II
2. General area	254/14 NIGERIA.
3. Locality	BONNY RIVER.
4. Chart number	TUGBOAT HERKULES, HIJACKED 25 JUL. SHIP WAS HEADED TO
5. Key subject	AKPO OIL FIELD WHEN GUNMEN IN TWO SPEEDBOATS SEIZED THE
6. Geographical position	SHIP AND ITS 12-MAN CREW. THE GUNMEN LATER RELEASED THE
7. Amplifying remarks	SHIP AND SEVEN CREW MEMBERS. CREW MEMBERS WERE ROBBED
8. Cancellation details	OF THEIR POSSESSIONS. SHIPS ARE REQUESTED TO MAINTAIN A VIGILANT WATCH.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA II
	locality	localityIdentifier	
		locationName	language: eng text: NIGERIA
	locality	localityIdentifier	
		locationName	language: eng text: BONNY RIVER
	messageSeriesIdentifier	country: FR nameOfSeries: NAVAREA II productionAgency: FR warningIdentifier: warningNumber: 254 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	piracy	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: TUGBOAT HERKULES, HIJACKED 25 JUL. SHIP WAS HEADED TO AKPO OIL FIELD WHEN GUNMEN IN TWO SPEEDBOATS SEIZED THE SHIP AND ITS 12-MAN CREW. THE GUNMEN LATER RELEASED THE SHIP AND SEVEN CREW MEMBERS. CREW MEMBERS WERE ROBBED OF THEIR POSSESSIONS. SHIPS ARE REQUESTED TO MAINTAIN A VIGILANT WATCH.	
	geometry	(lat long of Akpo Oil Field required)	
	areaAffected		

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA IX
2. General area	17/14 RED SEA.
3. Locality	YEMEN.
4. Chart number	CHART _____ (INT _____). PIRACY.
5. Key subject	1. M/V APPROACHED BY PIRATES IN POSITION 13-15N 043- 01E AT 271108 UTC JAN 14. SHIPS ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORTS TO UKMTO DUBAI, PHONE 97 150 552 3215.
6. Geographical position	
7. Amplifying remarks	2. CANCEL THIS MESSAGE 01 FEB 14
8. Cancellation details	.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA IX
	locality	localityIdentifier	
		locationName	language: eng text: RED SEA
	locality	localityIdentifier	
		locationName	language: eng Text: YEMEN
	messageSeriesIdentifier	country: PK nameOfSeries: NAVAREA IX productionAgency: PK warningIdentifier: warningNumber: 17 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140201T235900Z	
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	piracy	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: M/V APPROACHED BY PIRATES AT 271108 UTC JAN 14. SHIPS ADVISED TO KEEP CLEAR OF THIS POSITION AND EXERCISE EXTREME CAUTION. REPORTS TO UKMTO DUBAI, PHONE 97 150 552 3215.	
	geometry	13-15N 043- 01E	
	areaAffected		

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

Example 1

Message element	Example 5
1. Message series identifier	NAVAREA XI 95/14
2. General area	HOKKAIDO, EAST COAST AND OKHOTSK
3. Locality	COAST. TSUNAMI WARNING.
4. Chart number	TSUNAMI WARNING AT 130436 UTC JAN 14. DANGEROUS DRIFTING
5. Key subject	OBJECTS, CHANGE OF DEPTH AND DAMAGE OF HARBOUR FACILITIES
6. Geographical position	OR NAVIGATIONAL AIDS MAY OCCUR.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier		
		locationName	language: eng text: NAVAREA XI	
	locality	localityIdentifier		
		locationName	language: eng text: HOKKAIDO, EAST COAST	
	locality	localityIdentifier		
		locationName	language: eng text: OKHOTSK COAST	
	messageSeriesIdentifier	country: JA nameOfSeries: NAVAREA XI productionAgency: JA warningIdentifier: warningNumber: 95 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____		
	title			
	cancellationDate			
publicationDate	20140101T000000Z			
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	Tsunami warning		
	warningHazardType*			
	featureName			
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: TSUNAMI WARNING AT 130436 UTC JAN 14. DANGEROUS DRIFTING OBJECTS, CHANGE OF DEPTH AND DAMAGE OF HARBOUR FACILITIES OR NAVIGATIONAL AIDS MAY OCCUR.		
	geometry	(polygon of area required for plotting NW)		
	areaAffected			

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA XII 55/14
2. General area	PACIFIC COASTAL AREAS.
3. Locality	TSUNAMI WARNING.
4. Chart number	AN EARTHQUAKE OCCURRED AT 152341 UTC AUG 14. PRELIMINARY
5. Key subject	MAG 7.9. PRELIMINARY LOCATION VICINITY OF PERU COAST 13-5S 076-
6. Geographical position	7W. A TSUNAMI WARNING IS IN EFFECT FOR PERU, CHILE, ECUADOR
7. Amplifying remarks	AND COLOMBIA. A TSUNAMI WATCH IS IN EFFECT FOR PANAMA, COSTA
8. Cancellation details	RICA, NICARAGUA, GUATEMALA, EL SALVADOR, MEXICO AND
	HONDURAS. A TSUNAMI ADVISORY IS ISSUED FOR THE STATE OF
	HAWAII EFFECTIVE AT 160020 UTC AUG 14. A TSUNAMI HAS BEEN
	GENERATED WHICH COULD CAUSE DAMAGE TO COASTS AND ISLANDS
	IN THE PACIFIC AREA. 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: NAVAREA XII
	locality	localityIdentifier	
		locationName	language: eng text: PACIFIC COASTAL AREAS
	messageSeriesIdentifier	country: USA nameOfSeries: NAVAREA XII productionAgency: USA warningIdentifier: warningNumber: 55 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
theWarningPart (role)		ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Tsunami warning	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: AN EARTHQUAKE OCCURRED AT 152341 UTC AUG 14. PRELIMINARY MAG 7.9. PRELIMINARY LOCATION VICINITY OF PERU COAST. A TSUNAMI WARNING IS IN EFFECT FOR PERU, CHILE, ECUADOR AND COLOMBIA. A TSUNAMI WATCH IS IN EFFECT FOR PANAMA, COSTA RICA, NICARAGUA, GUATEMALA, EL SALVADOR, MEXICO AND HONDURAS. A TSUNAMI ADVISORY IS ISSUED FOR THE STATE OF HAWAII EFFECTIVE AT 160020 UTC AUG 14. A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO COASTS AND ISLANDS IN THE PACIFIC AREA. TSUNAMI WAVE HEIGHTS CANNOT BE PREDICTED AND	

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		MAY BE A SERIES OF WAVES WHICH COULD BE DANGEROUS FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.
	geometry	13-5S 076-7W
	areaAffected	

Discussion Points:

- 1) The geometry is the reported location of the event. Do we need to expand this geometry to capture the danger zone of potential tsunami?
- 2) In this example, there is one Tsunami Warning and one Tsunami Advisory? Shouldn't these be captured as two unique NavigationalWarningFeatureParts?

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Example 3

Message element	Example 3
1. Message series identifier	SUBAREA I 233/14
2. General area	SOUTHERN BALTIC, THE BELTS, THE SOUND.
3. Locality	THE WATER LEVEL IS EXPECTED TO DROP 80 CM BELOW MSL
4. Chart number	AFTERNOON 20 AUG 14, RISING TO ABOUT MSL MORNING 21 AUG 14.
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA I
	generalArea	localityIdentifier	
		locationName	language: eng text: SUBAREA I
	locality	localityIdentifier	
		locationName	language: eng text: SOUTHERN BALTIC
	locality	localityIdentifier	
		locationName	language: eng text: THE BELTS
	locality	localityIdentifier	
		locationName	language: eng text: THE SOUND
	messageSeriesIdentifier	country: SW nameOfSeries: SUBAREA I productionAgency: SW warningIdentifier: warningNumber: 233 warningType: (3) SUBAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Tsunami and other natural phenomena	
	warningHazardType*	Water levels changed	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: THE WATER LEVEL IS EXPECTED TO DROP 80 CM BELOW MSL AFTERNOON 20 AUG 14, RISING TO ABOUT MSL MORNING 21 AUG 14	
	geometry	(polygon) of "The Sound"?	
areaAffected			

Discussion Points:

- 1) Is this the correct use of a generalArea for the NAVAREA I SubArea 1?

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- 2) Is the water level affected in all these described areas or just “the Sound”? If all areas, the polygon needs to capture the entire area.

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Example 4

Message element	Example 4
1. Message series identifier	NAVAREA XVI 05/14
2. General area	PERU.
3. Locality	TSUNAMI WARNING.
4. Chart number	AN EARTHQUAKE HAS OCCURRED AT 211128 UTC JAN WITH A
5. Key subject	PRELIMINARY MAGNITUDE OF 7.6 VICINITY 07-23N 086-49W. A
6. Geographical position	TSUNAMI HAS BEEN GENERATED.
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XVI
	locality	localityIdentifier	
		locationName	language: eng text: PERU
	messageSeriesIdentifier	country: PE nameOfSeries: NAVAREA XVI productionAgency: PE warningIdentifier: warningNumber: 05 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Tsunami warning	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: AN EARTHQUAKE HAS OCCURRED AT 211128 UTC JAN WITH A PRELIMINARY MAGNITUDE OF 7.6. A TSUNAMI HAS BEEN GENERATED.	
	geometry	07-23N 086-49W	
	areaAffected		

Discussion Points:

- 1) For this event, with such a vague message, is the epi-centre of the earthquake sufficient or should there be a 'buffer' zone established around the area?

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Example 5

Message element	Example 5
1. Message series identifier	NAVAREA XIV 319/14
2. General area	NEW ZEALAND, NORTH ISLAND, SOUTH ISLAND, EAST COAST.
3. Locality	DUE TO TSUNAMI AFTERMATH ALL AIDS TO NAVIGATION IN NORTH AND SOUTH ISLANDS ARE UNRELIABLE.
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA XIV
	locality	localityIdentifier	
		locationName	language: eng text: NEW ZEALAND
	locality	localityIdentifier	
		locationName	language: eng text: NORTH ISLAND
	locality	localityIdentifier	
		locationName	language: eng text: SOUTH ISLAND
	locality	localityIdentifier	
		locationName	language: eng text: EAST COAST
	messageSeriesIdentifier	country: NZ nameOfSeries: NAVAREA XIV productionAgency: NZ warningIdentifier: warningNumber: 05 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	aids to navigation	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: DUE TO TSUNAMI AFTERMATH ALL AIDS TO NAVIGATION IN NORTH AND SOUTH ISLANDS ARE UNRELIABLE.	
	geometry	(polygon required)	
	areaAffected		

Discussion Points:

- 1) The polygon for this area would need to be developed to ensure plotting on ECDIS.
- 2) Is the warningHazardType correct or should it link to Tsunami?

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17. World Health Organization (WHO) health advisory information

Example 1

Message element	Example 1
1. Message series identifier	NAVAREA IV 250/14
2. General area	FLORIDA.
3. Locality	SOUTH COAST.
4. Chart number	THE WORLD HEALTH ORGANIZATION HAS ADVISED THAT AN
5. Key subject	OUTBREAK OF BIRD FLU HAS OCCURRED IN THE VICINITY OF MIAMI.
6. Geographical position	SHIPS THAT VISITED THIS PORT SINCE 20 JAN 14 AND THOSE
7. Amplifying remarks	PLANNING TO VISIT SHOULD CONSULT WWW.WHO.INT FOR MORE
8. Cancellation details	INFORMATION.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA IV
	locality	localityIdentifier	
		locationName	language: eng text: Florida
	locality	Locality Identifier	
		locationName	Language: eng text: South Coast
	messageSeriesIdentifier	country: US nameOfSeries: NAVAREA IV productionAgency: US warningIdentifier: warningNumber: 250 warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	World Health Organization	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: THE WORLD HEALTH ORGANIZATION HAS ADVISED THAT AN OUTBREAK OF BIRD FLU HAS OCCURRED IN THE VICINITY OF MIAMI. SHIPS THAT VISITED THIS PORT SINCE 20 JAN 14 AND THOSE PLANNING TO VISIT SHOULD CONSULT WWW.WHO.INT FOR MORE INFORMATION.	
	geometry	(polygon from Miami seawards, but how far?)	
	areaAffected		

Discussion Points:

- 1) The geometry polygon should ensure vessels enroute can make arrangements – so how far out from “Miami” should the radius extend to ensure plotting on ECDIS?

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18. Security Related Requirements

Example 1

Message Element	Example 1
1. Message series identifier	NAVAREA I 88/14
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) navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00	
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction	7 (entry prohibited)	
	warningHazardType	Maritime security – MARSEC Level change	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: 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.	
	geometry	(polygon required)	
	areaAffected		

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Example 2

Message element	Example 2
1. Message series identifier	NAVAREA XI 111/14
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: 88 warningType: (4) navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	Maritime security – MARSEC Level change	
	warningHazardType*		
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: 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.	
	geometry	(polygon required)	
	areaAffected		

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Miscellaneous

In-Force Bulletin

Message element	Example 1
1. Message series identifier	NAVAREA I 295/14
2. General area	1. NAVAREA I WARNINGS IN FORCE AT 051000 UTC OCT 14: 2012
3. Locality	SERIES: 317.
4. Chart number	2013 SERIES: 303.
5. Key subject	2014 SERIES: 212, 220, 227, 246, 249, 255, 256,
6. Geographical position	274, 276, 277, 279, 286, 288, 290, 291, 292, 295.
7. Amplifying remarks	NOTES:
8. Cancellation details	A. TEXTS OF NAVAREA I WARNINGS ISSUED EACH WEEK ARE PRINTED IN WEEKLY EDITIONS OF NOTICES TO MARINERS. B. NAVAREA I WARNINGS LESS THAN 42 DAYS OLD (246/14 ONWARD) ARE PROMULGATED VIA SAFETYNET AND/OR RELEVANT NAVTEX TRANSMITTERS. C. THE COMPLETE TEXT OF ALL IN-FORCE NAVAREA I WARNINGS, INCLUDING THOSE WHICH ARE NO LONGER BEING BROADCAST, ARE REPRINTED IN NOTICE TO MARINERS IN WEEKS 1, 13, 26 AND 39 AND ARE ALSO CONSTANTLY AVAILABLE FROM UKHO WEBSITE AT: WWW.UKHO.GOV.UK/RNW.
	2. CANCEL NAVAREA I 289/14.

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA I
	locality	localityIdentifier	
		locationName	language: eng text: NAVAREA I
	messageSeriesIdentifier	country: GB nameOfSeries: NAVAREA I productionAgency:GB warningIdentifier: warningNumber:295 warningType: (9) NAVAREA in force bulletin year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT____	
	title		
	cancellationDate		
	publicationDate	20140101T000000Z	
	NWReferences	theWarning (role)	ID00
	theReferences (role)	ID01, ID02, ID03, ID04, ID05, ID06, ID07, ID08, ID09, ID10, ID11, ID12, ID13, ID14, ID15, ID16, ID17, ID18, ID19, ID20, ID21	
References (ID01)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency:GB warningIdentifier: warningNumber:289 warningType: (9) NAVAREA in force bulletin year: 14	
	No MessageOnHand	false	
	referenceCategory	Cancellation (1)	
References (ID02)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency:GB warningIdentifier: warningNumber:317	

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		warningType: (4) NAVAREA navigational warning year: 12
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID03)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 303 warningType: (4) NAVAREA navigational warning year: 13
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID04)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 212 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID05)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 220 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID06)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 227 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID07)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 246 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID08)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 249 warningType: (4) NAVAREA navigational warning

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		year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID09)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 255 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID10)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 256 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID11)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 274 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID12)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 276 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID13)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 277 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID14)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 279 warningType: (4) NAVAREA navigational warning year: 14

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	No MessageOnHand	
	referenceCategory	In force (5)
References (ID15)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber: 286 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID16)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 288 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID17)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 290 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID18)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 291 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID19)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 292 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	
	referenceCategory	In force (5)
References (ID20)	Message series identifier	country: GB nameOfSeries: NAVAREA I productionAgency: GB warningIdentifier: warningNumber 295 warningType: (4) NAVAREA navigational warning year: 14
	No MessageOnHand	

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	referenceCategory	In force (5)
NavigationalWarningFeaturePart (ID21)	restriction	
	warningHazardType	*** (no type exists)
	warningHazardType*	Other: in-force bulletin
	featureName	
	featureReference	
	fixedDateRange	
	warningInformation	<p>headline: language: text: A. TEXTS OF NAVAREA I WARNINGS ISSUED EACH WEEK ARE PRINTED IN WEEKLY EDITIONS OF NOTICES TO MARINERS. B. NAVAREA I WARNINGS LESS THAN 42 DAYS OLD (246/14 ONWARD) ARE PROMULGATED VIA SAFETYNET AND/OR RELEVANT NAVTEX TRANSMITTERS. C. THE COMPLETE TEXT OF ALL IN-FORCE NAVAREA I WARNINGS, INCLUDING THOSE WHICH ARE NO LONGER BEING BROADCAST, ARE REPRINTED IN NOTICE TO MARINERS IN WEEKS 1, 13, 26 AND 39 AND ARE ALSO CONSTANTLY AVAILABLE FROM UKHO WEBSITE AT: WWW.UKHO.GOV.UK/RNW.</p>
	geometry	no geometry
	areaAffected	

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.

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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?

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Cancellation Message:

Example 1:

Message element	Example 1
1. Message series identifier	NAVAREA VII 126/14
2. General area	CANCEL NAVAREA VII 100/14 BAIXO RIBEIRO LIGHT, NORMAL
3. Locality	CONDITIONS RESTORED.
4. Chart number	
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA VII
	locality	localityIdentifier	
		locationName	language: eng text: NAVAREA VII
	messageSeriesIdentifier	country: ZA nameOfSeries: NAVAREA VII productionAgency: ZA warningIdentifier: warningNumber: 124 warningType:	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140101TxxxxxxZ	
	publicationDate	20140101T000000Z	
	NWReferences	theWarning (role)	ID00
	theReferences (role)	ID01	
References (ID01)	Message series identifier	country: ZA nameOfSeries: NAVAREA VII productionAgency: IN warningIdentifier: warningNumber: 100 warningType: (4) NAVAREA navigational warning year: 14	
	No MessageOnHand	false	
	referenceCategory	Cancellation (1)	

Discussion Points:

- 1) Cancellation and in-force bulletin messages do not require a NavigationalWarningFeaturePart.
- 2) One function of a Navigational Warning is for dataset management (i.e. cancellations and in-force bulletins).
- 3) 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.
- 4) 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.
- 5) What is the standard for the date/time to be used in the cancellationDate for a self cancelling NW?

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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	<p>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.</p> <p>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</p>
	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 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 (SERVICIOS/RADIOAVISOS/RADIOWARNINGS/PROVISIONS OF THE NATIONAL MARITIME AUTHORITY). ALL SHIPS ARE REQUESTED TO SEND IN CLEAR TEXT, WIND, SEA AND ATMOSPHERIC PRESSURE REPORTS, TO CHILREP.
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: 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	
NWPreambleContent	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		

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Website out of Service

Message element	Example 1
1. Message series identifier	NAVAREA VIII 43/14 NAVAREA VIII WEBSITE. 1. NAVAREA VIII WEBSITE UNUSABLE 122300 UTC TO 132300 UTC NOV 14. FOR URGENT SERVICE, CONTACT NAVAREA VIII, PHONE: 91 135 274 7365, FAX: 91 135 274 8373, E-MAIL: INHO_MARINESAFETY@DATAONE.IN. 2. CANCEL THIS MSG 140001 UTC NOV 14.
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: NAVAREA VIII	
	messageSeriesIdentifier	country: IN nameOfSeries: NAVAREA VIII productionAgency: IN warningIdentifier: warningNumber: 43 warningType: (4) NAVAREA navigational warning year: 14		
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____		
	title			
	cancellationDate	20141114T000100Z		
	publicationDate	20140101T000000Z		
NWPreambleContent	header (role)	ID00		
	theWarningPart (role)	ID01		
NavigationalWarningFeaturePart (ID01)	restriction			
	warningHazardType	MSI Services		
	warningHazardType*			
	featureName	NAVAREA VIII WEBSITE		
	featureReference			
	fixedDateRange			
	warningInformation	headline: language: text: NAVAREA VIII WEBSITE UNUSABLE. FOR URGENT SERVICE, CONTACT NAVAREA VIII PHONE: 91 135 274 7365 FAX: 91 135 274 8373 E-MAIL: INHO_MARINESAFETY@DATAONE.IN.		
	geometry	(polygon of NAVAREA VIII)?		
	areaAffected			

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 43/14
2. General area	SPACE WEATHER.
3. Locality	1. STRONG SOLAR RADIATION STORM IN PROGRESS UNTIL 081000 UTC MAR 14. RADIO AND SATELLITE NAVIGATION SERVICES MAY BE AFFECTED.
4. Chart number	2. CANCEL THIS MSG 081100 UTC MAR 14.
5. Key subject	
6. Geographical position	
7. Amplifying remarks	
8. Cancellation details	

NWPreamble (ID00)	generalArea	localityIdentifier	
		locationName	language: eng text: NAVAREA IV
	messageSeriesIdentifier	country:US nameOfSeries: NAVAREA IV productionAgency: 550 warningIdentifier: warningNumber: warningType: (4) NAVAREA navigational warning year: 14	
	affectedChartPublications	chartAffected: ____ internationalChartAffected: INT ____	
	title		
	cancellationDate	20140308T110000Z	
	publicationDate	20140101T000000Z	
	NWPreambleContent	header (role)	ID00
	theWarningPart (role)	ID01	
NavigationalWarningFeaturePart (ID01)	restriction		
	warningHazardType	*current list has no Type	
	warningHazardType*	other: space weather	
	featureName		
	featureReference		
	fixedDateRange		
	warningInformation	headline: language: text: STRONG SOLAR RADIATION STORM IN PROGRESS. RADIO AND SATELLITE NAVIGATION SERVICES MAY BE AFFECTED.	
	geometry	(polygon of NAVAREA IV)?	
areaAffected			

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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.

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			
	Geometry (2)	Polygon limited by a curve boundary of type		

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		S100_CircleByCenterPoint 24-17.8S 042- 39.8W (center point) interpolation=circularArcCenterPointWithRadius radius=10NM
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Annex B – S-124 data model (@2019-07-04)

