



11th Meeting of the S-129 Project Team

VTC, 30 April 2024



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OVERVIEW

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- Review of meeting agenda
- Review of outstanding action items
- S-129 Edition 1.2.0 – Known changes
- S-129 Edition 1.2.0 – Suggested changes
- S-129 Portrayal
- S-100 Edition 5.2.0 changes
- S-129 Dataset Cancellation
- S-129 TDS
- Routes
- Technical Service Specification
- Validation Checks
- PS changes
- Next meetings

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OUTSTANDING ACTION ITEMS

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Action	Description	Assignee	Status
PT8-3	Obtain feedback from Mikko (NCWG) and Izzy (KHOA) regarding S-129 feature portrayal	Jason R	Outstanding
PT8-5	Discuss Exchange Set preparation with Jonathan Pritchard (IIC Technologies)	Jason R	Outstanding
PT8-8	Produce test datasets based on S-129 Edition 1.1.0	Jason R, Chris H	In progress
PT8-10	Provide 1.1.0 FC, PC, TDS to KRISO & NIWC for testing on viewer software	S-129 PT / Jason R	Outstanding
PT8-11	Identify and incorporate any necessary updates in S-129 Production Specification, pertaining to S-421	Jason R, Hannu P	In Progress
PT9-03	Set "UKC analysis area" transparency at 50% in S-129 Portrayal Catalogue	Jason R / KMOU	In Progress
PT9-04	Update description for UnderKeelClearancePlan's spatial attribute in S-129 Product Specification	Jason R	Outstanding
PT9-05	Amend PC - "no-go" and "almost no-go" areas as solid fill with 50% transparency	KMOU	In Progress
PT9-07	update remarks against "sourceRouteName" and "sourceRouteVersion" attributes as per above in S-129 PS	Jason R, Lindsay P	In Progress
PT9-08	Review Edition 5.2.0 redlines when available, and analyse impact on S-129	Jason R / S-129 PT	In Progress
PT9-09	Check multiplicity of "temporalExtent" and "editionNumber" metadata in S-129 PS, and make mandatory (if not already)	Jason R	Outstanding
PT9-10	S-98 Annex C 21.3 to be checked for any description of cancellation through same dataset filenames	Jason R	Outstanding
PT9-11	Update S-129 PS Chapter 18 with 20MB data size limit	Jason R, Lindsay P	In Progress
PT9-12	Schedule VTC for Validation Check discussions	Jason R	Outstanding

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OUTSTANDING ACTION ITEMS (CONT.)

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Action	Description	Assignee	Status
PT10-01	Provide S-164 subgroup with S-129 test dataset scenarios and accompanying mock-up images	Jason R / S-129 PT	In Progress
PT10-02	Seek S-100 WG guidance on S-100 Edition 5.2.0 changes that could impact S-129	Jason R	In Progress
PT10-03	Add S-129 Edition 1.1.0 schema to schema server	Raphael M	In Progress
PT10-04	Follow TSM10 outcomes with regards to dataset cancellation, and amend S-129 Product Specification as necessary	Jason R	In Progress
PT10-05	Chair to enquire S-100 Working Group on direction for developing the Technical Service Specification	Jason R	Closed
PT10-06	Review S-129 SharePoint page content and remove superseded information/data	Jason R / Lindsay P	Outstanding
PT10-07	Discuss with Jeff Wootten on ways to streamline the management of new IHO GI Registry concepts	Jason R / Lindsay P	Outstanding
PT10-08	Propose dates for next S-129 PT VTC meetings	Jason R	Outstanding



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S-129 FC & SCHEMA UPDATES

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- General compliance to S-100 5.x
- Unit of measurement
- Constraints
- Definitions



Table 5-A-13 — S100_FC_SimpleAttribute

Role Name	Name	Description	Mult	Type	Remarks
Class	S100_FC_SimpleAttribute	Attribute that carries a value	-	-	Derived from S100_FC_Attribute
Attribute	valueType	The value type of this feature attribute	1	S100_CD_AttributeValueType	
Attribute	uom	Unit of measure used for values of this feature attribute	0..1	S100_UnitOfMeasure	
Attribute	quantitySpecification	Specification of the quantity	0..1	S100_CD_QuantitySpecification	
Role	constraints	Constraints which may apply to the attribute	0..1	S100_CD_AttributeConstraints	Composition
Role	listedValue	Set of listed values for an enumerated attribute domain	0..*	S100_FC_ListedValue	Composition. Applies only if valueType is Enumeration or EnumeratedValue

2a-4.2.10 S100_CD_AttributeConstraints

Role Name	Name	Description	Mult	Type	Remarks
Class	S100_CD_AttributeConstraints	Constraints of a simple attribute	-	-	
Attribute	stringLength	Shall be represented as a positive integer (that is, greater than zero) that specifies the maximum number of characters that may be assigned to the text attribute type. If not specified, then the text length shall be unconstrained	0..1	PositiveInteger	

Attribute	textPattern	A character string that specifies a scheme of one or more constraints on the structure of the text values that may be assigned to the attribute. This shall be achieved by using a regular expression. W3C XML Schema Part 2: Datasets Second Edition, Appendix F (Regular Expressions) shall be used to define text patterns in this standard	0..1	CharacterString	
Attribute	range	Specifies the range of allowed numeric values	0..1	S100_NumericRange	
Attribute	precision	Specifies the precision of a real number	0..1	NonNegativeInteger	

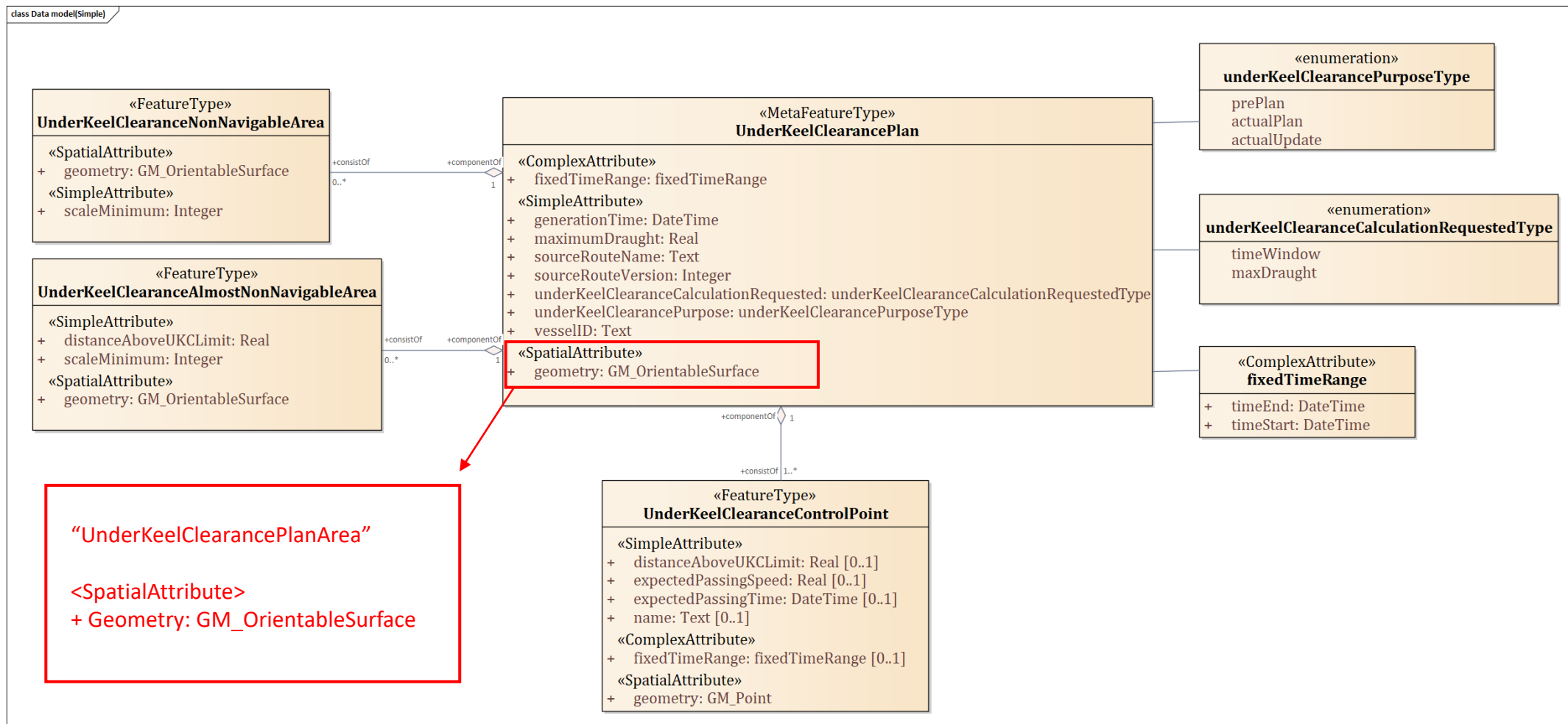


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OTHER SUGGESTED CHANGES TO S-129

Separate attribute for UKCM plan area boundary

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OTHER SUGGESTED CHANGES TO S-129

Indication of Input Information Completeness

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Role Name	Name	Description	Mult	Type	Remarks
Attribute	temporalExtent	Specification of the temporal extent of the dataset	0..1	S100_TemporalExtent	The temporal extent is encoded as the date/time of the earliest and latest data records (in coverage datasets) or date/time ranges (in vector datasets) If there is more than one feature in a dataset, the earliest and latest time values of records in all features are used, which means the earliest and latest values may be from different features If date/time information for a feature is not encoded in the dataset, it is treated for the purposes of this attribute as extending indefinitely in the appropriate direction on the time axis, limited by the issue date/time or the cancellation or supersession of the dataset This attribute is encoded if and only if at least one of the start and end of the temporal extent is known
Attribute	productSpecification	The Product Specification used to create this dataset	1	S100_ProductSpecification	
Attribute	producingAgency	Agency responsible for producing the data	1	CI_Responsibility>CI_Organisation	See Table 17-3
Attribute	producerCode	The official IHO Producer Code from S-62	0..1	CharacterString	
Attribute	encodingFormat	The encoding format of the dataset	1	S100_EncodingFormat	
Attribute	dataCoverage	Provides information about data coverages within the dataset	0..*	S100_DataCoverage	
Attribute	comment	Any additional information	0..1	CharacterString	
Attribute	defaultLocale	Default language and character set used in the dataset	0..1	PT_Locale	In absence of defaultLocale the language is English, UTF-8
Attribute	otherLocale	Other languages and character sets used in the dataset	0..*	PT_Locale	
Attribute	metadataPointOfContact	Point of contact for metadata	0..1	CI_Responsibility>CI_Individual or CI_Responsibility>CI_Organisation	Only if metadataPointOfContact is different to producingAgency
Attribute	metadataDateStamp	Date stamp for metadata	0..1	Date	May or may not be the issue date
Attribute	replacedData	Indicates if a cancelled dataset is replaced by another data file(s)	0..1	Boolean	See Note



- Sources of Route Information:
 - S-421 – preferred, but unavailable immediately
 - RTZ
 - by Data Producer
- S-129 <-> S-421 interaction
→ to be detailed in TSS
- S-129 PS updates to attribute remarks

18.4 Support Files

The only support file type allowed for S-129 is an optional file describing the route which was used to calculate the S-129 dataset. Changes to the route during transit should be kept to a minimum, and the file should be included only when it is changed. The specific route file is identified within the S-129 dataset by the following simple attributes:

- sourceRouteName
- sourceRouteVersion



File Types	Extensions	Comment
XML		
	RTZ	An XML file format for Route Exchange as specified in edition 4 of IEC 63173-1.

S-129

November 2023

Edition 1.1.0

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Under Keel Clearance Management Information Product Specification

		An XML file format for Route Exchange as specified in S-421 when published.
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Table 18-1 – Support file format



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ROUTE INFORMATION

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Format:

- Text & Integer?
- MRNs?

To ask S-421 PT

7.2.1.1 UnderKeelClearancePlan

Role	Name	Description	Mult	dataType	Remarks
Class	UnderKeelClearancePlan	A UKC plan calculated for a particular ship and a particular passage		MetaFeatureType	
SimpleAttribute	generationTime	Time the UKC plan was generated	[0..1]	DateTime	
SimpleAttribute	vesselID	Vessel identifier, based on MRN. Can be either IMO or MMSI based	[0..1]	Text	
SimpleAttribute	sourceRouteName	Identification of the route used as a source for the calculation	[0..1]	Text	Using the value of S-421.Route.routeInfoName
SimpleAttribute	sourceRouteVersion	Identification of the route used as a source for the calculation	[0..1]	Integer	Using the value of S-421.RouteHistory.routeHistoryEditionNo



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S-100 Validation Checks

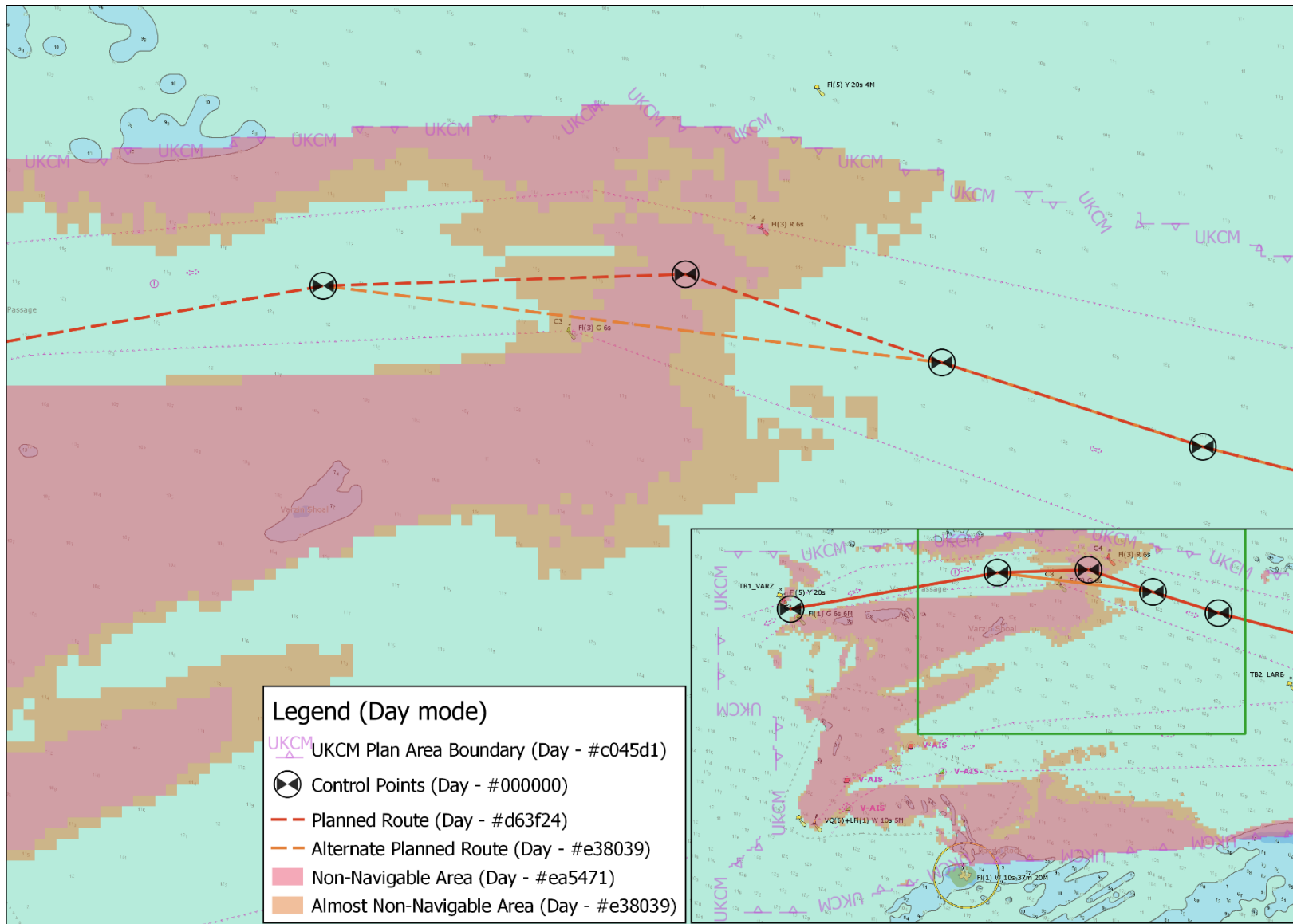
Elizabeth Hahessy



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S-129 EDITION 1.2.0 – PORTRAYAL CATALOGUE UPDATES

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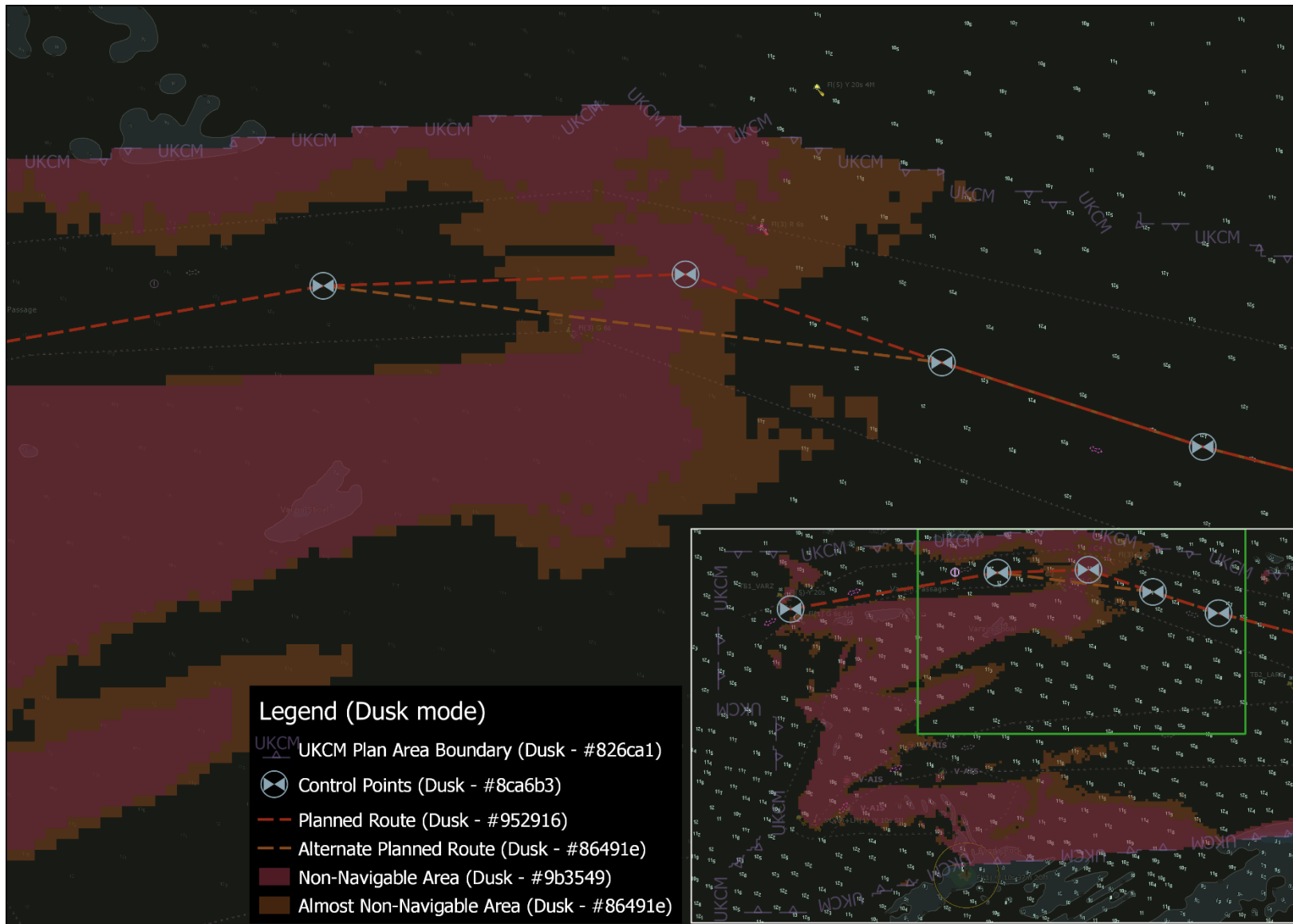




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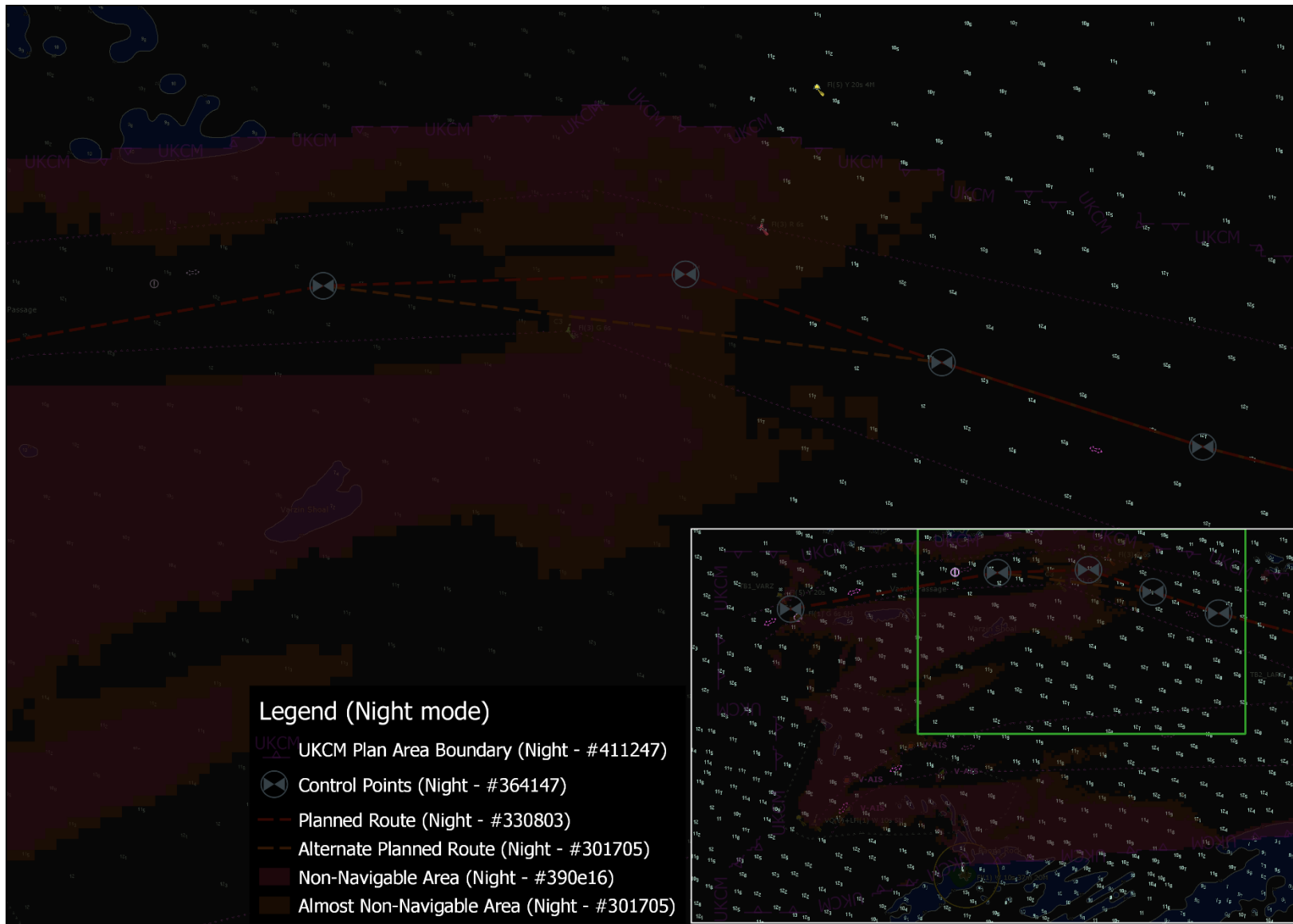




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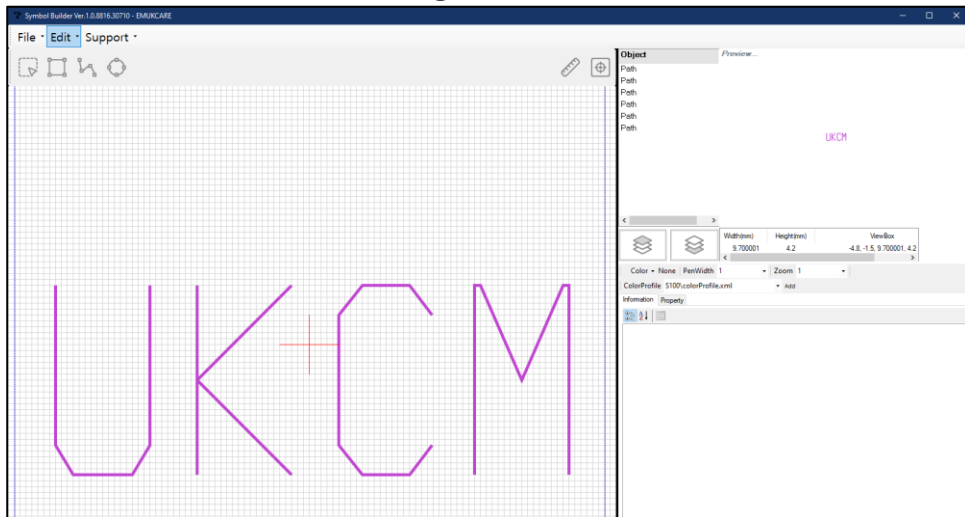


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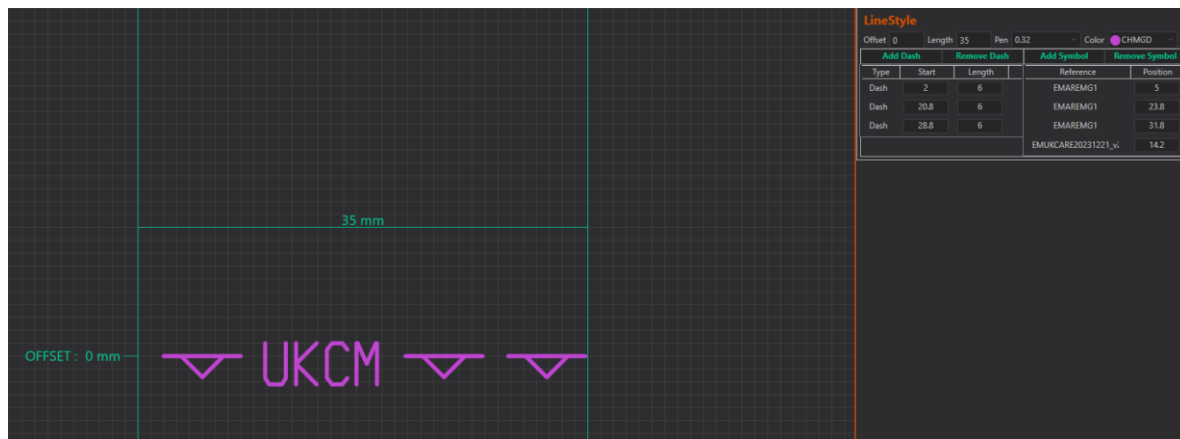
S-129 EDITION 1.2.0 – PORTRAYAL CATALOGUE UPDATES

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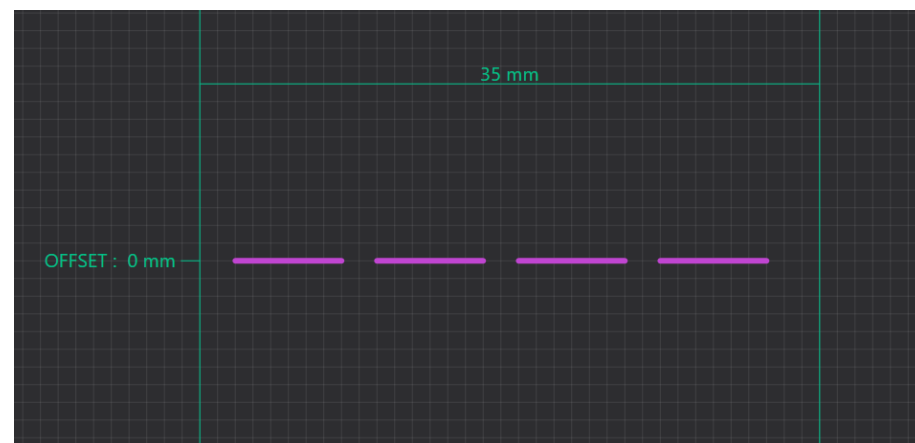
EMUKCARE_20231221_v2.svg



UKCARE01_20240110.xml



Plain version:





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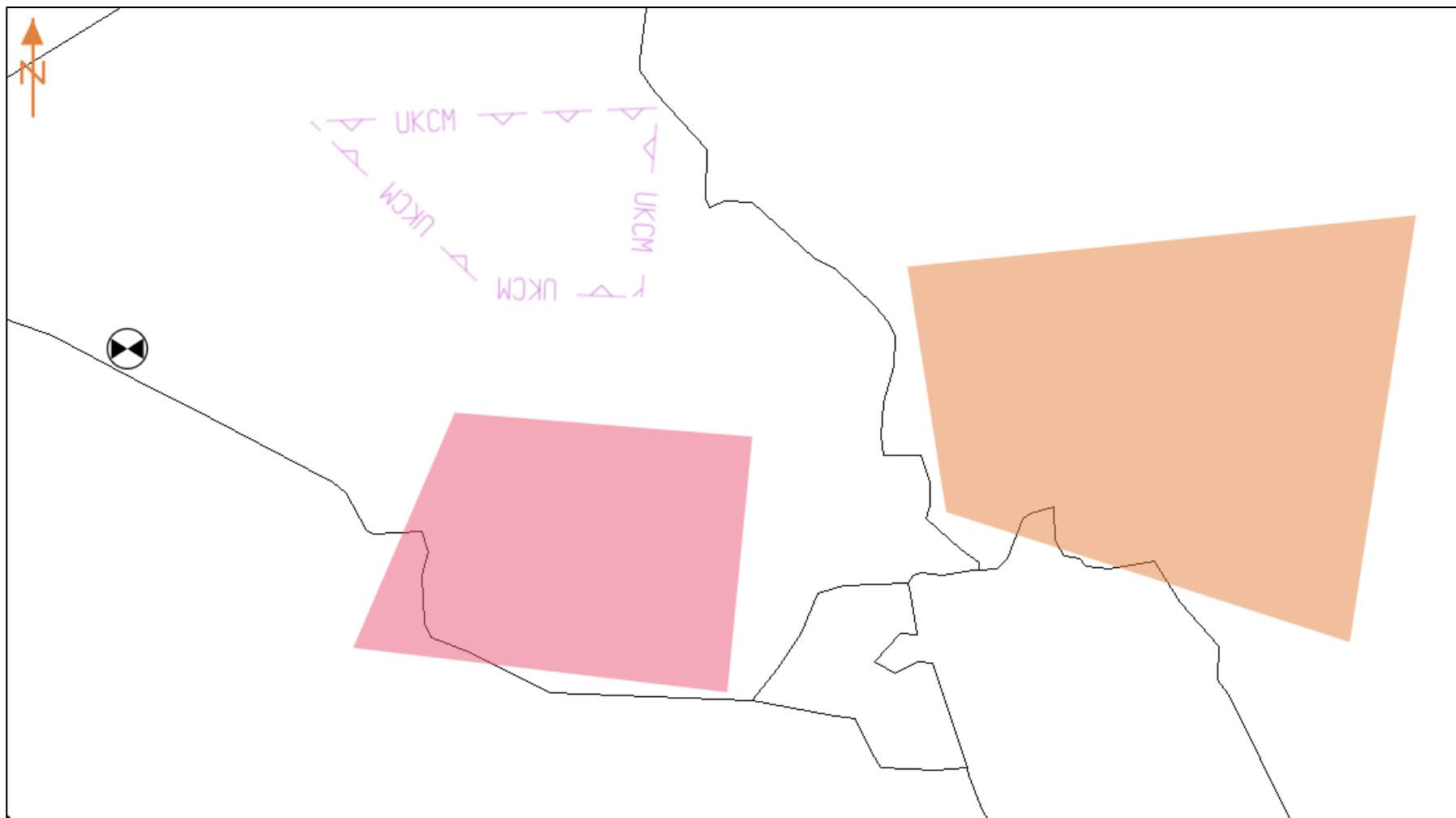
- PC updates:
 - UKCM area
 - Add LineStyle and symbol
 - Allow “plain version” LineStyle option
 - Set transparency to 50%
 - *UnderKeelClearanceNonNavigableArea* & *UnderKeelClearanceAlmostNonNavigableArea*
 - Solid color fill - set transparency to 50%



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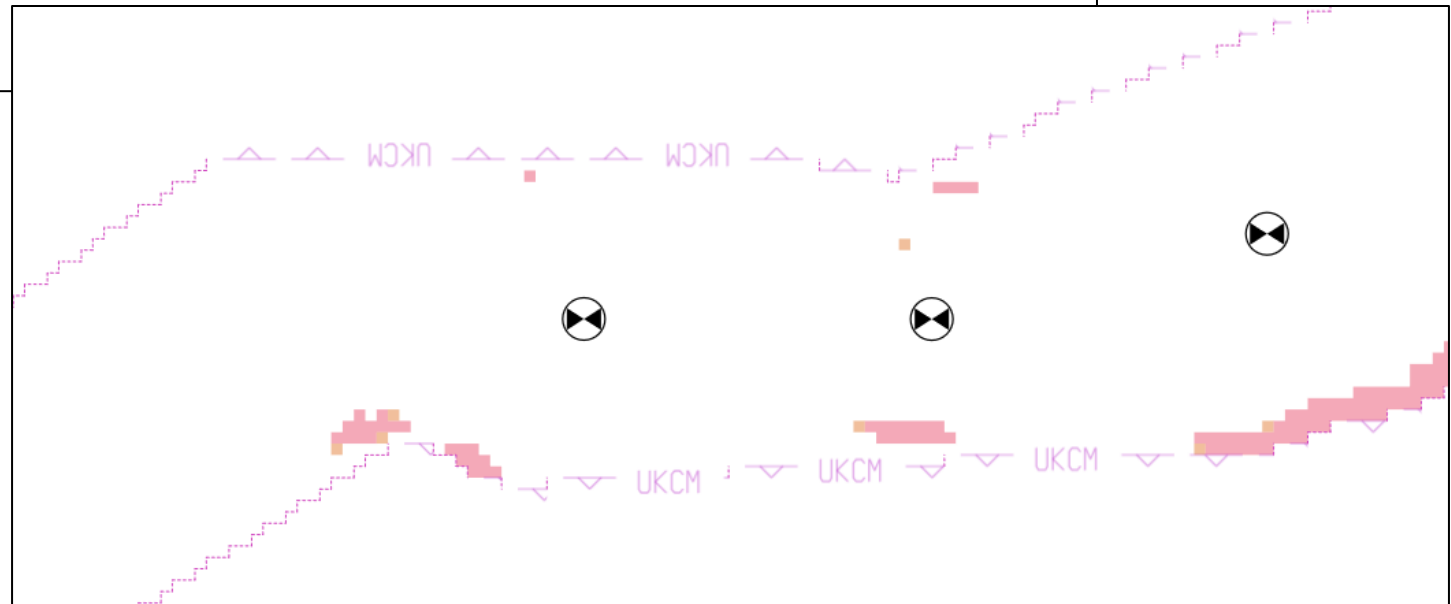
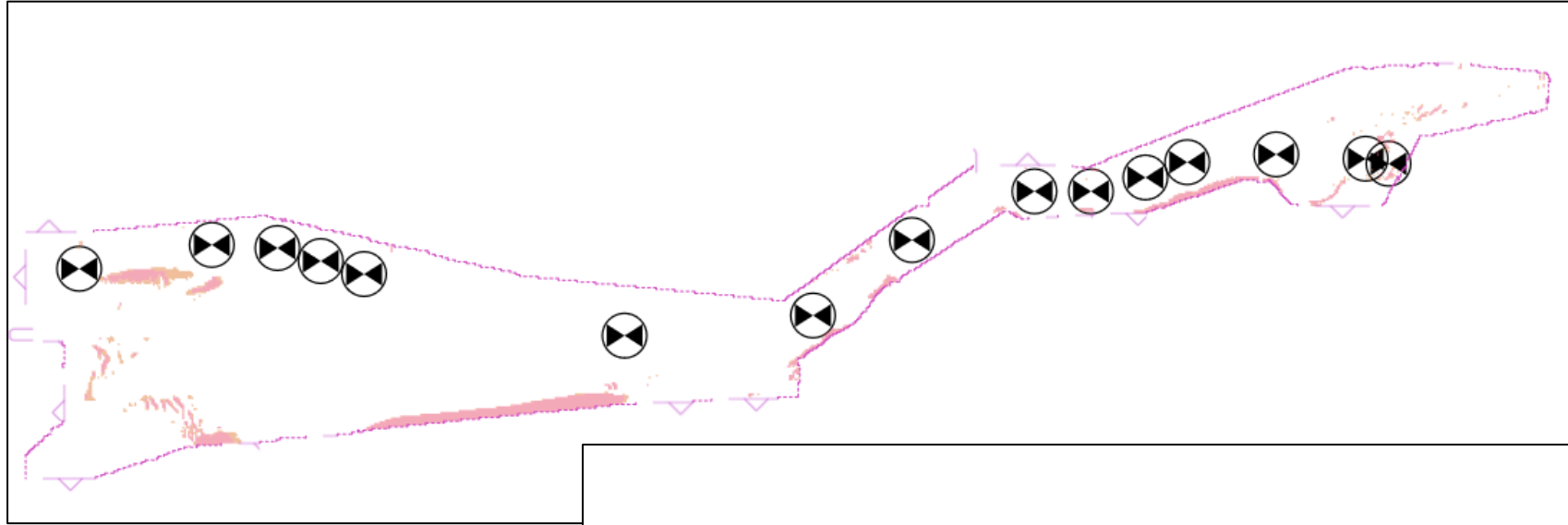




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DATASET CANCELLATION

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	Self-Cancellation	Cancellation Update (via update Dataset)	Fileless Cancellation
Metadata Used	<ul style="list-style-type: none">temporalExtent	<ul style="list-style-type: none">editionNumberissueDate	<ul style="list-style-type: none">S100_Purpose
Requirements		<ul style="list-style-type: none">Same filename as DS to be cancellededitionNumber = 0?issueDate > issueDate of cancelled DS	<ul style="list-style-type: none">All mandatory metadata set to same values as original

Ref: S-100 17-4.4.1



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Technical Service Specification

Thomas Christensen



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S-129 EDITION 1.2.0 – PRODUCT SPECIFICATION

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- Update remarks against "*sourceRouteName*" and "*sourceRouteVersion*" attributes
- Update description for *UnderKeelClearancePlan*'s spatial attribute in S-129 Product Specification
- Set "temporalExtent" and "editionNumber" metadata as mandatory
- Update S-129 PS Chapter 18 with 20MB data size limit
- Other changes



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S-100 EDITION 5.2.0

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S-100 Part	S-100 Clause	Description	Impact on S-129?
3	3-10.1	Optional " <i>interoperabilityIdentifier</i> " attribute	Optional
5	Appendix 5-A	Optional " <i>attributeVisibility</i> " binding	Optional
15	15-8.4, 15-8.5	ECDSA algorithm	Possible changes to remarks against " <i>digitalSignatureReference</i> " and " <i>digitalSignatureValue</i> " metadata in Chapter 19
		What else?	



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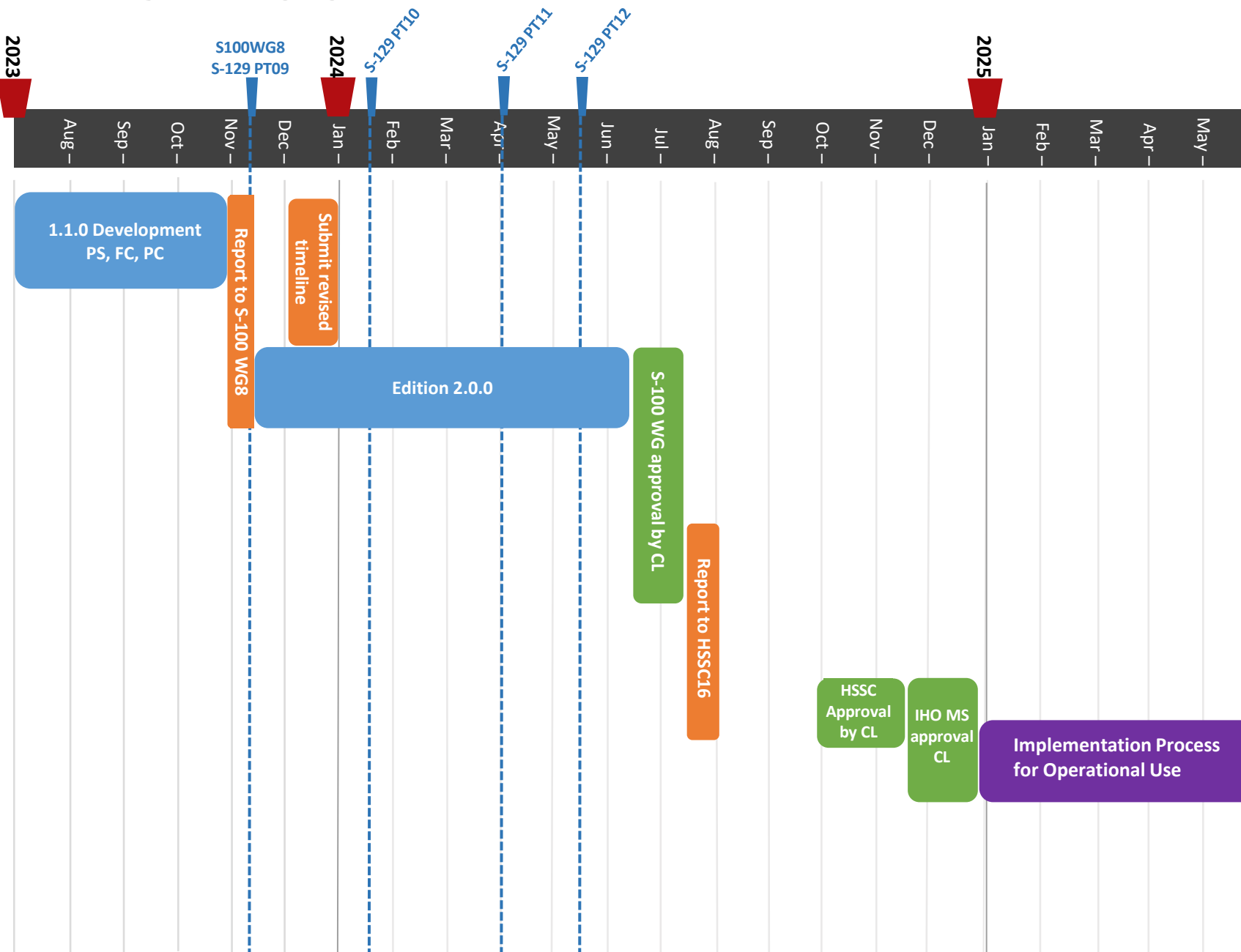
Other Business



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EDITION 2.0.0 TIMELINE

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NEXT MEETINGS

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Description	Proposed Dates	Notes
12 th S-129 PT Meeting	June 11 th ?	VTC Follows HSSC16



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Thank You!