

Hydrographic Services and Standards Committee

Report of WMO/JCOMM to HSSC7

November 2015

S-411 Sea ice

December 2013: first operational S-411 ice charts available and viewable in GIS programs.

June 2014: S-411 Ice Information Product Specification approved

December 2015: most operational ice charts available in S-411

Mid 2016: hopefully first S-411 capable commercial ECDIS



INTERNATIONAL HYDROGRAPHIC ORGANIZATION

ЈСОММ



Ice Information Product Specification

Edition 1.1.0, June 2014

Special Publication JCOMM S-411

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Planned development of S-411 in 2016/2017

A) better iceberg objects (points, lines and polygons)

B) Adjust the "traffic light" portrayal according to discussions and decisions in the context of the IMO polar code

C) scale dependent representation based on predefined rules:

-unify nearby/overlapping symbols of the same category
-join nearby/overlapping symbols of different categories into a new symbol
-do not represent some symbols in small scale maps or join them into a polygon area
-incorporate smaller polygon areas into larger areas

-change the polygon representation on small scale maps







Same S-411 chart shown at different scales

S-412 -Completed to Date: Feature Catalog Draft

- GOAL: Define the definitions of objects and their attributes that mariners may want as situational awareness over the next 20 years
 - Included different maritime industries, scientific research
- October 2012 April 2013: Initial
 Development
- July 2013 March 2014: ETMSS
 Feature Catalog review and revisions
- + April 2014 May 2014: Final draft
- completed cubmitted to CTNCC for

Completed to Date: IHO Registry

+ Registered as S-412: Weather Overlay + Solidified World **Meteorological Organization (WMO)** authority over weather definitions in S-100 + Adding features into **IHO Registry**

Main Index	
Domain WXO	•
Itom Tupo	
item type	
Feature Type	•
Feature Type Status	¥

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WXO Feature

Feature Details	
AlphaCode:	AIRPSR
Name:	Atmospheric Pressure
Alias:	Unspecified
camelCase:	AtmosphericPressure
Use Type:	Geo
Definition:	Pressure (force per unit area) exerted by the atmosphere on any surface by virtue of its weight; it is equivalent to the weight of a vertical column of air extending above a surface of unit area to the outer limit of atmosphere.
Source Reference:	A2930
Source:	WMO 182
Similarity:	Identical
Int1:	Unspecified -
S4:	Unspecified 💌
Remarks:	Unspecified
Status:	Not Valid
Accepted:	0000-00-00
Amended:	0000-00-00
Distinction:	Unspecified
Recommended Attributes	
Uppresided	

Jnspecified

This Feature Data Dictionary does not mandate the use of any attributes. The attributes listed here are recommended as being relevant to this particular feature. However, for some applications, certain attributes may be designated as mandatory for specific feature classes. These attributes must be listed in the appropriate product specification.

Development: Portrayal

- Defining features in XML
 - Point features (SVG)
 - Line features
 - Area features
- Development
 assistance from the international community
 - Brazil's "Science Without Borders Program"







Portrayal Challenges

 International Standards
 WMO Definitions
 Portrayal Standards
 Wind and Wave Portrayal Option 2

Option 1



Option 4









Point Features





Looking to the Future + Gridded data - Brazil - Model data - Gridded forecasts + Continue portrayal for vector and gridded forecasts







WindSpd(Kts) & WindDir For Sun May 03 2015 8PM E (Mon May 04 2015 00Z) National Digital Forecast Database 23z issuance Graphic created-May 03 7:21PM EDT