

HCA13-08.3A

The “Icy” CARIS Ping-To-Chart Solution

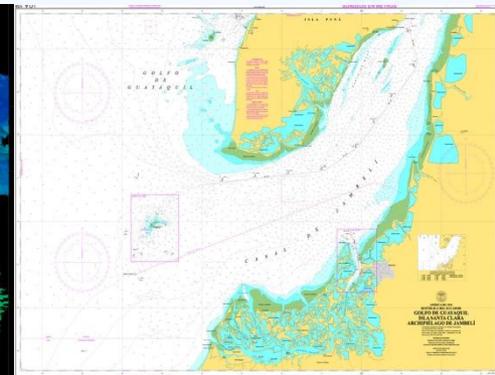
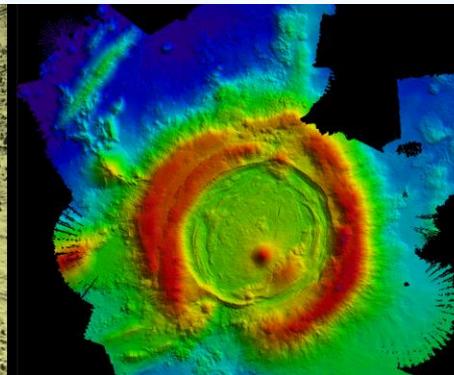
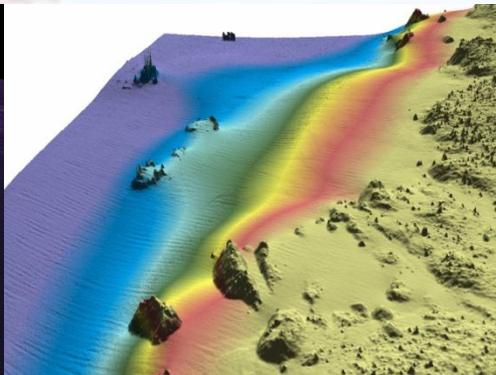
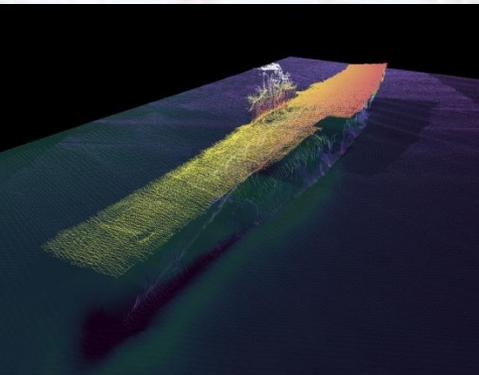
Geerten Blessing – CARIS

HCA Meeting – Cadiz – 4th of December 2013



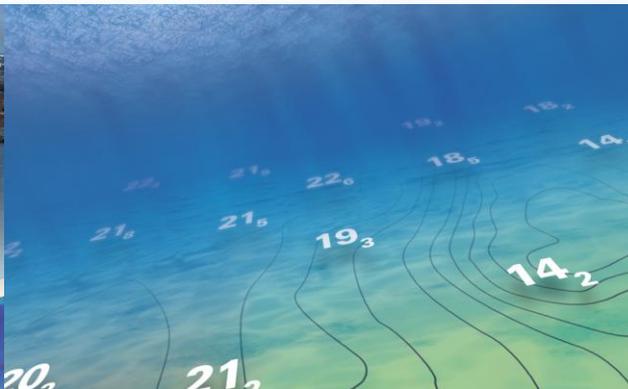


- Specializing in marine GIS Solutions
- Continuous Improvement and Innovation
- Solutions developed for the maritime community





- Hydrographic Survey Processing and Visualization
- Port & Waterway Management
- Chart Production



CARIS Ping-to-Chart Workflow

PROCESSING

CARIS
HIPS and SIPS

CARIS
Notebook

ANALYSIS

CARIS
Bathy DataBASE

CARIS
BASE Editor

CARIS
**Engineering
Analysis Module**

CARIS
LOTS

PRODUCTION

CARIS
HPD

CARIS
S-57 Composer

CARIS
**Paper Chart
Composer**

DISCOVERY

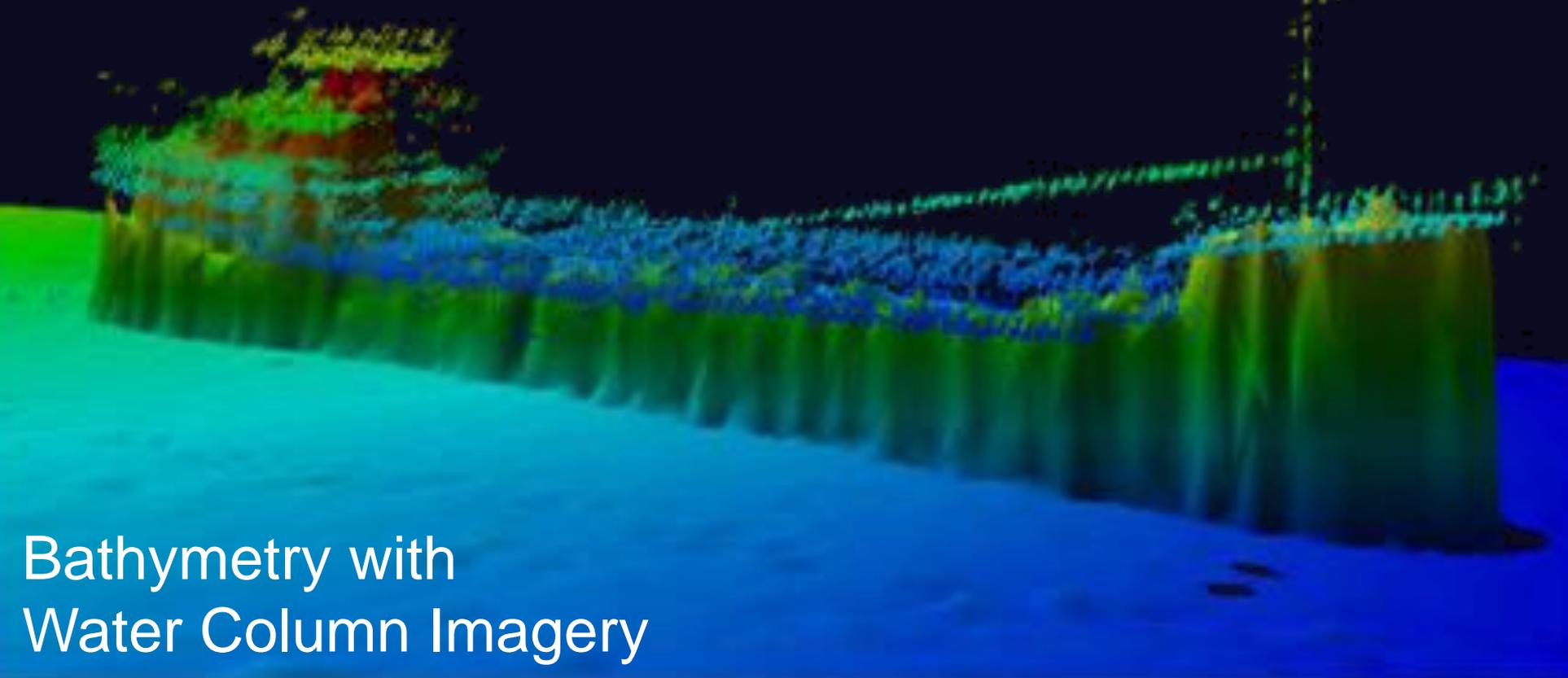
CARIS
**Spatial Fusion
Enterprise**

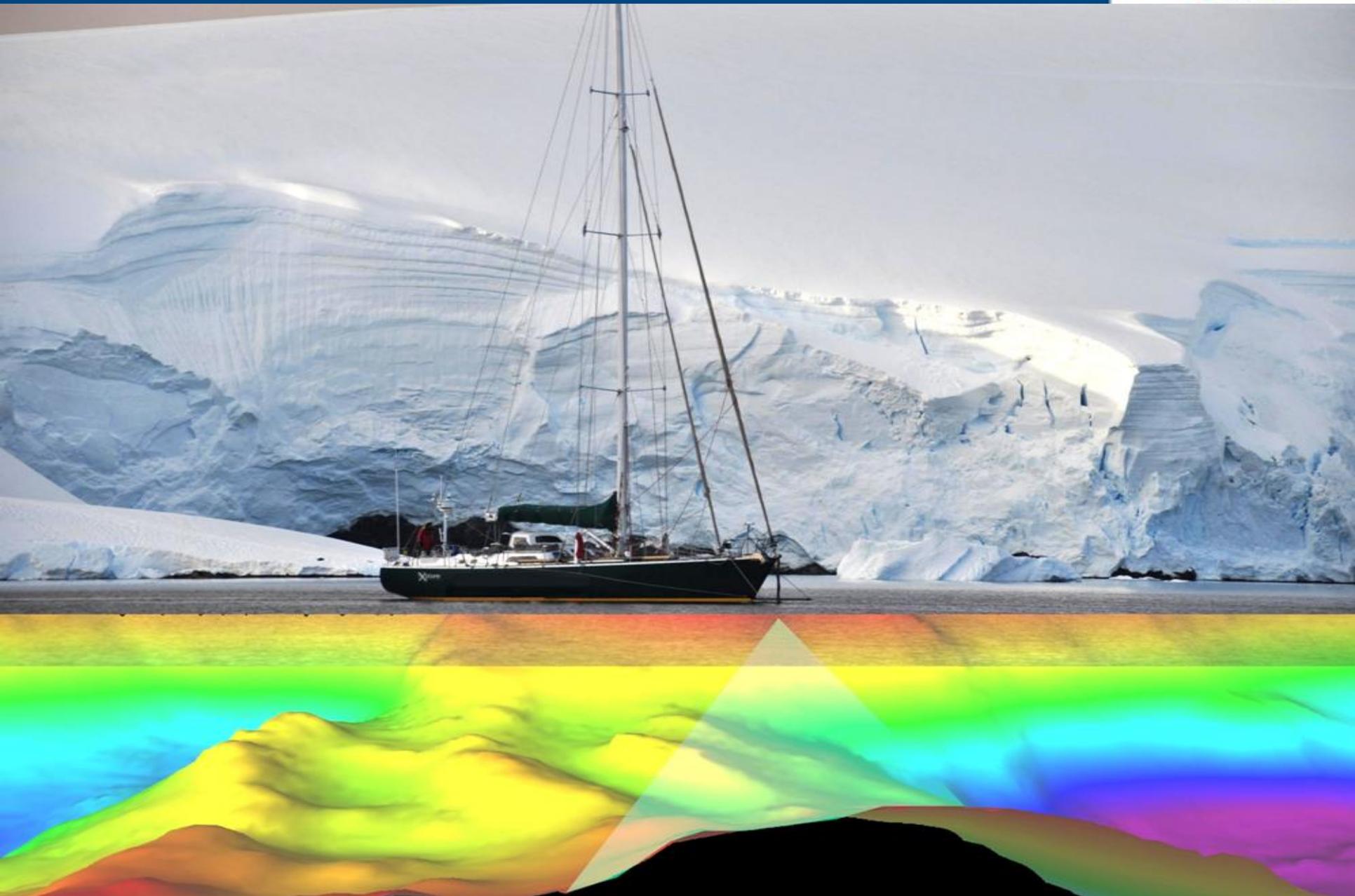
CARIS

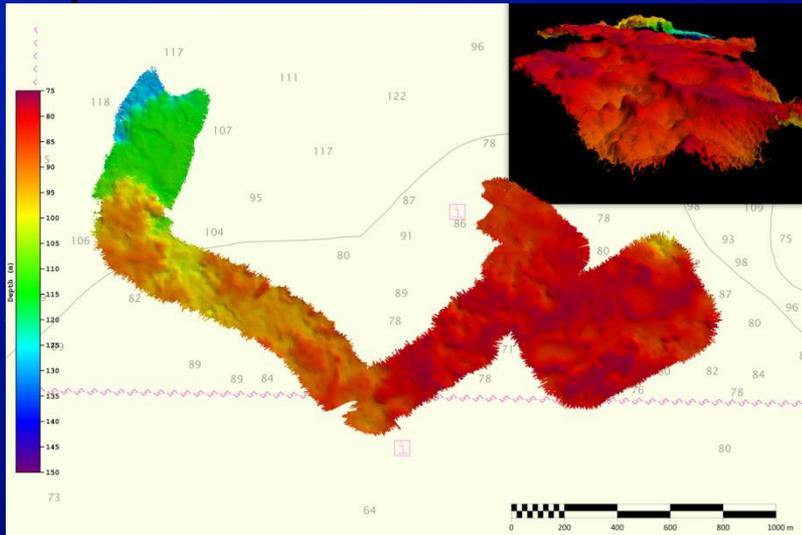
WORKFLOW MANAGEMENT

The Full Picture from Seafloor to Surface

- Single & Multibeam
- Backscatter
- Side scan sonar
- LiDAR







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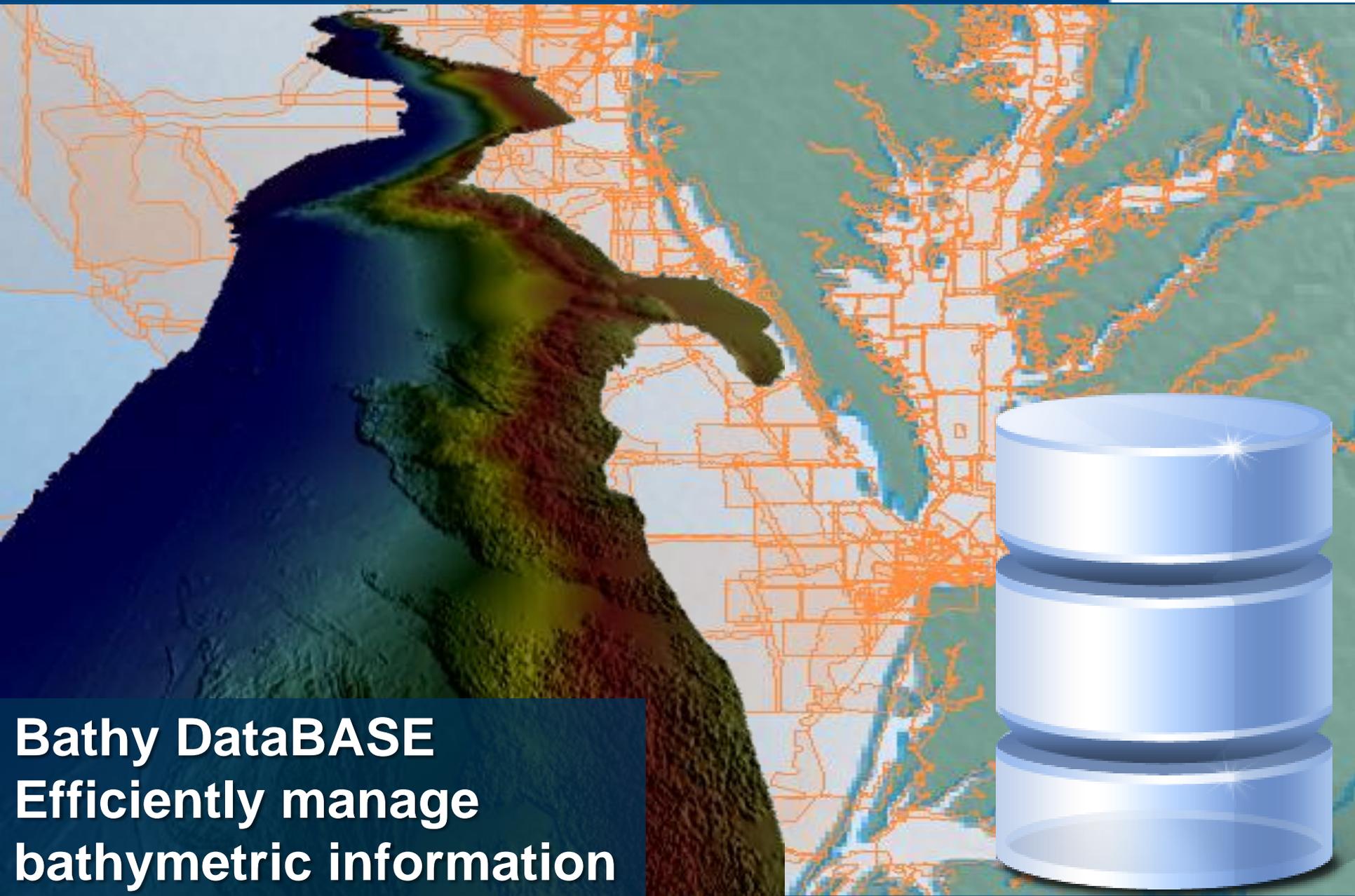
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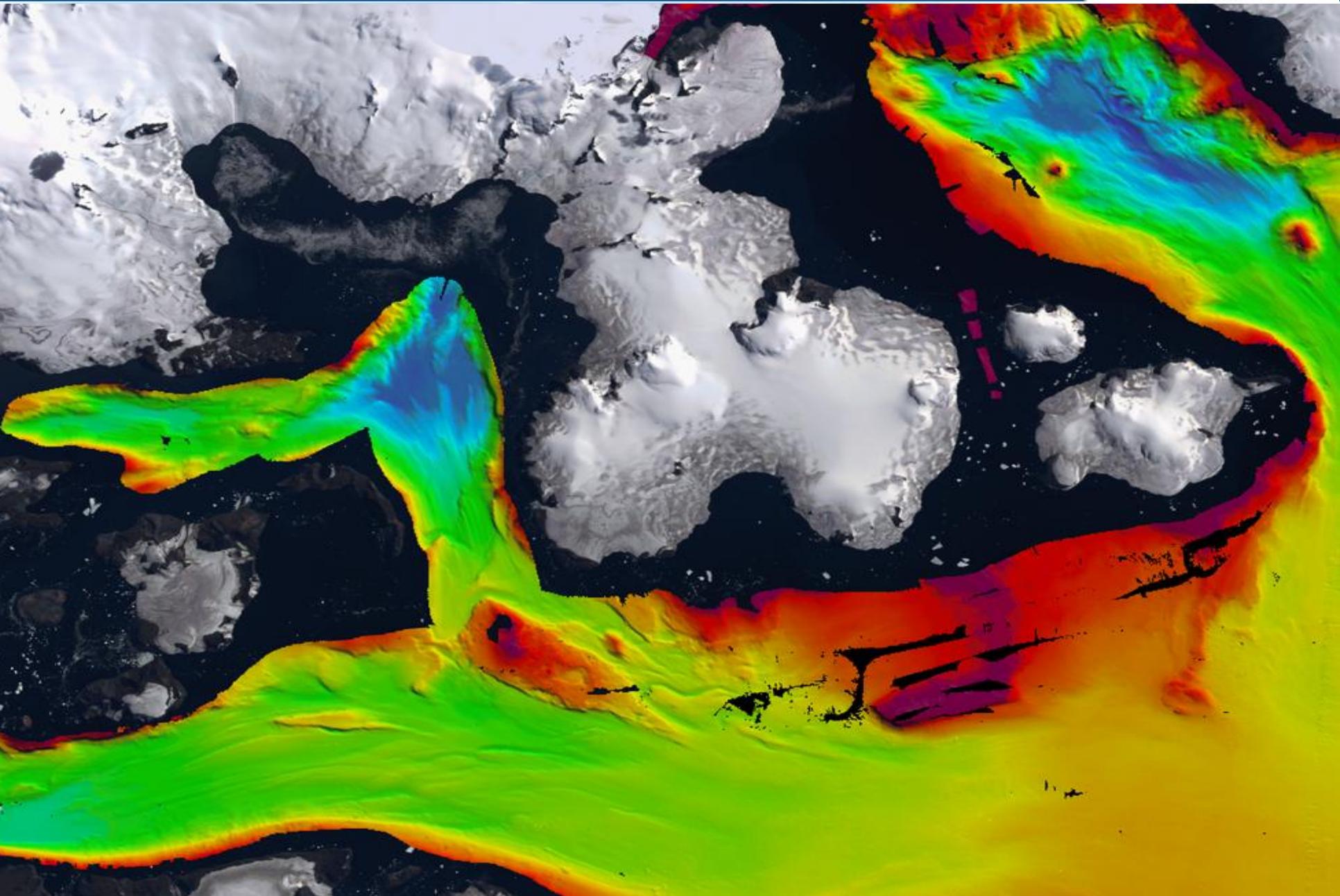
CARIS
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WORKFLOW MANAGEMENT



Bathy DataBASE
Efficiently manage
bathymetric information



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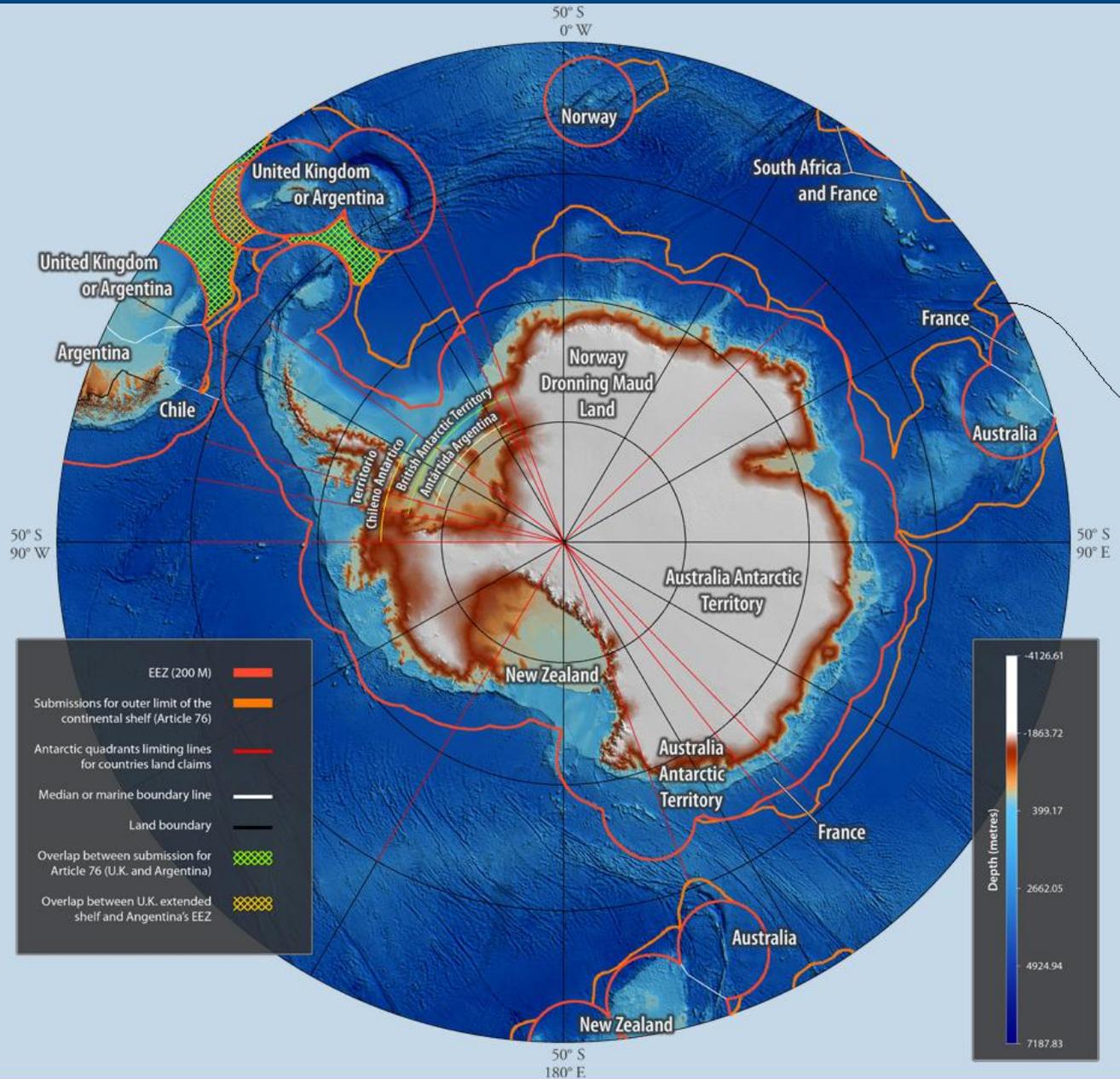
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WORKFLOW MANAGEMENT

CARIS 5-57 Composer - [sonargrid2m.tif]

File Create Edit View Tools Select Window Help

[Follow Select Layer] 0%

Layers: Draw Order

- USSNH02M
- USSNH02M
- 13283_2
- sonargrid2m

Properties

Colour

Colour Depth: 8
Colour Map: (default)

Shading

Image Shading: False
Sun Position: Az. 0.0, Elev. 90.0
Vertical Exaggeration: 1

General

Image Transparency %: 0
See Through Pixel: True
Pixel Value: 255

Output

C:\Work\Training\S-57_Composer_AML_Training_1008\Exercises\Da
C:\Work\Training\S-57_Composer_AML_Training_1008\Exercises\Da

Begin validating object relationships ...
Finished validating object relationships.

Begin validating object and attribute acronyms ...
Finished validating object and attribute acronyms.

Components

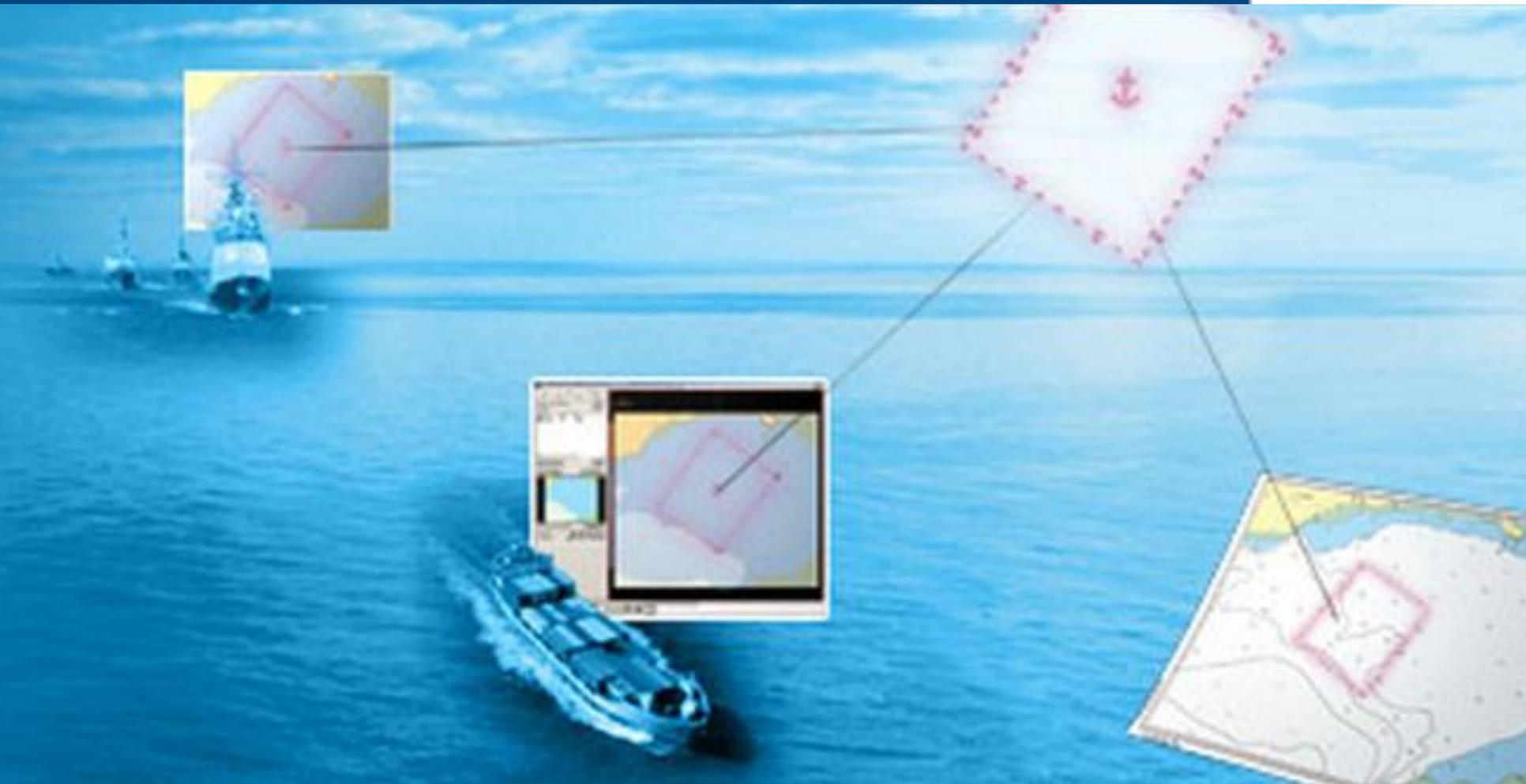
Coordinates

Output Validation Selection

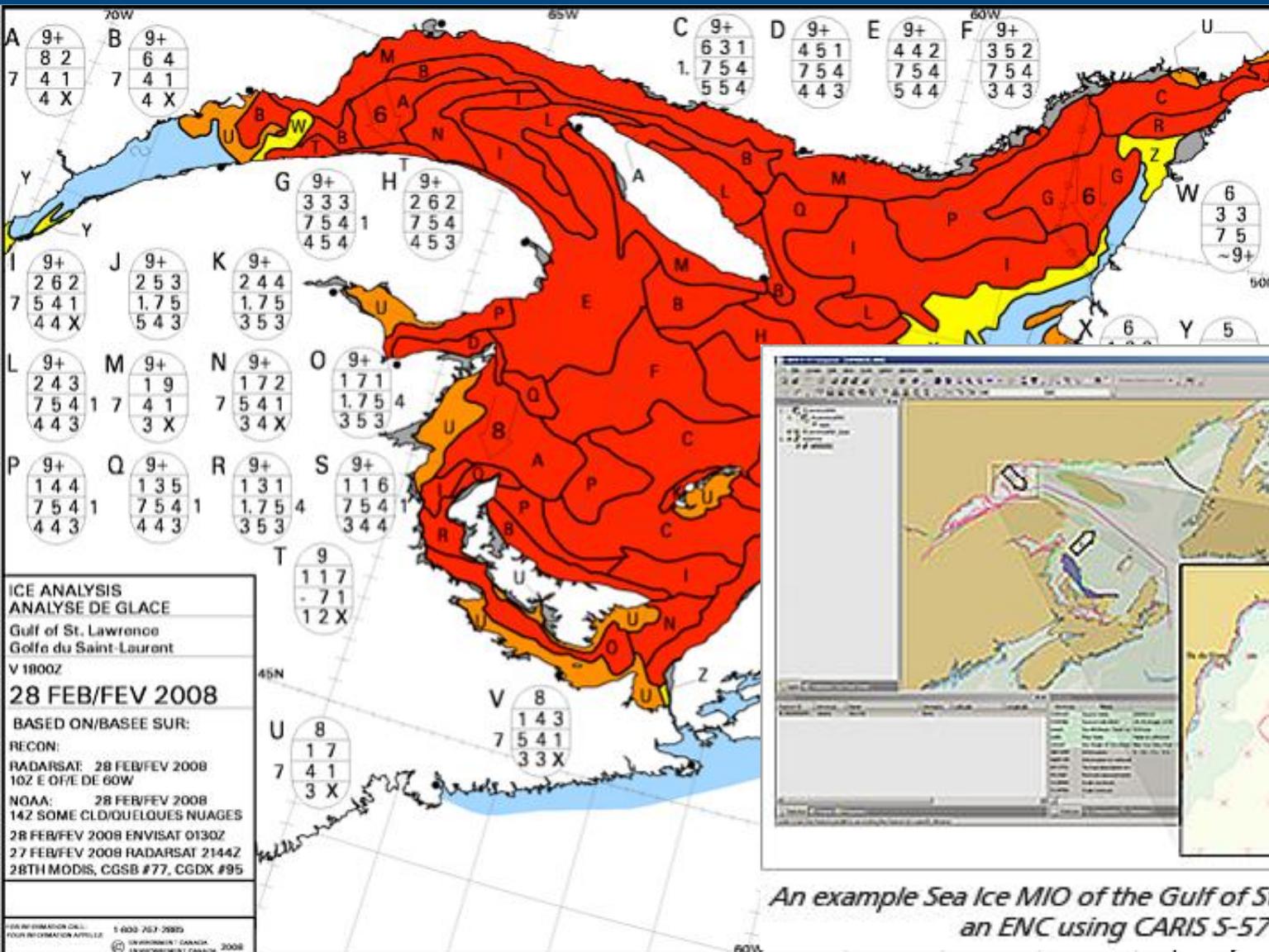
Components Relations Attributes

Coordinates Features Spatial Attributes

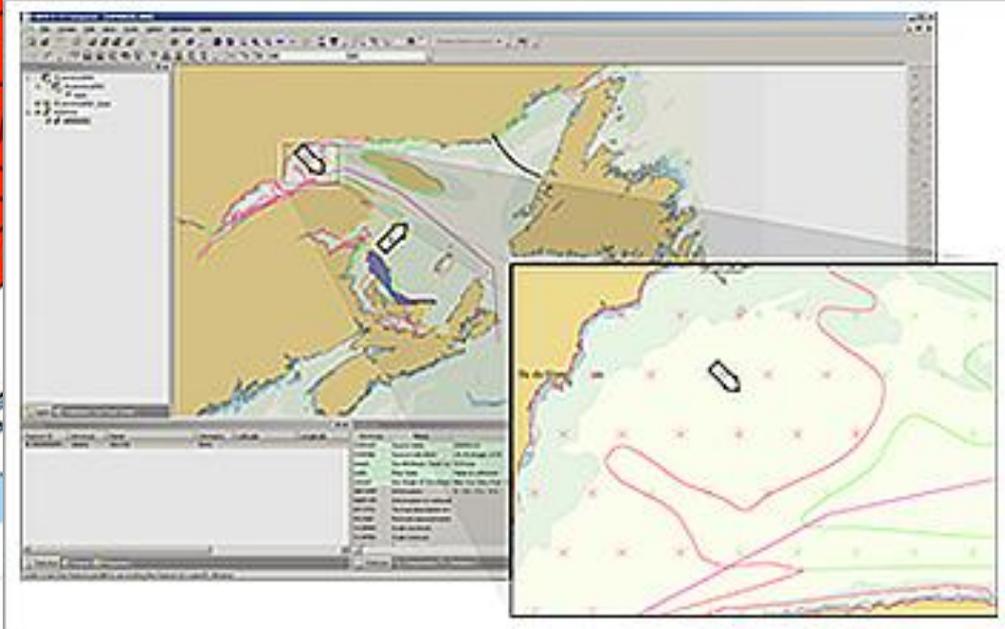
Selected: 0 WRDPERC 1:26018 43-04-34.69N 070-43-59.07W



Hydrographic Production Database Eliminate Redundancy in Data Management



ICE ANALYSIS
ANALYSE DE GLACE
Gulf of St. Lawrence
Golfo du Saint-Laurent
V 1800Z
28 FEB/FEV 2008
BASED ON/BASEE SUR:
RECON:
RADARSAT: 28 FEB/FEV 2008
102 E OFE DE 60W
NOAA: 28 FEB/FEV 2008
142 SOME CLD/QUELQUES NUAGES
28 FEB/FEV 2008 ENVISAT 0130Z
27 FEB/FEV 2008 RADARSAT 2144Z
28TH MODIS, CGSB #77, CGDX #95



An example Sea Ice MIO of the Gulf of St Lawrence displayed over an ENC using CARIS S-57 Composer.

WMO Colour Code - Concentration			Code de couleurs de l'OMM - Concentration		
Ice Free Libre de glace	1-3/10	7-8/10	Fast Ice Banquise côtière	New Ice Nouvelle glace	Nilas/Grey Ice Nilas/glace grise
< 1/10	4-6/10	9-10/10	Undefined Indéterminée		

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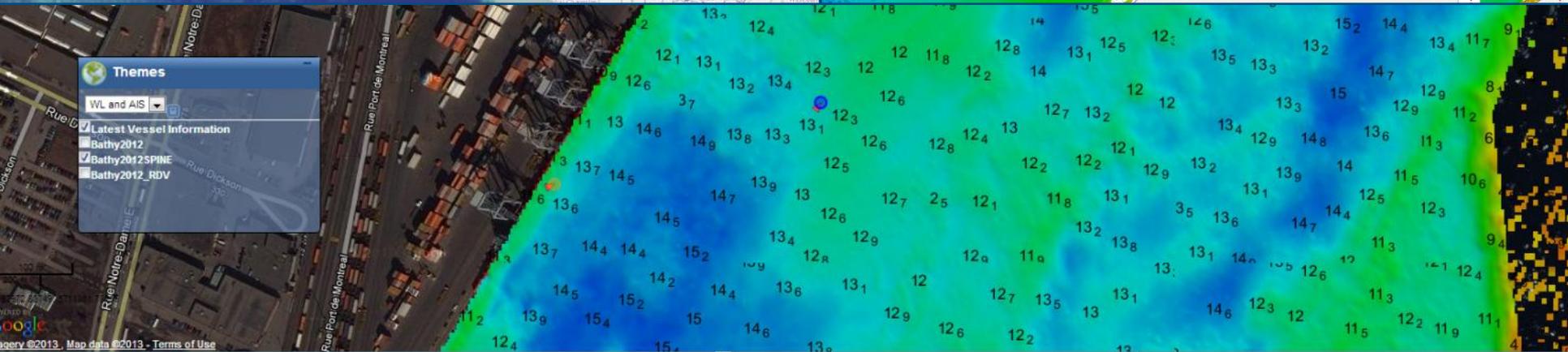
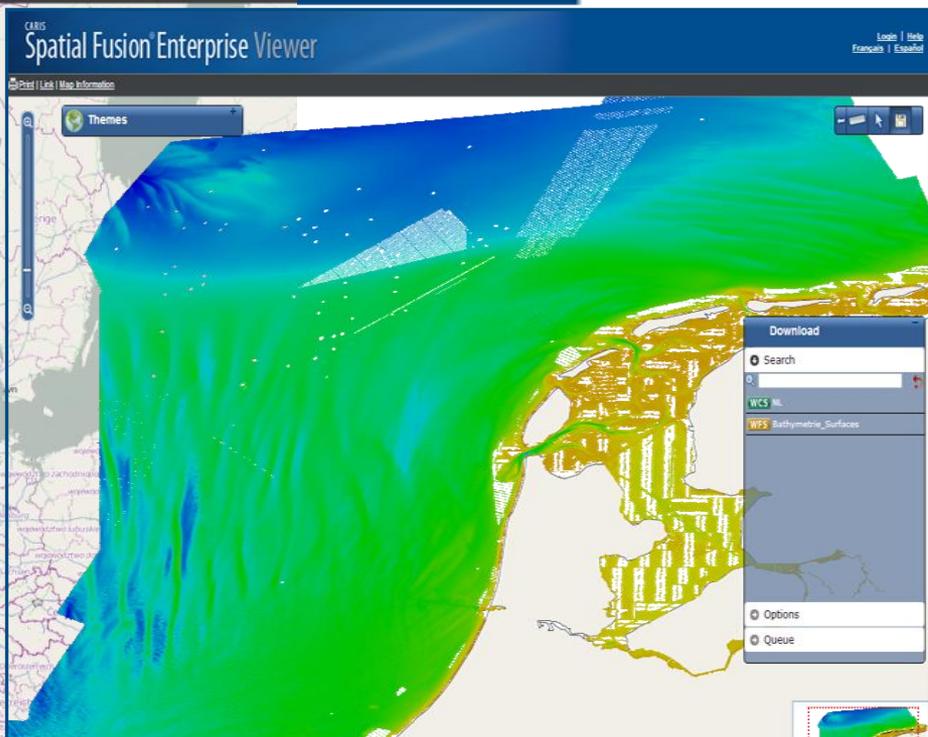
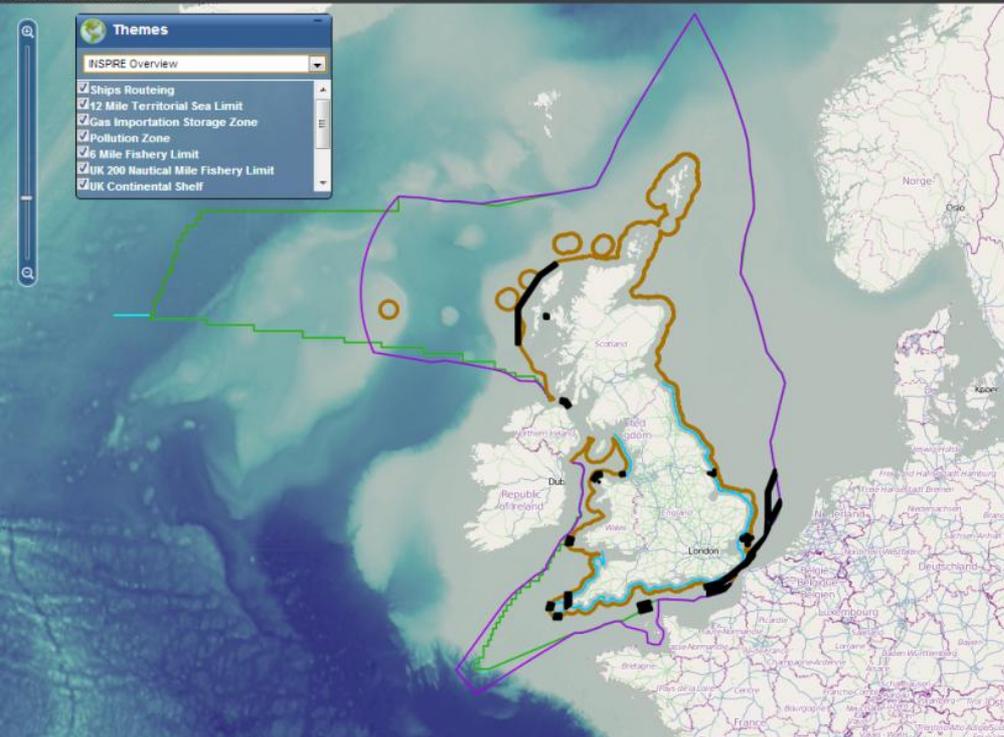
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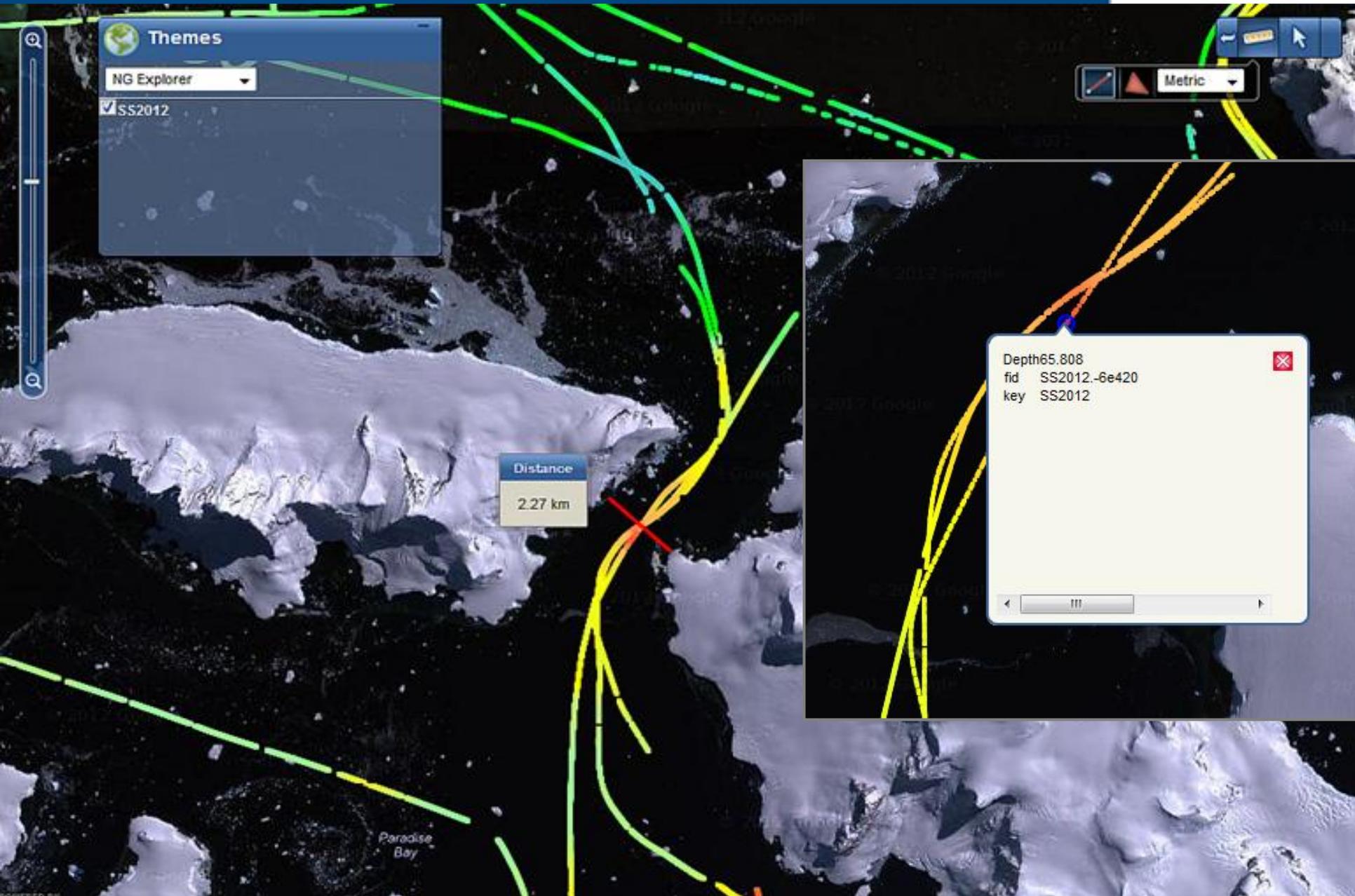
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CARIS

WORKFLOW MANAGEMENT



mmsi	imo	vesse_name	callsign	vesse_type	vessel_type_code	vessel_type_cargo	length	width	flag_country	flag_code	destination	eta	draught	longitude	latitude	sog	cog	rot	heading
------	-----	------------	----------	------------	------------------	-------------------	--------	-------	--------------	-----------	-------------	-----	---------	-----------	----------	-----	-----	-----	---------



Themes

NG Explorer

SS2012

Metric

Distance
2.27 km

Depth65.808
fid SS2012.-6e420
key SS2012

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WORKFLOW MANAGEMENT

- **CARIS maintains strong ties with the marine community**
 - Product Development is based on client feedback and market evolution
 - Active member of several industry standards committees
 - TSMAD, ISO/TC 211, OGC, IEHG, HIHWG and others
 - **CARIS International User Conferences**
 - CARIS 2012 – Vancouver, Canada
 - CARIS 2014 – Brest, France
 - **User Group Meetings (UGMs)**
 - 5th Bathy DataBASE UGM: October 2013 - Wellington, New Zealand
 - 6th Bathy DataBASE UGM: June 2014 - Brest, France
 - 7th HPD UGM: October 2013 - Wellington, New Zealand
 - 8th HPD UGM: October 2013 - June 2014 - Brest, France
 - 2nd HIPS and SIPS UGM: June 2014 - Brest, France
 - **Online User Forums**
 - Bathy DataBASE: <http://www.caris.com/bdbforum/>
 - HPD: <http://www.caris.com/hpdforum/>



Developing the Blue Economy

À l'appui de l'Économie Bleue

Our oceans and seas are one of Earth's most valuable natural resources and major contributors to the world economy. The health of our oceans and seas is critical in developing economic sustainability, yet it remains to be the most unexplored portion of the world.

Join us in France at CARIS 2014, as we focus on Developing the Blue Economy.

CARIS 2014

June 2-5 | Brest, France | 2-5 juin

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