



# Space and Naval Warfare Systems Center Atlantic

## Surface Current Rendering

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# Surface Current Rendering Overview

1. **Objective**
2. **Data Sets**
3. **Product Test Application**
4. **Test Data Set Presentation**
5. **Presentation & Filters**
6. **Future**
7. **Demonstration & Discussion**

# Surface Current Rendering Objective

1. **Specification Development**
  - a) **Viewpoints**
    - i. **Data Provider**
    - ii. **Developer**
    - iii. **End User**
2. **S-111 Test Application**
  - a) **Rendering**
  - b) **Analysis**
  - c) **Feedback**

# Surface Current Rendering

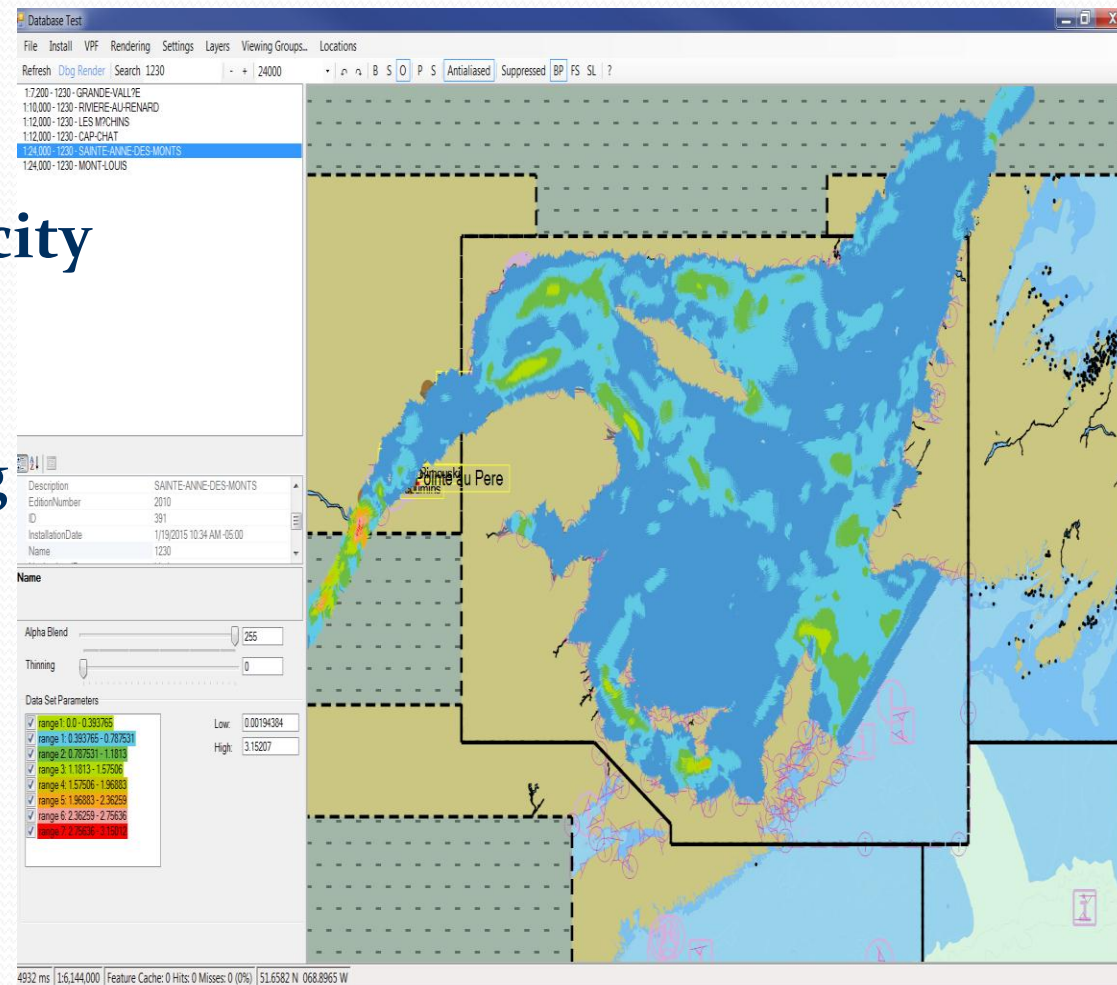
## Data Sets Provided

1. **Canada (Louis Maltais)**
  - a) **Format: HDF5**
  - b) **Location: Gulf of St. Lawrence**
  
2. **France (Ronan Pronost)**
  - a) **Format: NetCDF**
  - b) **Location: Bay of Biscay and English Chanel**

# Surface Current Rendering Product Test

## 1. Capabilities

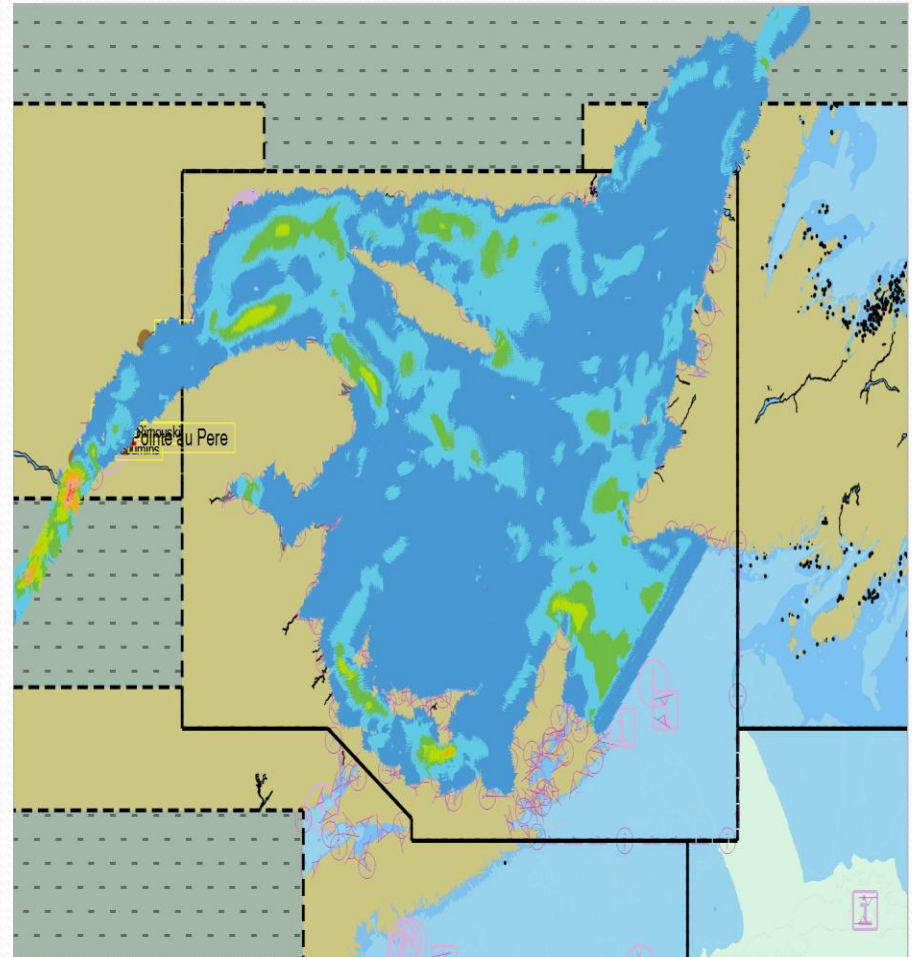
- a) HDF5
- b) Multiple Velocity bands
- c) Alpha Blend
- d) Data Thinning



# Surface Current Rendering

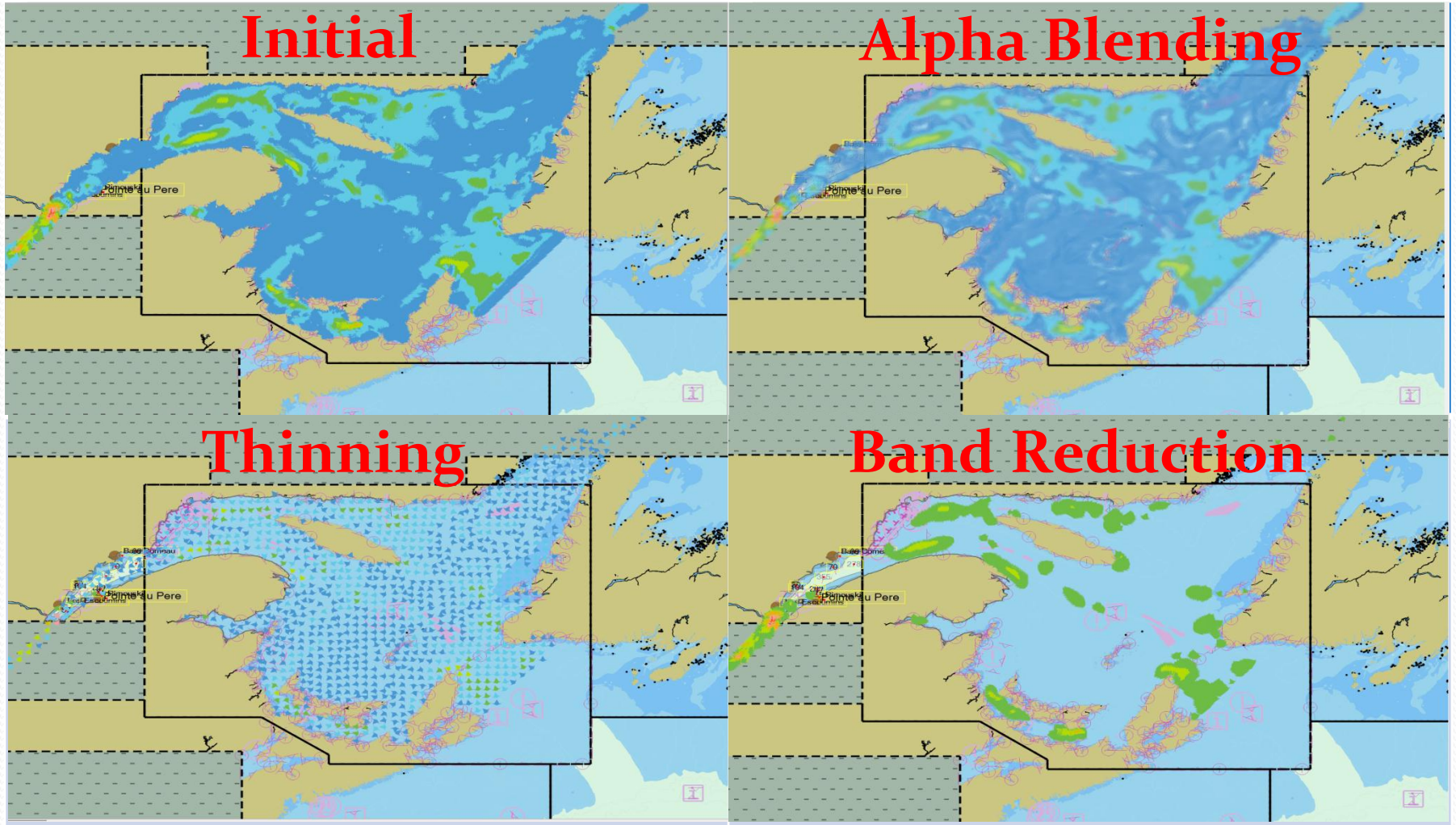
## Test Data Set Presentation

1. **Issues**
  - a) **Limits data Usage**
  - b) **Covers Navigational Aids**
  - c) **Limits multiple product layering**





# Surface Current Rendering Presentation & Filters



# Surface Current Rendering

## Future

1. **NetCDF Data Sets**
2. **Point Query**
3. **SVG Vector Arrows**
  - a) **Magnitude Representation**
4. **Recommendations**
  - a) **Streamlines**
  - b) **Advanced Filter Algorithms**
5. **Multiple Products Rendering Review**
  - a) **S-101**
  - b) **S-102**
  - c) **S-111**



# Surface Current Rendering Demonstration & Discussion

**Demonstration**

