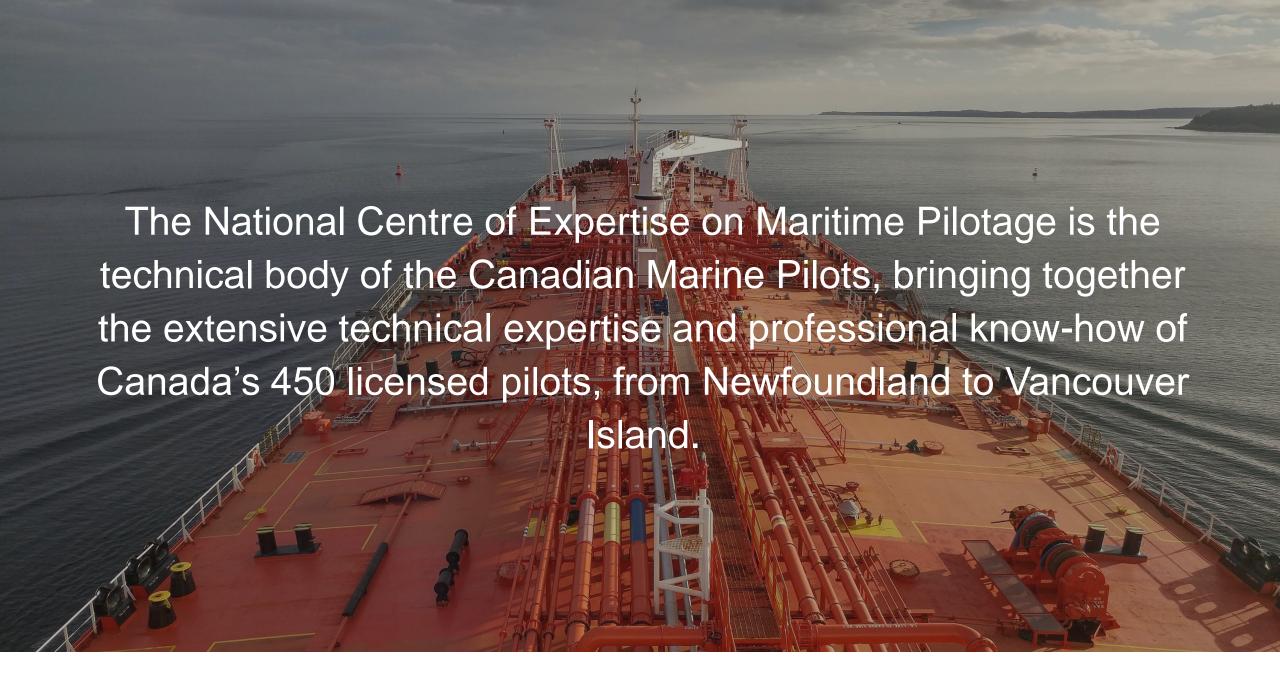


### NATIONAL CENTRE OF EXPERTISE ON MARITIME PILOTAGE

Bringing together and sharing the expertise of maritime pilots, to ensure that Canada benefits from the most professional pilotage service possible



National Centre of Expertise on Maritime Pilotage 12 pilotage-expertise.ca

### Our work

#### Pilotage Procedures and Techniques, Technology, Research and Innovation

- Responsible for setting guidelines on key technical aspects of the piloting profession
- Improves operational safety and efficiency in Canada's ports and waterways
- Develops best practices on pilotage procedures such as pilot transfers to and from vessels
- Position statements on emerging questions such as the conditions in which Marine Autonomous Surface Ships should operate

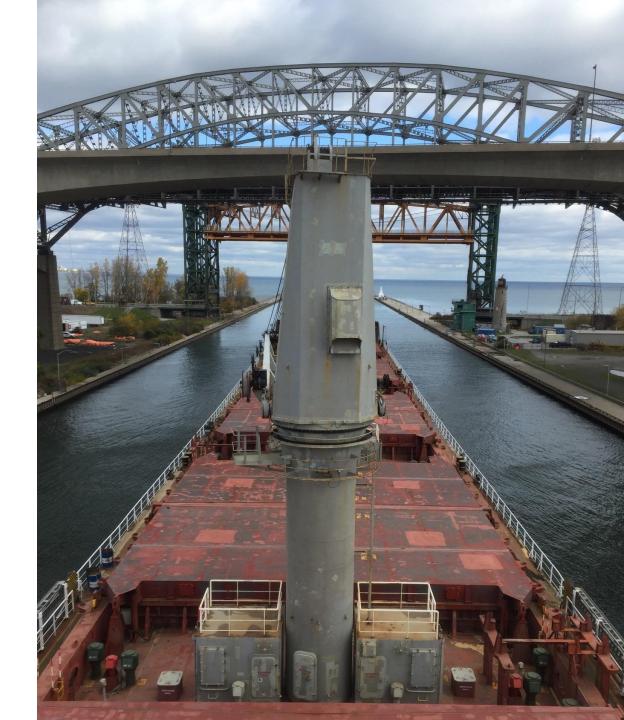
Aims to improve operational safety and efficiency in Canada's ports and waterways, and to ensure that Canada's pilots and their local organizations continue to be world-leaders in pilotage innovation

National Centre of Expertise on Maritime Pilotage |3 pilotage-expertise.ca

### Government and industry

The Centre provides government with advice on key matters related to the technical dimension of piloting, and on matters affecting the exercise of the profession.

The Centre also works with industry to optimize operational parameters, for example in respect of pilotage practices and procedures, and the development and operation of essential marine infrastructure.

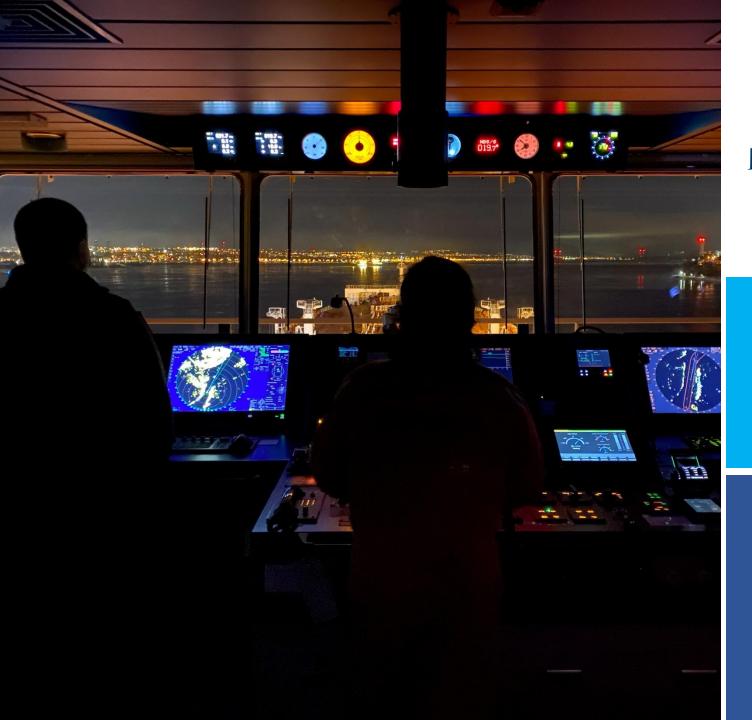




### **Our Partners**

| British Columbia<br>Coast Pilots              | Fraser River                          | Great Lakes Districts 2 & 3                | Lake Ontario<br>& Harbours |
|---|---------------------------------------|--|----------------------------|
| Upper   | St. Lawrence                          | Mid St. Lawrence                           | Lower                      |
| St. Lawrence                                  | & Seaway                              |  | St. Lawrence               |
| Newfoundland                                  | Halifax                               | Cape Breton                                | New Brunswick              |
| & Labrador                                    |                                       | Island                                     | & PEI                      |
| Maritime<br>Simulation and<br>Resource Centre | Canadian<br>Merchant<br>Service Guild | International Maritime Pilots' Association | IMC International Council  |

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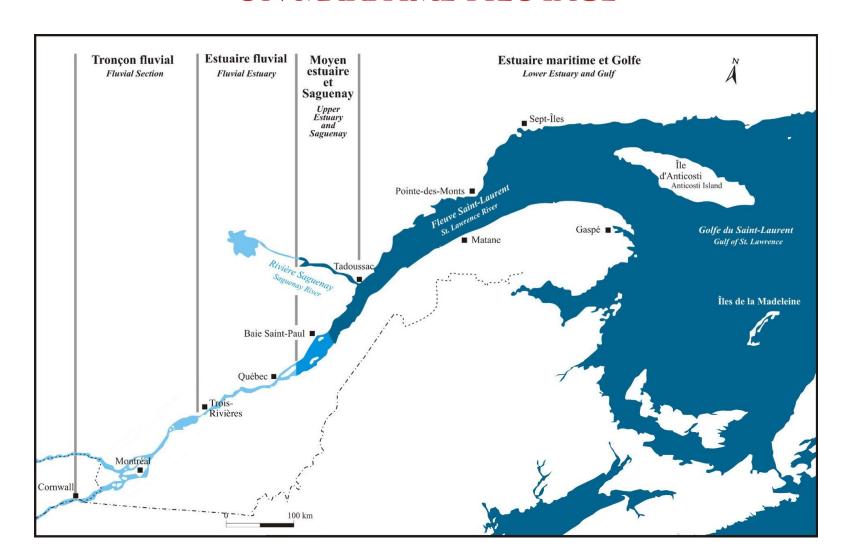


#### PILOT PORTABLE UNITS

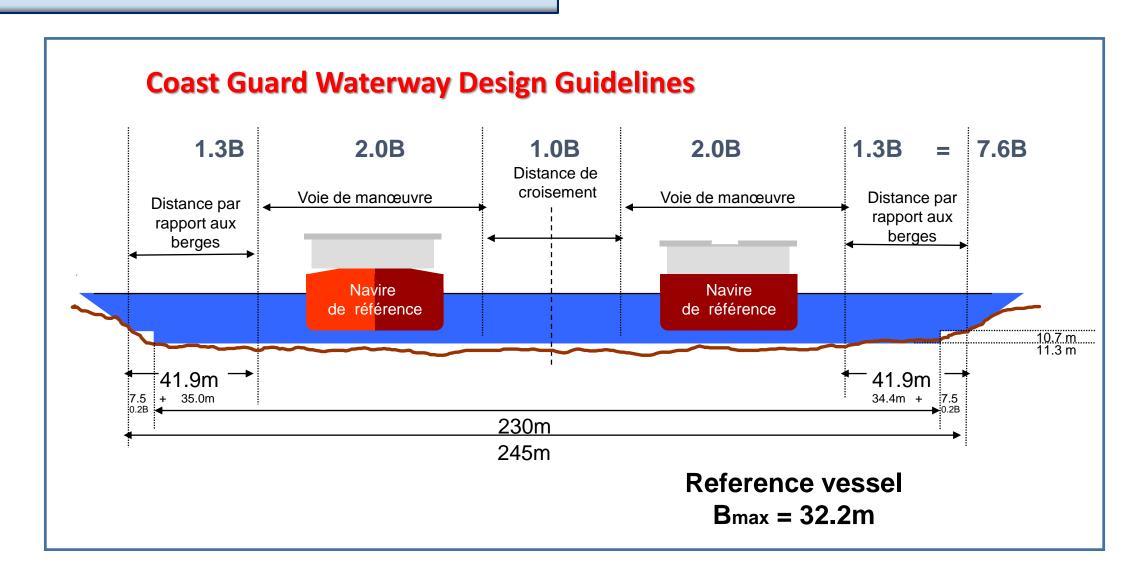
VN-301 DIRECTIVES
INTEGRATION PROJECT
ANPRA 2023



### NATIONAL CENTRE OF EXPERTISE ON MARITIME PILOTAGE



### Post Panamax Vessel in the St-Lawrence River

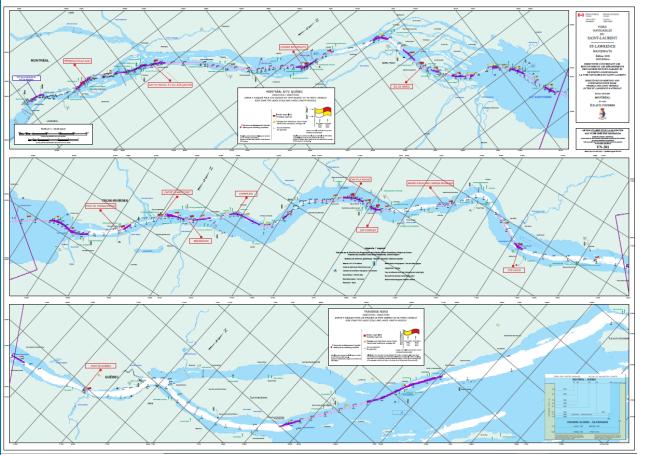


### Risk Study

 A risk study was conducted and a Working Group was formed between Canadian Coast Guard, Transport Canada, Laurentian Pilotage Authority and the pilots corporations, resulting in guidelines for the passage of Post-Panamax vessels, imposing certain restrictions where vessels cannot meet or pass each other.

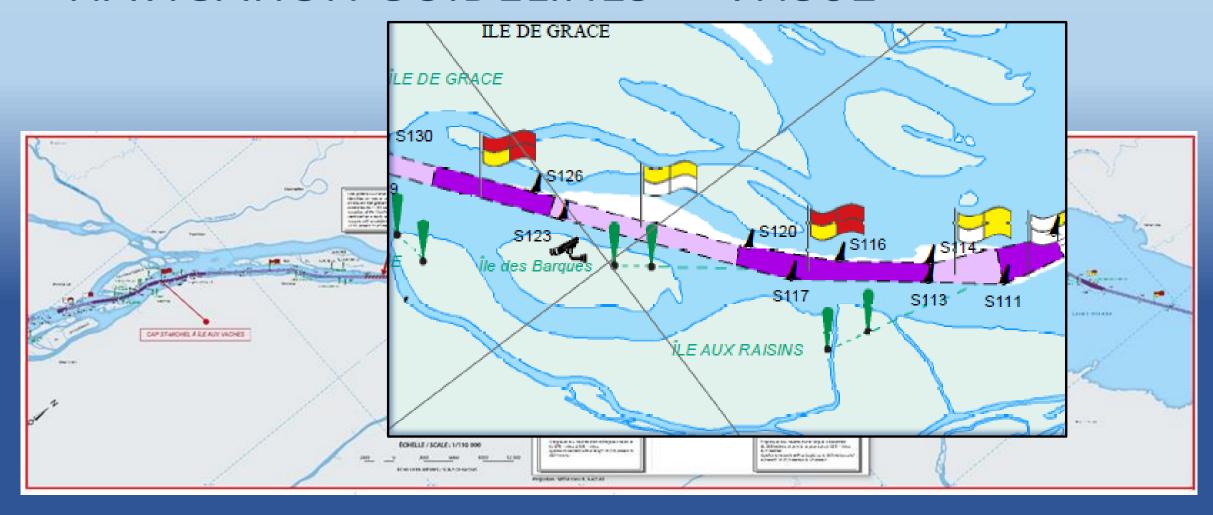


### NATIONAL CENTRE OF EXPERTISE ON MARITIME PILOTAGE



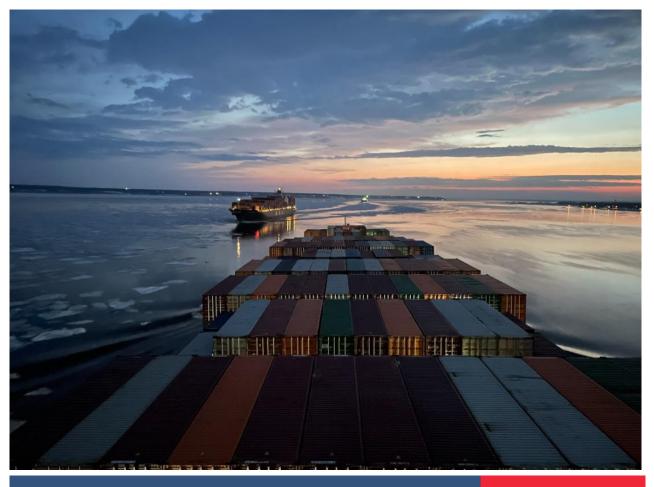


### NAVIGATION GUIDELINES - VN301



# New tools to face a more complex environment

- Graphical Integration of VN-301 in the PPU
- Improved «Meeting Point» function
- VN-301 meeting checks



Technical Committee







# The project and its partners

- The Laurentian Pilotage Authority
- Navsim Technology is the developer of the Argus software
- Mid St-Lawrence Pilots technical committee

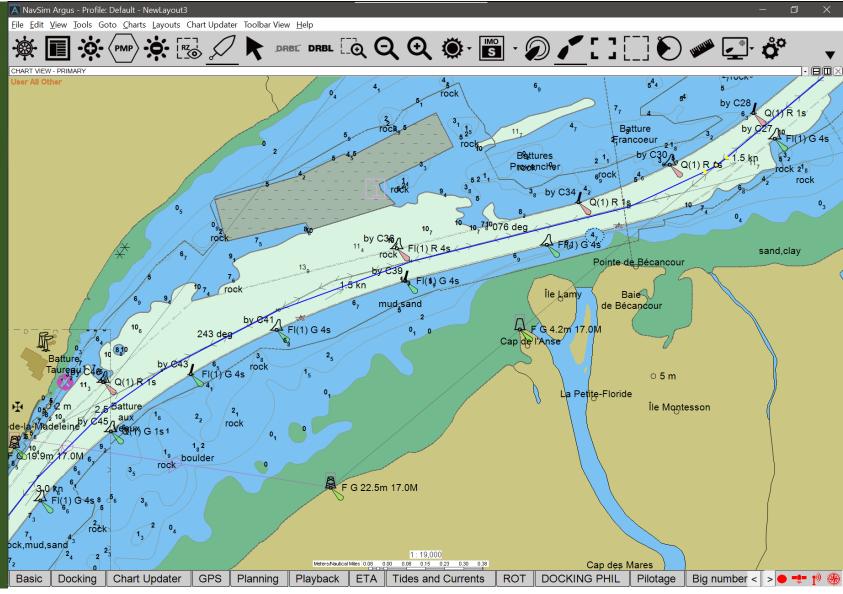






### **Essential Characteristics**

Usability
Reliability

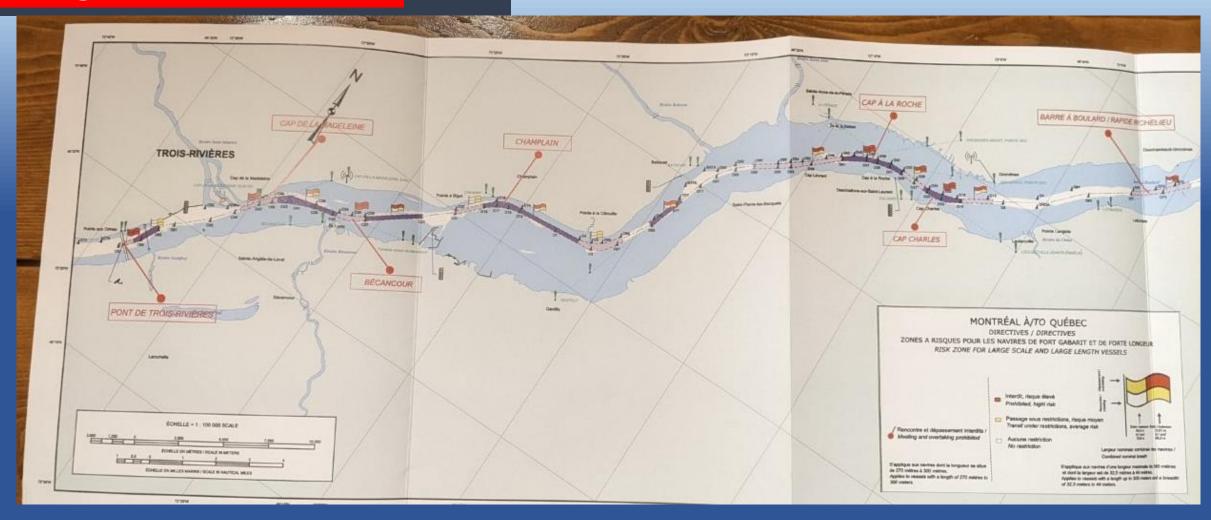




NATIONAL CENTRE OF EXPERTISE ON MARITIME PILOTAGE

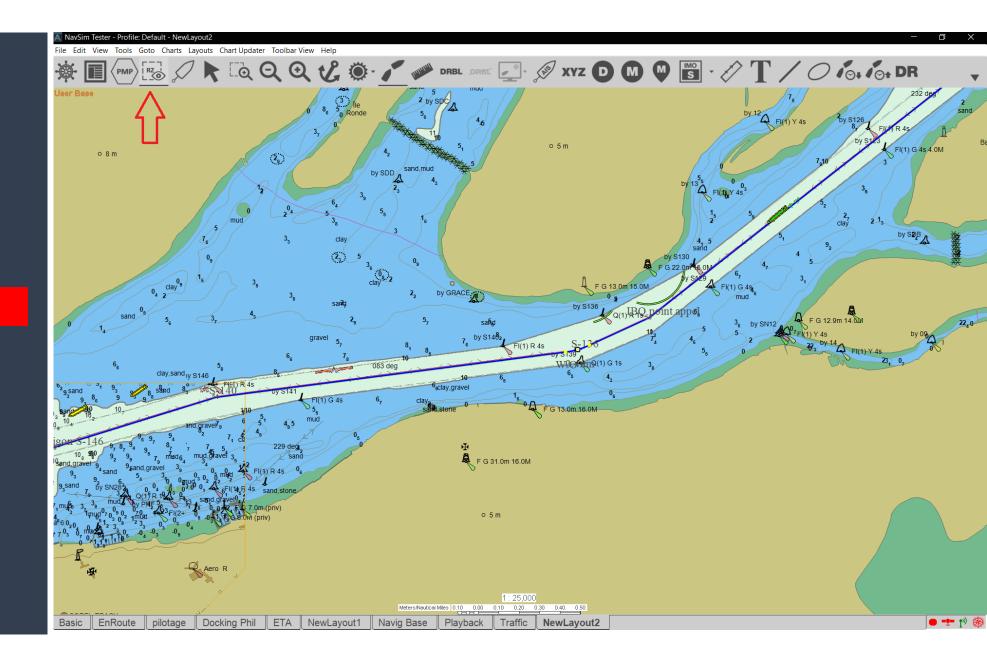
# VN-301 Graphical Integration

BEFORE



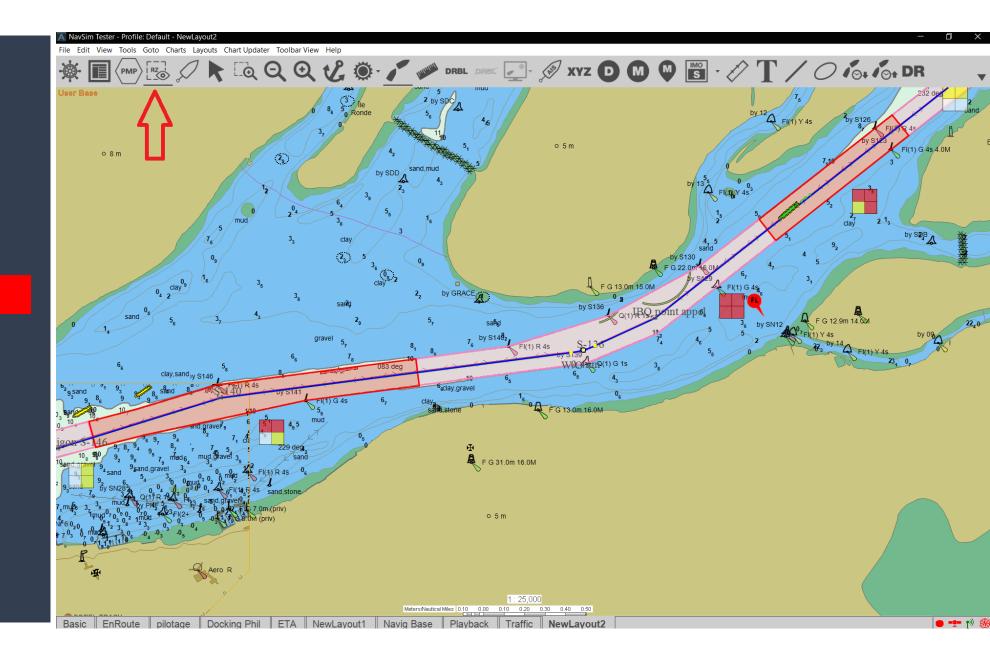
# VN-301 Integration

NOW

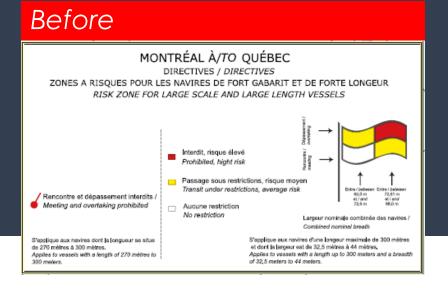


# VN-301 Integration

NOW

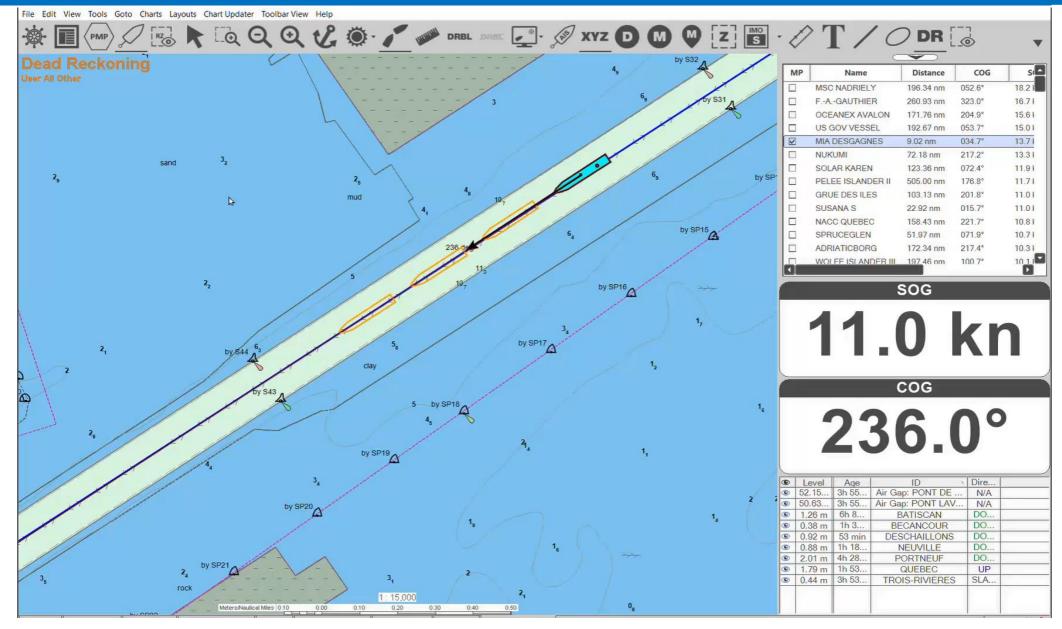


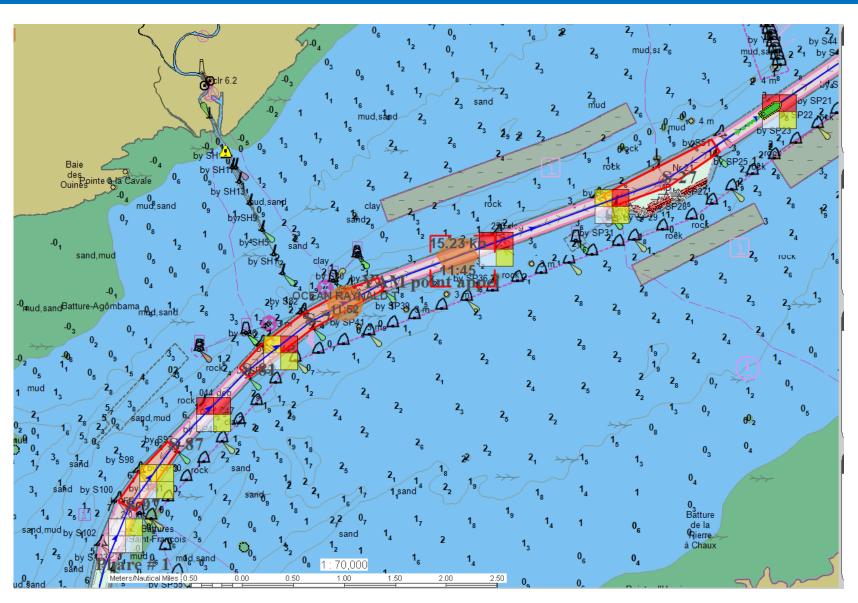
# VN-301 Integration

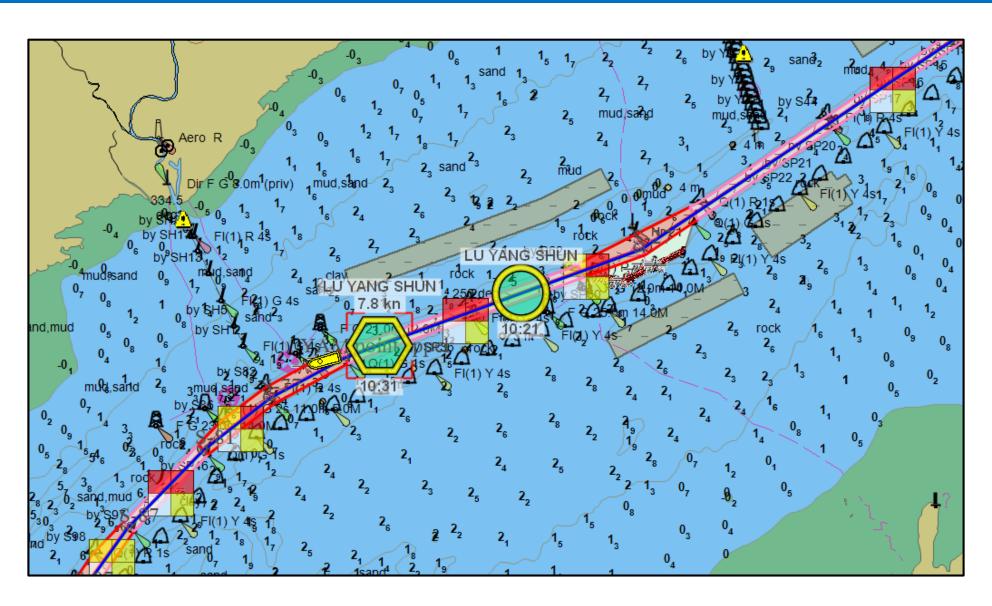


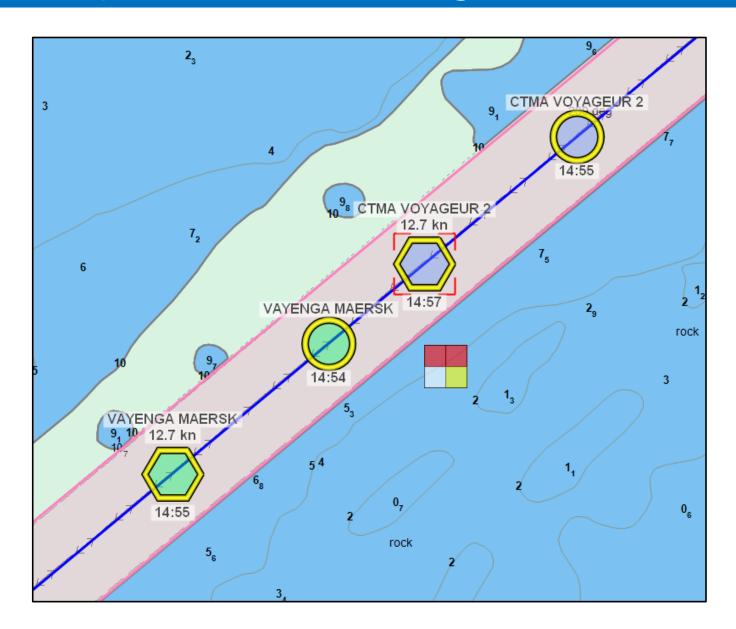
|                    |                                   | NISK Z                                     | one Properties |                                       | ^   |
|--------------------|-----------------------------------|--|----------------|---------------------------------------|-----|
| Risk Zone Manage   | er                                |  |                |                                       |     |
| Tubic Zone Manage  |                                   |  |                |                                       |     |
| Name: RZ           | Trou des roses                    |  |                |                                       |     |
| Sector:            |                                   |  |                |                                       |     |
|                    |                                   | <del></del> i                              |                |                                       |     |
|                    |                                   |  |                |                                       |     |
| Description:       |                                   |  |                |                                       |     |
|                    |                                   |  |                |                                       |     |
|                    |                                   |  |                |                                       |     |
| Color:             |                                   |  |                |                                       |     |
| Fransparency:      |                                   | —— J                                       |                |                                       |     |
|                    | rce: Admin                        |  |                |                                       |     |
| _                  |                                   |  |                |                                       |     |
| Pu                 | blish to Cloud                    |  |                |                                       |     |
| Risk Matrix Rules  | )                                 |  |                |                                       |     |
| RISK Matrix Rules  |                                   |  |                |                                       |     |
| Meeting & Overta   | king Restrictions                 |  |                |                                       |     |
| 3                  |                                   |  |                |                                       |     |
| Overtaking         |                                   | Prohibited High Risk                       |                | Prohibited High Risk                  |     |
| Meeting            |                                   | No Restrictions                            |                | Proceed Under Caution Average<br>Risk |     |
| Combined Bear      | n Between                         | 65 m And 72                                | 2.6 m Between  | 72.61 m And 88                        | m 🛕 |
|                    | rictions: Yes  Overtaking prohibi | No<br>ted for vessels with LOA of 270 m to | 300 m          |                                       |     |
| Coordinate Info    |                                   |  |                |                                       |     |
| # Name             | Coordinate<br>46° 22.755'         | N 072°                                     |                |                                       |     |
| 2                  | 46 22.729                         | N. 0/2°                                    |                |                                       |     |
| # Name 1 2 3 4 5 6 | 46° 22.721'<br>46° 22.630'        | N, 072°<br>N 072°                          |                |                                       |     |
| 5                  | 46° 22.541'                       | N, 072°                                    |                |                                       |     |
| -                  |                                   | NI () //2º                                 |                |                                       |     |
| 6                  | 46° 22.511'                       |  |                |                                       |     |
| Add Coordinate     |                                   | NÍ 072°                                    |                |                                       |     |







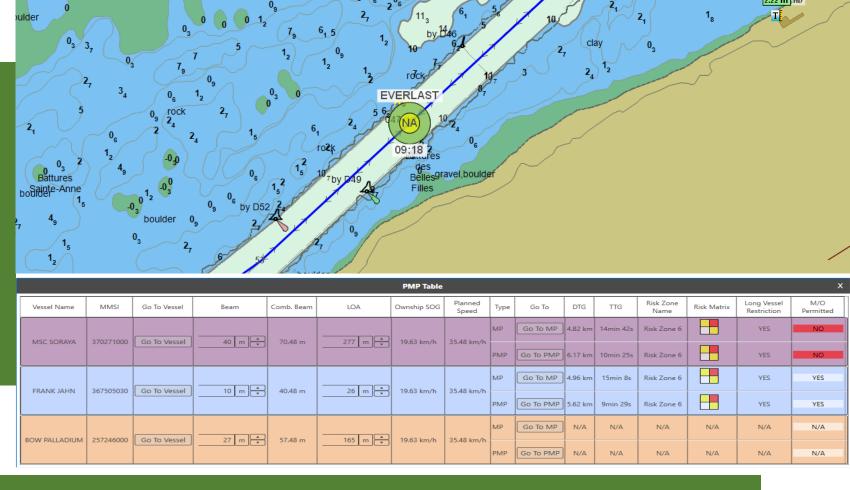




### MEETING CHECKS



### RELIABILITY

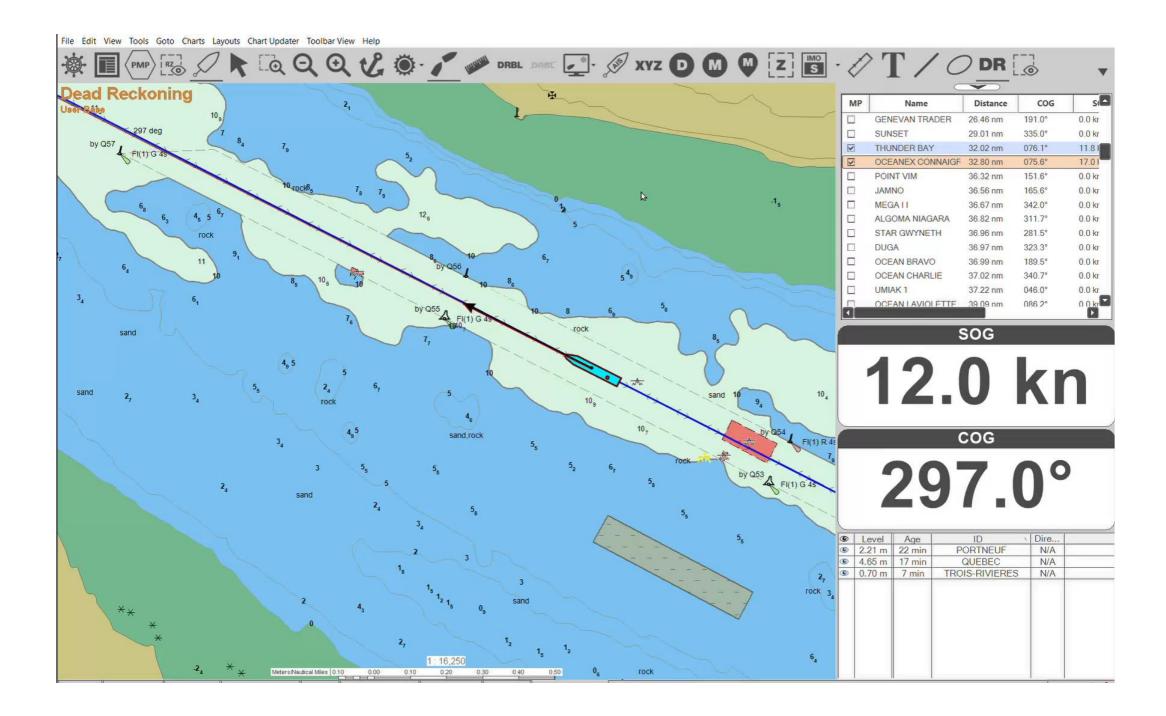


#### VERIFICATION FUNCTION

**VESSEL'S CHARACTERISTICS** 



LLOYD'S DATA BASE



### QUESTIONS / COMMENTS ?

Capt. Pascal Desrochers
National Center of Expertise on Maritime Pilotage
president@cpslc.ca



### NATIONAL CENTRE OF EXPERTISE ON MARITIME PILOTAGE

### Contact

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