

## Maritime Search and Rescue

National Joint Council Presentation:

The Anatomy of a Maritime SAR Incident from Alert to Resolution



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#### **01** CCG History/Maritime Incidents

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**19th century** - Creation of
 lighthouses, lifeboat stations,
 and other coastal aids to
 navigation.

History

# **1970s** - CCG began to develop more formal SAR capabilities and established Joint Rescue Coordination Centres (JRCCs).

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1990s -1970s -1800s - Early 1940s -1900s **1980**s Present 1960s Post World War II - Maritime **1990s** - Expansion of SAR capabilities through investing infrastructure expansion. In in advanced technology, 1962, the Canadian Coast specialized rescue vessels, Guard was officially established. and training

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### **Maritime Incidents**

BY THE NUMBERS

On an average day, the Canadian Coast Guard provides on-water response to:

- 12 incidents
- Assist 26 people
- Save 12 lives

And provides incident coordination for

- 18 incidents
- -Assisting 47 people
- Saving 13 lives
  - Common Incidents:
- Disabled Vessels
- Medical Assistance
- Grounding

- Vessels Taking on Water
- Person in the Water (PIW)
- Capsizing



When a vessel is in distress, there are several

communication methods to alert authorities or people in the area:

- Radio Communications or Telephone
- Beacons and Transponders
- Visual and Auditory Distress Signals



24/7, 365 monitoring of marine radio.Conducts communications support for SAR incidents.



May directly receive alerts by phone or beacon.

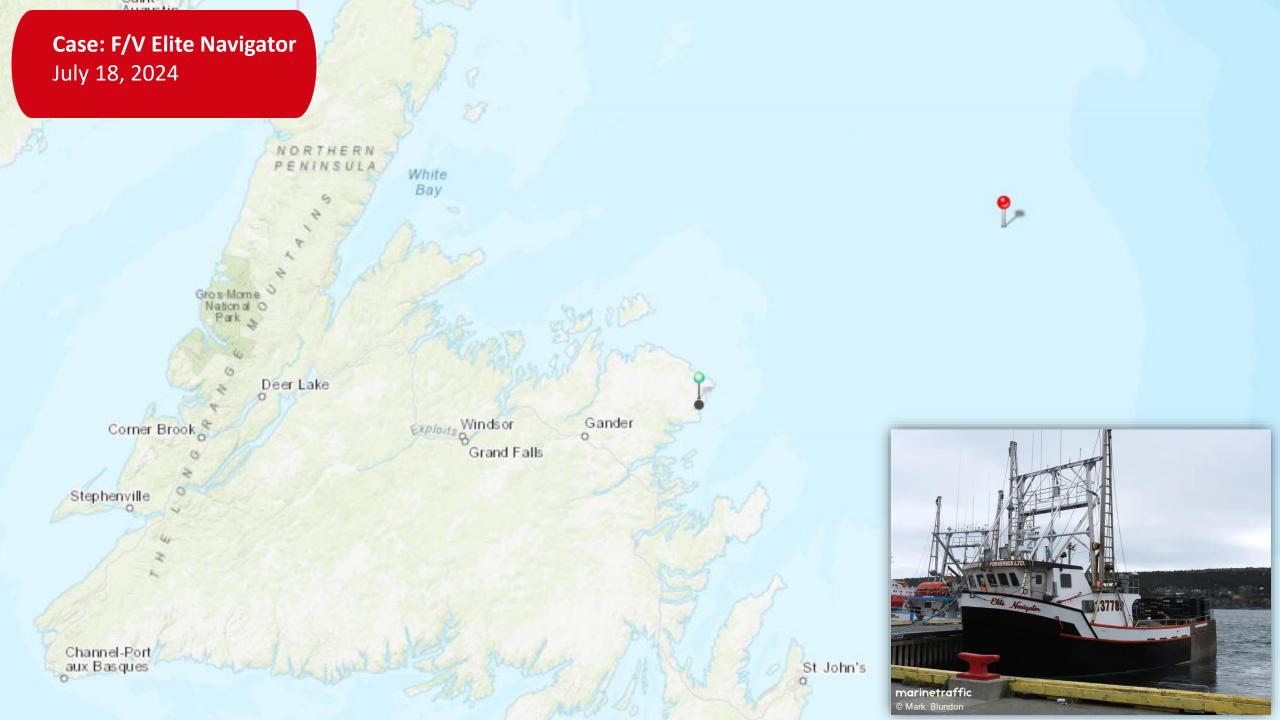
Coordinates incident response.











## **Response and Coordination**



Following an alert, the SAR system begins to respond.

- Distress broadcasts are issued.
- SAR Mission Coordinators task vessels to proceed to the area.
- Drift models and search patterns are generated.
- Various search assets are managed for their range, capability, endurance, personnel fatigue, etc.
- Assisting organizations are continuously engaged, next of kin (NOK) are briefed.



#### **Initial Response**

Distress Broadcasts (MAYDAY Relays).

Vessels of Opportunity (VOOs).

Primary SAR - 30 minute station departure standard.



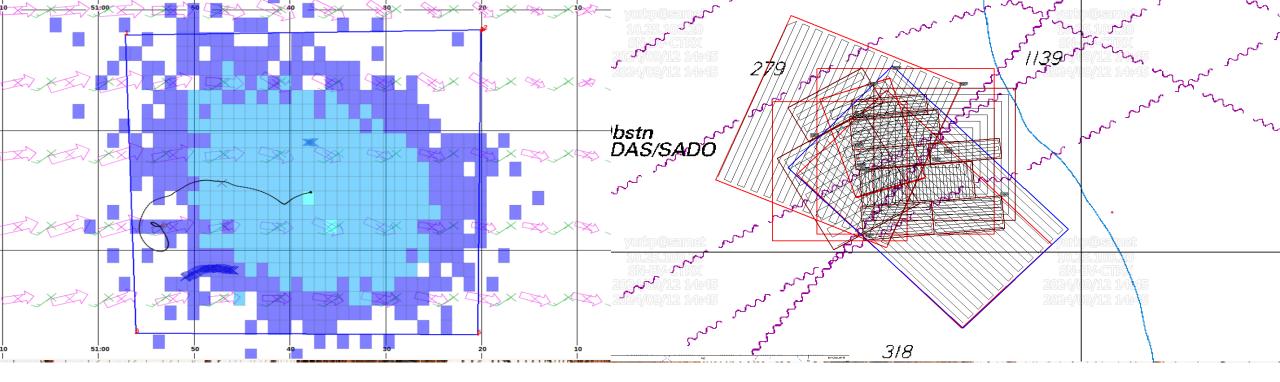
#### **Drift Modelling and Search Patterns**

Canadian Search and Rescue Program (CANSARP)/Search Mission Management Software (SMMS/SARMaster).



#### **Additional Resources**

Resources from assisting organizations (CAF, police, fire, RCMP, etc.)















The resolution to a maritime SAR incident is dependent on the outcomes of the search itself. Depending on the case, the resolution could involve assisting the vessel to get itself to shore, on-scene medical assistance or a medical transfer by sea or air, provision of a tow or transfer of the persons onboard, or the cessation of a search based on the reasonable likelihood of survival.



#### Scene Stabilization

Rescue Specialists.

Assistance to the vessel (dewatering, etc.).



#### **Transfer to Shore**

Transfer to ambulance or MEDEVAC.

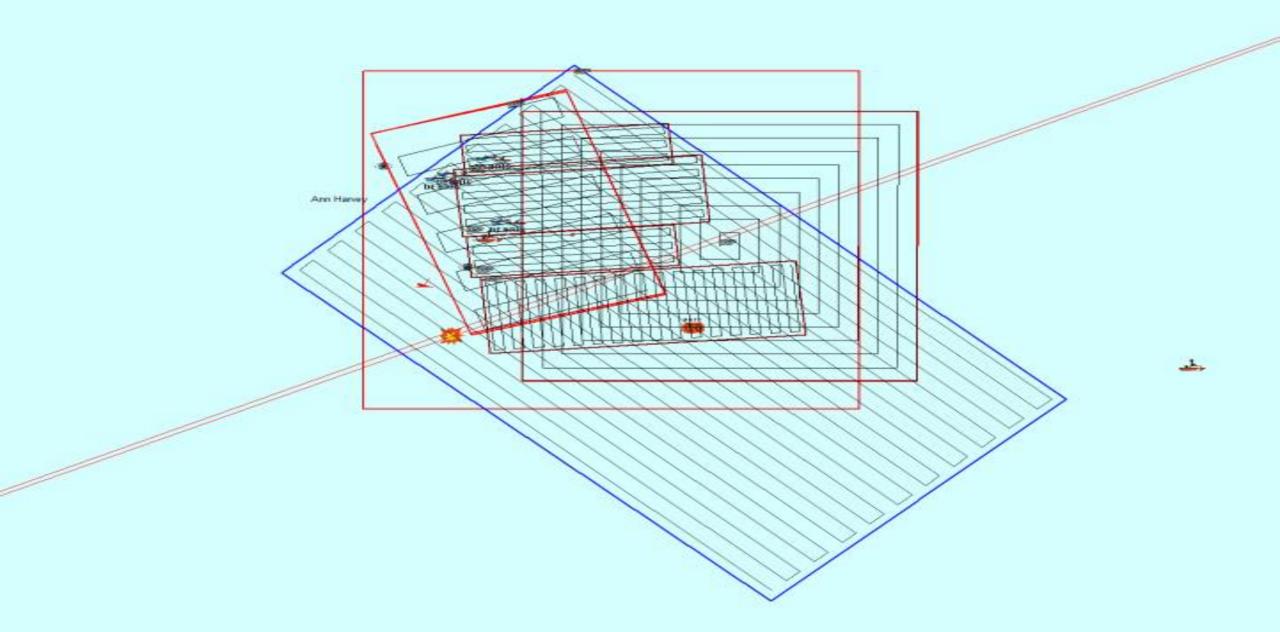
Transport to shore or towing.



#### Search Target Not Found

Expected survival times.

Case transfer to police.





## Thank You

