

Maritime Search and Rescue

National Joint Council Presentation:

The Anatomy of a Maritime SAR Incident from Alert to Resolution



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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.



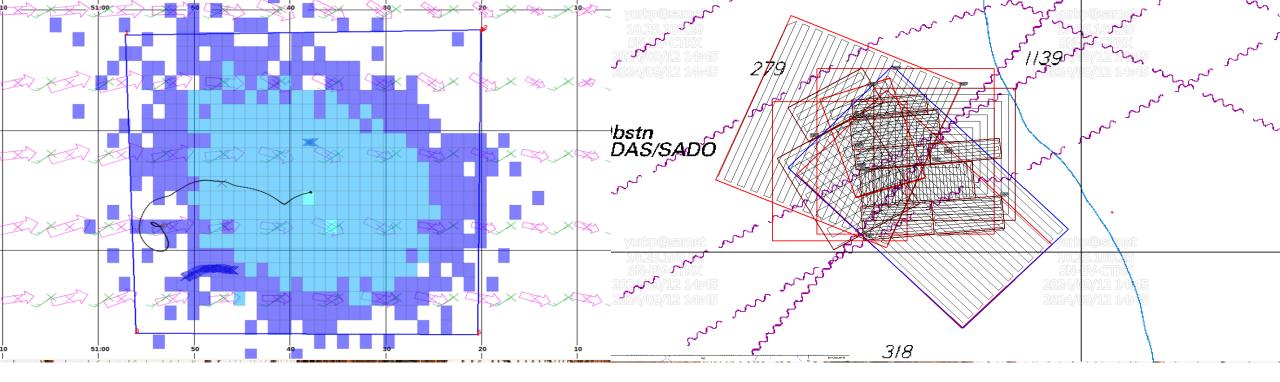
Drift Modelling and Search Patterns

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.

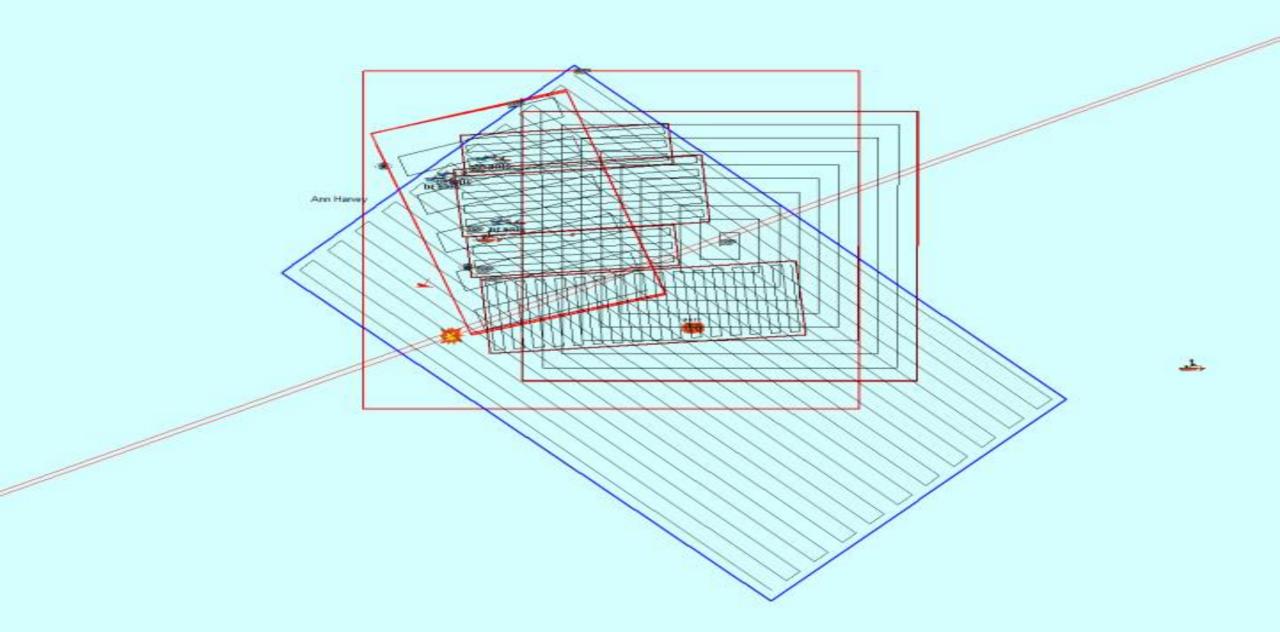
Transport to shore or towing.



Search Target Not Found

Expected survival times.

Case transfer to police.





Thank You

