

SARMAP provides rapid predictions of the movement of drifting objects.

APPLICATIONS FOR SARMAP INCLUDE:

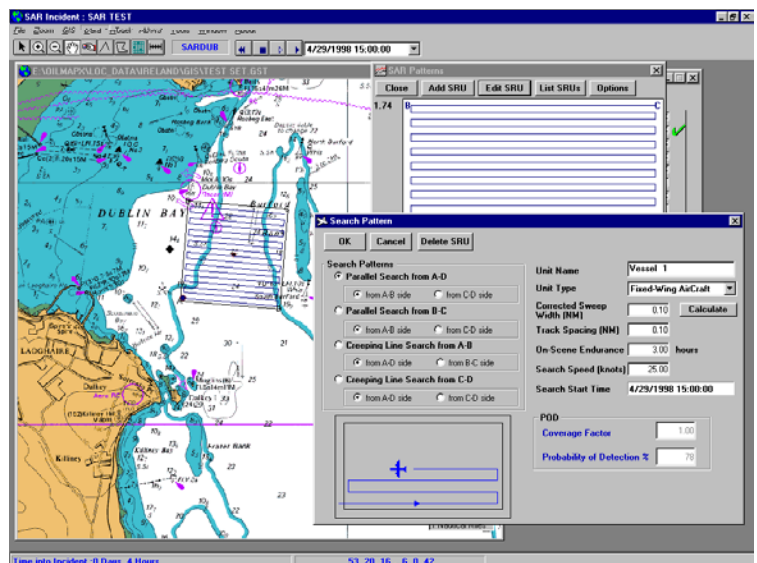
- Determine search area for missing vessels, persons or containers.
- Identify probable location of an accident site or lost object.
- Store home base locations of all available Search & Rescue Units (SRUs).
- Drills and education.

SARMAP GRAPHICAL TOOLS

- ▶ Specify incident information
- ▶ Display search area trajectories
- ▶ Input wind time series
- ▶ Generate steady current fields
- ▶ Generate tidal current fields
- ▶ Assign Search & Rescue Units (SRUs) to the Search Area

FEATURES

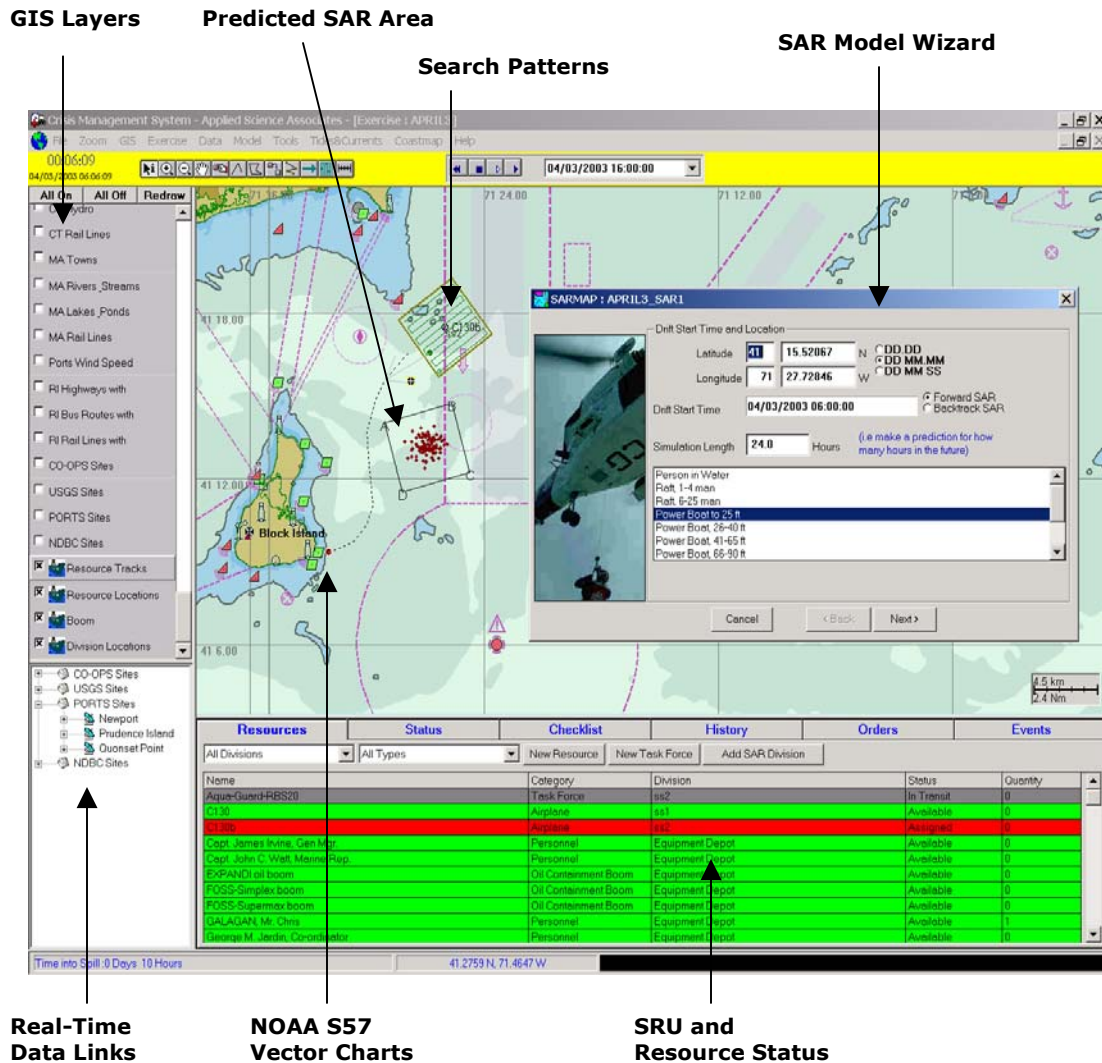
- Contains a database of drift behavior for a variety of objects based on the latest US Coast Guard data.
- Includes ASA's own GIS or can be used in other GIS software such as ArcView®.
- Easily interpreted visual displays of search area over time.
- Performs a series of postulated accident sites to develop envelopes of likely search areas.
- Links floating debris to find a lost object or an accident site.
- Real-time data links.
- Rapid Response Module (RRM) or SARMAP Wizard to very quickly lead them through the steps required to calculate a search area.
- Supports commercial nautical charts:
 - BSB NOAA Charts
 - MapTech Charts
 - NDI Charts
 - NOS Charts
 - British Admiralty (ARCS) Charts



The SARMAP Search and Rescue model (SARMAP) is based on the search planning methodology set forth in the National Search and Rescue Manual (USCG/IMO, 1991 - IAMSAR 1999). It is intended for use in marine incidents.

The model determines the most probable location and the area around the search object. The position of the search object changes due to winds and currents acting on the object. Over time the search area increases and is related to the drift of the object.

In the SARMAP user interface the search object is selected from a list of approximately fifty possible objects. Each search object has default values for the drift resulting from winds blowing against the exposed (above water) surfaces of the search object and the angles at which search objects may be transported to the left or right of downwind.



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