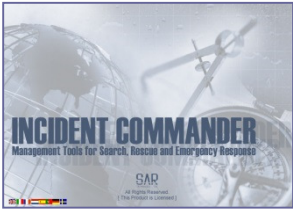




SAR Technology Inc.

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sarotechnology@telus.net



'Incident Commander Pro' Software



Professional Tools for Aeronautical Search and Rescue

'Incident Commander Pro' - powerful Air-Search features include:



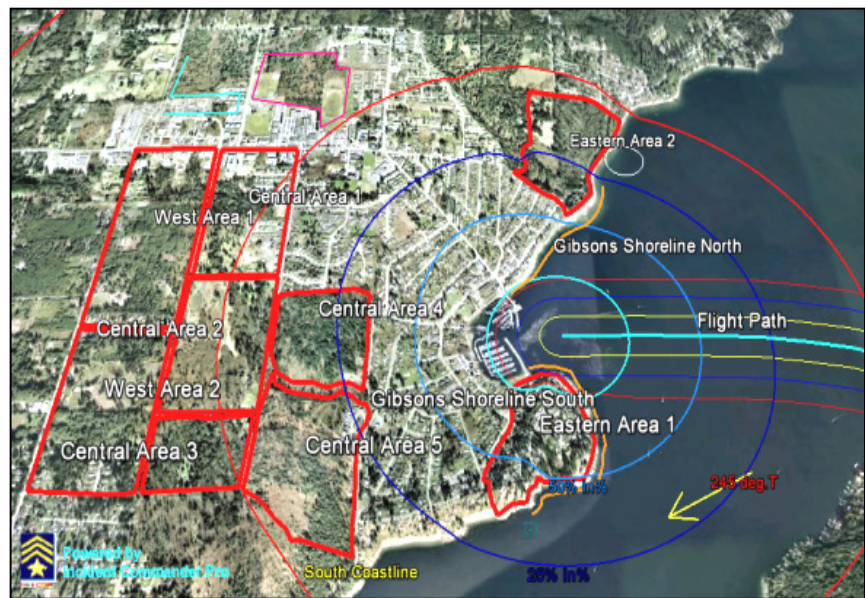
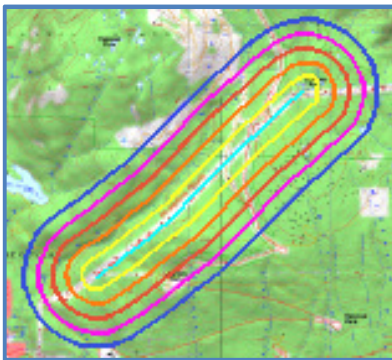
Air-Search Response



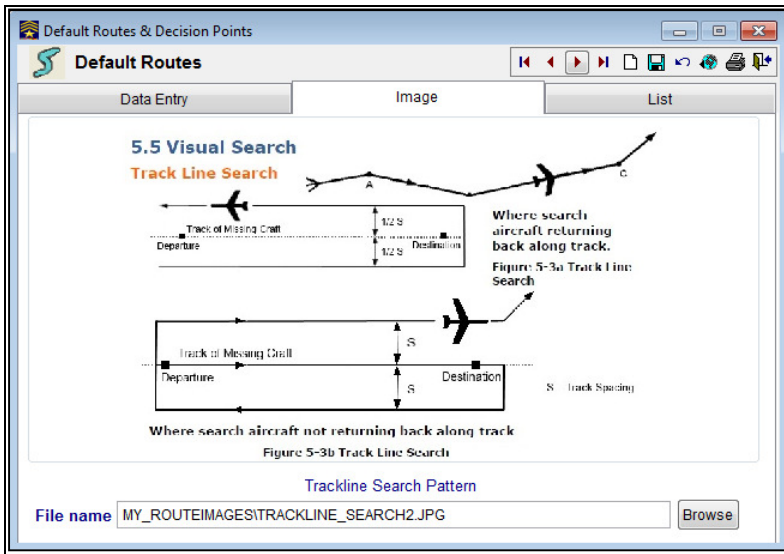
- Pre-Planned Air-Search Missions
- Recommended Search Strategies
 - Air-Search Plans and Data
 - Effective Search Tactics
 - Air-Search Patterns
 - Search Optimization
 - Drift Plotting Routine

Initial Response

- Track Line Search
- Scaled-Up Response
- Major Air-Search Mission



Search Plan along Flight Path towards intended Destination



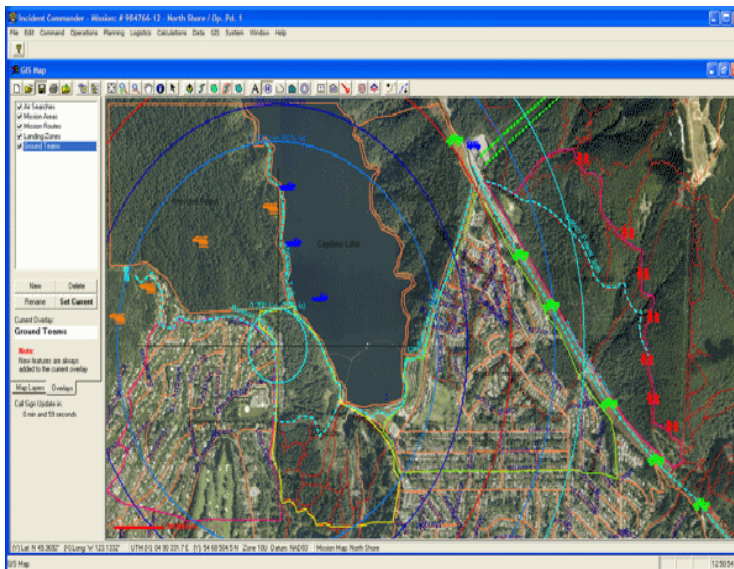
Integrated Search Patterns Data



- Track Line Search
- Parallel Track Search
- Expanding Square Search
- Departure/Turn/Destination Search



Integrated ICAO Search Patterns



Manage SAR Missions

- Integrated GIS Mapping.
- 'Live-Trak' Real-Time Google Earth Tracking.
- Familiar NIMS / ICS structure.
- Command, Operations, Planning & Logistics.
- Manages People, Information & Resources.
- Real-Time Mission Maps & Status Displays.
- Integrated Planning Data & Images.
- Powerful Logistic, GIS & Effort Calculators.
- Creates Mission Pre-Plans & Scenario analysis.
- Enhanced Network-Capability for Multi-Users.
- Extensive Reporting, Exporting & Help.
- Customizable to meet user needs.

Route Name	Length	Direction of Travel	Conditions Access	Exit	Task
Expanding Square Search - Spacing Table	5.45		Summer	0.00	0.00 : 1.00
Parallel Track Search Pattern	5.84			0.20	0.40 : 1.50
Trackline Search Pattern	5.08			0.30	0.30 : .50
Caulfield Marine Route	4.32			2.00	3.00 : 1.00
Howe Sound Marine Route	5.21			1.50	2.00 : 1.00
Shoreline Marine Route	5.06			1.00	1.50 : 1.50
Harbour Marine Route	3.33			0.20	0.30 : 1.50
Gibsons Marine Route	2.75			0.20	0.30 : 1.00



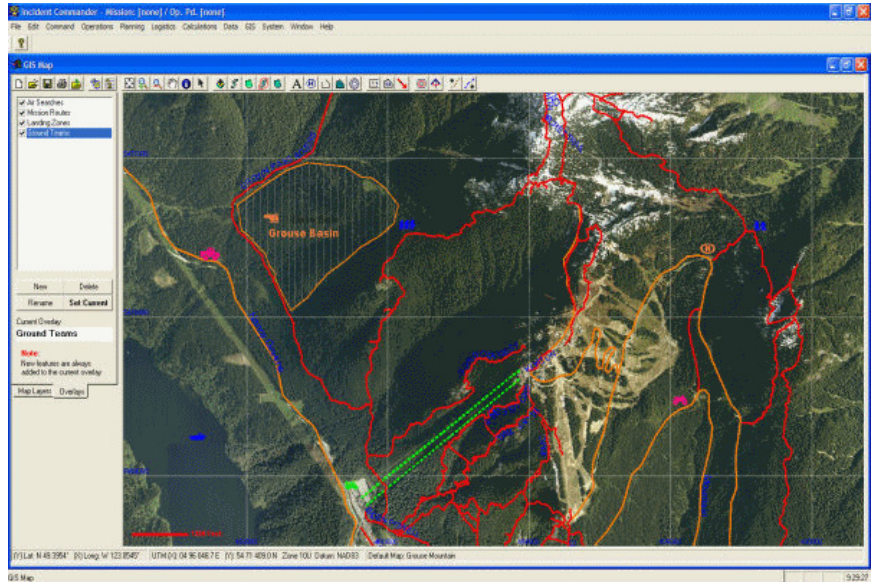
Air-Search and Marine-Search Assignments



Extensive GIS Capabilities



- 'Live-Update' Mission Map display.
- 'Live-Trak' plots team locations.
- Creates Pre-Plan & Mission Maps.
- Add background map layers.
- Create multiple map overlays.
- Draw, edit, customize map features.
- Displays a wide range of map formats.
- Plot target distance/direction profiles.
- Plot target distance/direction drift.
- Create area probability maps.
- Plots GPS track-files.
- Export routes to GPS devices.
- Loads routes/areas into Assignments.



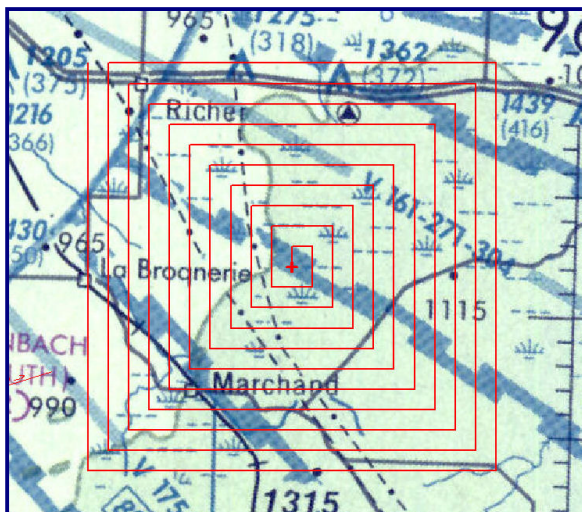
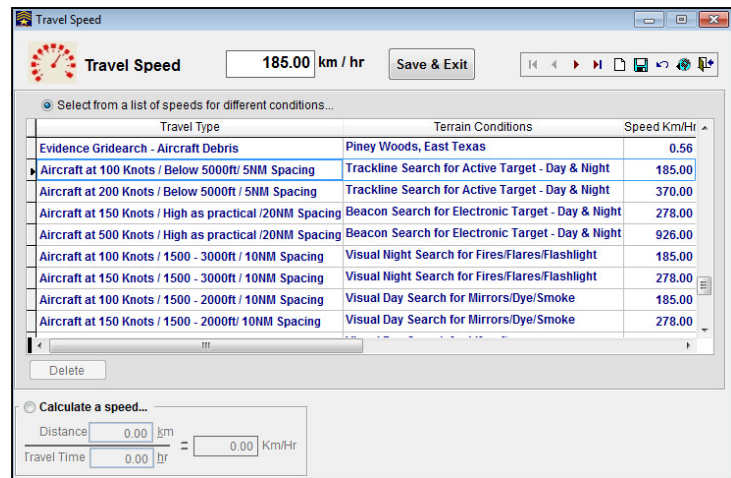
Recommended Procedures for Multiple Search Object Types



Air-Search Datasets



- Crashed Aircraft Probability Distance
- Aircraft Flight Speed Tables
- Aircraft Speed & Elevation Data
- Recommended Air-Search Patterns
- Flight Profiles for Search Targets



Expanding Square Search Pattern

- Search Pattern Templates



- Aeronautical Symbols
- Emergency Beacon Symbols
- Weather Symbols

Multiple Scalebar Units



Real-Time Operations Displays



- Mission Statistics Dashboard
- Mission Status Display
- Personnel Status Display
- Resource Status Display

The screenshot shows the Incident Commander software interface with several panels:

- Personnel Status Display:** Shows a list of personnel with columns for Name, Org, On-Site, Alloc, Avail, and Refresh.
- Mission Routes:** A map view showing mission routes over a terrain background.
- Mission Status Display:** A table showing mission details:

Priority	From	To	Assignment Name	Resource Type	Status	Latest Dialogue
4	West1	1	Westridge Causeway	Medical Team	Underway	The Westridge Causeway is again reaching the upper West
3	Wolf1	2	Wolverine Basin	Dive Team	Allocated	Reorganizing the Western Park
2	West01	3	Western Perimeter Route	Containment	Postponed	Reorganizing the Western Park
1	Lake1	4	Lakeside Flats	Dive Team	Underway	Lakeside Flats are nearly all
5	DISA01	5	East Slope Evacuation	Logistics	On Hold	The evacuation is beginning
6	CM001	6	Citizens Patrol	Security	Returning	Starting the patrol
- ICS 309 - Communications Log:** Shows a log of communications with columns for Call sign, Tx, Date/Time, Status, Location, Elev, Clue#, and Dialogue.

The screenshot shows the ICS 201 - Mission Briefing software interface. It features a terrain map with a red outline indicating mission routes and areas. The interface includes fields for Ref. file#, Cross ref.#, Prepared by, and Prepared on. The map shows a mountainous region with a red boundary and a cyan circular area in the center.

Aircraft Crash Map

Enhanced Planning Functionality



- Mission Routes
- Mission Areas
- Operations Plan
- Assignment Forms
- Terrain Type Tables
- Screen Background Image
- Custom Organization Logo
- Missing Person Questionnaire

The image shows a detailed aeronautical map symbology overlay on a Google Earth terrain map. The symbology includes various symbols for:

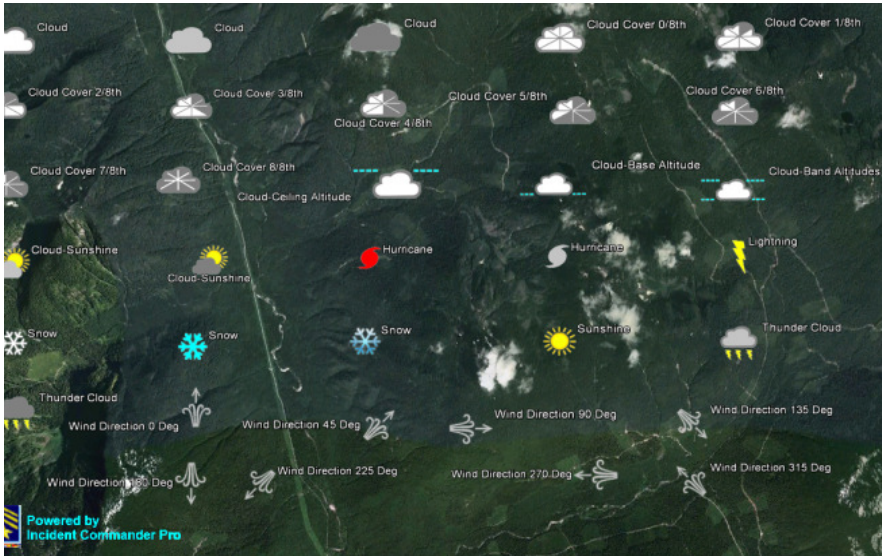
- Abandoned Aerodrome
- Aerodrome Procedures
- Aerodrome Reference Point
- Aerodrome Traffic Zone
- Basic Radio Navigation Aid
- Building Area
- Church
- City/Large Town
- Civil Aerodrome
- Cleatway
- Compulsory Reporting Point
- Controlled Estate
- Distance Measuring Equipment
- Dual Highway
- Emergency Aerodrome
- Exceptionally High Obstacle
- Factory
- Elevation of Top of Obstacle ASL
- Final Approach Fix
- Flight Information Region
- Group of Obstacles -Unlit
- International Boundary
- Fence
- Marine Light
- Military Aerodrome
- Mine
- Hard Surface Runway
- Outer Limit of Territorial Area
- Parachute Jump Site
- Paragliding/Hangliding Site
- Point Light
- Pole/Tower/Spire/Antenna
- Port
- Radio Marker Beacon
- Railroad
- Railroad Station
- Railroad Tracks
- Restricted Airspace
- Runway holding Pattern
- Runway Holding Pat
- Secondary Road
- Slag Heap
- Spot Elevation
- Stopways
- Stop Bar
- Stop Bar
- Taxiways/Parking Areas
- Temporary Segregated Areas
- Town/Village
- Transmission Overhead Cable
- Tze/Shrub
- Unclassified Aerodrome
- Unpaved Runway
- VHF VOR
- Wind Direction Indicator
- Wind Turbine

Aeronautical Map Symbology



- For 'Incident Commander Pro'
- For 'Global Earth Tools' for Google Earth





Weather Map Symbology



- For 'Incident Commander Pro'

- For 'Global Earth Tools' for Google Earth



Integrated Logistic Functionality



- Communications Logs
- Communications Plans
- Mission Medical Plans
- Check-In Personnel
- Resource Tracking
- Mission Status Displays



Ground POD (Optimized)	Ground POD (unoptimized)	Helicopter POD	POD vs. Coverage
Sweep Type		Terrain Type	
Evidence Sweep	Open Alder-Deciduous Forest - Light to Moderate Bush		Season
Evidence Sweep-Raking Ground	Open Alder-Deciduous Forest - Light to Moderate Bush		Fall
Evidence Sweep	Grassy Fields with Knee-High Grass		Summer
Aircraft Debris Gridsearch	East Texas Piney Forest		Spring

Terrain Images

Select Gridsearch Spacing & Sweep Conditions

High POD	Low POD	Large Area POD
89 %	0 %	0 %
9 ft	0 ft	0 ft
4 paces	0 paces	0 paces
3 m	0 m	0 m
1 Sweeps	0 Sweeps	0 Sweeps
Sound Interval	Search Speed	0.34 miles/hr
seconds		0.56 km/hr

Planning Data



- Probability of Detection Tables
- Sweep Width Tables
- Subject Behavioral Profiles
 - Travel Speeds
 - Mission Types
 - Search Patterns
- Pre-Plan Notebook

Aircraft Debris Search Data

Search Planning Calculators

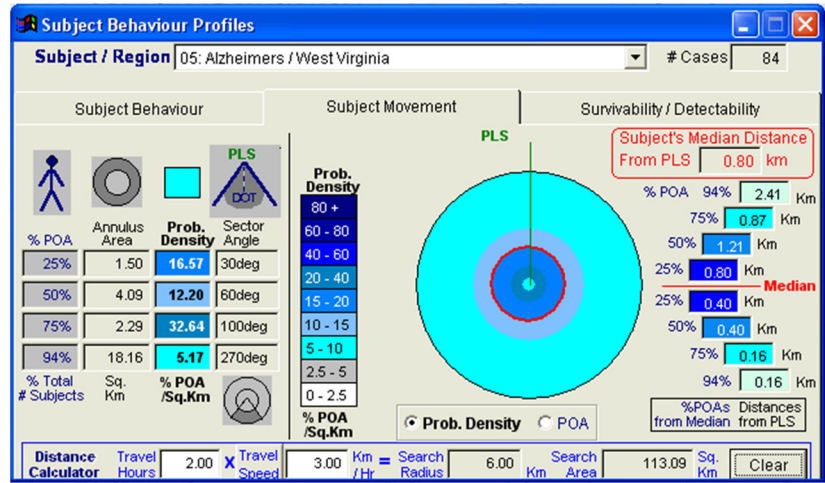


Probability of Success Prioritization

- Sweep Width Tables
- Probability of Detection Tables
- Search Coverage Calculator
- Probability of Area Calculations

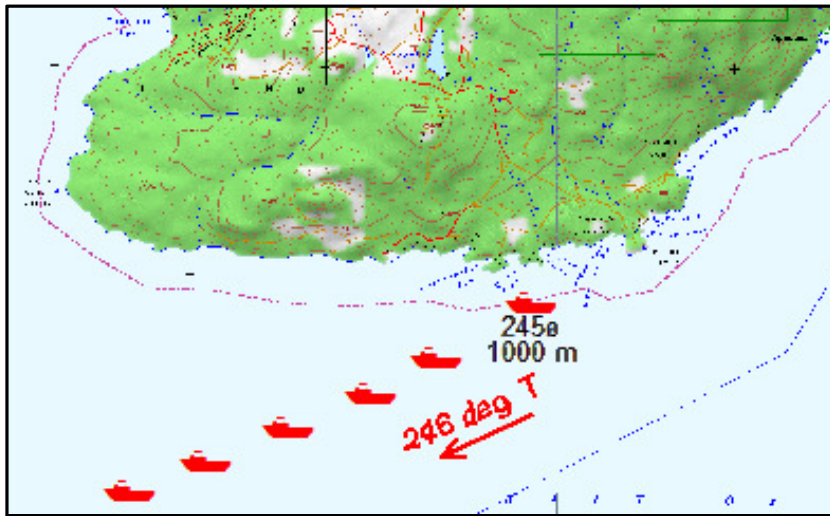


- Search Speed Tables



Area Name	Size sq. km	Assg#	Track Name	Length km	Sweep Width m	Track AES	Description
Area 4	0.119	3	Central trackline	15.000	15	0.2250	The gridline parallel to the west border
Central Area 2	0.230	4	Central track 2	9.500	20	0.1900	Parallel to the East border
Central Area 3	0.101	5	Ground trackline 3	14.000	7	0.0980	Parallel to the creekside
Central Area 4	0.136	6	Central trackline 4	12.500	15	0.1875	Following the fence/line Southwards
Eastern Area 1	0.163	7	Shoreline grid	7.900	9	0.0711	Searchline parallels the shoreline
Eastern Area 2	0.226	8	Quad trackline	16.300	15	0.2445	Track follows the trail direction
West Area 1	0.364	1	West trackline	1.500	20	0.0300	The Western boundary area
West Area 2	0.246	2	Team 2 trackline	7.500	30	0.2250	First response team gridsearch

Area 4	
Total Track(s) - Area Effectively Swept:	0.2250 Sq. Km
Area Size:	0.119 Sq. Km
Total Area Coverage:	1.8907
Area Probability of Detection:	84.90 %



Drift Plot Projections



Integrated Drift plotting routine plots predicted drift locations with time.

For more information please contact:



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