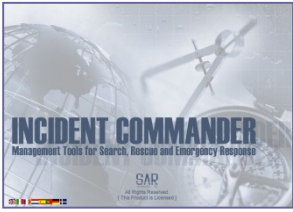




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## *'Incident Commander Pro' Software*



**Professional Tools for Aeronautical Search and Rescue**

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



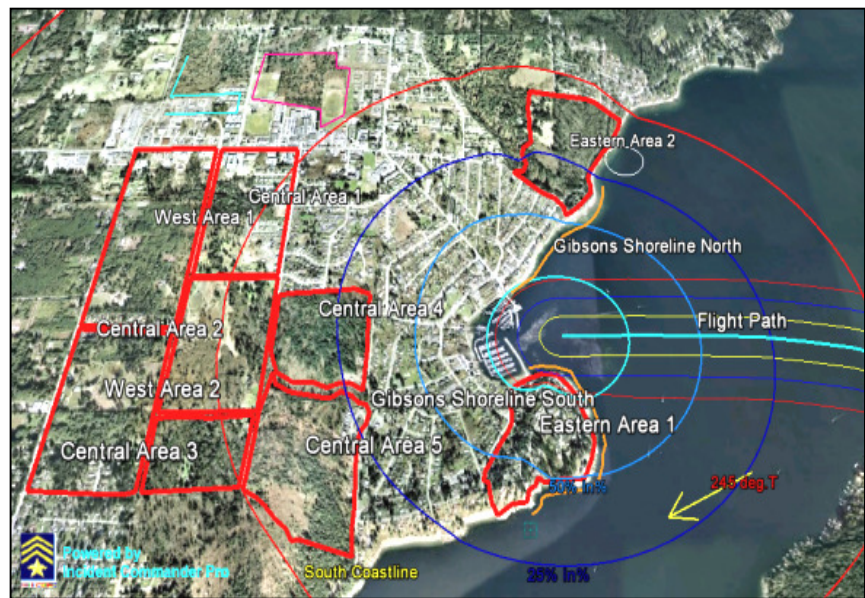
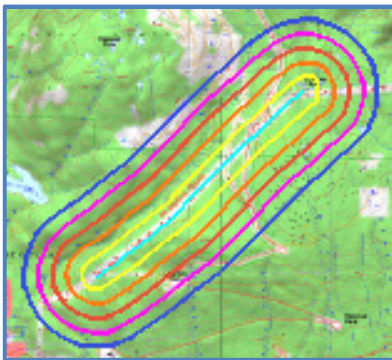
### **Air-Search Response**



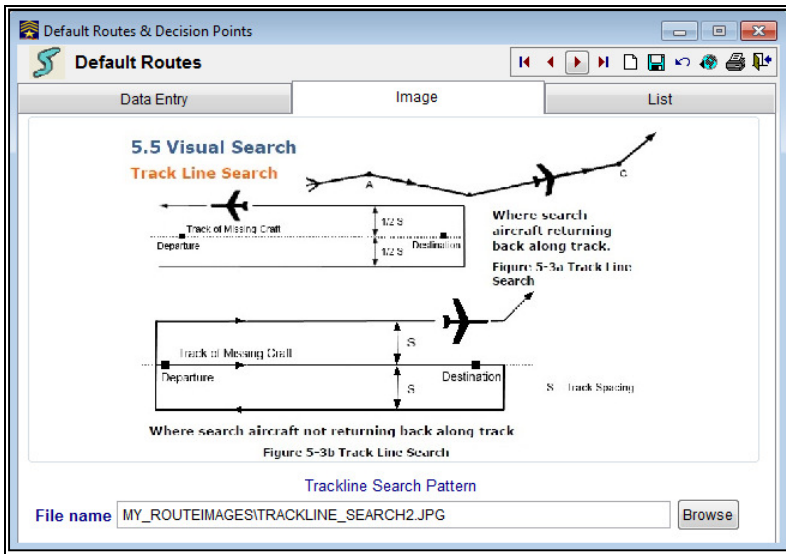
- Pre-Planned Air-Search Missions
- Recommended Search Strategies
  - Air-Search Plans and Data
  - Effective Search Tactics
    - Air-Search Patterns
    - Search Optimization
    - Drift Plotting Routine

### **Initial Response**

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



**Search Plan along Flight Path towards intended Destination**



### Integrated ICAO Search Patterns

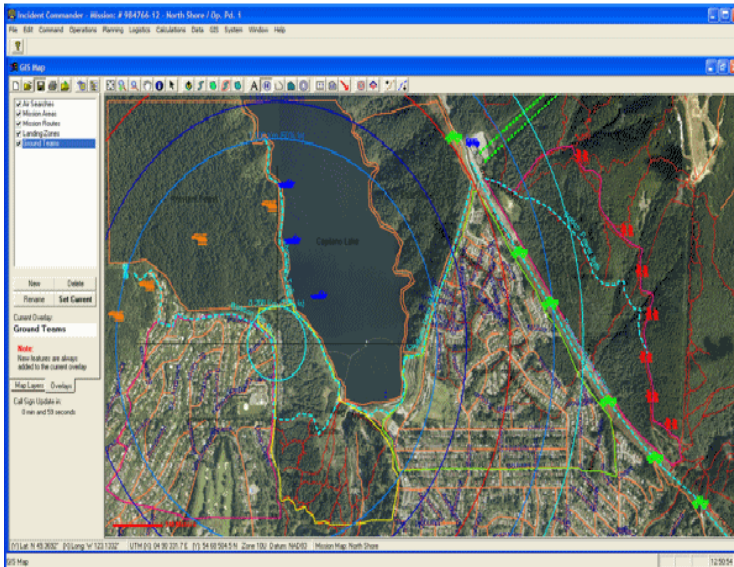
### Integrated Search Patterns Data



- Track Line Search
- Parallel Track Search
- Expanding Square Search



### 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.

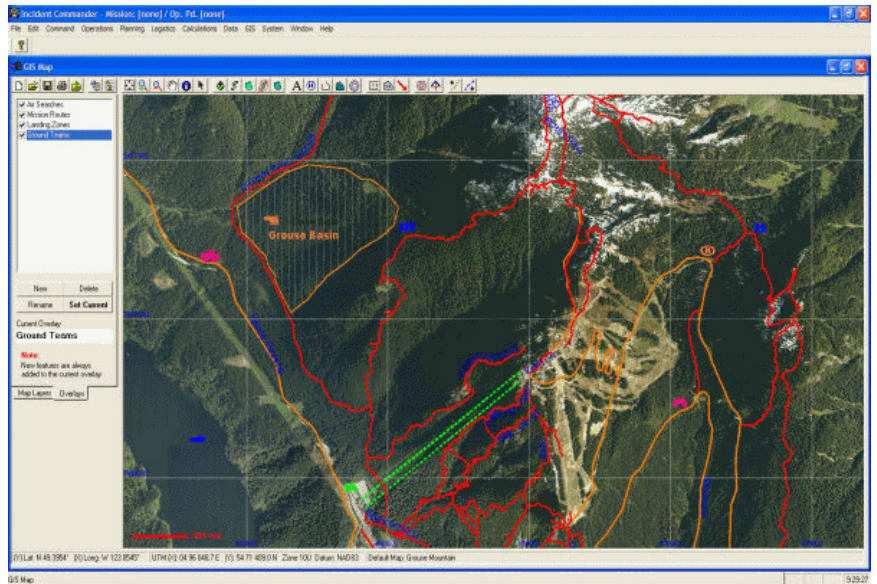
Route Name	Length	Direction of Travel	Conditions	Access	Exit	Task
Expanding Square Search - Spacing Table	5.45		Summer	0.00	0.00	1.00
Parallel Track Search Pattern	5.84			0.20	0.40	1.50
Trackline Search Pattern	5.08			0.30	0.30	1.50
Caulfield Marine Route	4.32			2.00	3.00	1.00
Howe Sound Marine Route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



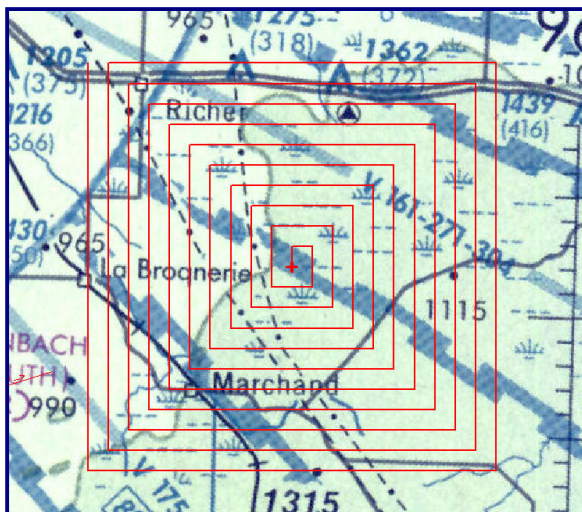
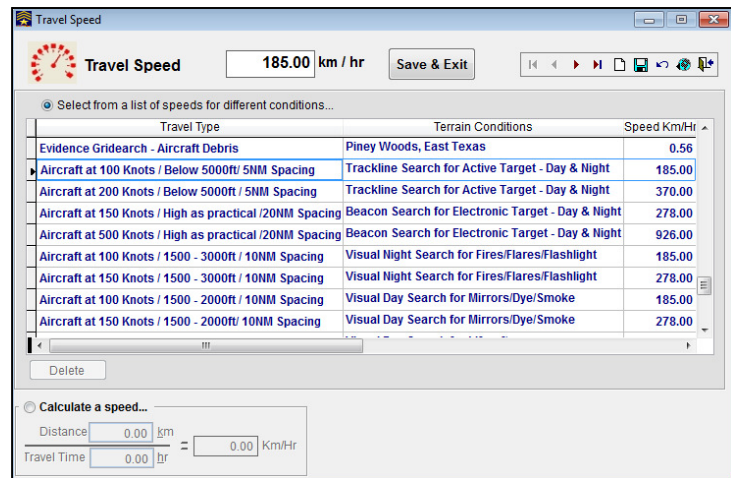
## Recommended Procedures for Multiple Search Object Types



## 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 table with columns for Name, Org, On-Site, Alloc, Avail, and Refresh. It lists personnel like 'Lions Bay SAR' and 'General Public'.
- Mission Routes:** A map area with a list of routes and their details.
- Mission Status Display:** Shows a table with columns for Priority, From, To, Assignment Name, Resource Type, Status, and Latest Dialogue. It lists assignments like 'Westridge Causeway', 'Wolverine Basin', and 'Western Perimeter Route'.
- ICS 309 - Communications Log:** Shows a table with columns for Call sign, Tx, Date/Time, Status, Location, Elev, Clue#, and Dialogue. It lists communications for 'Wolverine Basin'.

The screenshot shows the ICS 201 - Mission Briefing software interface. It features a terrain map with a red outline representing mission routes and a cyan circle representing mission areas. The interface includes fields for Ref. file#, Cross ref.#, Prepared by, and Prepared on.

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 an aerial map with various aeronautical symbols overlaid. The symbols include:

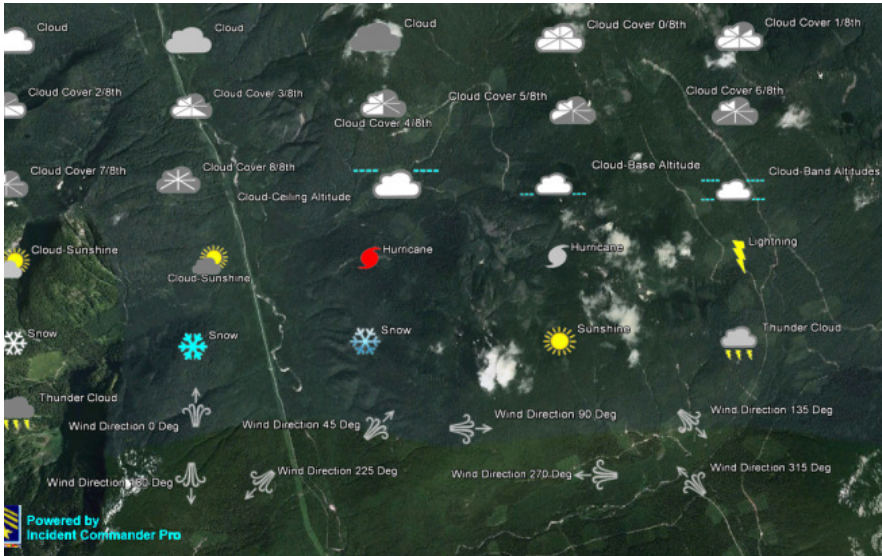
- Aerodrome symbols: Abandoned Aerodrome, Aerodrome Reference Point, Aerodrome Traffic Zone, Civil Aerodrome, Emergency Aerodrome, Military Aerodrome, and Unclassified Aerodrome.
- Runway symbols: Hard Surface Runway, Runway Holding Pattern, and Unpaved Runway.
- Navigation aids: Basic Radio Navigation Aid, VHF VOR, and Wind Turbine.
- Other symbols: Church, City/Large Town, Distance Measuring Equipment, Fence, Marine Light, Point Light, Pole/Tower/Spire/Antenna, Railroad Station, Railroad Tracks, Secondary Road, Slag Heap, Spot Elevation, Stopways, Temporary Segregated Areas, Town/Village, Transmission Overhead Cable, Zee/Shrub, and Wind Direction Indicator.

## 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	m	m
1 Sweeps	Sweeps	Sweeps
Sound Interval	Search Speed	0.34 miles/hr
seconds		0.56 km/hr

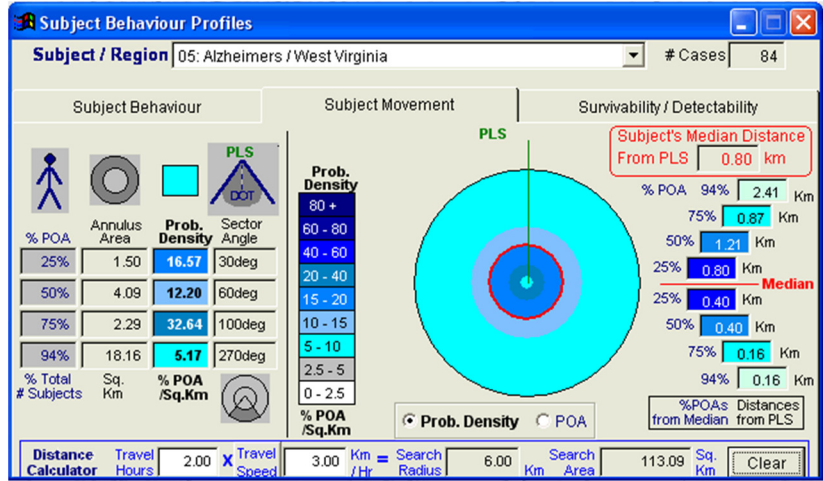
## Planning Data



- 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

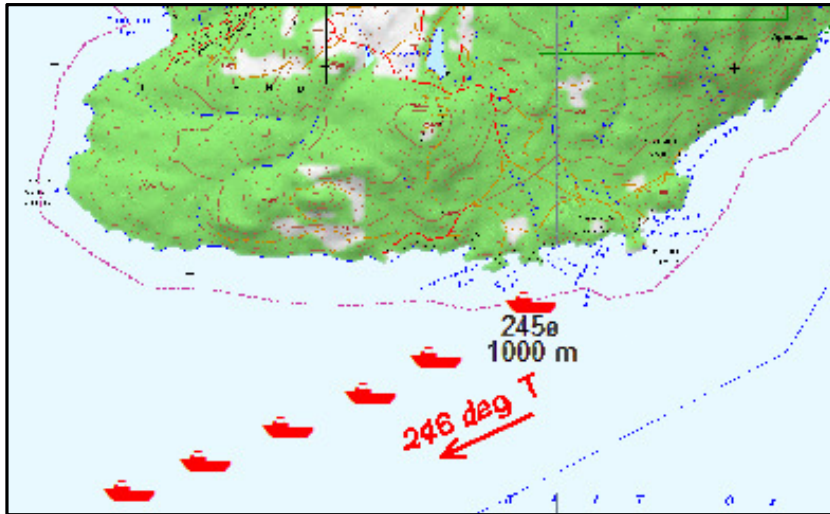
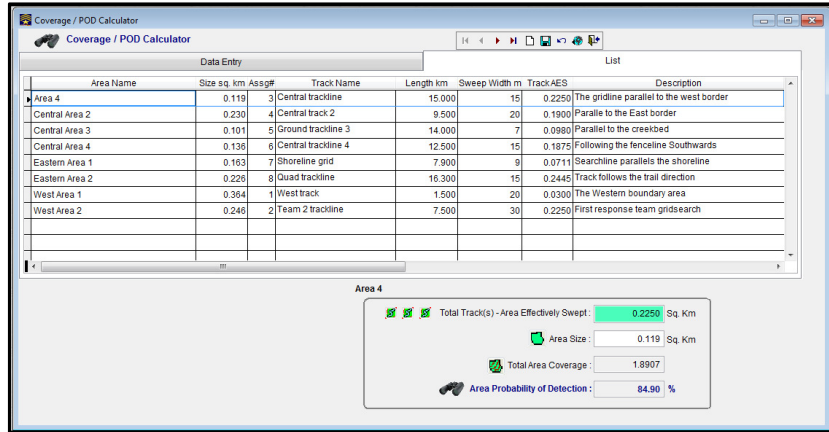


## Probability of Success Prioritization

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



- Search Speed Tables



## Drift Plot Projections



Integrated Drift plotting routine plots predicted drift locations with time.

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