



Incident Commander Pro' Software



Professional Tools for Aeronautical Search and Rescue

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



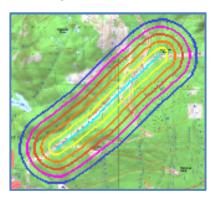
Air-Search Response

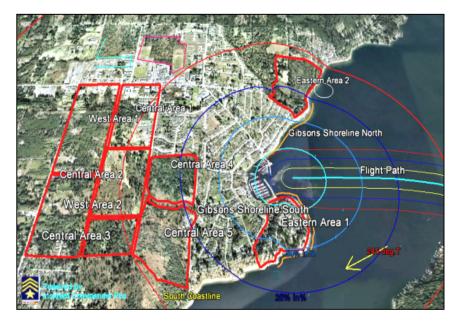


Pre-Planned Air-Search Missions
Recommended Search Strategies
Air-Search Plans and Data
Effective Search Tactics
Air-Search Patterns
Search Optimization
Drift Plotting Routine

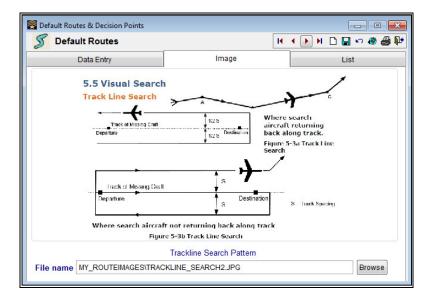
Initial Response

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





Search Plan along Flight Path towards intended Destination



Integrated ICAO Search Patterns

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Integrated Search Patterns Data



Track Line SearchParallel Track SearchExpanding 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.

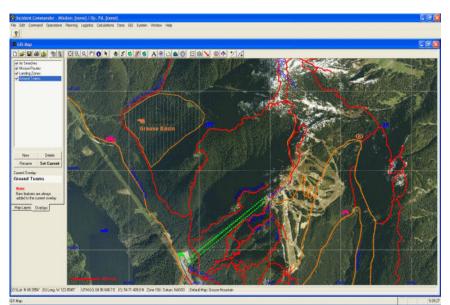
S Default Routes		K	< → H	D 🗌 I	o 🛞 🎒 🖡
Data Entry		Image		List	
				Hou	Irs
Route Name	Length	Direction of Travel	Conditions	Access	Exit Tasł 4
Expanding Square Search - Spacing Table	5.45		Summer	0.00	0.00 !.00
Parallel Track Search Pattern	5.84			0.20	0.40 .50
Trackline Search Pattern	5.08			0.30	0.30 .50
Caulfield Marine Route	4.32			2.00	3.00 .00
Howe Sound Marine Route	5.21			1.50	2.00 .00
Shoreline Marine Route	5.06			1.00	1.50 .50
Harbour Marine Route	3.33			0.20	0.30 .50
Gibsons Marine Route	2.75			0.20	0.30 .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

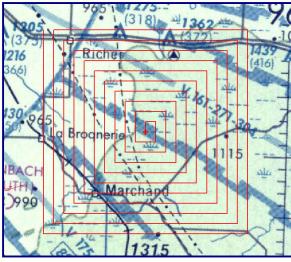


Air-Search Datasets



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

	Select from	a list of	speeds	s for differer	nt conditions			
			Travel 1	Гуре		Terrain Conditions	Speed Km/Hi	r -
	Evidence Grid	earch - /	Aircraft	Debris		Piney Woods, East Texas	0.56	
•	Aircraft at 10) Knots	Below	5000ft/ 5N	M Spacing	Trackline Search for Active Target - Day & Night	185.00	
T	Aircraft at 200) Knots	Below	5000ft / 5N	M Spacing	Trackline Search for Active Target - Day & Night	370.00	1
1	Aircraft at 150) Knots	High a	s practical	20NM Spacing	Beacon Search for Electronic Target - Day & Night	278.00	
1	Aircraft at 500) Knots	High a	s practical	20NM Spacing	Beacon Search for Electronic Target - Day & Night	926.00	
1	Aircraft at 100) Knots	1500 -	3000ft / 10	NM Spacing	Visual Night Search for Fires/Flares/Flashlight	185.00	
1	Aircraft at 150) Knots	1500 -	3000ft / 10	NM Spacing	Visual Night Search for Fires/Flares/Flashlight	278.00	
t	Aircraft at 100) Knots	1500 -	2000ft / 10	NM Spacing	Visual Day Search for Mirrors/Dye/Smoke	185.00	Ľ
1	Aircraft at 150) Knots	1500 -	2000ft/ 101	VM Spacing	Visual Day Search for Mirrors/Dye/Smoke	278.00	
t								



Expanding Square Search Pattern

- Search Pattern Templates

- Aeronautical Symbols
- Emergency Beacon Symbols
- Weather Symbols

Multiple Scalebar Units

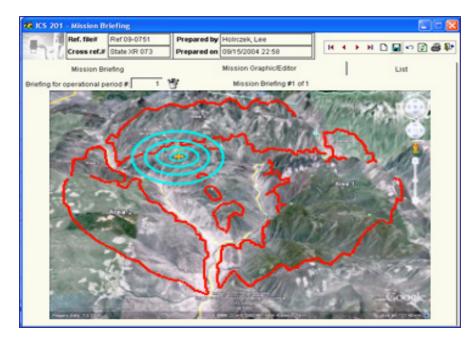


Real-Time Operations Displays



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

👰 Incident Commander - Mission: # 9	88347578 - New Mission XXX / Op	. Pd. 1			
File Edit Command Operations Planning	Logistics Calculations Data System W	/indow Help			
	cated Concluded Total Person 0 0 7 Affiliation		Public Personnel Availability	g Onsite	Allocated Available
Status O 7		ons 🕤 🕺 0		0L	al al o
	📕 Personne				_ D X
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TEMHORIOSK THE TEMHORO	Show: 🤆 All	C Available Sort By: • Name C (Org. On-Site 9	Alloc. 9	Avail. 0 Refresh
A Mission Routes		🗖 🗖 🗙 at			ization 🔺
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	1			Bay SAR Bay SAR	
Data Entry	Image	List		al Public	
				Shore Rescue	
	Gui		Ops Lions	Bay SAR	
and a start of the	Kission Status Display				
	Ref. file# Ref90090				Φ
	Cross ref.# CR 987	Operations Plan Statu	16°		H 4 F
which the same	Priority From #	Assignment Name	Resource Type	Status	Latest Dialogue
	4 West1 1 Westridge Cau		Medical Team	Underway	The Westside Causeway is
	3 Wolf1 2 Wolverine Bas		Dive Team	Allocated	approaching the upper Wo
and the second second	2 West01 3 Western Perin		Containment	Postponed	Beginning the Western Per
All Contract	1 Lake1 4 Lakeside Flats		Dive Team	Underway	Lakeside Flats are nearly s
Stands and a la	5 DISA01 5 East Slope Eva		Logistics	On-Hold	The evacuation is beginning
ICS 309 - Communications Log	6 CM01 6 Citizens Patro		Security	Returning	Starting the patrol
				Postponed	The maintenance shed nee
From Callsign To Call sign	Wolf1 Tx 0.0000 OP 1	Ross, Jamie Wolf1 21	:32:01		
> Phone < Assign.#	2 Wolverine Basin		1.0 🛨 🚺 🔄		
> Note < C Callsign	Date / Time : Sort By	H + > H 🗋 🖬 🕫 😭	161		
> All < From	To Date Time Status L	ocation Elev. Clue# Dialo		Dialogue	
> BASE < route1	BASE Nov12 13:10 Underway	0 0 route 1 secon	d comms		
	BASE Nov14 19:55 Returning	0 0 Starting the p	atrol	nin	
> CIVI3 < DIBAN1	BASE Nov14 19-56 On-Hold	0 0 The evacuation	n is heninnir	5111	



Aircraft Crash Map

Enhanced Planning Functionality



Mission Routes

Mission Areas
Operations Plan
Assignment Forms
Terrain Type Tab les
Screen Background Image
Custom Organization Logo
Missing Person Questionnaire

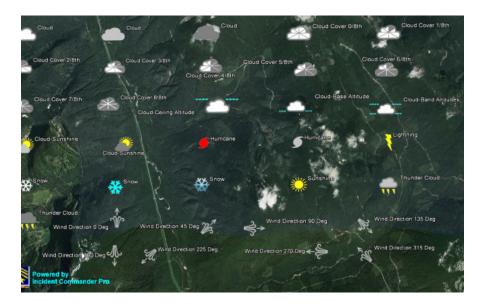






- For 'Incident Commander Pro'

- 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 PC	D POD	vs. Coverag	e
Sweep Type	Ter	rain Type		Season	
Evidence Sweep	Open Alder-Decidious Forest	- Light to Moderate	Bush	Fall	1
Evidence Sweep-Raking Grou	Ind Open Alder-Decidous Forest	Light to Moderate	Bush	Fall	ſ
Evidence Sweep	Grassy Fields with Knee-High	Grass		Summe	ł
Aircraft Debris Gridsearch	East Texas Piney Forest			Spring	1
		ft 0 paces 0 m Sweeps 9	m Sweeps	0 ft 0 paces m Swee 0.34 miles	p
			peed		

Aircraft Debris Search Data





- Probability of Detection Tables

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

Search Planning Calculators



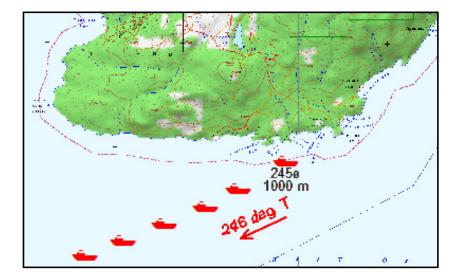
Probability of Success Prioritization

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



Subject Behaviour Profiles Subject / Region 05: Alzheimers /	'West Virginia	💶 🗖 🗙
Subject Behaviour	Subject Movement	Survivability / Detectability
No. Annulus Area Prob. Prob. Area Sector Density 25% 1.50 16.57 30deg 50% 4.09 12.20 60deg 75% 2.29 32.64 100deg 94% 18.16 5.17 270deg % Total # Subjects Sq. w POA Kin % POA Sq. w	Prob. Density 80 + 60 - 80 40 - 60 20 - 40 15 - 20 10 - 15 5 - 10 2.5 - 5 0 - 2.5 0 - 2.5 0 - 2.5 0 - 2.5 % POA % PCA	Subject's Median Distance From PLS 0.80 km % POA 94% 2.41 Km 75% 0.87 Km 50% 1.21 Km 25% 0.80 Km 25% 0.40 Km 50% 0.40 Km 75% 0.16 Km 94% 0.16 Km 94% 0.16 Km
Distance Travel 2.00 X Travel Speed	3.00 Km = Search 6.00 Km	Area 113.09 Sq. Clear

Coverage / POD Calcu	lator				I∈ → →	080	@ #*	
	Data Entry						List	
Area Name	Size sq. km Ass	g# Track Name	Leng	th km	Sweep Width m	Track AES	Description	
Area 4	0.119	3 Central trackline		15.000	15		The gridline parallel to the west border	
Central Area 2	0.230	4 Central track 2		9.500	20		Paralle to the East border	
Central Area 3	0.101	5 Ground trackline 3		14.000	7		Parallel to the creekbed	
Central Area 4	0.136	6 Central trackline 4		12.500	15		Following the fenceline Southwards	
Eastern Area 1	0.163	7 Shoreline grid		7.900	9		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 track		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	
4								+
		A	rea 4					
				🖌 Tota	Il Track(s) - Area I	Effectively Sv	vept : 0.2250 Sq. Km	
						🔼 Area	Size : 0.119 Sq. Km	
					🛃 Tota	al Area Cover	age : 1.8907	
				- A	🖉 Area Probab	ility of Detec	tion : 84.90 %	



Drift Plot Projections



Integrated Drift plotting routine plots predicted drift locations with time.

For more information please contact:

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