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INCIDENT COMMANDER PRO' V8



**PREMIER SOFTWARE FOR
SEARCH | RESCUE | SAFETY
SECURITY | EMERGENCY RESPONSE**

GIS Mapping | Mobile Tracking | GPS Plotting | Message Alerts

Global Earth Tools | Smartphone Tracking | GPS Radio Tracking

Coverage POD Calculator | Data Import Export | Expanded Database

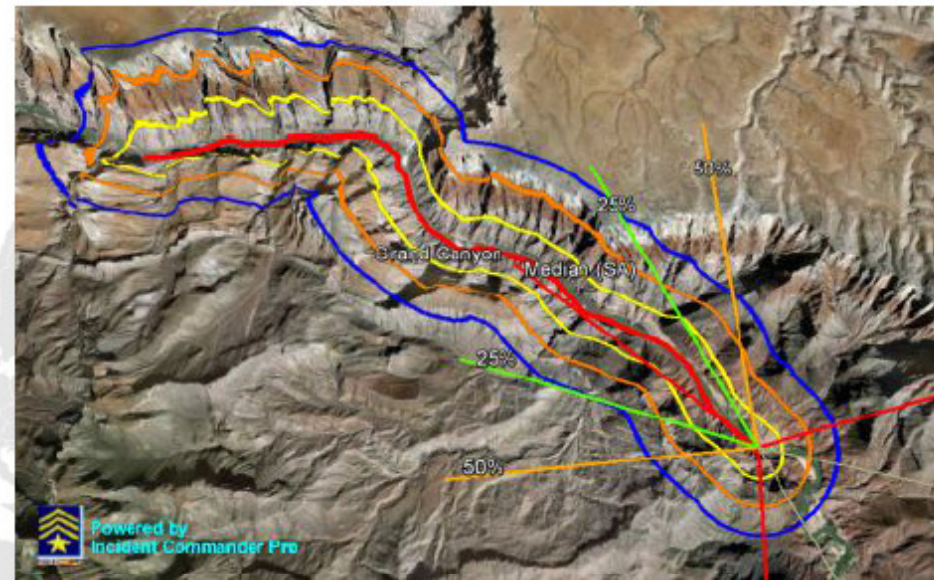


- Manage Search, Rescue & Emergency missions!
- Plan and Protect People and Infrastructure.
- Real-time Satellite Tracking of People & Equipment.
- Local and Remote Messaging, including SOS/Help.
- Monitor Responder Safety: Tracking & Messages.
- Real-Time 'Live' Mission Maps & Status Displays.
- Seamlessly Manage People, Information & Resources.
- Create Response Plans for Immediate Activation.
- Integrated Planning Information, Data & Images.
- Enhanced Network-Capability for Multi-Users.
- Extensive Reporting, Importing and Exporting.
- Familiar NIMS / Incident Command structure.



GLOBAL EARTH TOOLS

- Delivers planning, tracking, messaging and tactical displays to Google Earth.
- Combines the powerful capabilities of 'Incident Commander Pro' with the enhanced visualization of Google Earth.
- Advanced features rapidly generate real-time tactical displays in Google Earth.
- Powerful and easy to use - SAR technology's Global Earth Tools for Google Earth.





MANAGING THE AIR-SEARCH MISSION

INCIDENT COMMANDER PRO' PROVIDES PROFESSIONAL TOOLS TO PLAN, DEPLOY AND MANAGE THE AIR-SEARCH MISSION AND POWERFUL REAL-TIME TRACKING INCLUDES THE ABILITY TRACK BOTH AIRCRAFT AND GROUND UNITS ON THE GIS MAP AND GOOGLE EARTH.

Mission Briefings

A powerful set of integrated Data, Assignments, Communications and GIS-based Mapping tools provide a comprehensive management system to assist with planning and conducting the air-search mission. An integrated Mission Status Display, Flight Assignments, Mission Briefings, Resource Status, Communications Log and Personnel Check-In forms provide full operational briefings on the status of the active mission.

The GIS Live Update feature automatically refreshes and re-plots the aircrafts' latest recorded positions on the status map as this information is reported. The Communication Log and Mission Status Display provide real-time updates of the current communication and operational status of the mission.

Mission Planning

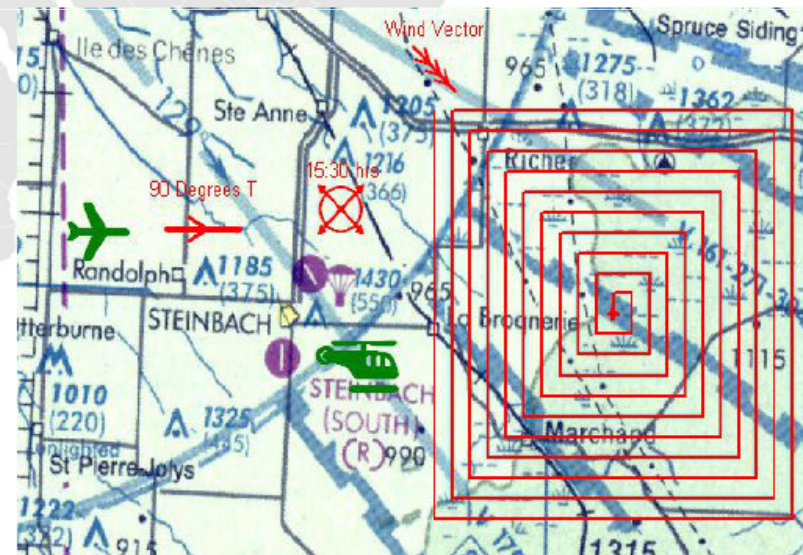
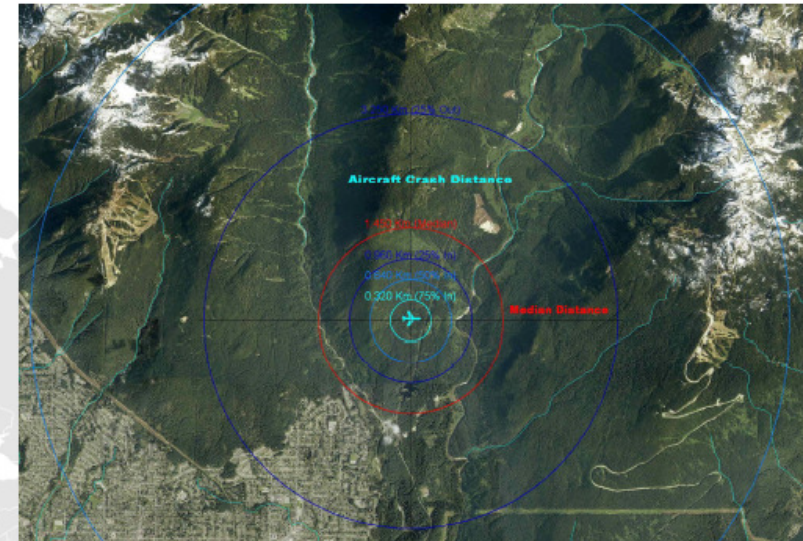
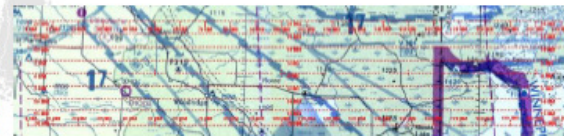
Air-Search Patterns, Air-Search Mission Type, Flight Search Speed/Altitude tables and Aeronautical Mapping Symbols all provide the ability to customize the pre-plan and mission response in both training and operational missions.



Flight Routes drawn on the GIS map can be exported for loading into GPS units.



GPS flight tracks can be downloaded and plotted on the GIS map display.



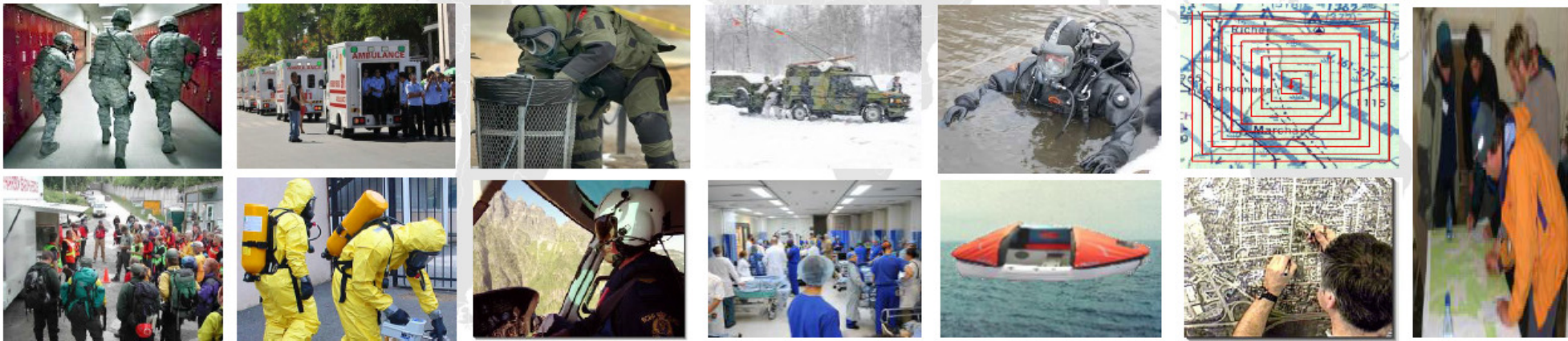
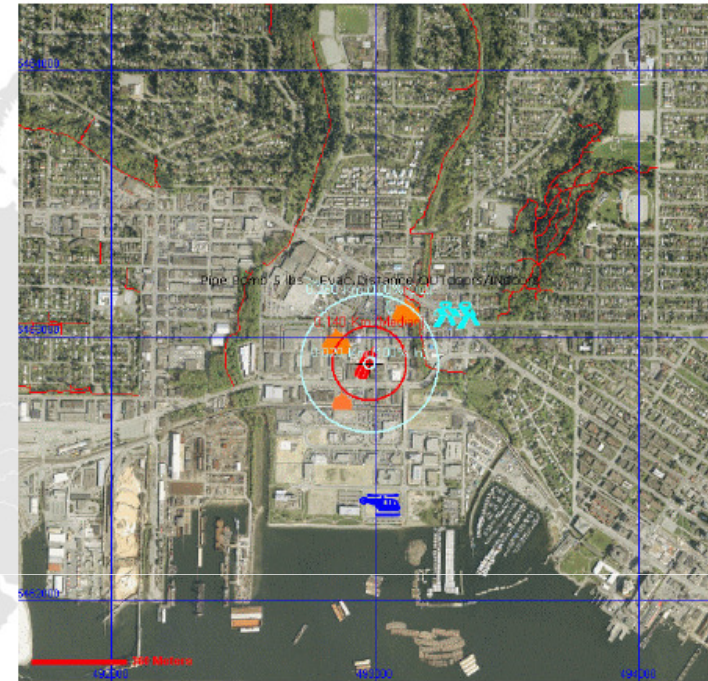


MISSION PRE-PLANS

Ready for Immediate Deployment



- Incident Commander Pro' Pre-Plans provide immediate response for many types of missions.
- Customize these plans or create you own - to meet your specific needs.
- Instantly activate 'Incident Commander Pro' Pre-Plans - for immediate mission response!

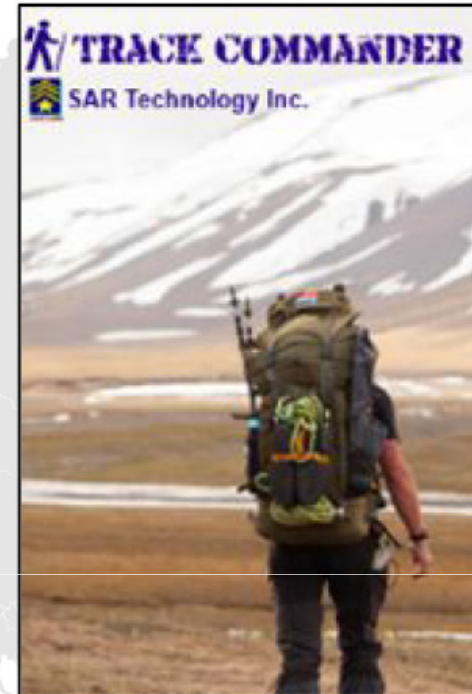
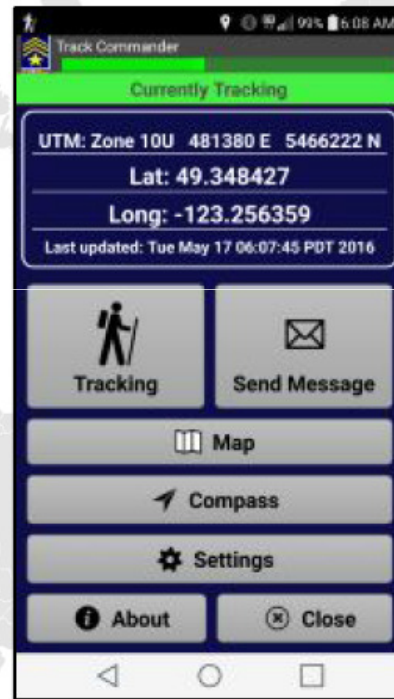




TRACK COMMANDER

SMART-PHONE TRACKING - MESSAGING - NAVIGATION
FOR RESPONDERS

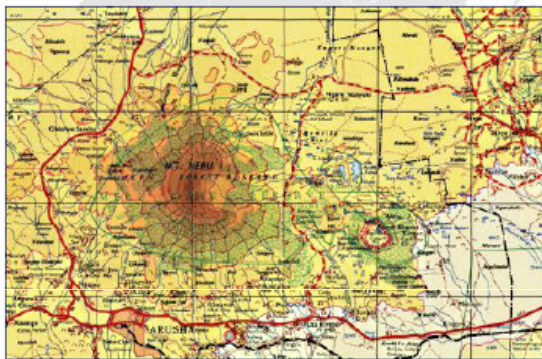
- Automated Tracking at User-Defined Intervals
- Sends Tracking Messages to 'Incident Commander Pro'
- Sends Tracking/Alert Messages to Team or Friends
- One-Touch' Speed Messaging System
- World-Wide Terrain Map Location Display
- Advanced GPS / Compass Navigation Display
- Designed for Remote and Extended Missions
- Editable Pre-Defined and Custom Messages
- Sends SOS & Help Messages to your Response Team
- Audible and Visual Message-Sent Indicators
- Plots Tracks & Messages on 'Incident Commander Pro'
- Plots Tracks & Messages on Google Earth
- Detailed Status Reports in Tracking/Alert Messages
- Multi-Mode' GPS Tracking - for Speed and Accuracy
- No Expensive Hardware or Tracking Costs





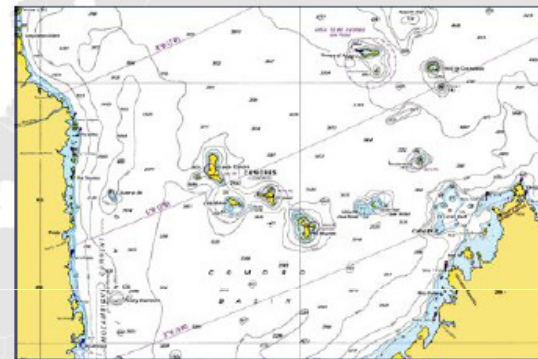
DIGITAL MAPS FOR LAND, SEA & AIR MISSIONS

SAR technology offers a unique world-wide collection of high quality digital maps for a broad range of mission types.



Topographical Maps

Detailed topographical maps in a range of scales such as 1:250,000 and 1:50,000. Ideal for land-based missions.



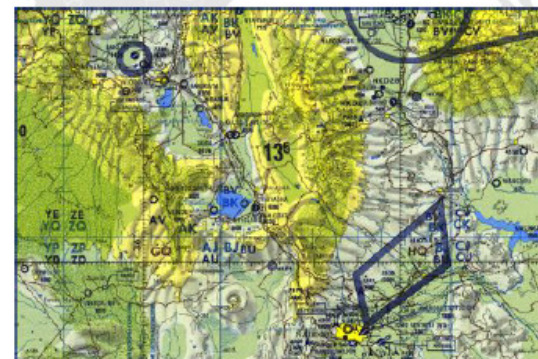
Nautical Charts

High quality nautical charts in a range of map scales. Ideal for air-based and marine-based missions in maritime and coastal regions.



Terrain Imagery

High resolution, enhanced, terrain imagery. Ideal for missions requiring detailed knowledge of the terrain in which the mission is being conducted.



Aeronautical Charts

High quality aeronautical charts in a range of scales, such as 1:500,000 and 1:1,100,000. Ideal for air-based missions over land and sea.



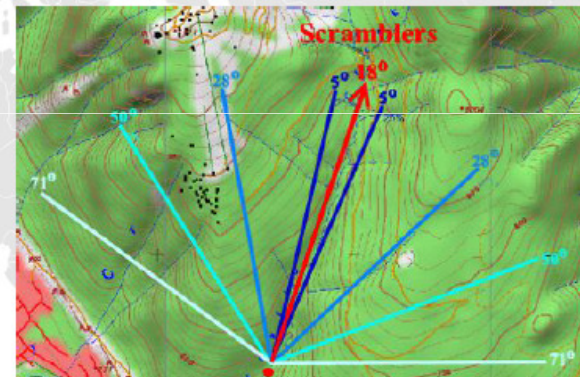
TRAVEL/DRIFT & DEFLECTION PLOTTERS FOR INCIDENT COMMANDER PRO



The advanced Travel/Drift & Deflection Plotters predict the future locations of people, ships or aircraft, as they travel, drift and deflect over time from a starting location on land, sea or air. The plotters use Original Location, Elapsed Time, Time Interval, Speed, Direction and built-in Deflection Data (dispersion) to create Travel/Drift and Deflection plots, for land, sea or air, in any selected direction.



The map display rapidly plots all the predicted future travel or drift locations as they expand with time - clearly visualizing potential search areas.



The map display plots the predicted deflection of a person on land, watercraft, or aircraft as they deflect away from their general direction of travel - clearly visualizing potential search areas.



LAND



SEA



AIR



INCIDENT COMMANDER PRO' SOFTWARE TRAINING

Incident Commander Pro' Basic Training



- Learn the basic principles of the 'Incident Commander Pro'
- Build your own custom sets of Resource Data
- Create geographical planning data for your region
- Document Missing Person Information
- Prepare a Communications Plan
- Prepare a Medical Plan
- Create Mission Assignments
- Develop a mission Operations Plan
- Monitor mission Communications
- Manage a basic mission!



INCIDENT COMMANDER PRO' SOFTWARE TRAINING

Incident Commander Pro' Advanced Training



- Create Mission Briefings & Objectives
- Determine Resource Types
- Apply Subject Behavioural Profiles
- Monitor Mission Operations
- Segment Mission Areas
- Perform advanced Manpower Calculations
- Prioritize mission assignments
- Monitor Mission Status & Personnel Status
- Revise the Initial Mission Plan
- Perform Area calculations
- Set up a multi-computer 'Incident Commander' network
- Export Mission Data to other Applications



INCIDENT COMMANDER PRO' SOFTWARE TRAINING

The Major-Incident Training



- Create Organizational Charts
- Track Real-Time Mission Statistics
- Monitor Resource Status
- Register and deploy hundreds of responders
- Coordinate large numbers of organizations
- Manage major-response urban missions
- Define regional response protocols
- Execute large-area or remote-region responses
- Plan and coordinate hundreds of assignments
- Create custom Mission Types
- Provide multi-day incident management and control
- Prepare Summary and Mission Reports.



EVACUATION RESPONSE

Evacuation response plans generally have one primary goal in mind - move as many people as fast as possible way from the hazardous area

Faced with critical decisions as to which transportation resources to deploy, in what order and to which response regions, can be a very difficult decision. As floodwaters rise, forest fires approach or blizzards trap isolated communities, the selection of transportation types and their sequence of deployment, can have a crucial effect on the life and safety of the citizens. If there are insufficient resources to evacuate all of the threatened citizens, then the decision as to which persons to evacuate, by which transportation resources, in which region and in which order, can become a major, life-threatening decision



Mission Areas

Each evacuation region is entered into the Mission Areas list of the 'Incident Commander' software and the relative threat level (eg 0.9, 0.05) entered into the POA field for each of these areas.

Once entered the software will automatically normalize (ie spread across 100%) the relative urgency (POA) for each of the listed evacuation areas

Assignment Form

Evacuation assignments are created for each transportation type using the ICS 204 Assignment Form. Enter their Access Hours and Exit Hours, ie time required to first reach, and then exit from, their designated evacuation area, based on their expected travel speed.

The Task Hours are also entered into the Assignment Form, this is the time required to collect and load a full set of passengers on board.

The number of Passengers on Board is entered in to the Assignment Form's POD field, (for example enter a value of 6 for six passengers).

With this planning data entered each evacuation assignment is automatically saved, and becomes part of the Operations Plan list of assignments.

View the Operations Plan list of assignments and click the 'Priority' button. 'Incident Commander' will then automatically prioritize all of the area evacuation assignments, based on evacuating the largest number of people, at the highest risk, for the time and effort required to conduct each evacuation.

As the incident evolves, for example as flooding increases or decreases in area, new assignments can be added to respond to these changed conditions. 'Incident Commander' will list and re-prioritize of all of the evacuation assignments, for the different extents of flooding - permitting a number of flood scenarios to be incorporated into the same Operations Plan.



EVACUATION RESPONSE

Evacuation response plans generally have one primary goal in mind - move as many people as fast as possible way from the hazardous area

Incident Commander Pro' Prioritized Evacuation Plan

ICS 215, 204, 204a Operations Plan & Assignments - OP# 1

Ref. file# RF 68878
Cross ref.# XR 10-4323

ICS 215 Operations Plan - OP# 1: Active Assg: 12/12 | ICS 204, 204a Assignment Form & Debrief - OP# 1

Sort By: **Priority** Assignment# Show Assignments: All Visible

Urgency Op. Pd. #

Vis	Pr.	Score	#	Assg. Type	Assignment Name	#Pers	%POA	%POD	TotHrs
✓	1	9999	6	Area Response	Harbour Basin Evacuation - 14 Passenger Helicopter	1	32.1	14.0	1.22
✓	2	6224	25	Area Response	Western Pier Evacuation - 6 Passenger Hovercraft	1	32.1	6.0	0.84
✓	3	3961	5	Area Response	Bayside Flats Evacuation - 5 Passenger Zodiac Boat	1	32.1	5.0	1.10
✓	4	1629	8	Area Response	Fairview Ridge Evacuation - 66 Passenger Bus	1	1.8	66.0	1.98
✓	5	264	7	Area Response	City Heights Evacuation - 4 Passenger SUV	1	1.8	4.0	0.74
✓	6	0	19	Route Response	Western Causeway - State Troopers	2	0.0	100.0	3.80
✓	7	0	18	Route Response	Central Boulevard - State Police Patrol	2	0.0	100.0	1.90
✓	8	0	17	Route Response	Coastal Freeway - National Guard Patrol	2	0.0	100.0	3.00
✓	9	0	20	Civil Response	Emergency Shelter at the All-Stars Stadium	20	0.0	0.0	16.7
✓	10	0	21	Rescue Operation	Check flooded buildings in Bayside Flats	12	0.0	0.0	8.70
✓	11	0	22	Civil Response	Setup Food Kitchen at Civic Centre	15	0.0	0.0	16.7
✓	12	0	23	Disaster-Response	Mobile Communication Trailer at City Heights	6	0.0	0.0	16.9

A Worked Example - 'Hurricane Candice'
'Hurricane Candice' has brought destruction to a 6 mile-wide area of a coastal city, with downed power-lines, flooded lowlands and the highways littered with wind-blown debris. Five types of transportation are available to respond to different regions each requiring evacuation. The low-lying regions have serious life-threatening flooding, up to the second story level of people's homes, while the slightly higher regions have a lower threat level, with only ground floor flooding, which can still be accessed, albeit slowly, by ground transportation.

By utilizing the available transportation resources and designating the threat level of each evacuation region we have all the information we need to develop the optimized evacuation plan.



PLANNING THE RESPONSE TO A TERRORIST ATTACK



The dramatic increase in terrorist attacks over the last few years have left many organizations unsure how to respond. Incident Commander Pro', with its unique collection of mission plans and rapid-response tools, is designed for a fast response to a terrorist attack.



From Bomb Threats to Active Shooters, from Mass Casualties to Aircraft Explosions, for Fires, Floods and City-Wide Evacuations, 'Incident Commander Pro' is ready to respond to any threat.

Incident Commander Pro' combines mission response plans with personnel, resources, communications and Real-Time Tracking, to deliver a fast and highly effective mission response. From an isolated small-scale attack to a city-wide disaster, 'Incident Commander Pro' manages all types of incidents, with its fast response and instant scalability. Ideal for both the fixed Command Centre and the Mobile Command Post 'Incident Commander Pro' lets your management team manage and track its responders - creating mission tasks, logging communications and tracking resources in the field - enabling your first responders to move faster and smarter.



'Incident Commander Pro'- field tested and battle-hardened through hundreds of missions - provides the tools you need to plan, manage and rapidly respond to the terrorist attack.



COLD CASE RESPONSE

Twice in the last few months police SAR teams have helped resolve old missing-person cases using 'Incident Commander Pro'.



The first case involved the disappearance of a despondent individual who had been missing for almost 8 months. The local SAR teams held a joint exercise in the area using 'Incident Commander Pro' to plan the search. The software's Grid Search Calculator was used to determine the optimum manpower, searcher-spacing and time required to grid search a dense forest close to an urban development, not far from the subject's Point Last Seen.

A number of grid-search teams were deployed to the forest and shortly afterwards discovered the individual's remains. While this was, of course, a tragic incident, it did resolve the subject's disappearance, and, after many months of uncertainty, permitted the family to grieve and bring some closure to the incident.



The second case, just four months later, involved a search in a rural area for a person who had been missing for approximately twenty years. Local SAR teams equipped two command vehicles with a combined wired/wireless network and planned the search using the 'Incident Commander Pro' software. The Grid Search Calculator was again used to determine the optimum manpower requirements for a series of search areas along a densely wooded hillside.

Despite gusting winds and heavy rain the grid-search teams were all quickly deployed to the hillside. 'Incident Commander Pro's Communications Log was used to record all radio messages and within a few hours one team called in that they had found human remains. At this stage the local police, who were at the command vehicles monitoring the search, went to the site and sealed off the area.



SUBJECT SURVIVABILITY

Land Survival

Extensive subject survivability and detectability data for the land environment. Includes Multiple Subject Types and the effect of good and bad weather on the subject's survivability and detectability.

Sea Survival

Detailed survivability and detectability data for the maritime and inland-water environment. Advanced information on Immersion Survival Times, Cold Water Immersion and Drowning. Provides detailed information on the survivor response to cold water shock. Recommended search duration for subject's immersed in water over a range of temperatures.

Air Survival

Aircraft crash survivability data for a wide range of aviation scenarios. Includes survival data for Commercial and General Aviation, Aircraft Type and Phase of Flight. Survival and Detection information for different types of aircraft, distance along the flight path and the phase of the flight.





WILDFIRE RESPONSE

Incident Commander Pro' used to Evacuate 30,000 People

In one of the longest and hottest summers in decades over 600 wild land fires forced approximately 30,000 residents from Kelowna and 8,000 residents from other towns in central British Columbia, to be evacuated from their homes. Lightning strikes on Okanagan Mountain Park, directly above the city of Kelowna, caused the tinder dry forest to burst into flames. As these flames approached the city emergency personnel initially put the public on one-hour evacuation notice. However during the night of August 22nd the winds picked up speed and quickly fanned the fire towards the southern outskirts of the city.

As the blaze swept from treetop to treetop, exploding houses in it's path, emergency personnel ordered the immediate evacuation of over 16,000 residents, joining another 10,000 people that had been evacuated the previous day. Police and search and rescue personnel immediately began the massive evacuation of all the public from within the threatened areas. As the incident developed a four-computer network of the 'Incident Commander Pro' software was installed and used to check-in all SAR personnel, and to manage the creation and deployment of all their field assignments.

Despite the heat, smoke and traffic jams police and SAR personnel performed one of the largest and fastest evacuations undertaken in Canadian history, with over 16,000 people being safely evacuated from their homes over a 16 hour period.

The fire rapidly swept through southern Kelowna, jumping from treetop to treetop, traveling at a speed of 300ft per minute, destroying over 200 homes in upscale neighborhoods and lighting the night sky with a 300ft high wall of flame.

As the fire abated hundreds of volunteers, including emergency social services and search and rescue teams, worked around the clock for almost a week, caring for the evacuated and helping to secure the fire-torn and fire-threatened areas.

For up to two weeks many residents were forced to remain away from their homes while over 600 firefighters battled the blaze. Firefighters and military personnel from across Canada joined local firefighters, forming the largest peacetime operation of military personnel in Canadian history. Nearly 300 pieces of heavy equipment, 20 helicopters and 5 air-tankers were used to fight the blaze. The cost of fighting the fires has skyrocketed to a record-breaking \$300 to 400 million CDN, with the British Columbia government seeking disaster relief funding from the Canadian federal government.





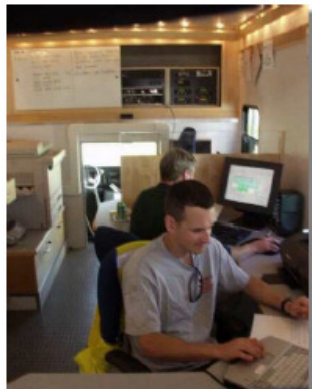
MOBILE COMMAND POST

Mobile Command Posts equipped with 'Incident Commander Pro' provide a powerful and effective response for all types of missions. Command vehicles can be easily fitted to make full use of the unique capabilities of the 'Incident Commander Pro'.

Incident Commander Pro's versatile networking capability can be used to simultaneously perform all important mission management functions - both inside and outside the command post.

Outside the Mobile Command Post

Responding personnel can be Checked-In to the 'Incident Commander Pro' software using networked computers placed outside the command vehicle. This reduces crowding and distractions for the planning and communications staff working inside the command vehicle. As the incident expands more computers can be added to the outside Check-In booth to register tens, hundreds - even thousands of personnel - including SAR, Response-Agency and convergent public - as they all respond to the mission.



Planning

Inside the command vehicle the Planning staff manage all planning aspects of the mission - creating Mission Briefings, Area Planning, Assignments and the Operations Plan. Operations staff then monitor the mission using the real-time Mission Status Display, Resource Status Display and Mission Statistics..

'Incident Commander Pro' permits all of the Checked-In personnel to be quickly allocated to field assignments. To speed up Check-In 'Incident Commander Pro's Personnel and Organizations tables provide quickly-selectable records of responding Personnel and Organizations, for very rapid Check-In.

Logistics

Logistics staff track the current manpower status as responders are deployed and return from their assignments, using 'Incident Commander Pro's Personnel Status Display. This displays continuous information on manpower status throughout the mission - who has been allocated to assignments, team call-signs, assignment status and how many personnel are allocated or available for assignments.



ASH CLOUD RESPONSE

Iceland's Eyjafjallajökull volcano wreaked havoc on Europe's airlines as its ash cloud drifted over Northern Europe

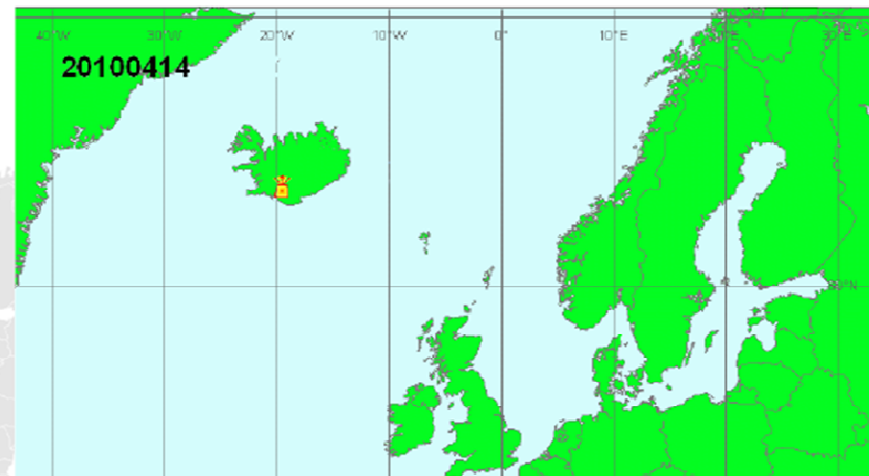
The eruption of a dormant volcano, with the generation of a major volcanic ash cloud, can play havoc with regional aircraft flights, air quality and have a major impact on the local transportation and accommodation facilities.

As the ash cloud drifted across cities, countryside, water bodies and highways additional health and safety concerns were raised, with the potential of highway closures, water quality impairment and an increased demand for hospital services, to treat respiratory problems.

To respond quickly to the drifting ash cloud 'Incident Commander Pro' can rapidly generate status maps of the ash cloud's progression and prepare emergency Aviation Alerts, Public Health Bulletins and Evacuation Plans

As thousands of flights were cancelled 'Incident Commander Pro' can be used to develop maps of threatened regions, activate public shelter plans, identify critical infrastructure, such as water reservoirs, and recommend alternate transportation routes for stranded travelers. In the event of major dust clouds falling over populated areas 'Incident Commander Pro' can also be used to prepare a Mass Casualty Incident Plan and an Evacuation Plan for the affected regions.

Incident Commander Pro' has all the tools to plan, brief, monitor and respond to a major ash-cloud incident





SAR Technology – Introduction Summary

Incident Commander Pro' program is designed as a tool to help the Incident Commander improve the organization and effectiveness of their search, rescue and emergency-response missions. The program is designed to blend the organizational structure of the Incident Command System (ICS) with the latest developments in the science of search and emergency-response theory. Extensive databases of missing person behavior and probability of detection (POD) tables provide a field-based foundation for planning scenarios, while a set of logistic calculators input probability of area, probability of detection, time, area and manpower data directly into the ICS planning forms.

Mission Initiation

To permit a mission to be rapidly initiated the program has been designed to function initially with a minimum set of essential information, entered into a small number of ICS forms (see the Quick start Wizard). The ICS forms are mission-specific and cannot be opened until a new mission is created or an existing mission opened. This mission-specific information includes the completion, where appropriate, of a Missing Person Questionnaire, the Check-In of personnel, assignment of management roles in the Organizational Chart, preparation of an Incident Briefing form and the preparation of mission Assignment Forms, which become automatically listed in the Operations Plan. This essential information permits checked-in personnel to be allocated to the listed assignments, which then appear as active assignment Call-Signs listed on the Communications Log screen. The Communications Log can then be used to document communications received between these active Call Signs.

Operational Periods

Once the mission has been initiated the program records all aspects of the mission within time-stamped Operational Periods, which are defined as either Active or Closed. The information within any Operational Period can be easily browsed at any time, however only the 'Active' Operational Period will allow new assignments to be created or new Communications Log entries to be recorded.

Pre-Plan User Data

The User Data is typically not mission-specific. The Personnel Table, Organizations Table, Default Communications Plan, commonly examined Default Routes and the Default Areas information can all be entered at any time, without opening a mission. Entering this User Data before a mission occurs is strongly recommended, as it will significantly reduce the start-up time required to initiate the mission. Once a mission is opened Mission Routes and Mission Areas lists have to be prepared before they can be selected within the Assignment Forms. However previously-stored Default Routes and Default Areas can be automatically allocated to the Mission Areas and Mission Routes lists.

Check-In Personnel

As responders and support staff arrive on-site they are Checked-In and become part of the active pool of on-site personnel. These personnel are registered on-site in the Check-In form and can then be assigned to various operations or support duties directly from the Assignment Form.

Assignment Forms

All the mission's assignments are prepared by entering their details in the Assignment Forms. POA and POD values, mission areas, route length, time and manpower requirements, etc., may either be entered directly, or will be automatically copied into the appropriate fields, depending on the selected assignment type. As each assignment form is prepared the Operations Plan automatically lists and prioritizes these assignments.



SAR Technology

Communications Log

During each operational period the Communications Log is used to document all communications received from the active assignments, as well as from any direct-voice or document information received. Call Signs created in both the mission's Communications Plan and the Assignment Forms will be automatically displayed within the Communications Log.

The Communications Log is also used to log any Clues or Decision Points found by the personnel during their assignments. If a team reports Decision Points (DP's) along a route their team-estimated relative POA value for each Decision Point are entered into the Route Decision Points table, linked to the Communications Log. 'Incident Commander Pro' can then use the Route-based POA Calculator to assign these Decision Points to any of the pre-defined areas adjacent to the route. Once these Decision Points have been assigned to the defined mission areas Route-based Probability of Areas will be automatically calculated.

Operations Plan

The Operations Plan automatically displays all the assignments created within the current operational period. The Operations Plan automatically prioritizes all the listed Mission Route and Mission Area assignments. Through the linked Assignment Form page, a number of data tables and calculators are either automatically or manually invoked whenever logistic data, such as POA, POD, mission area, task-time and manpower requirements are needed to complete each assignment's planning details.



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SUBJECT 
SURVIVABILITY



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