

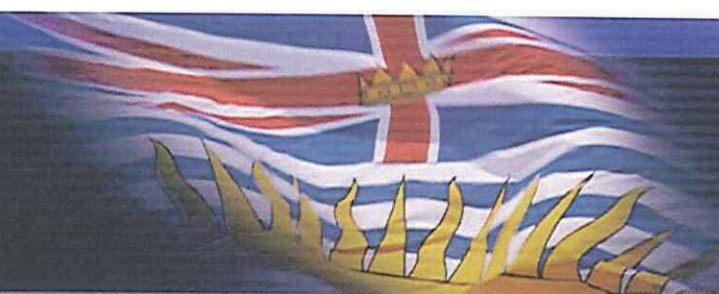
Unmanned Aerial Vehicle Systems (UAV) in British Columbia; the future use in Emergency Management?

John Oakley, Senior Regional Manager, Emergency Management BC

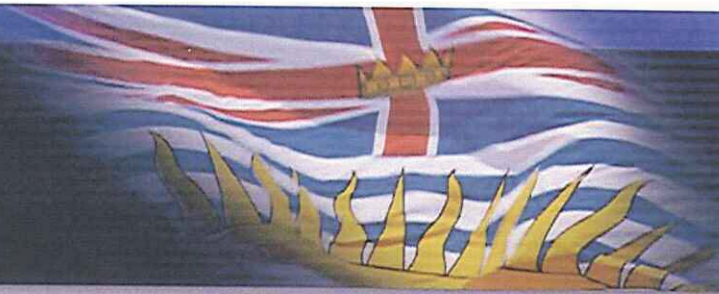
Unmanned Aerial Vehicle Systems (UAV) is still evolving in British Columbia and only used in a limited number of areas related to public safety. This session will focus on the potential areas of use within the area of Emergency Management that will include the following:

1. **HUSAR** (Heavy Urban Search and Rescue Team)
2. **GSAR** (Ground Search and Rescue)
3. **Damage Assessment** (earthquakes, floods, hazards)
4. **General Situational Awareness** (site support and emergency operational center)

There will also be a discussion on potential issues and barriers for the expansion of the use unmanned systems in the future.



Unmanned Aerial Vehicle Systems in British Columbia; the future use in Emergency Management?



MISSION

Enhance public safety and reduce property and economic loss from actual or imminent emergencies or disasters.



Principles

- Shared responsibility
- Local government has primary responsibility for response within own jurisdiction
- The province supports the local government response
- Maximum use of existing systems and procedures
- Individual emergency preparedness



Province of BC

Area

950,000 Sq. km.

Population

4.3 million

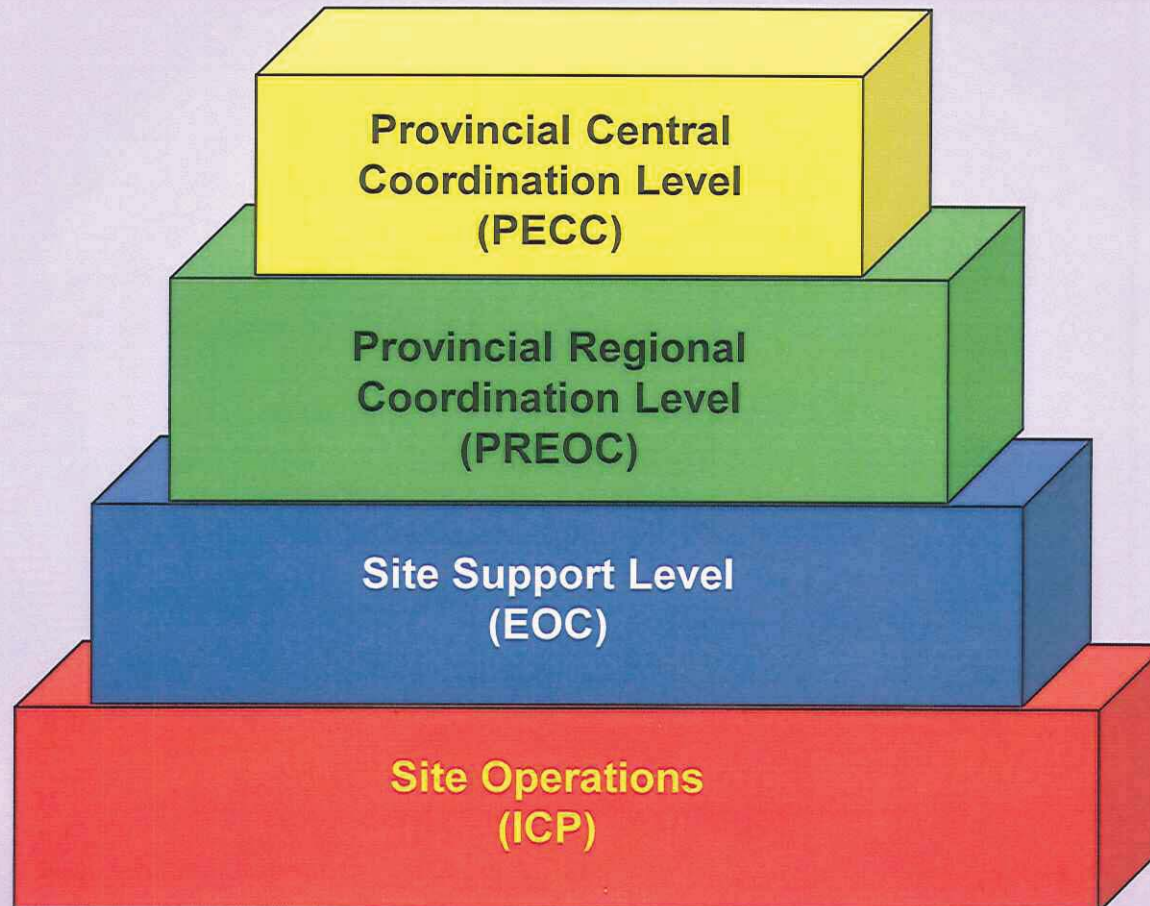


British Columbia Emergency Response Management System (BCERMS)

Incident Command System (ICS)

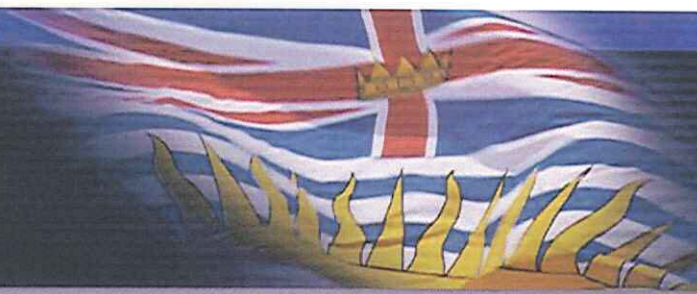


Emergency ManagementBC





Emergency
ManagementBC



Emergency Coordination Centre (ECC)

160,000 calls
24/7 operation 365 days/year
6800 emergency incidents
1700 road rescues
1300 search and rescues





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13,000 PSL Volunteers

- Search and Rescue
- Emergency Radio
- Emergency Social Services
- PEP Air
- Road Rescue

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GSAR Response

- 2500 + Registered Volunteers
- 80 Community Ground Search and Rescue Societies
- Canadian Avalanche Rescue Dog Association
- BC Cave Rescue
- Parks Canada
- BC Tracking Association
- BC Search Dog Association

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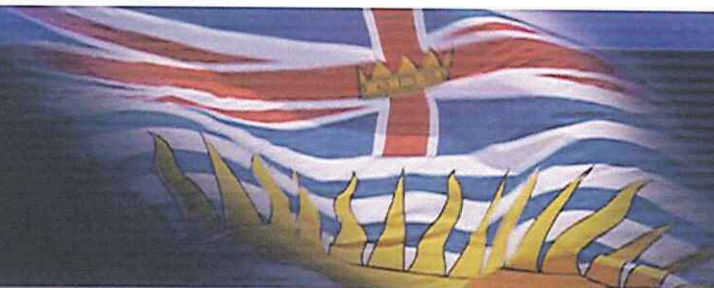


GSAR Response

2012/2013

- | | |
|----------------------------|-----|
| • Ground SAR | 999 |
| • Inland Water | 266 |
| • SAR Air | 33 |
| • SAR Ocean | 1 |
| • Body Recovery | 18 |
| • Evidence Search | 21 |
| • Total SAR Incidents 1338 | |

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- Urban Search and Rescue
- Ground Search and Rescue
- Damage Assessment
- General Situational Awareness



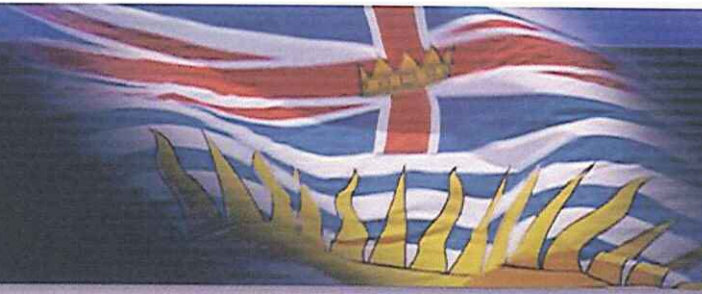
- Urban Search and Rescue

Heavy, Medium, Light

Past

Current

Future

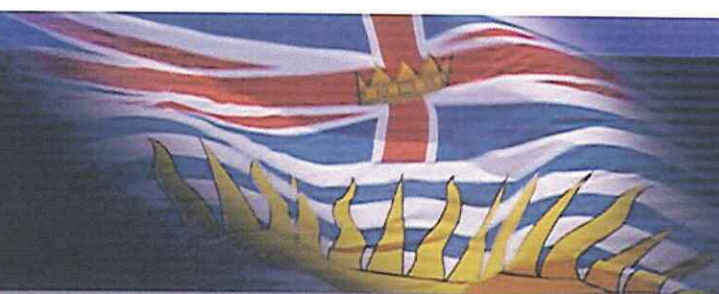


- Ground Search and Search

Past

Current

Future



- Damage Assessment

Past

Current

Future



- General Situational Awareness

Past

Current

Future



- Potential issues and Barriers
- Governance
- Liability
- Finance
- Privacy
- Legal



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Ministry of Justice

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www.embc.gov.bc.ca