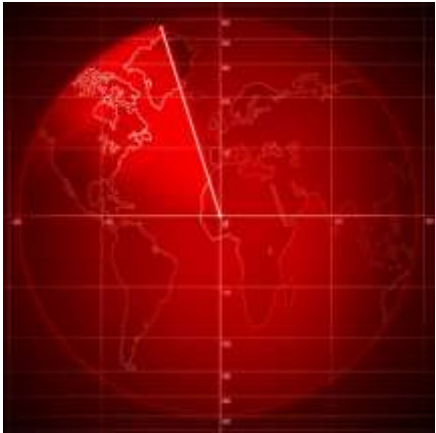




GOVERNMENT OPERATIONS CENTRE

CENTRE DES OPÉRATIONS DU GOUVERNEMENT



GOC Geomatics 101



Government
of Canada

Gouvernement
du Canada

Canada

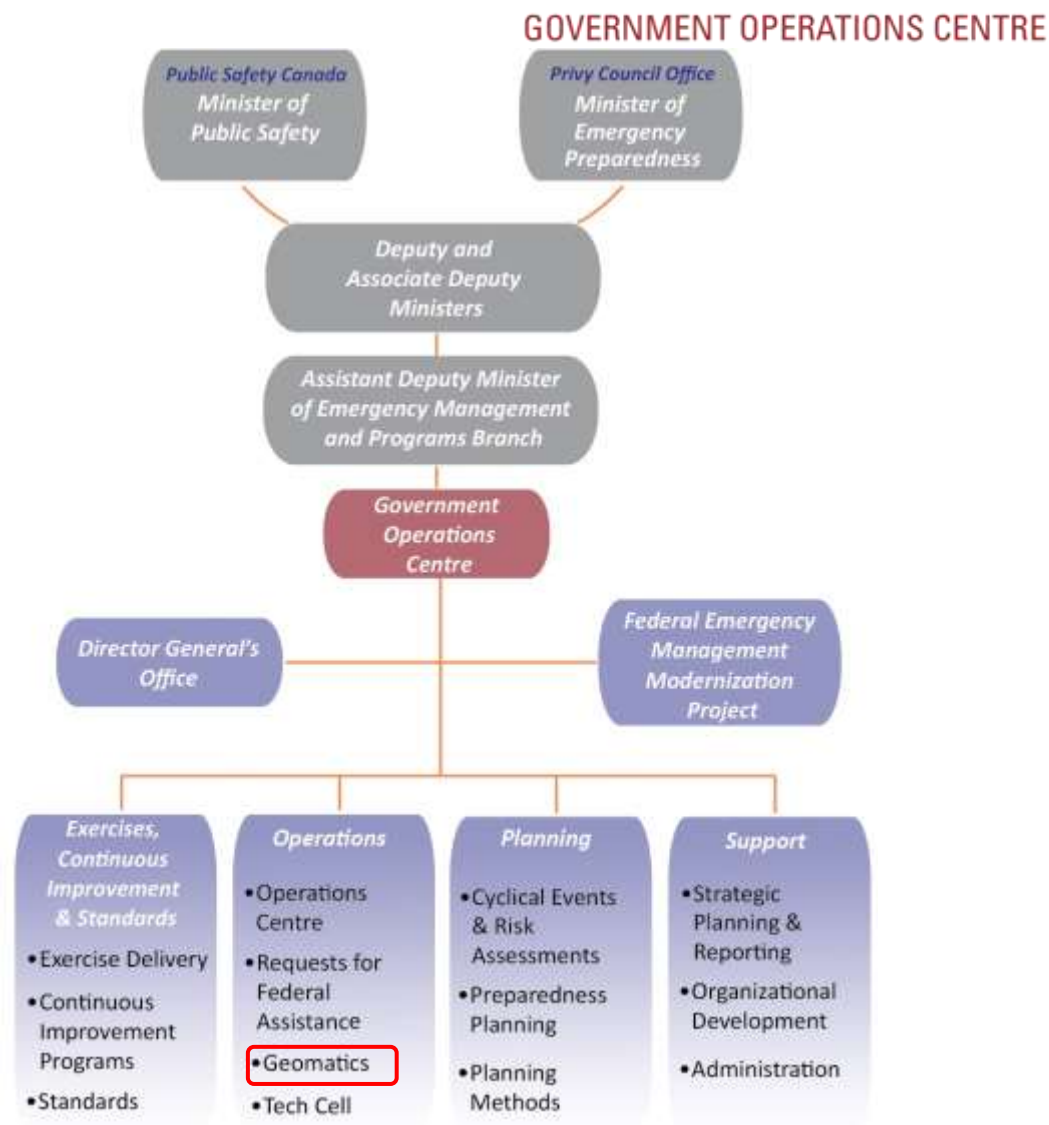
The Geomatics Section

What is Geomatics?

- The discipline of gathering, storing, processing, and delivering geographic information or data

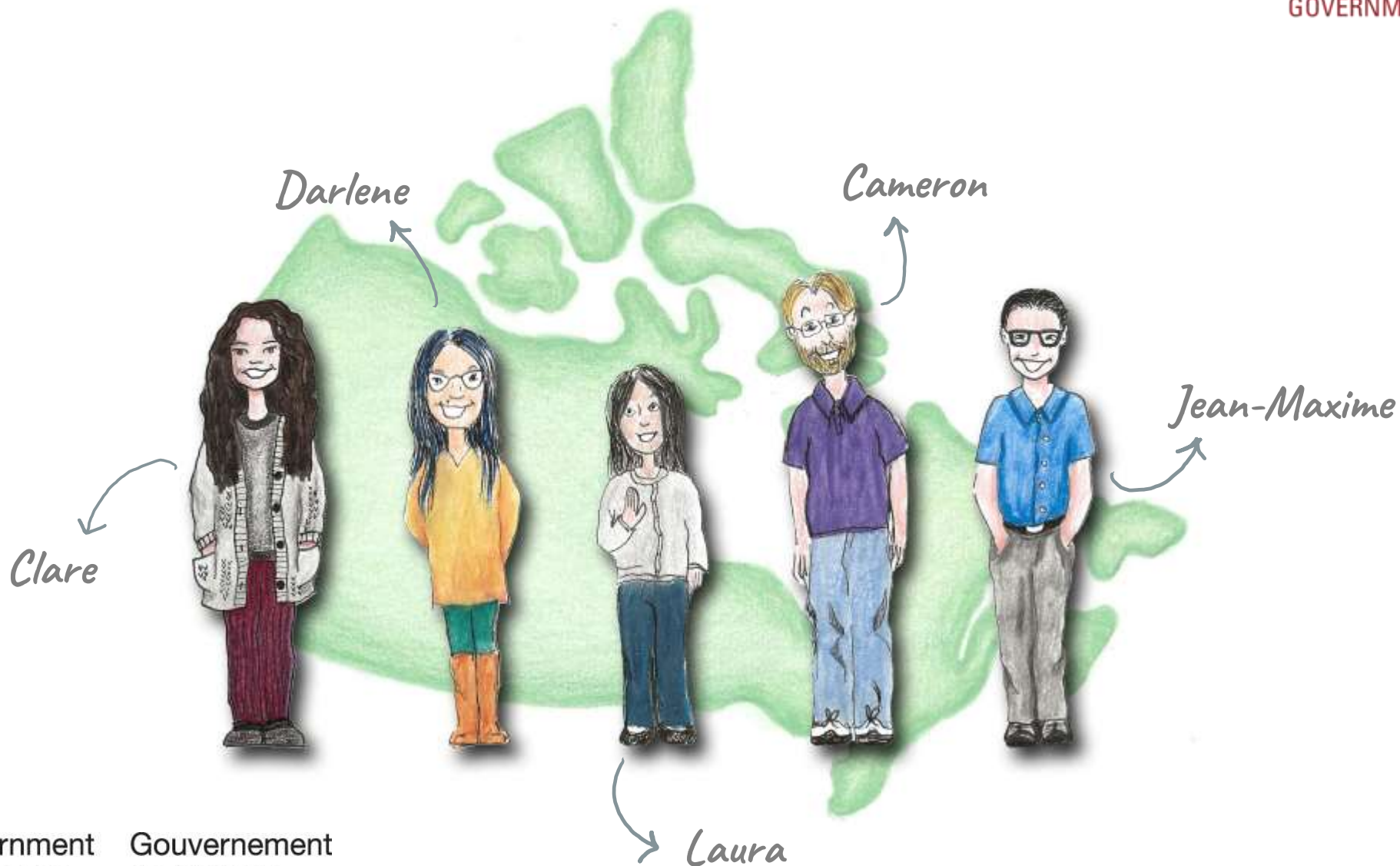
Our Mandate:

- Enhances the Government Operations Centre's (GOC) ability to provide strategic **coordination** and advice on current and upcoming **events** through **geomatics** products, information and services
- Contributes to the GOC's situational awareness capabilities by supplying geographic perspective of events
- Supports Public Safety Canada and other Government of Canada partners that have limited or no geomatics capabilities
- Engages Provinces / Territories by coordinating acquisitions of federal geomatics resources for Emergency Management (EM) related issues



Who are we?

GOVERNMENT OPERATIONS CENTRE



Government of Canada

Gouvernement du Canada

Who We Work With

GOVERNMENT OPERATIONS CENTRE

We directly support:

- Public Safety Canada (PS)
- Canada Border Services Agency (CBSA)
- Indigenous Services Canada (ISC)
- Public Health Agency of Canada (PHAC)
- Provinces and Territories



Who We Work With

GOVERNMENT OPERATIONS CENTRE

We collaborate with and receive support from:

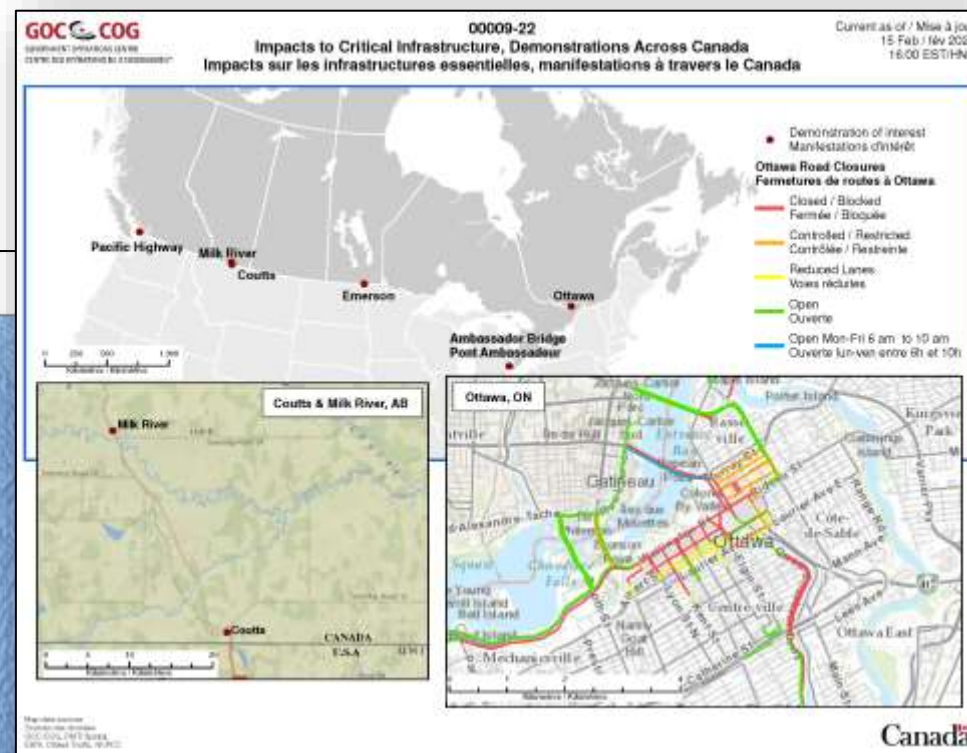
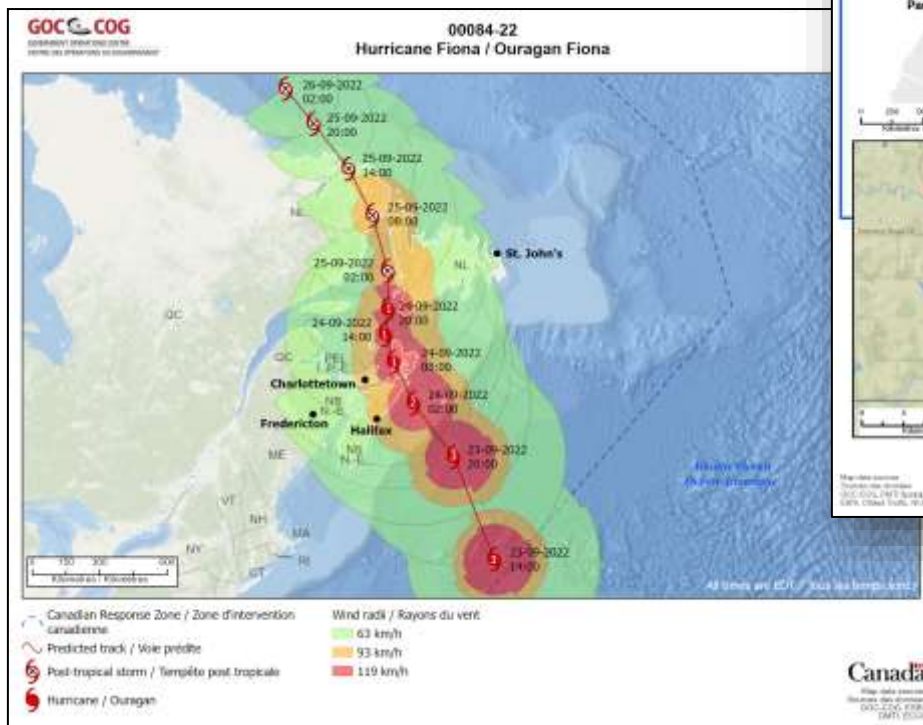
- Natural Resources Canada (NRCan EGS)
- Indigenous Services Canada (ISC)
- Canadian Space Agency (CSA)
- National Defence (DND MCE and CJOC)
- Environment and Climate Change Canada (ECCC CIS, MSC)
- Transport Canada (TC NASP)
- Provinces and Territories



Geomatics Products - Overview



- Data
- Imagery
- Static Maps & Products
- Webmaps



Data Holdings

GOVERNMENT OPERATIONS CENTRE

Categories

- Transportation
- Health and Safety
- Government
- Energy

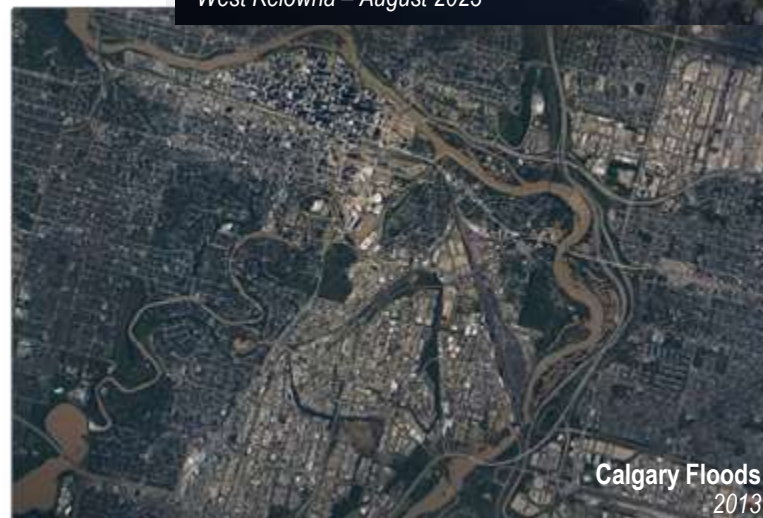
- Other data
 - Government boundaries
 - Population
 - Defense
 - Business / Industry
 - Hydrography
 - Topography
 - Satellite imagery

- Event-related data
 - Point / line / polygon (shapefile)
 - Satellite imagery

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Imagery

- Radar – Government access
- Optical – Int'l Charter
- NASP
- Analysis provided:
 - By affected provinces
 - NRCan Emergency Geomatics Service (through the GOC)
- Requests by the GOC to support the work of Provinces/Territories
- Analysis shared with partners



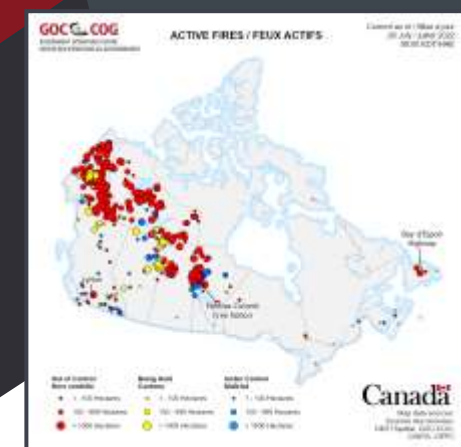
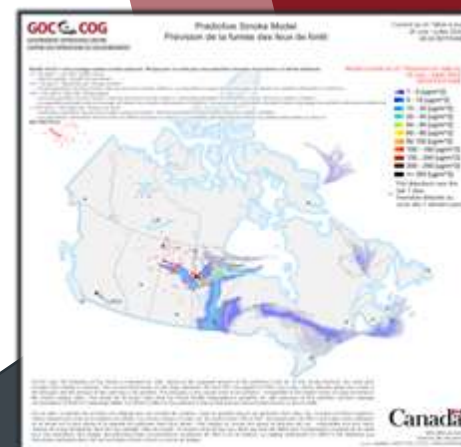
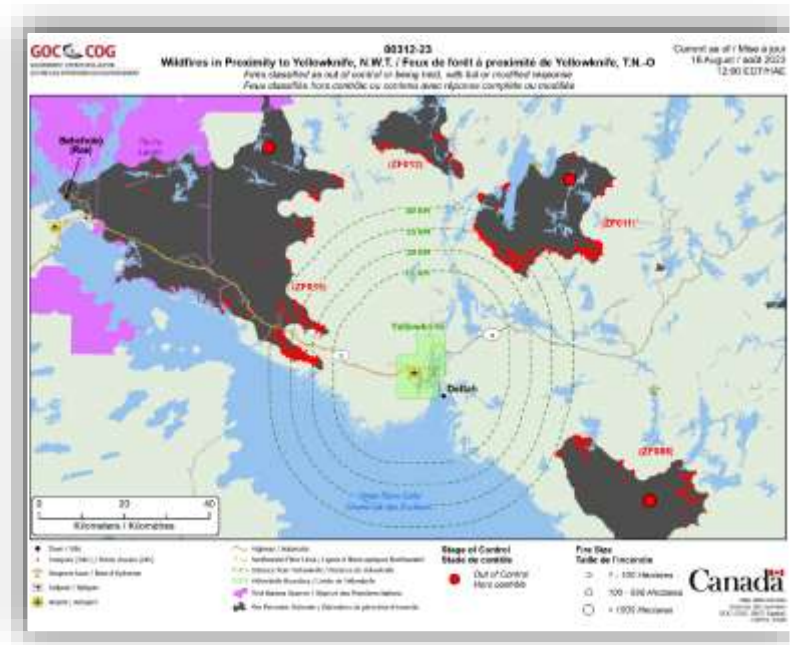
GOVERNMENT OPERATIONS CENTRE



Static Maps

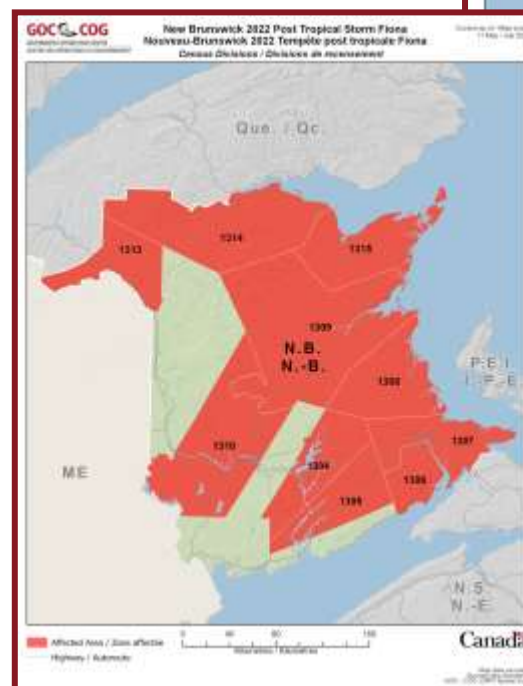
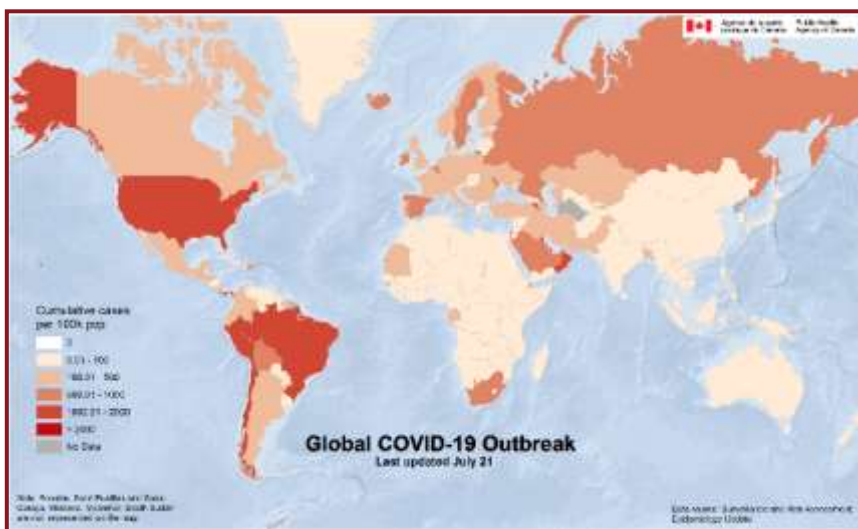
- Daily Brief national overview
- Seasonal event maps
 - Spring flooding
 - Wildfires
 - Hurricanes
- Other event maps

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Static Maps

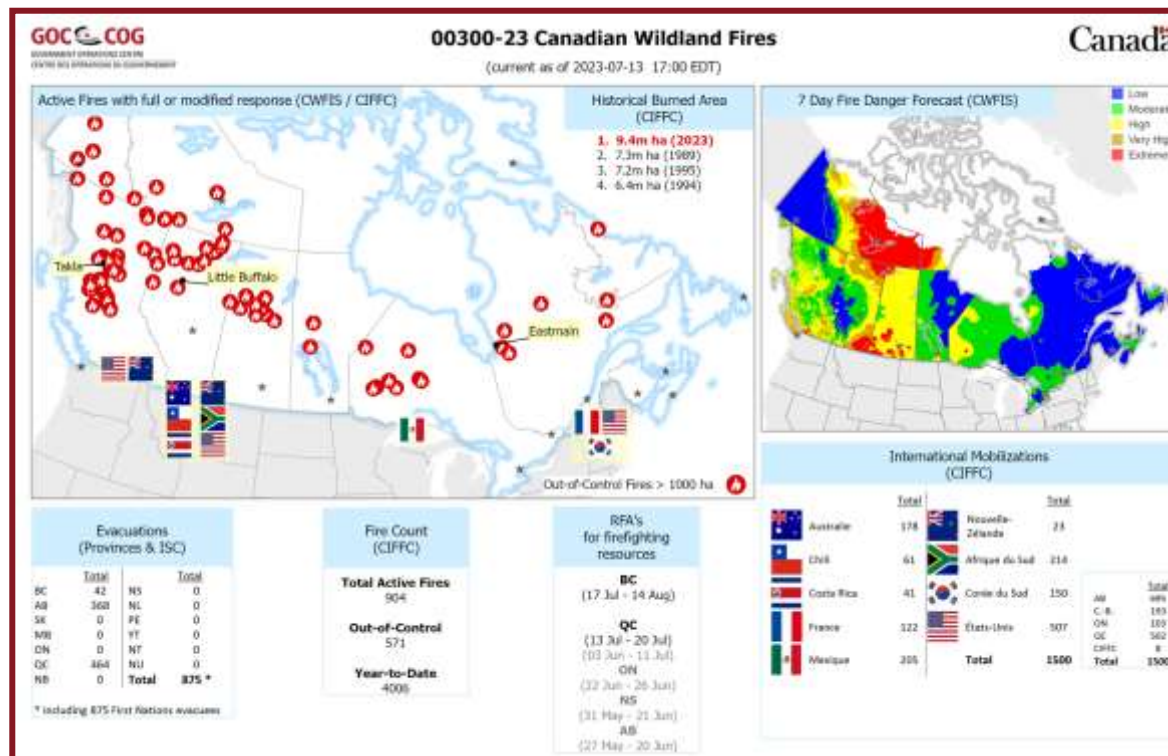
- PHAC COVID-19 maps
- Disaster Financial Assistance Arrangements (DFAA) – claims maps



- Tailored to the event
- Completely bilingual
- Key features identifiable with legible labels

Other Products

- CAHS – Canadian all-hazards symbology
 - Used on:
 - OCIP
 - Daily Brief
 - Event maps
- Rocket launches
- Space debris
- Common Operating Pictures
- Placemats and dashboards
- Posters



GOC Hub – Webmap Apps



GOC Emergency Management Webmaps / Cartes web pour la gestion des urgences du COG

Welcome / Bienvenue Canadian Index of Multiple Deprivation (CIMD) / Indice canadien de défavorisation multiple (ICDM)

The four dimensions of deprivation / Les quatre dimensions de la défavorisation (StatCan)

Residential Instability - Quinifiles / Instabilité résidentielle - Quinifiles

1 - Least Deprived / Les moins démunis

2

3

4

5 - Most Deprived / Les plus démunis

Layers: CIMD Legend Draw Info Print Share

Ottawa

GOC COG Canada

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Provincial and Territorial Emergency Management Webmaps
Cartes web pour la gestion des urgences provinciales et territoriales

Webmaps / Cartes web
by category / par catégorie

- Emergency Management / Gestion d'urgence
- Canadian Index of Multiple Deprivation / Indice canadien de défavorisation multiple
- Tropical Cyclones / Cyclones tropicaux
- Wildfires / Feux de forêt
- NASIP Imagery / Images PNSA
- Federal Properties / Biens immobiliers fédéraux

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Tools / Outils

Data Sources / Sources des données

Canadian All Hazards Symbology / Symboles canadiens tous risques

- Centralized - Publicly Accessible Hub
- Thematic Maps
- ESRI's Living Atlas under the Canada – Public Safety Category



<https://goc-cog-pscanada.hub.arcgis.com/>



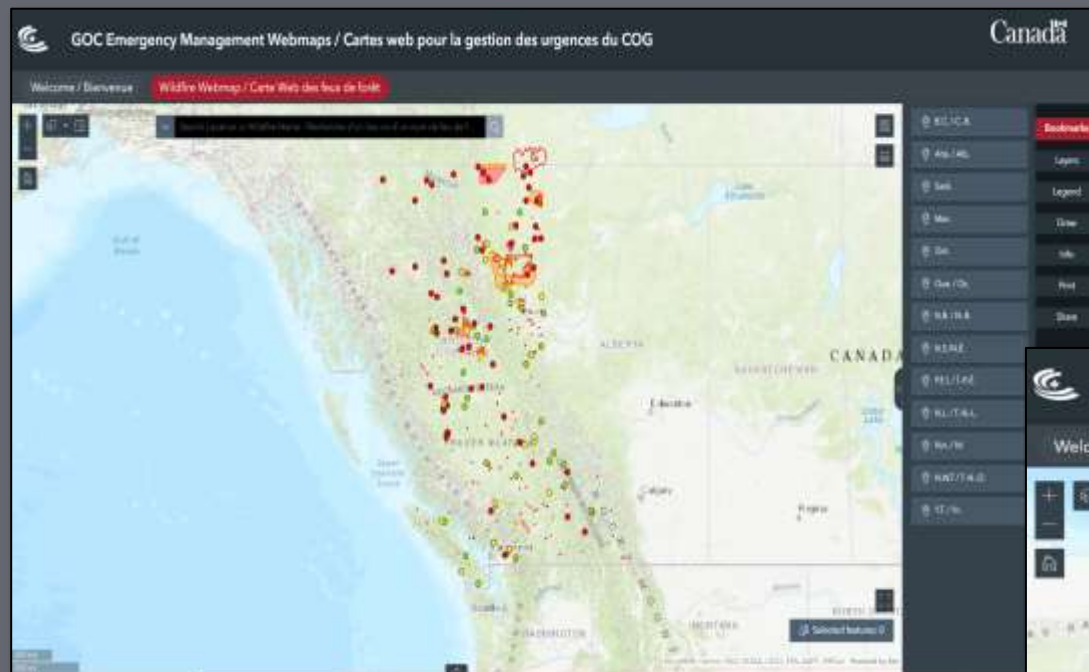
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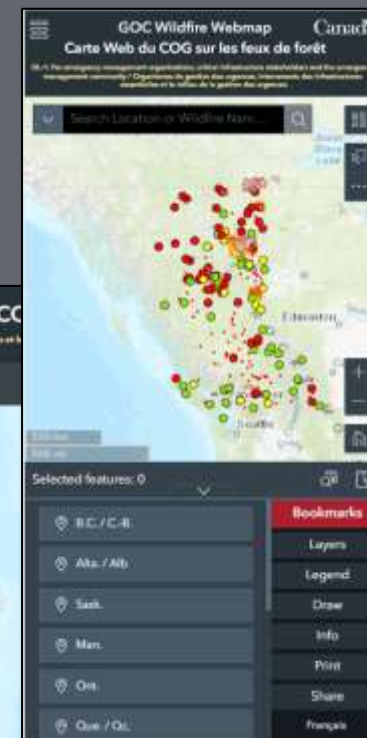
Webmap Apps



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Experience Builder



New Map Viewer



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<https://goc-cog-pscanada.hub.arcgis.com/>



Webmap Apps



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<p>Pinawa - Local Government District Hazard Type: Flood Date of SoLE Declaration: April 13, 2023 Date of SoLE Expiry: May 17, 2023 Currently Evacuated: 18 Total Evacuated: 52 Total Repatriated: 34</p> <p>Details: Spring Flooding 2023</p>
<p>Whitehead - Rural Municipality Hazard Type: Flood Date of SoLE Declaration: January 31, 2024 Date of SoLE Expiry: February 7, 2024 Currently Evacuated: 50 Total Evacuated: 140 Total Repatriated: 90</p> <p>Details: EX EX EX - 2024 Flooding</p>
<p>Brandon - City Hazard Type: Flood Date of SoLE Declaration: April 20, 2023 Date of SoLE Expiry: May 2, 2023 Currently Evacuated: 76 Total Evacuated: 103 Total Repatriated: 27</p> <p>Details: Spring Flooding 2023</p>
<p>Winnipeg - City Hazard Type: Flood Date of SoLE Declaration: May 2, 2023 Date of SoLE Expiry: May 9, 2023 Currently Evacuated: 40 Total Evacuated: 98 Total Repatriated: 58</p> <p>Details: 2023 Flooding</p>
<p>Dauphin - City Hazard Type: Fire Date of SoLE Declaration: July 3, 2023 Date of SoLE Expiry: July 14, 2023 Currently Evacuated: 0 Total Evacuated: 0 Total Repatriated: 0</p>

****DEMO** Manitoba SoLE Submission Form**

Step 1 - Select the desired community/area in the list below

Search: _____

- Brandon City
- Dauphin City
- Pinawa Local Government District**
- Whitehead Rural Municipality
- Winnipeg City
- A Kwis Ki Mahka First Nation Reserve
- Aghaming IRNR
- Alexander Rural Municipality
- Alonsa Rural Municipality
- Altona Town
- Amisk Park Reserve Provincial Park
- Arborg Town

Step 2 - After having made a selection in the list on the left, fill out the form below to update the SoLE data attached to that community/area

***DEMO* Manitoba SoLEs Layer Submission Form**

This form is used to create or edit an existing record in the Manitoba State of Local Emergency (SoLE) layer of the webmap. Please ensure that you have selected the correct element in the left-hand list prior to filling out the form. Note that once submitted, the survey will reload after 3 seconds, allowing you to submit another update.

Community/Area Name:

Community/Area Type:

State of Local Emergency Declared*:

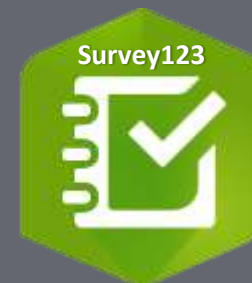
Buttons: List, Map, Details for Active SoLEs, SoLE Submission Form, Flooding Date Submission Form

SoLE Submission Form - Demo Version results - survey: Winnipeg

Canvas Subscription ID (CSUID)	4A11D4030
Community Escalator	Yes
Community/Area Name	Winnipeg
Community/Area Type	CV
Date of Declaration	May 2, 2023
Date of Expiry	May 9, 2023
Dissemination Geography Unique Identifier (DGLDI)	
Hazard Type	Flood
Number of people currently evacuated	40.00
Number of people	58.00



Dashboard



Survey123



Government of Canada

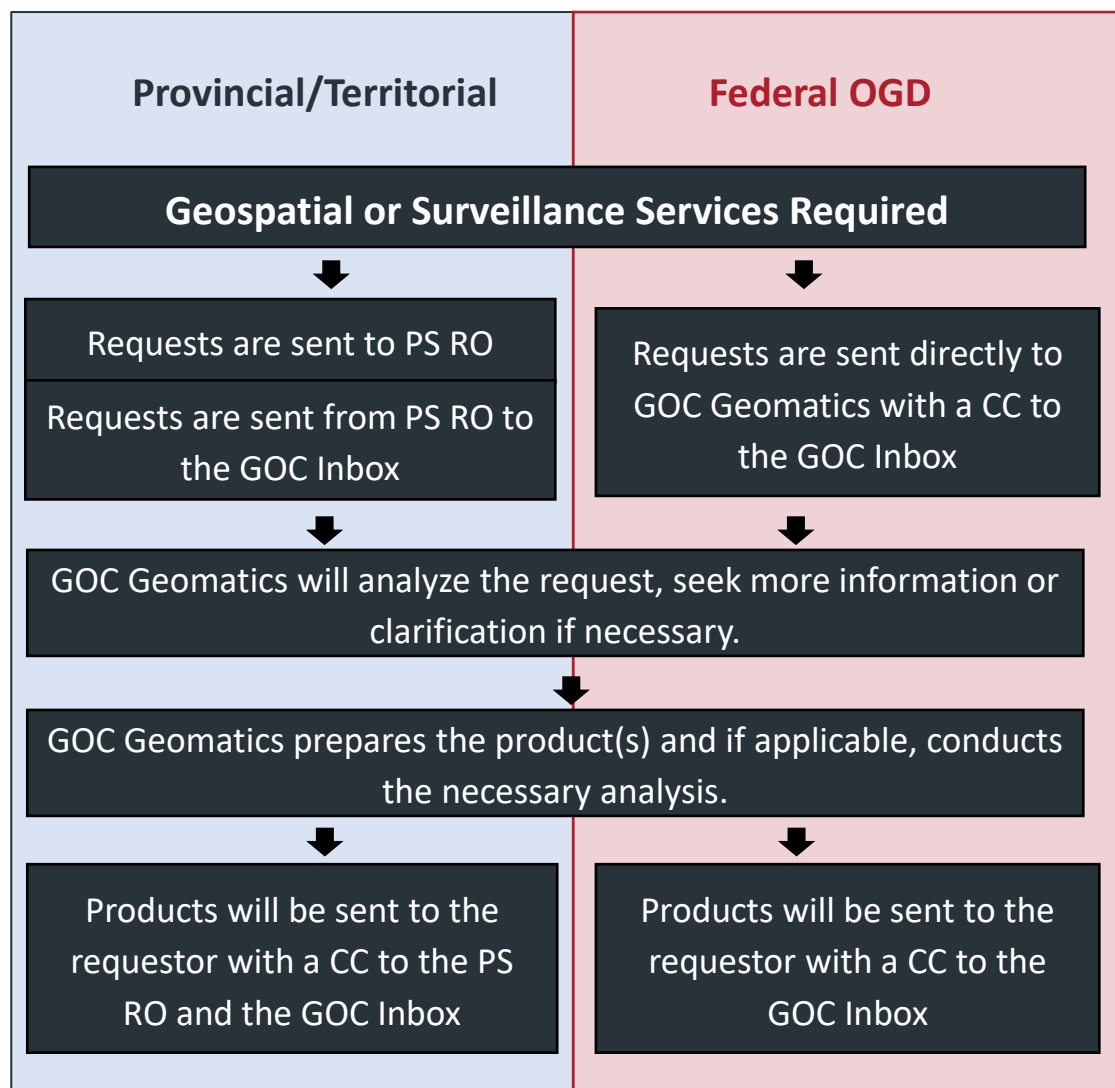
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<https://goc-cog-pscanada.hub.arcgis.com/>



How to Request Geomatics Support

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Contact Us

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