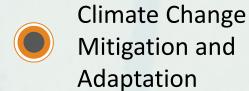


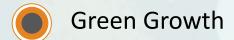
# Improving Resilience to Extreme Events and Climate Impacts

Drought, Wildfires, Floods



## Strategic Plan 2015-2020





Sustainable
Communities and
Ecosystems







### Creating institutional partnerships to:

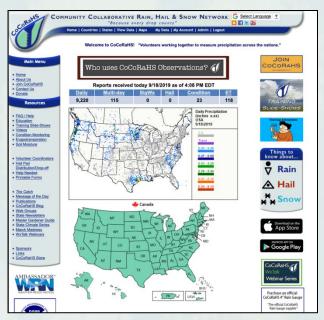
- Advance the response capacities to extreme events that affect the health, safety, and socio-economic and environmental well-being of communities and populations across North America.
- Improved early warning, adaptation planning, and emergency management, and by supporting innovative solutions and better post-disaster reconstruction.







### Using Volunteer Observer Networks to Monitor Precipitation and Wildfires





- Assessment of information needs and gaps relative to precipitation and wildfires.
- Analyse the feasibility of using citizen science and volunteer observation networks to address information needs.
- Feasibility study for the expansion of the Community Collaborative Rain, Hail and Snow (CoCoRaHS) Network and the Smoke Sense citizen science project across North America.





### **Costing Floods and Other Extreme Events**

Table 1. An overview of the flood costing methodologies currently in use in Canada,

Mexico and the United States, particularly with respect to data availability and access.

Method	Key Data Holders	Data Collection	Data Analysis & Presentation	Data Availability & Accessibility	Overall Effectiveness & Acceptability
		Cana	dian Method		•
Parliamentary Budgetary Office Method	Federal & provincial agencies; Insurance companies	•		•	•
Hazus	Default inventory data User-derived data			•	•
Computable General Equilibrium Models	Federal and provincial agencies	•		•	•
		Mexi	can Method		•
ECLAC Method	Local government agencies	•		•	
		United	States Methods		
Human Assessor	Federal government; Insurance companies				•
Model-Based Methods	FEMA, US Army Corps of Engineers		•	•	•
Fed Budget Outlays	Government agencies	•	•		•
State/Local Budget Outlays	All 50 states, territories & tribal governments	•	•	•	•

N.B.: A green light represents complete usefulness and effectiveness in approaches to dafa; yellow/amber light represents somewhat usefulness and/or effectiveness; and a red light indicates unacceptability and ineffectiveness.

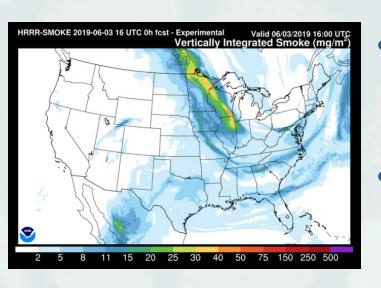


- Develop a common methodology for costing the impacts of floods and other extreme events.
- Workshops incorporating information about Indigenous perspectives and methodological approaches to multi-hazard assessments.
- Develop case studies (one per country) to demonstrate the use of the methodology.

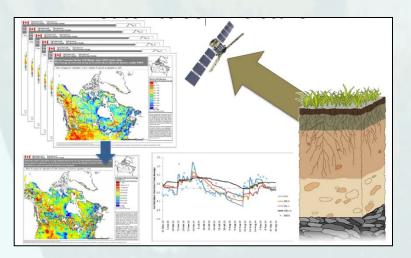


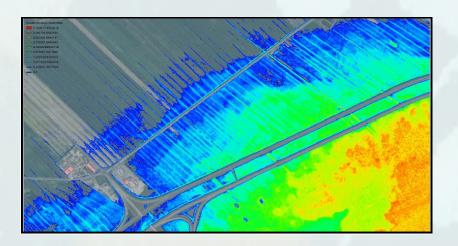


# Using remote sensing to prepare for and respond to extreme events



- Identify best available options for early warning systems that would benefit from enhanced access to satellite imagery.
- Conduct workshops on the use of satellite imagery and response tools for floods, drought, and forest fires.

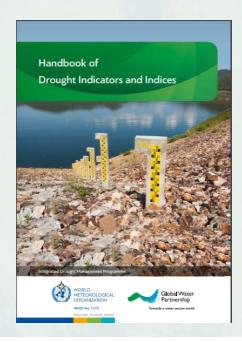




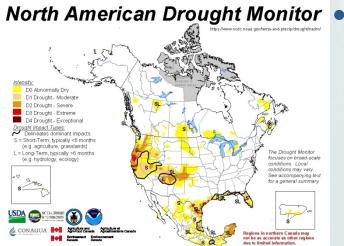




# Improving the Effectiveness of Early Warning Systems for Drought

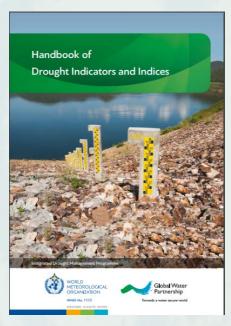


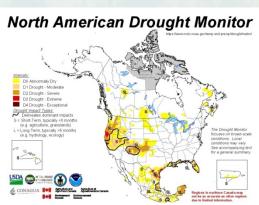
- Develop a set of guidelines on the use of locally relevant indicators in North American climate regions.
- Identify and compare available drought information and best practices, and provide recommendations for improving access and use.



Assess the use and user needs of the North American Drought Monitor (NADM), to improve access and development of user-oriented tools, with an emphasis on transboundary regions across North America.

### **You Opinion Counts!**





- Online Consultations on drought monitoring, indicators and indices: October 8 (English) and October 13 (Spanish). To register: <a href="https://survey.zohopublic.com/zs/XPB3hT">https://survey.zohopublic.com/zs/XPB3hT</a>
- To provide written input: <u>https://survey.zohopublic.com/zs/KgCCBr</u>
- Survey on access and use of drought products: <a href="https://bit.ly/31TJN79">https://bit.ly/31TJN79</a>
- North American Drought Monitor (NADM)
   Use Assessment Survey:
   https://bit.ly/3fVWphi
- Select language of preference (English/Spanish/French)



## Thank you!

### **Commission for Environmental Cooperation**



Three Countries. One Environment.