INDIGENOUS MAPPING WORKSHOP

A Collective Presentation by:
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On the occasion of the UN COPUOUS Scientific & Technical Subcommittee Meeting, online, February 7-18, 2022

2021 IMW GLOBAL MAP OF PARTICIPANTS

INDIGENOUS MAPPING WORKSHOP EVENTS TIMELINE
CONTRIBUTIONS BY NASA

TECHNICAL SESSIONS
• Basics of Satellite Imagery
• Applications: Wildfire Monitoring
• Applications: Flooding
• Applications: Habitat Mapping
• Applications: Drought

COLLABORATIVE SESSIONS
• Burn severity mapping and creating storymaps (with ESRI Canada)
• Office hours (Canadian Space Agency)

PANEL: REMOTE SENSING FOR INDIGENOUS RIGHTS AND INTERESTS
• Dr. Amber McCullum (Moderator, NASA)
• Nikki Tulley, member of Navajo Nation
• Dr. Emily Missyabit McAuley, member of Lake Manitoba First Nation

Presented online at the UN COPUOS Scientific & Technical Subcommittee Meeting, February 7-18, 2022
CONTRIBUTIONS BY NASA

LESSONS LEARNED
• Understanding important issues for Indigenous communities is critical
• Conducting end-to-end 3 part training series on mapping burn severity and communicating with Story Maps was very successful
• Increased understanding of the diversity of Indigenous knowledge systems and perspectives as well as innovative uses of geospatial technology

FUTURE CONSIDERATIONS
• Incorporate Indigenous knowledge into trainings
• Continued collaborations with all IMW partners
• Improve understanding of geospatial needs by Indigenous communities and organizations

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CONTRIBUTIONS BY THE CANADIAN SPACE AGENCY

TECHNICAL SESSIONS
- Introduction to Radar Satellites Accessing Radar Imagery
  - Application: Radar & Biodiversity Mapping
  - Application: Radar & Sea Ice Mapping
  - Application: Radar & Flood Monitoring

ONLINE PARTICIPANTS
- Total of 150 people predominantly from Indigenous communities seeking geospatial analysis know-how

CONTRIBUTORS
- Canadian Space Agency
- Natural Resources Canada
- Environmental & Climate Change Canada

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CONTRIBUTIONS BY THE CANADIAN SPACE AGENCY

LESSONS LEARNED
- Effective **geospatial learning** with Indigenous communities requires **two-way engagement**
  - Traditional Knowledge
  - EO satellite technology tools

OUTLOOK
- Continued collaboration: 2022IMW
- Future projects to be determined

SHARING & EXCHANGING EXPERIENCE
- Government scientists
- Community mapping practitioners
- CEOS community at large

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JOIN THE INDIGENOUS MAPPING COLLECTIVE TODAY
DECOLONIZE THE MAP. INDIGENIZE THE MAP.