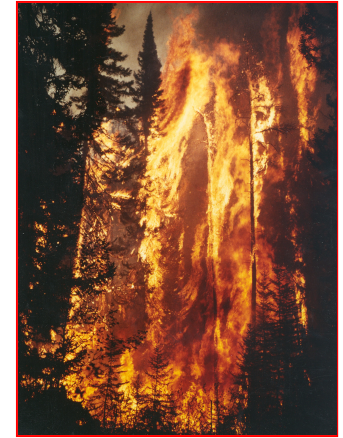


# Forecasting, Monitoring, and Analyzing Boreal Fire and Pyroconvection During ARCTAS

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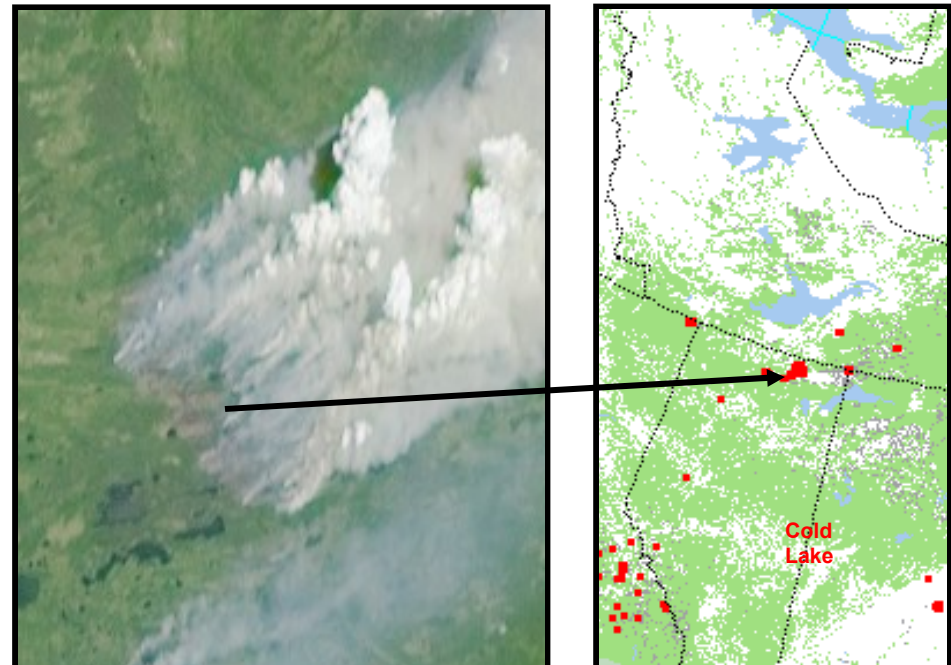
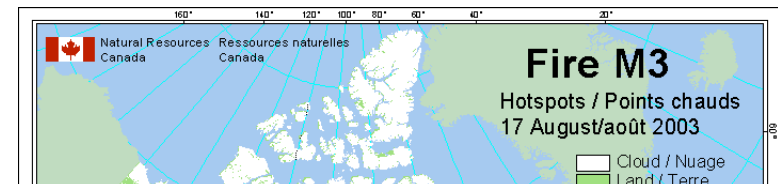


## In a nutshell:

Prior to and during ARCTAS Summer 2008, liaise with provincial officials and fire management agencies. Assist with meteorological forecasting for mission planning. During ARCTAS summer campaign, analyze ground and satellite data to monitor fires, pyroconvection, and smoke transport. Prioritize fires by size and blowup potential. Nowcast blowup candidates. Monitor diurnal and day-to-day fire cycles.

## Examples of activities:

- \* Briefing at CIFFC BoD meeting January
- \* Renewed contact at start of fire season (late April/early May)
- \* Updates on progression of fire season weekly through pyroCbs email group (using CWFIS and agency surveys/forecasts)
- \* Coordination at all times with agencies, even on non-actioned fires
- \* Deploy incoming GOES imagery/data to mission team
- \* Synthesize satellite data, ground reports, radar, lightning, wx hourlyies.



# **Forecasting, Monitoring, and Analyzing Boreal Fire and Pyroconvection During ARCTAS**

## **Requirements**

- \* High-speed internet access**
- \* ARCTAS LAN**
- \* Phone line**
- \* prog analyses for forecast trajectories**
- \* matches and gas 😊**

## **WG Interface issues**

- \* duplication of effort (e.g. satellite image deployment)**
- \* duplication of data flows**
- \* naming/tracking convention for fires**
- \* ground-air communication for mid-flt guidance**
- \* lessons learned from prior air campaigns (e.g. J. Whiteway 2007 mission)**