



MODIS

Applications in Fire

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March 8, 2016 GEOG 457

Application #1 – Human Caused Fire

Aqua satellite MODIS

January 6 2016

- Fires at an oil production and storage facility near Sidra
- Five storage tanks were burning, each containing 420,000 – 460,000 barrels of oil

Bands typically used:
3 (459-479nm),
4 (545-565nm),
5 (1230-1250nm),
6 (1268-1652nm) and
7 (2105-2155nm)

Pixel Size: 500m



Application #1 –
Human Caused Fire

Terra satellite MODIS

January 7, 2016
(one day later)

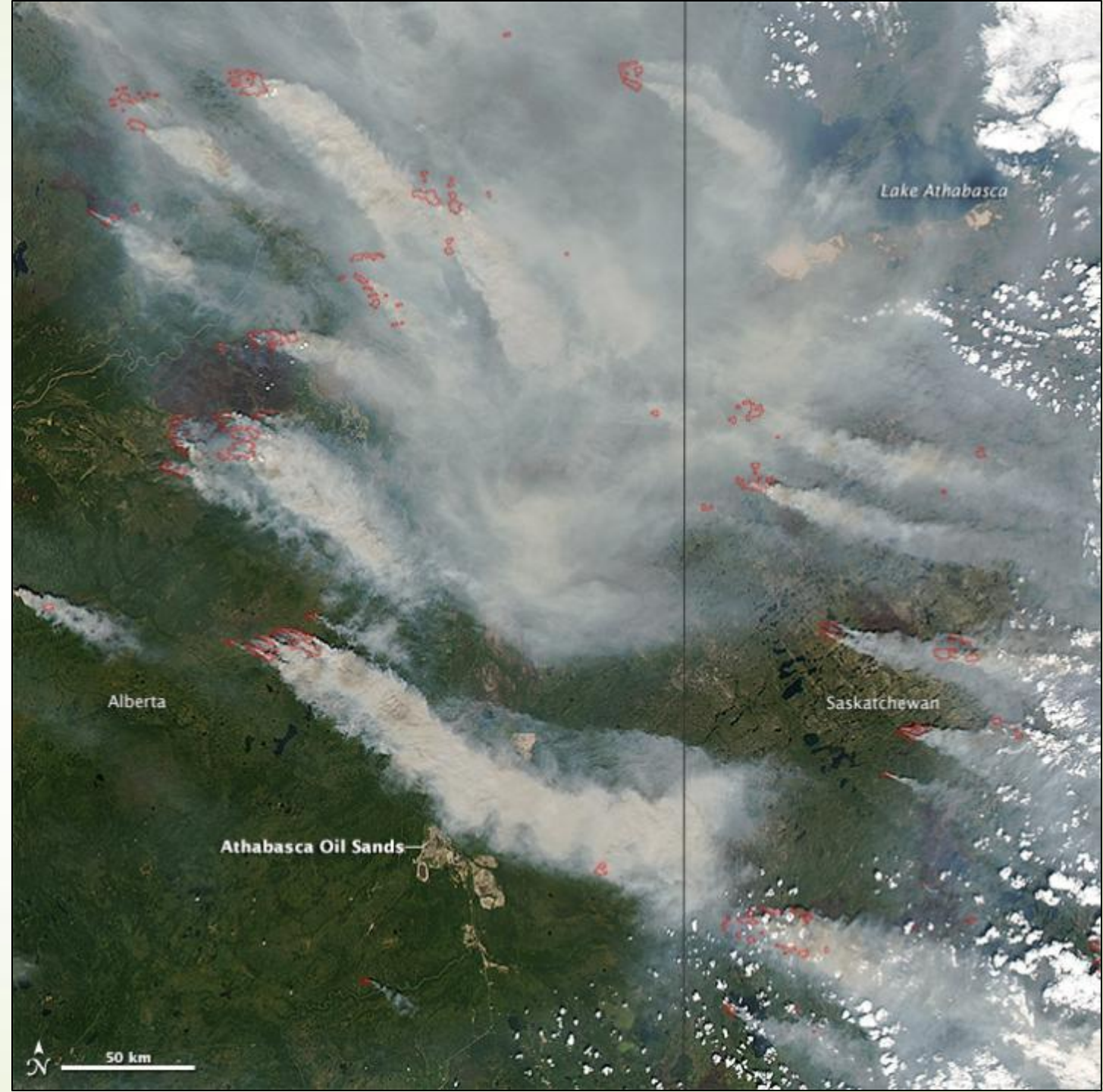


Application #2 –
Forest Fires

Aqua satellite MODIS

Wildfires in Northern Alberta and
Saskatchewan

Summer of 2015





References and Websites

- ▶ <http://modis.gsfc.nasa.gov/>
- ▶ <http://earthobservatory.nasa.gov/IOTD/view.php?id=87285&src=ve>
- ▶ Canadian Interagency Forest Fire Center (2015, June 29) [National Wildland Fire Situation Report: June 28, 2015, 15:00 Hours. Accessed June 29, 2015.](#)
- ▶ Kaufman, Y. J., C. O. Justice, L. P. Flynn, J. D. Kendall, E. M. Prins, L. Giglio, D. E. Ward, W. P. Menzel, and A. W. Setzer (1998), Potential global fire monitoring from EOS-MODIS, *J. Geophys. Res.*, 103(D24), 32215–32238, doi:[10.1029/98JD01644.](https://doi.org/10.1029/98JD01644)