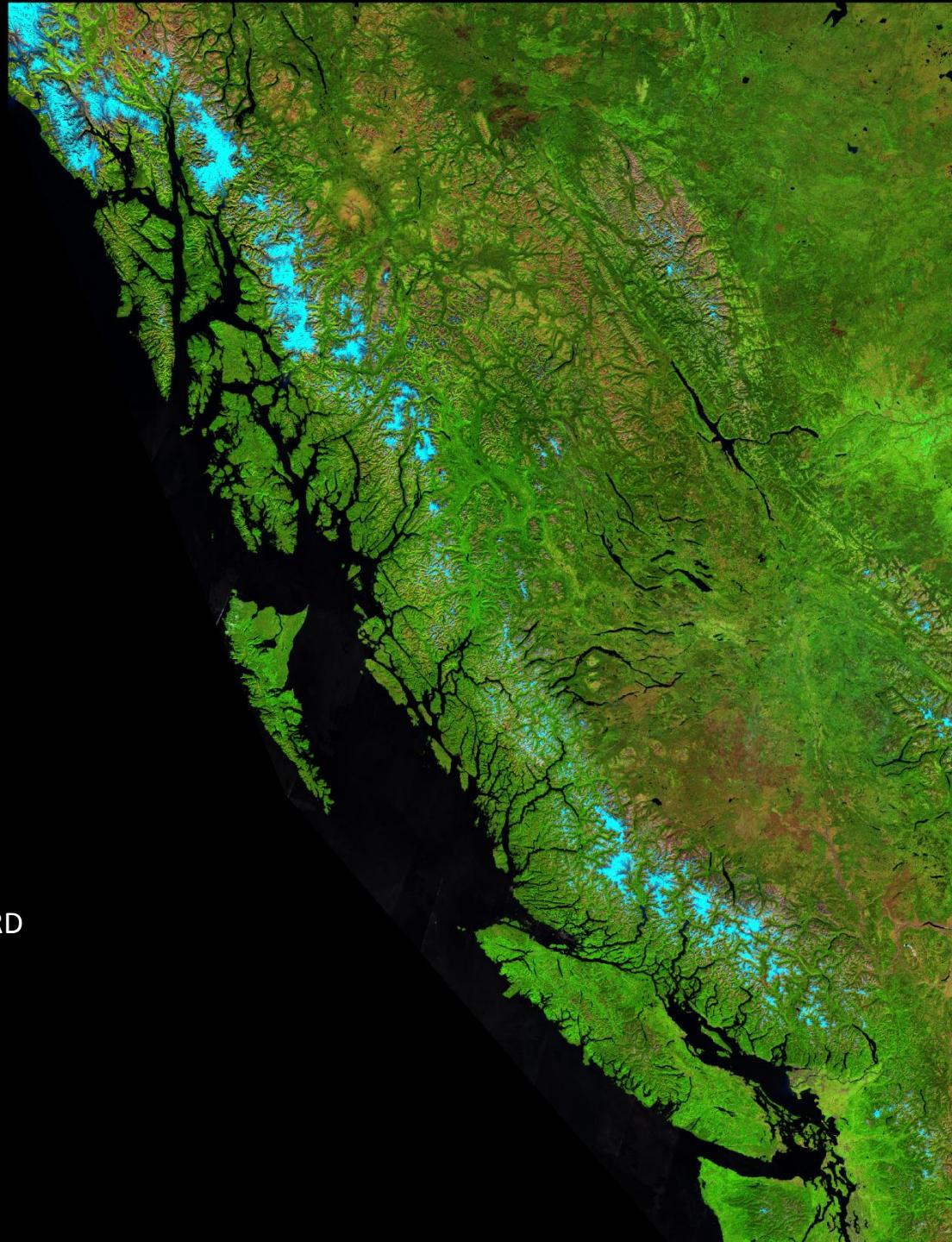


# introduction to *SATELLITE REMOTE SENSING*



**Alexandre Bevington**  
Research Earth Scientist, MFLNRORD

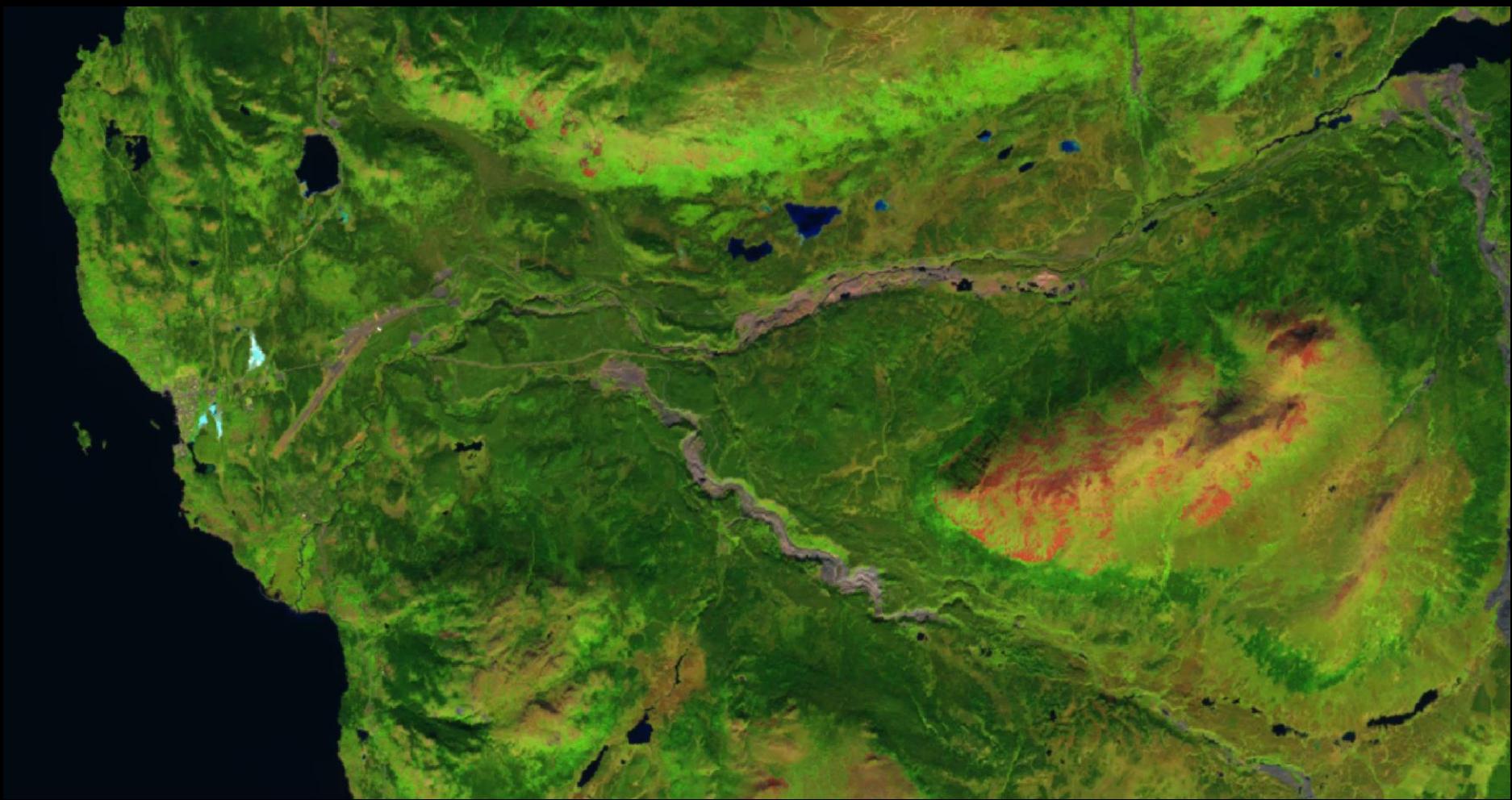


## **MAGIC**

*The power of apparently influencing the course of events by using mysterious or supernatural forces*

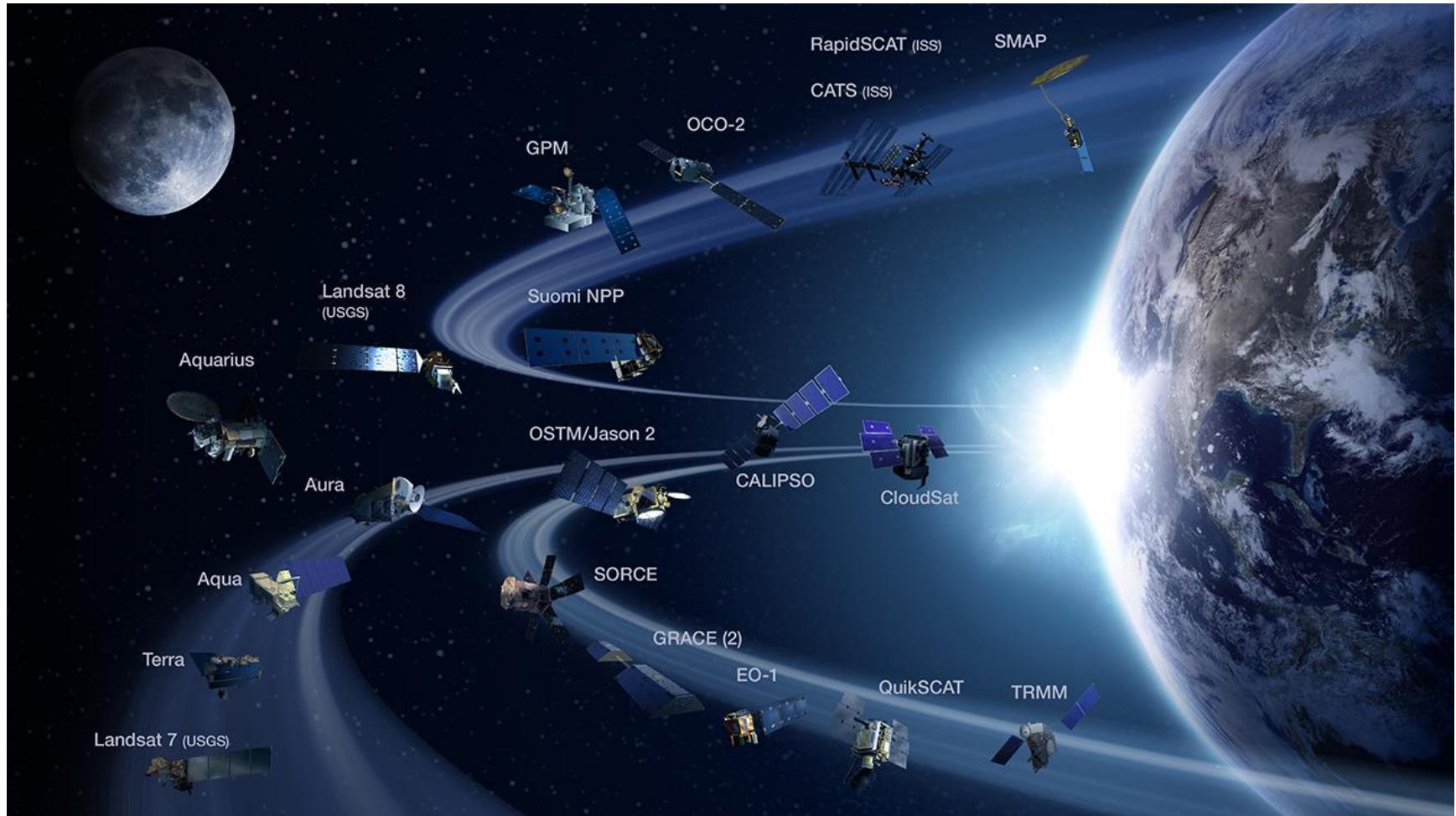
## **REMOTE SENSING**

*Being lazy and critical about objects from a distance*



Sentinel-2 2018 20 m mosaic of British Columbia [Bevington et al. (in prep)]

# Earth Observation 101



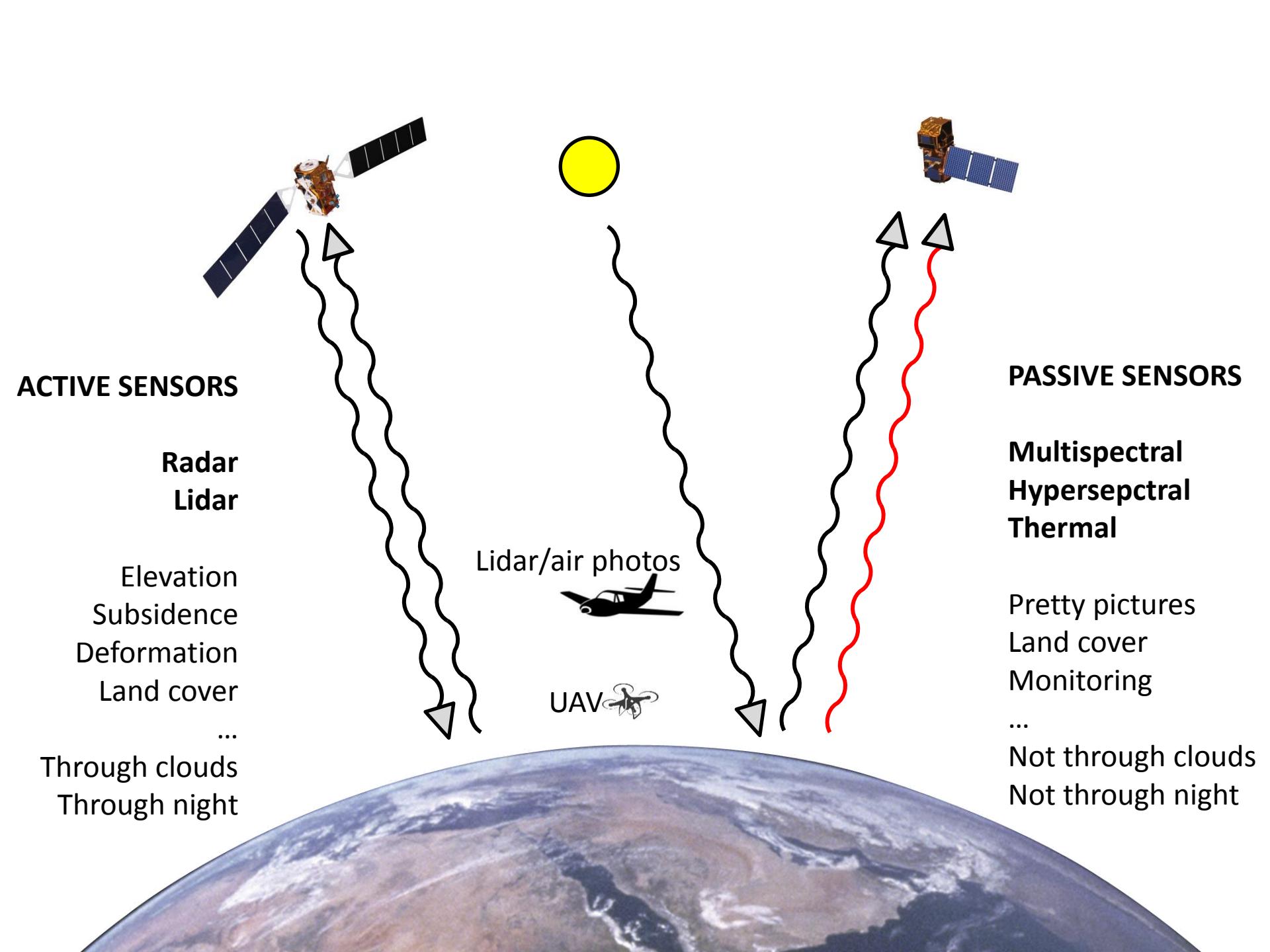
Fineprint:

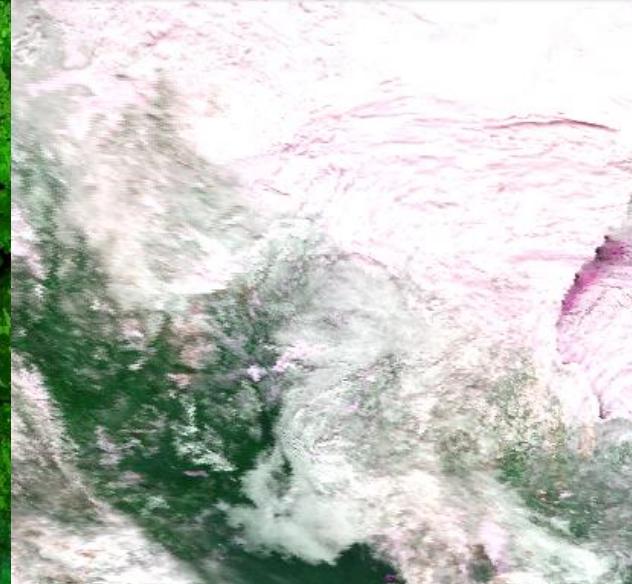
There are 100s of satellites and 1000s of techniques, this talk will only cover a few of each.  
There are many questions that I can answer and others that I will need to look up (or refer you to Roger)



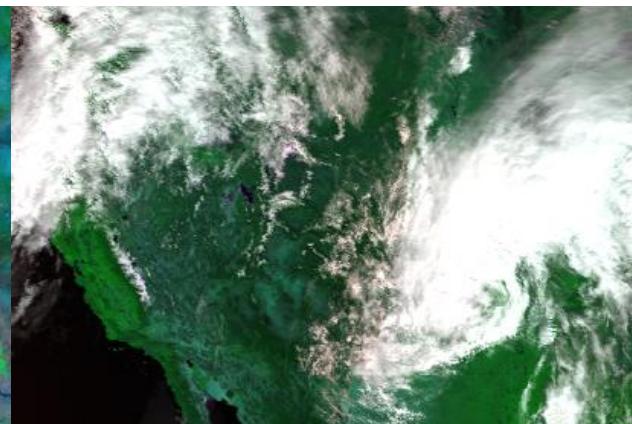
# **REMOTE SENSING:**

**the science of obtaining information about an object from a distance**  
*(ground / vessel / drone / air / satellite)*





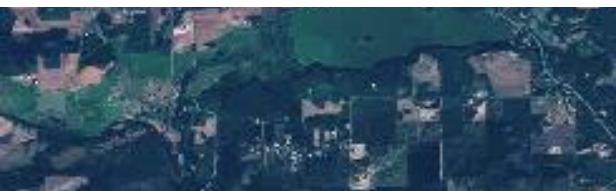
**RESOLUTION IS THE SOLUTION**



**SPATIAL**

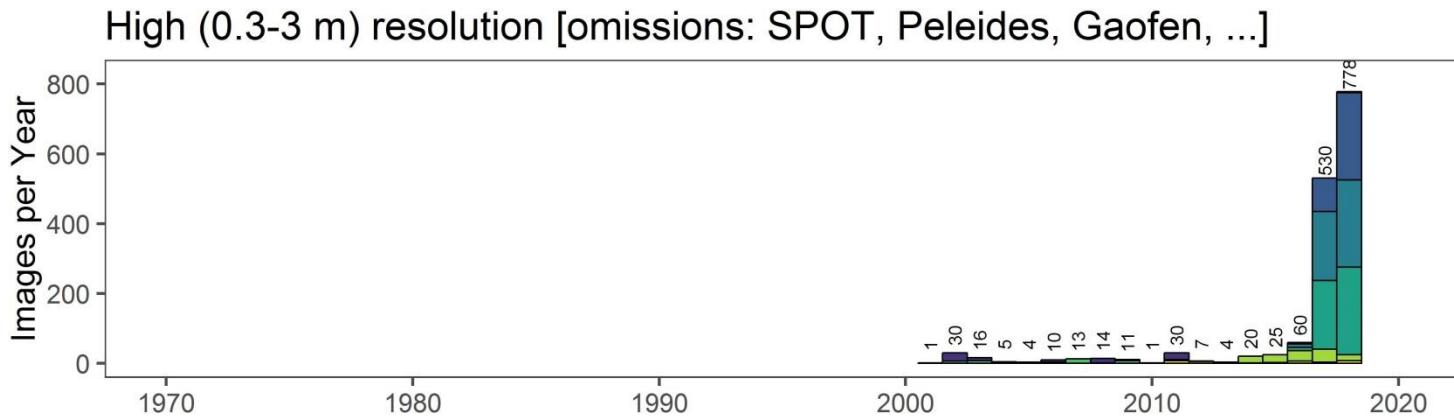
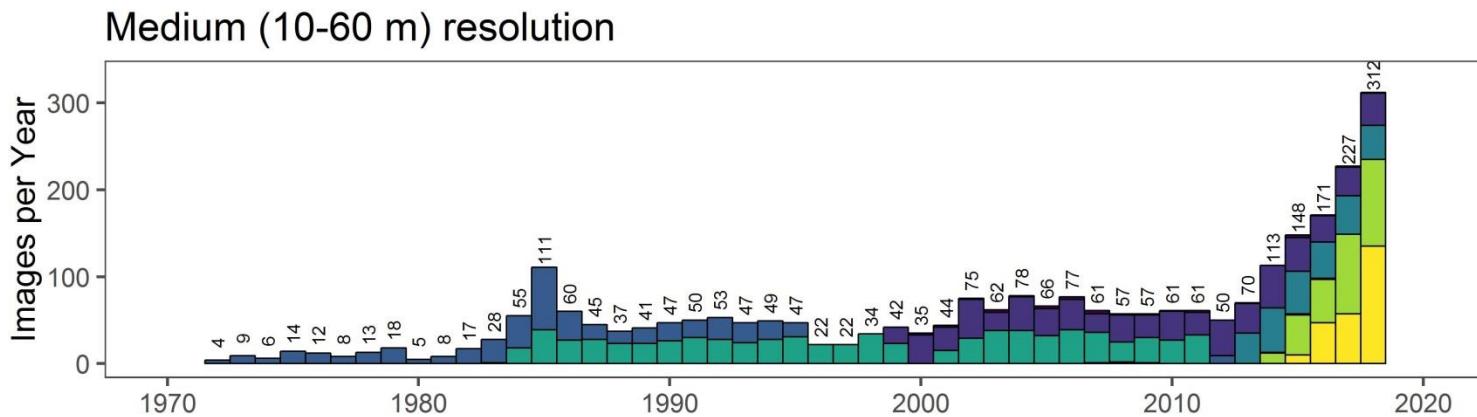
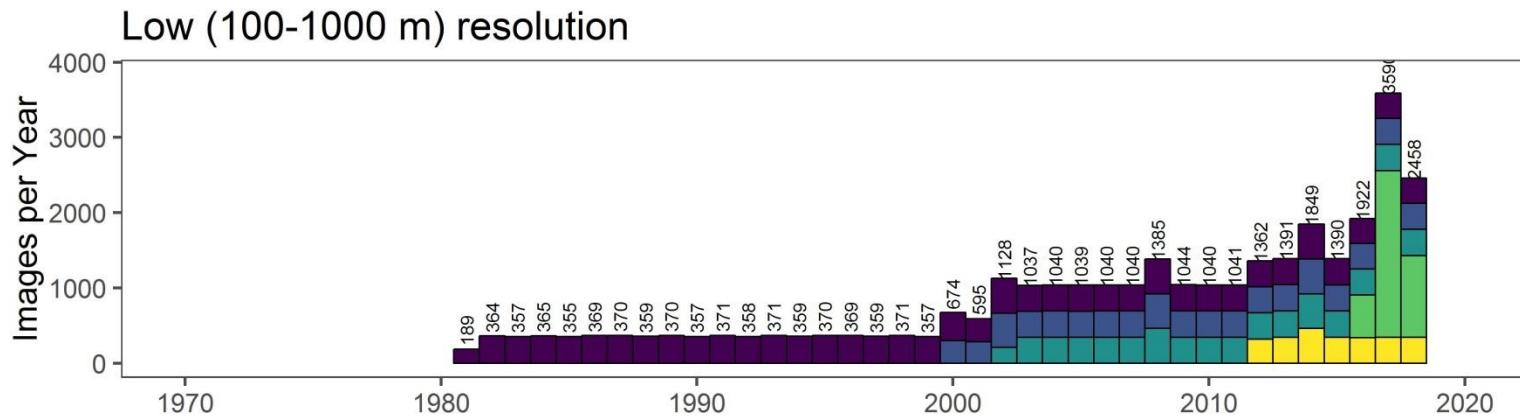
**SPECTRAL**

**TEMPORAL**



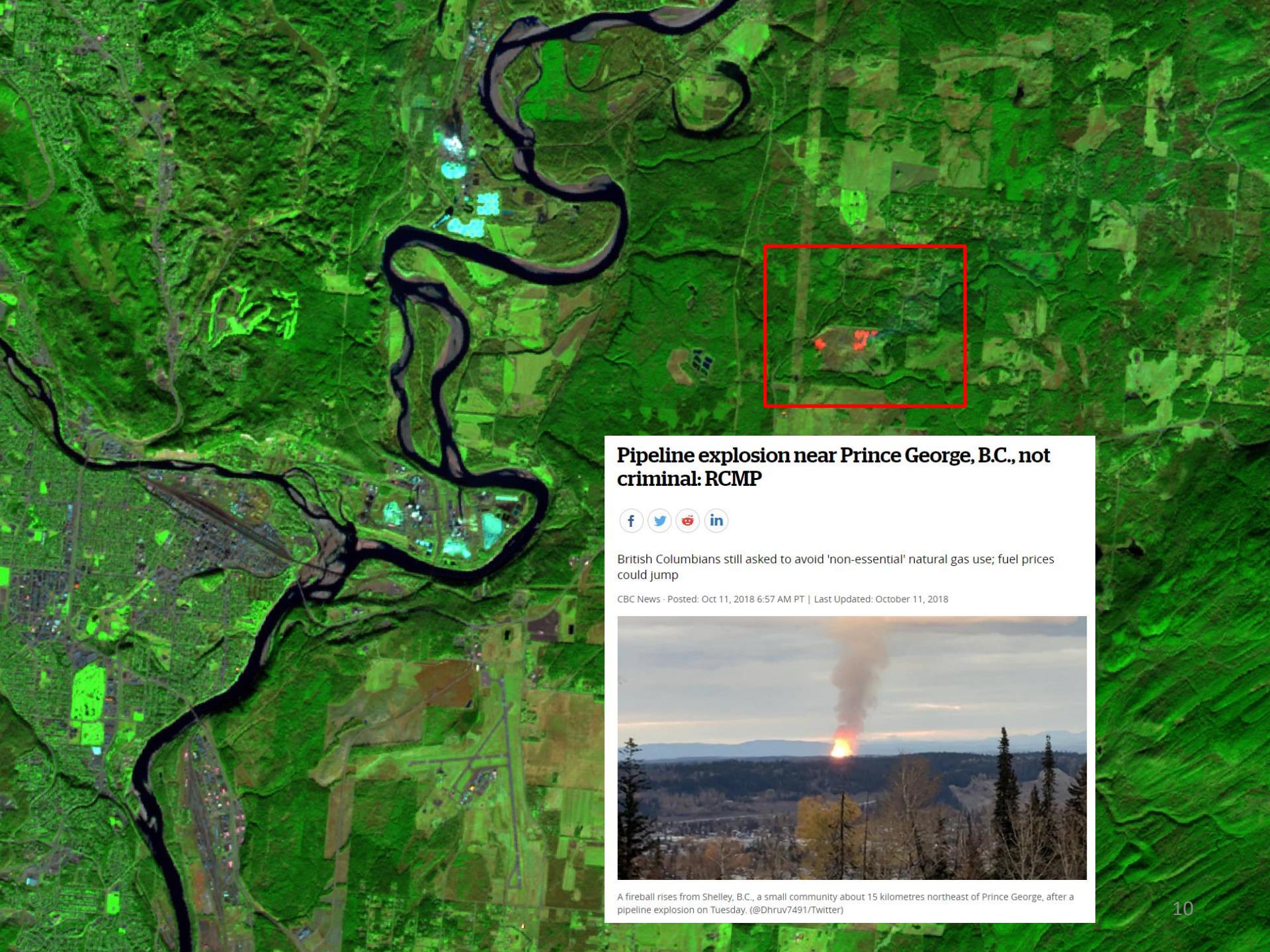
More information:

Bevington et al. (2018) <https://doi.org/10.22230/jwsm.2018v2n2a18>.





Sentinel 2A imagery of Aleppo, Syria acquired July 25, 2016 – August 1, 2016 (ESA 2016)



## Pipeline explosion near Prince George, B.C., not criminal: RCMP



British Columbians still asked to avoid 'non-essential' natural gas use; fuel prices could jump

CBC News · Posted: Oct 11, 2018 6:57 AM PT | Last Updated: October 11, 2018



A fireball rises from Shelley, B.C., a small community about 15 kilometres northeast of Prince George, after a pipeline explosion on Tuesday. (@Dhruv7491/Twitter)



MENU ▾

NEWS · 24 APRIL 2018

# US government considers charging for popular Earth-observing data

*Images from Landsat satellites and agricultural-survey programme are freely available to scientists – but for how long?*

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Gabriel Popkin

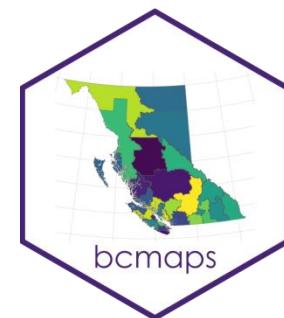
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<https://www.nature.com/articles/d41586-018-04874-y>

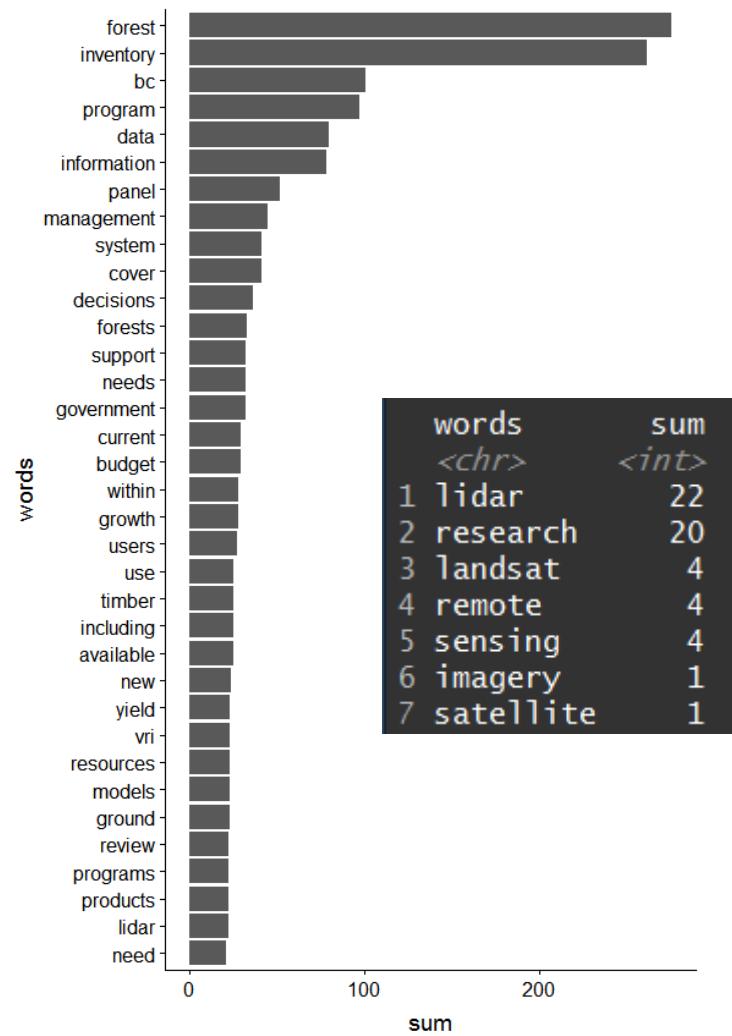
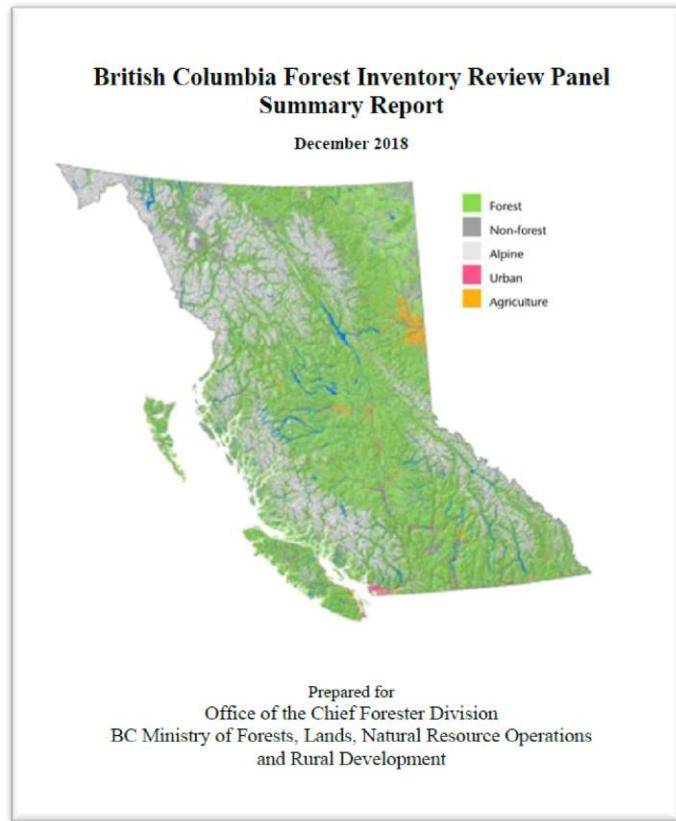
A USGS survey of Landsat users released in 2013 found that the free distribution of Landsat imagery generates more than US\$2 billion of economic benefit annually – dwarfing the programme's current annual budget of roughly \$80 million. More than half of the nearly 13,500 survey respondents were academics, and the majority lived outside the United States.

**OPEN** *data* **OPEN** *code* **OPEN** *publication*

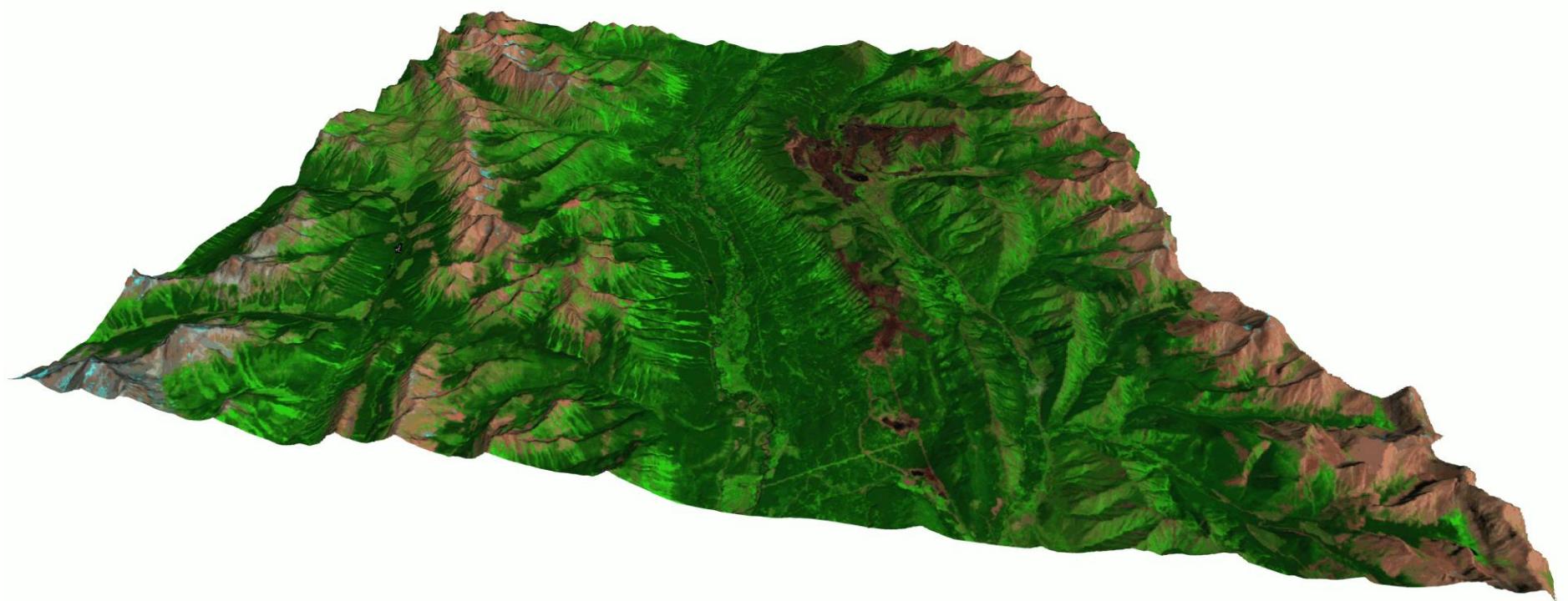




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McGregor River, Otter Lake, Tabor Lake, PG