Space
eXchange
Switzerland

Acquiring satellite data for research

Claudia Röösli
Head of scientific National Point of contact for satellite data
University of Zurich
Swiss Polar Day 2024
12 Sept. 2024 – Fribourg
npoc@geo.uzh.ch

Funded by
Schweizerische Eidgenossenschaft
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Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI
Swiss Space Office

Mission

Amplify the voices of the Swiss space ecosystem.

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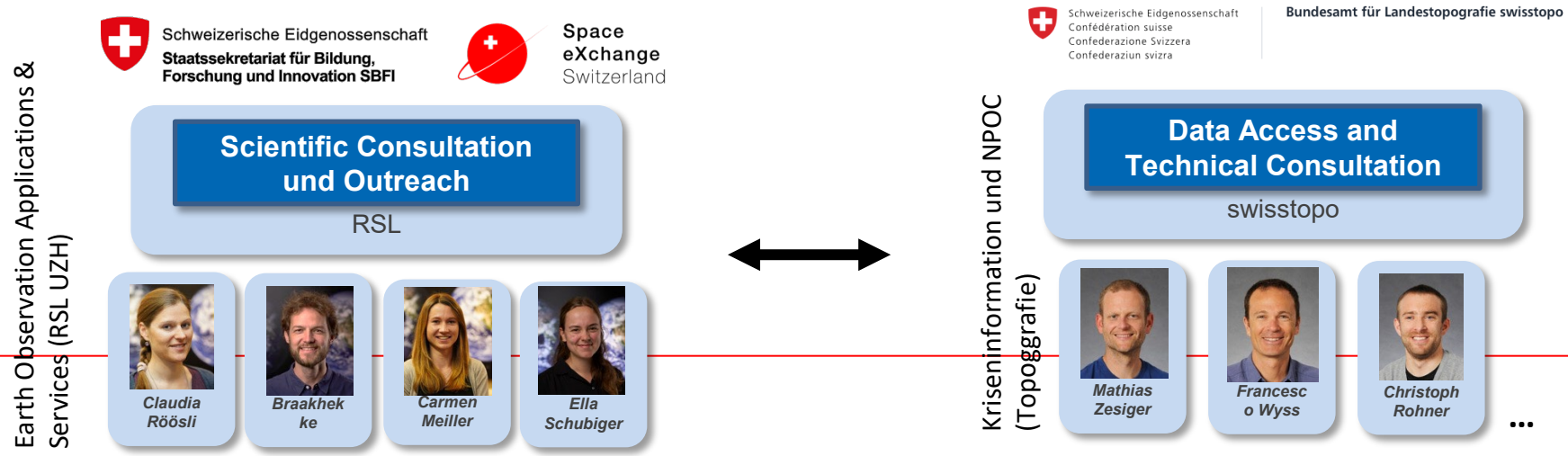
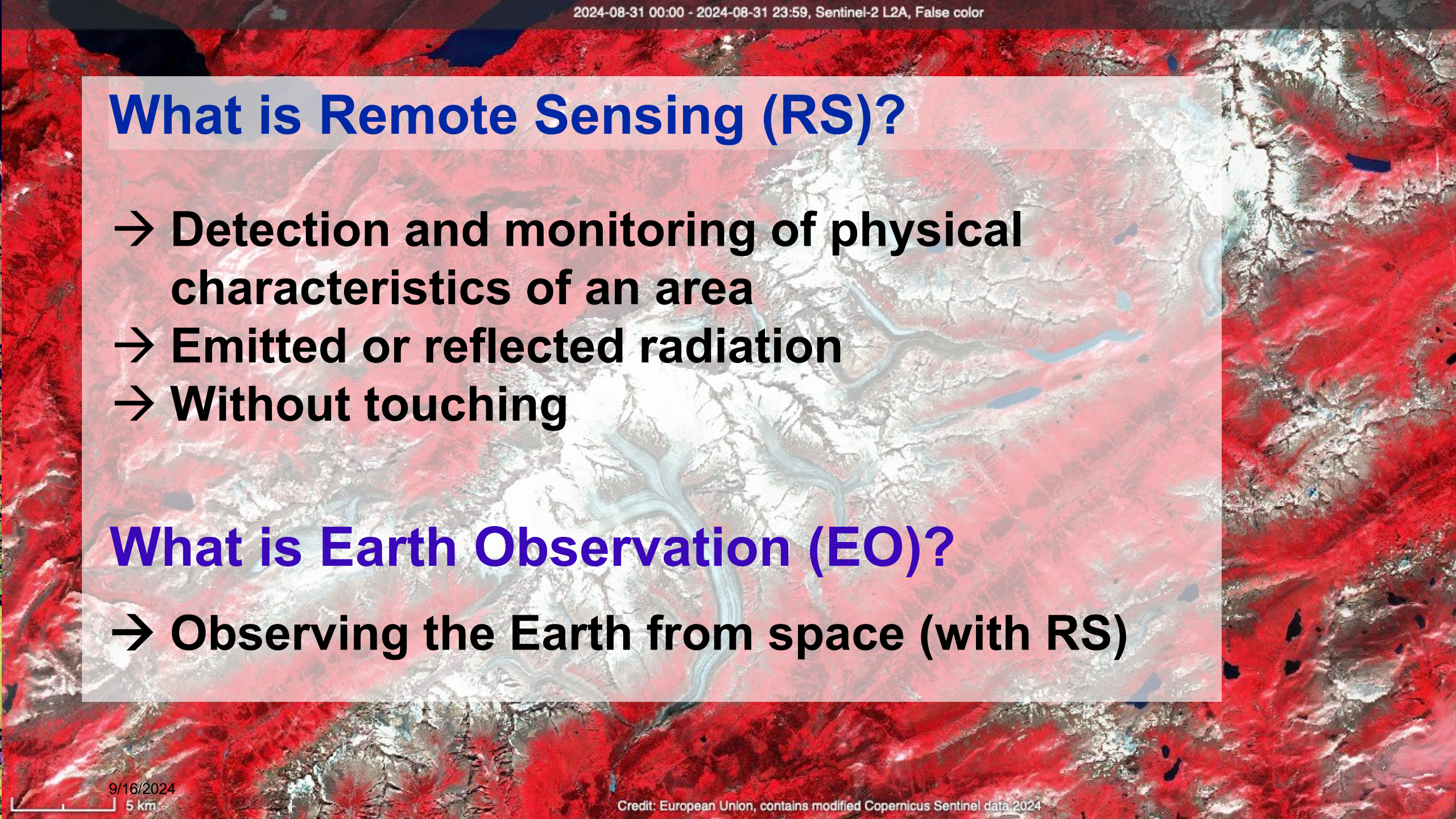
Swiss National Point of Contact for Satellite Images (NPOC)

- Public service to **foster the access and use of satellite data in Switzerland**
- Customer: Public administrations, academia, research institutes, companies, private persons NGOs, …
- Free **science-based consultations**
- **For** any questions, please contact the NPOC team:



Swiss National Point of Contact for Satellite Images (NPOC)

- Public service to **foster the access and use of satellite data in Switzerland**

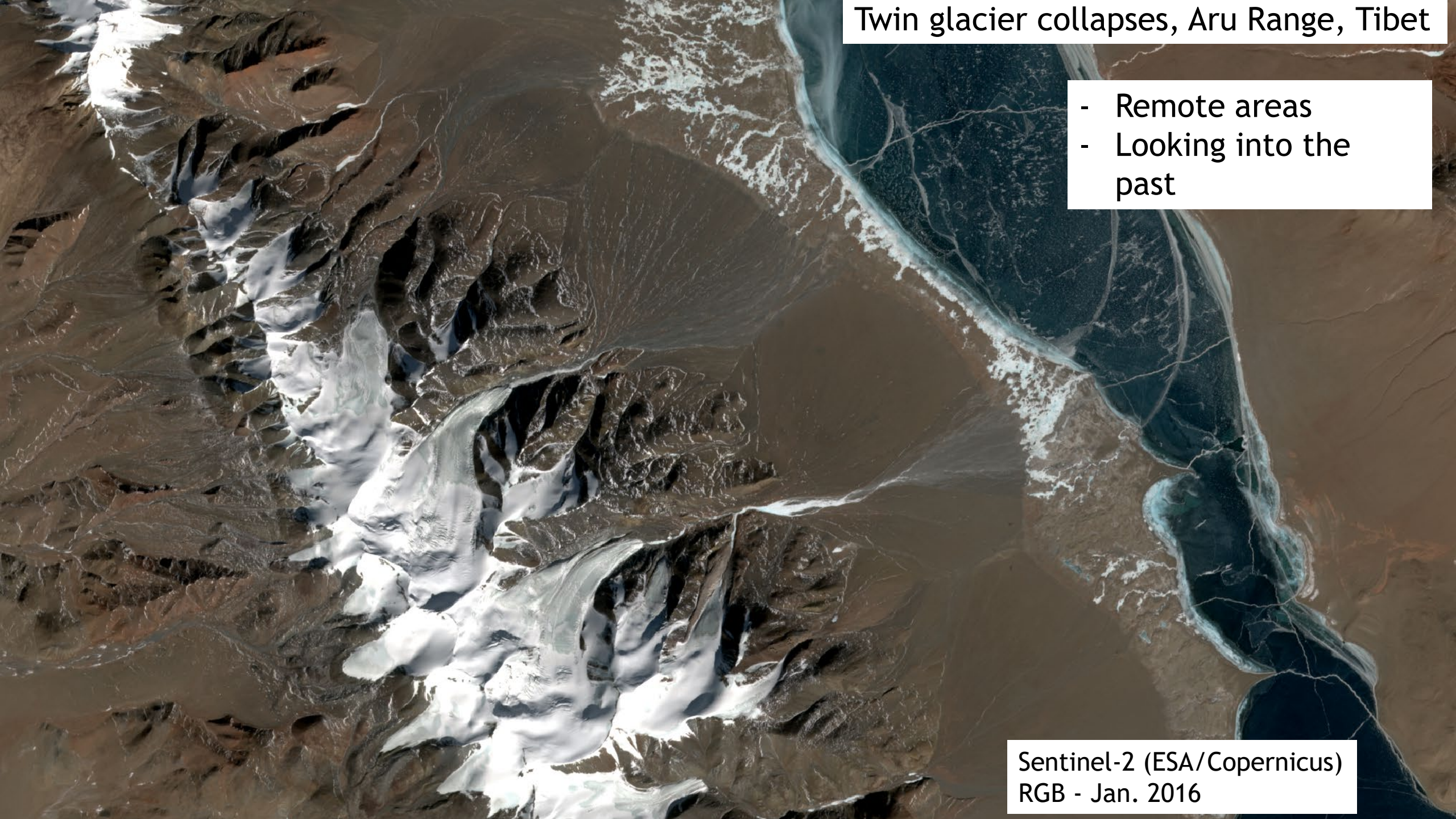


What is Remote Sensing (RS)?

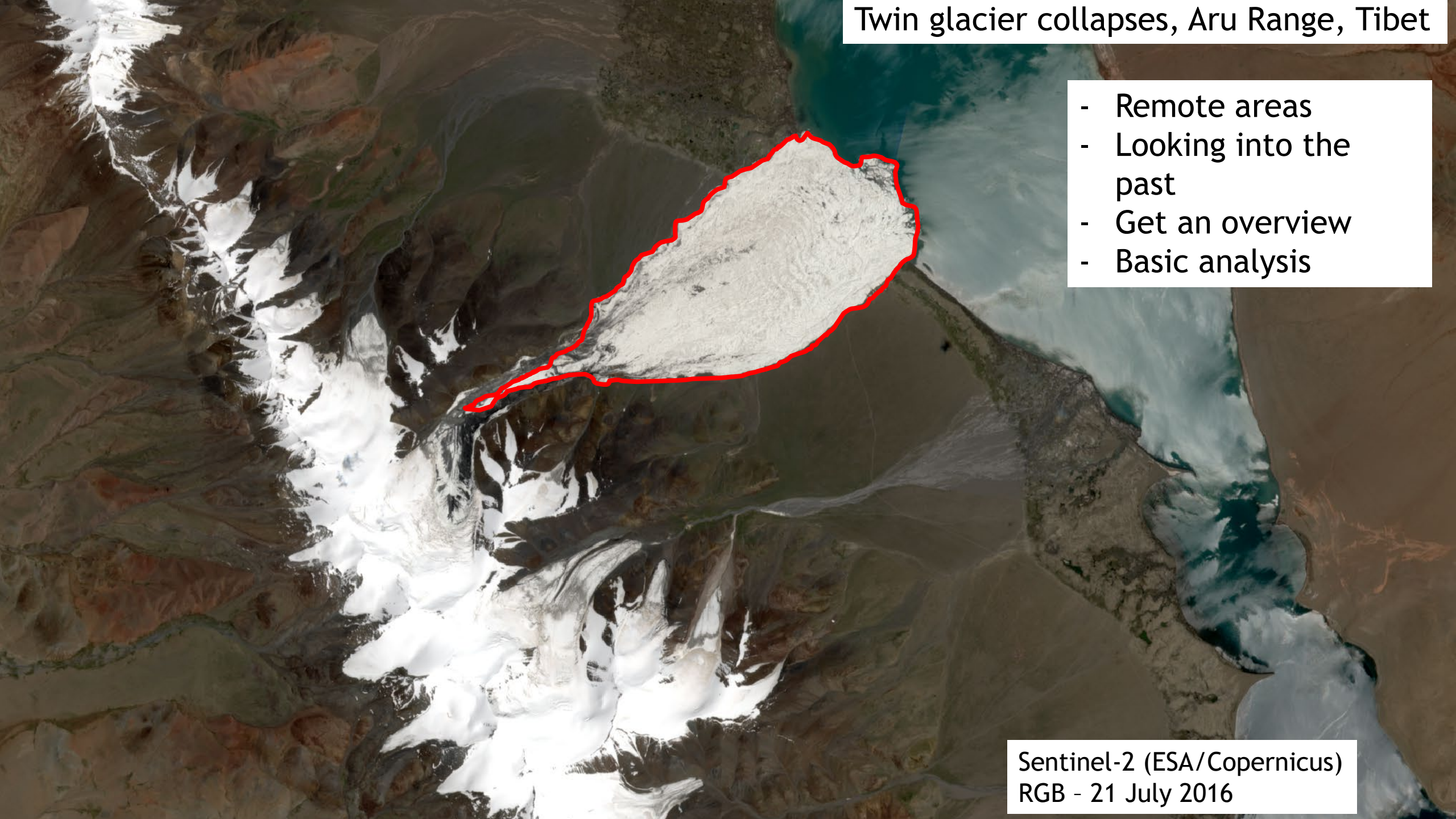
→ Detection and monitoring of physical characteristics of an area
→ Emitted or reflected radiation
→ Without touching

What is Earth Observation (EO)?

→ Observing the Earth from space (with RS)

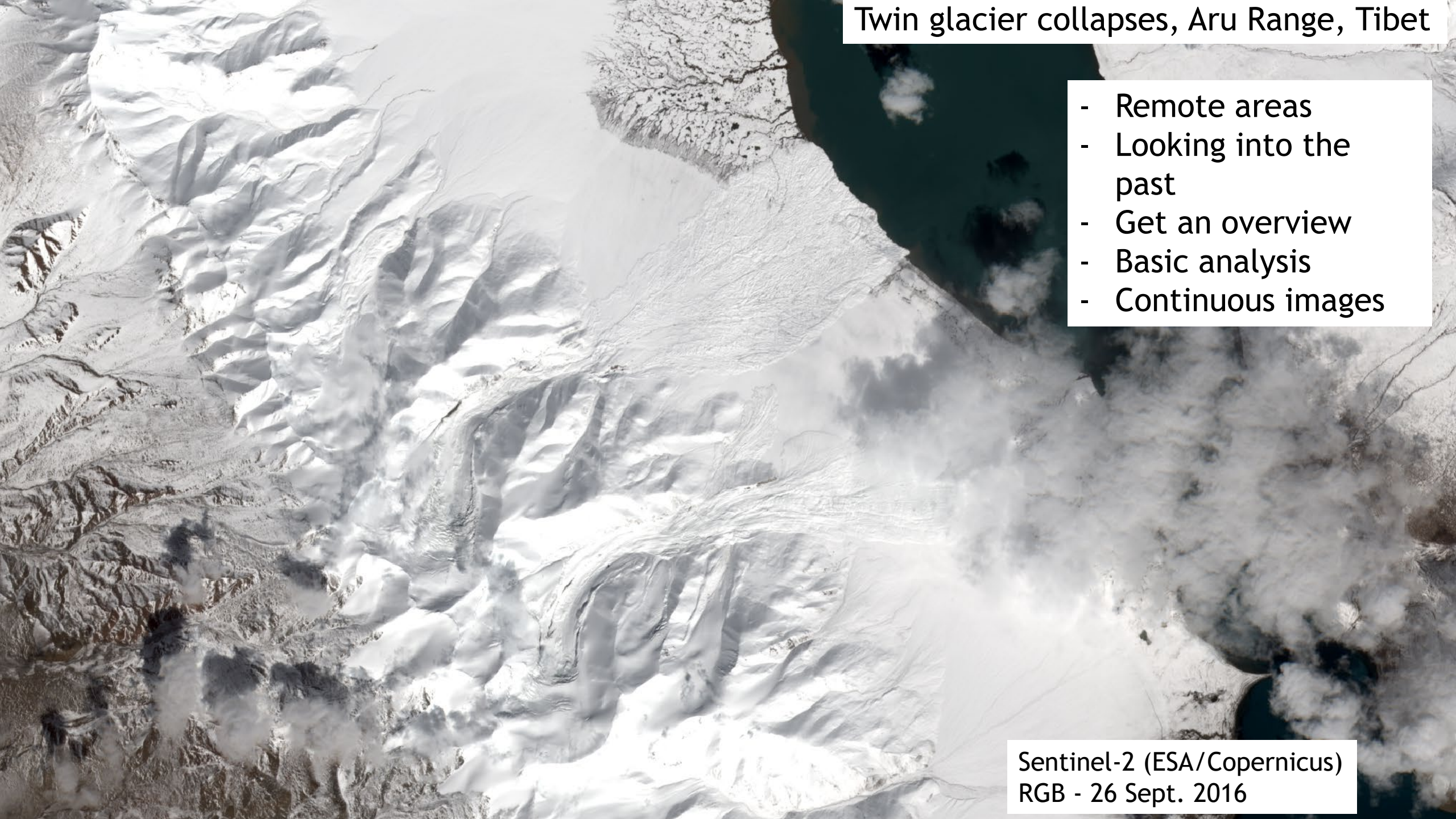

Twin glacier collapses, Aru Range, Tibet
- Remote areas
- Looking into the past
Sentinel-2 (ESA/Copernicus)
RGB - Jan. 2016

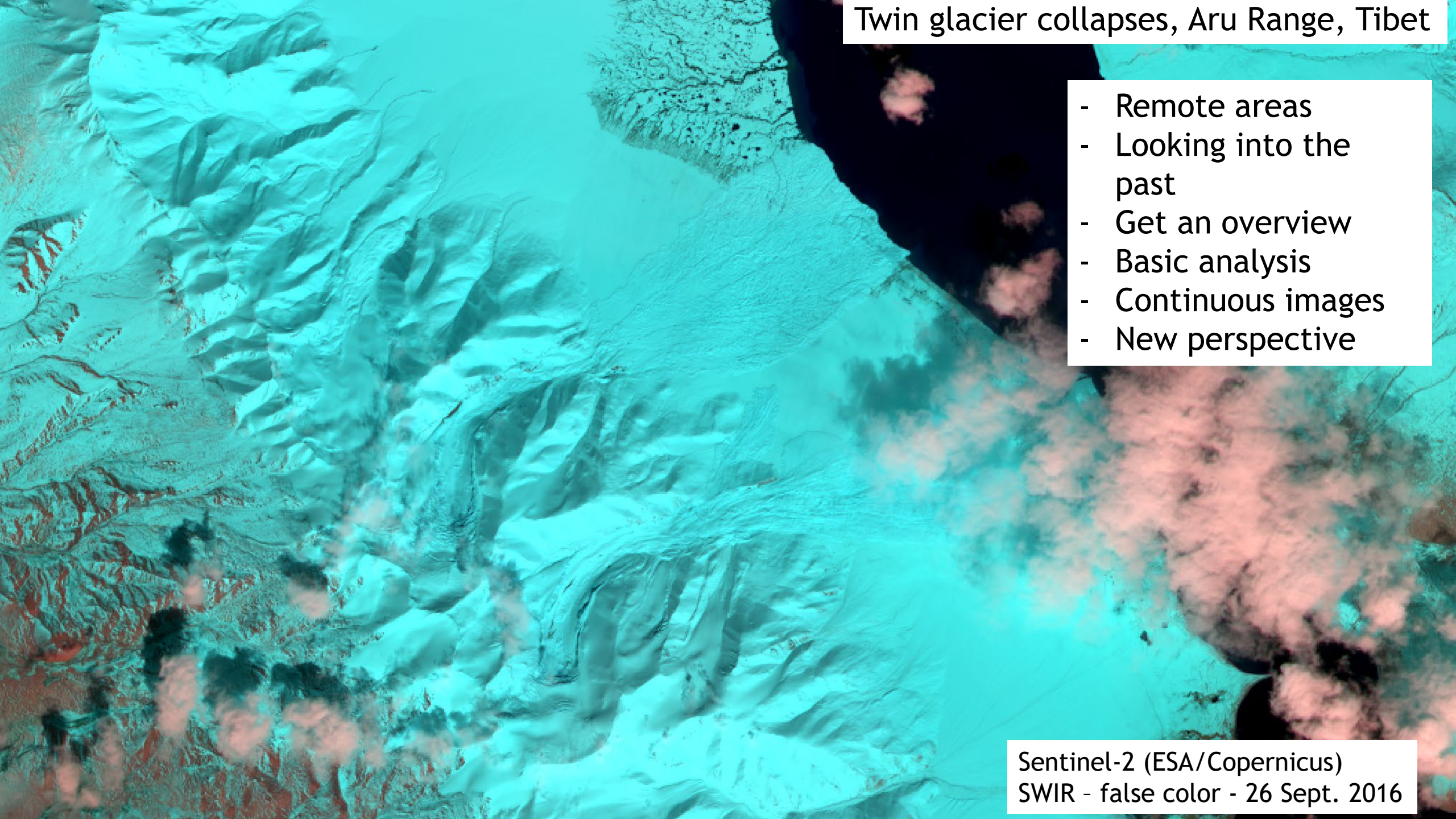
Twin glacier collapses, Aru Range, Tibet

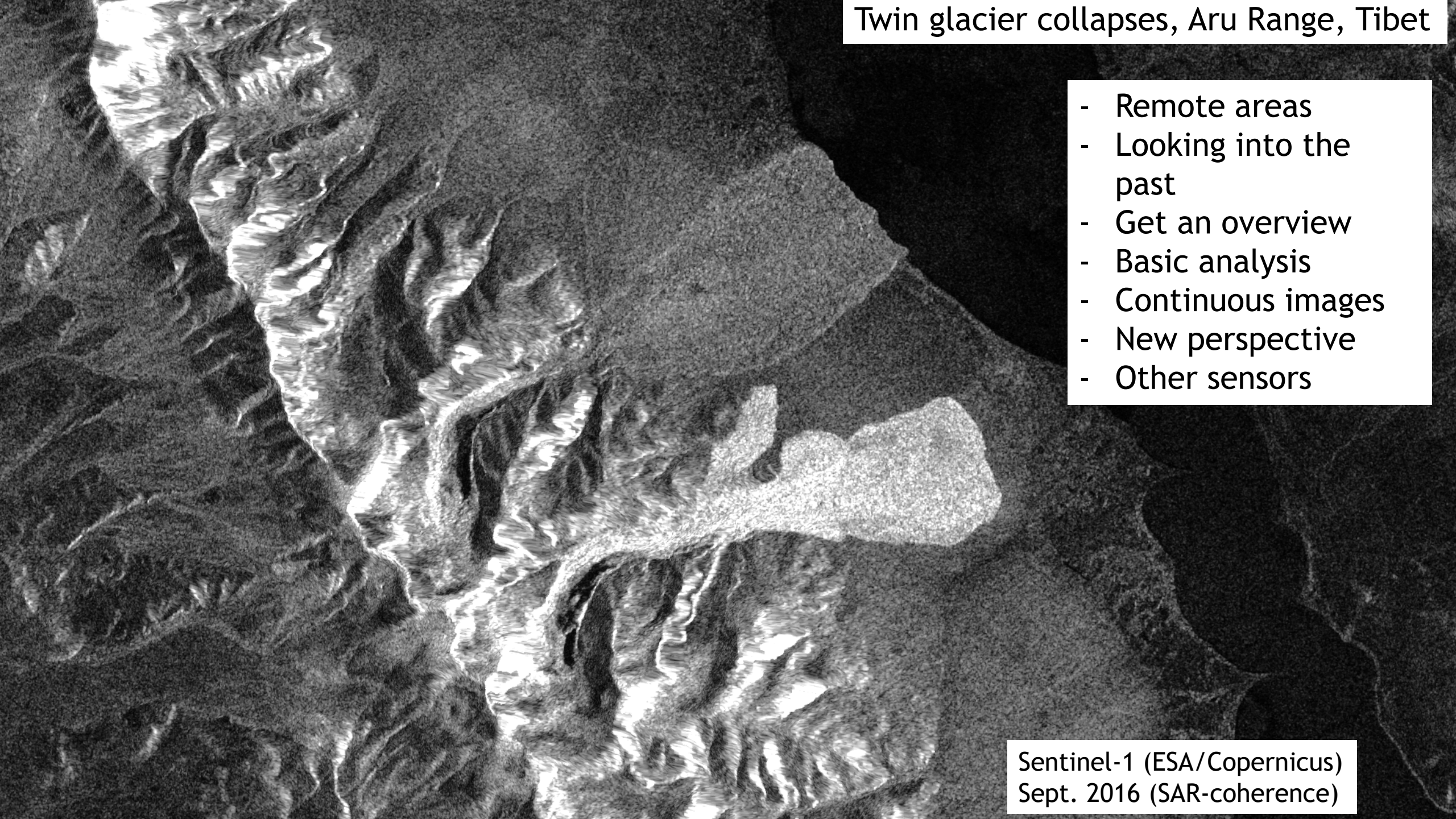


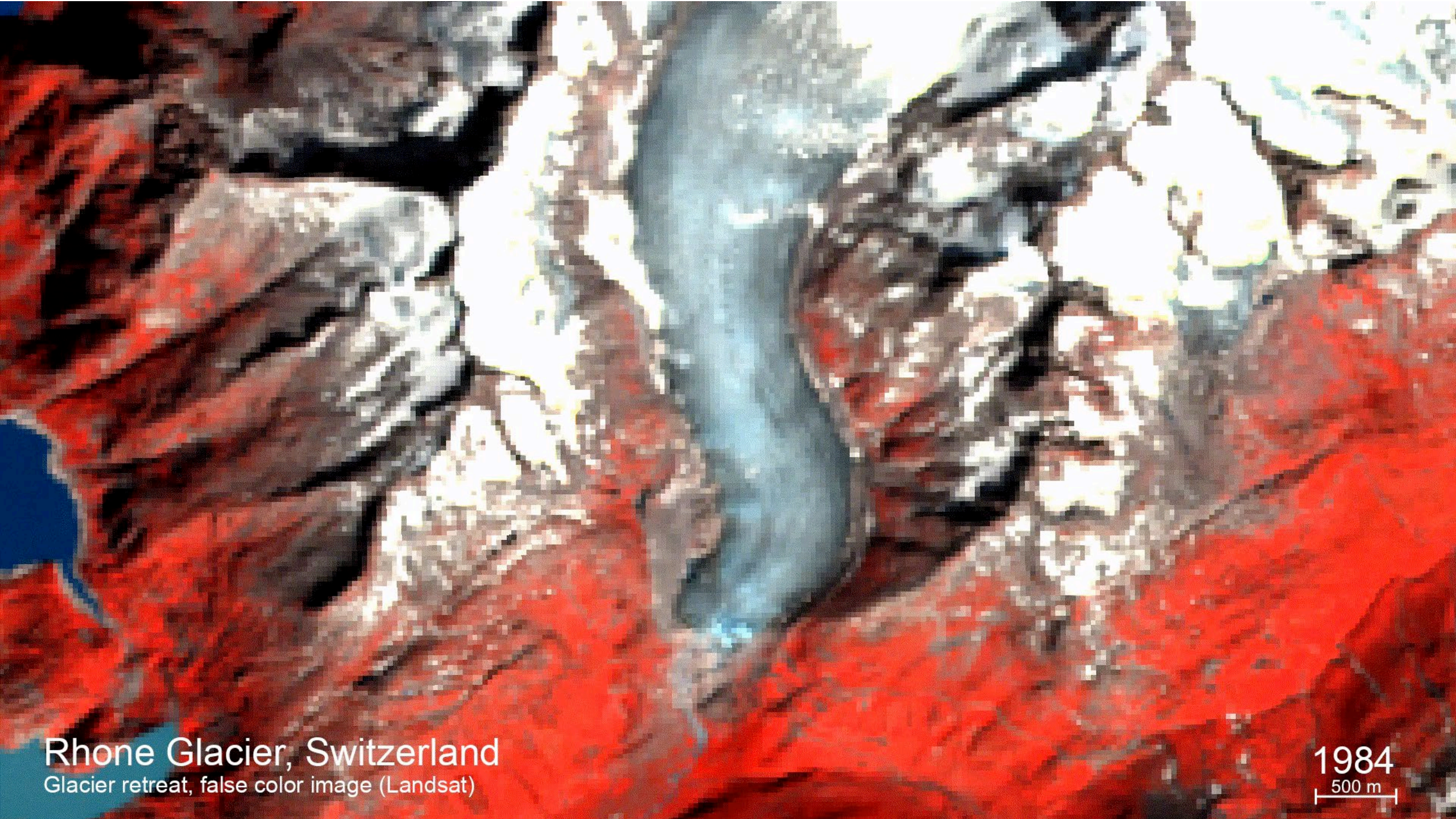
- Remote areas
- Looking into the past
- Get an overview
- Basic analysis

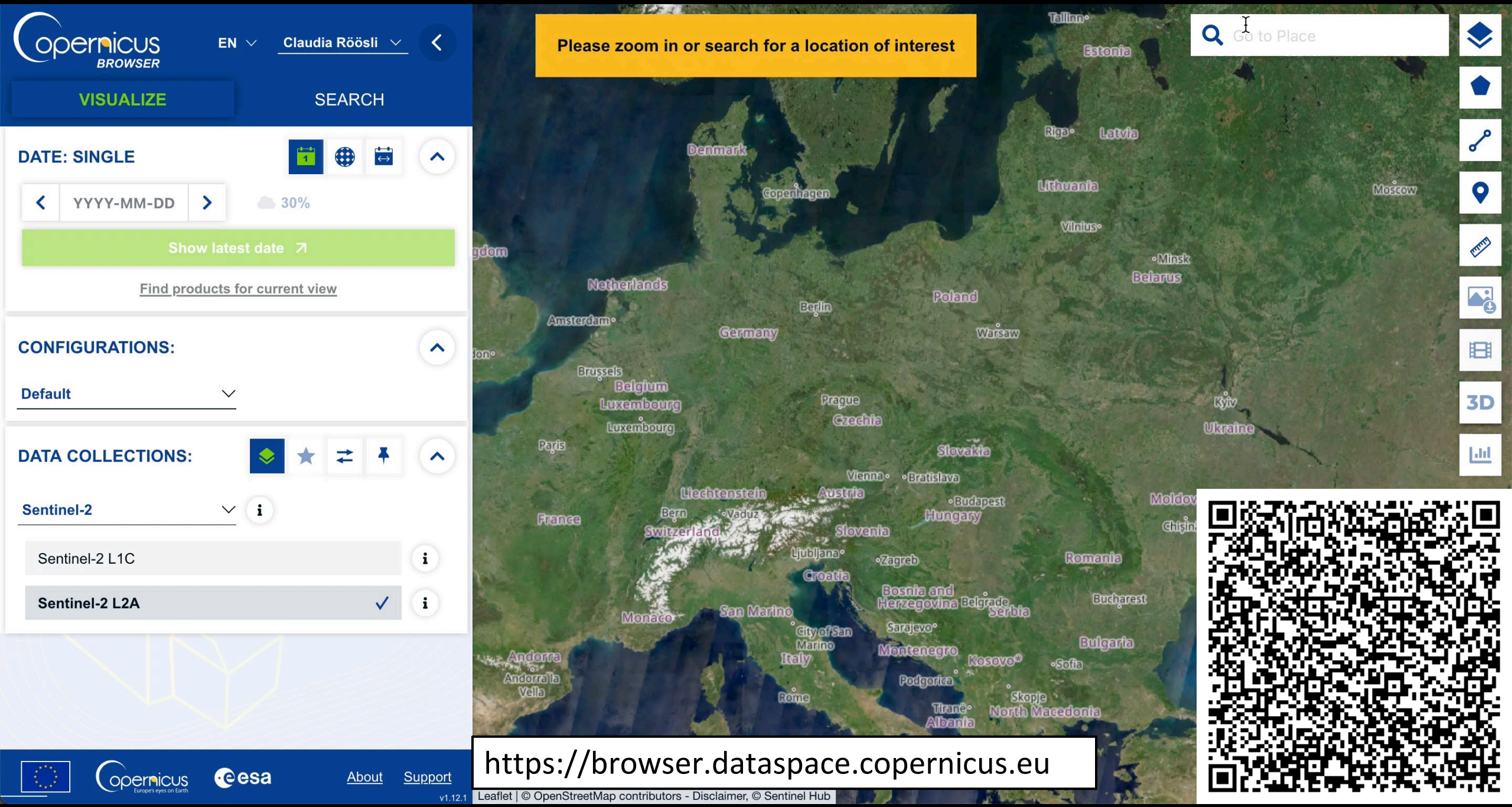
Sentinel-2 (ESA/Copernicus)
RGB – 21 July 2016


Twin glacier collapses, Aru Range, Tibet
- Remote areas
- Looking into the past
- Get an overview
- Basic analysis
- Continuous images
Sentinel-2 (ESA/Copernicus)
RGB - 26 Sept. 2016


Twin glacier collapses, Aru Range, Tibet
- Remote areas
- Looking into the past
- Get an overview
- Basic analysis
- Continuous images
- New perspective
Sentinel-2 (ESA/Copernicus)
SWIR – false color - 26 Sept. 2016


Twin glacier collapses, Aru Range, Tibet
- Remote areas
- Looking into the past
- Get an overview
- Basic analysis
- Continuous images
- New perspective
- Other sensors
Sentinel-1 (ESA/Copernicus)
Sept. 2016 (SAR-coherence)


Rhone Glacier, Switzerland
Glacier retreat, false color image (Landsat)
1984
500 m


Copernicus BROWSER
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Claudia Röösli
VISUALIZE
SEARCH
DATE: SINGLE
YYYY-MM-DD
30%
Show latest date
Find products for current view
CONFIGURATIONS:
Default
DATA COLLECTIONS:
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Sentinel-2 L1C
Sentinel-2 L2A
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