Canadian Space Agency

AFOLU Updates - Tropical Forests



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LSI-VCI – 20 Day 3
September 16, 2026

CEOS
Committee on
Earth Observation Satellites

RADARSAT-2 Tropical Forests

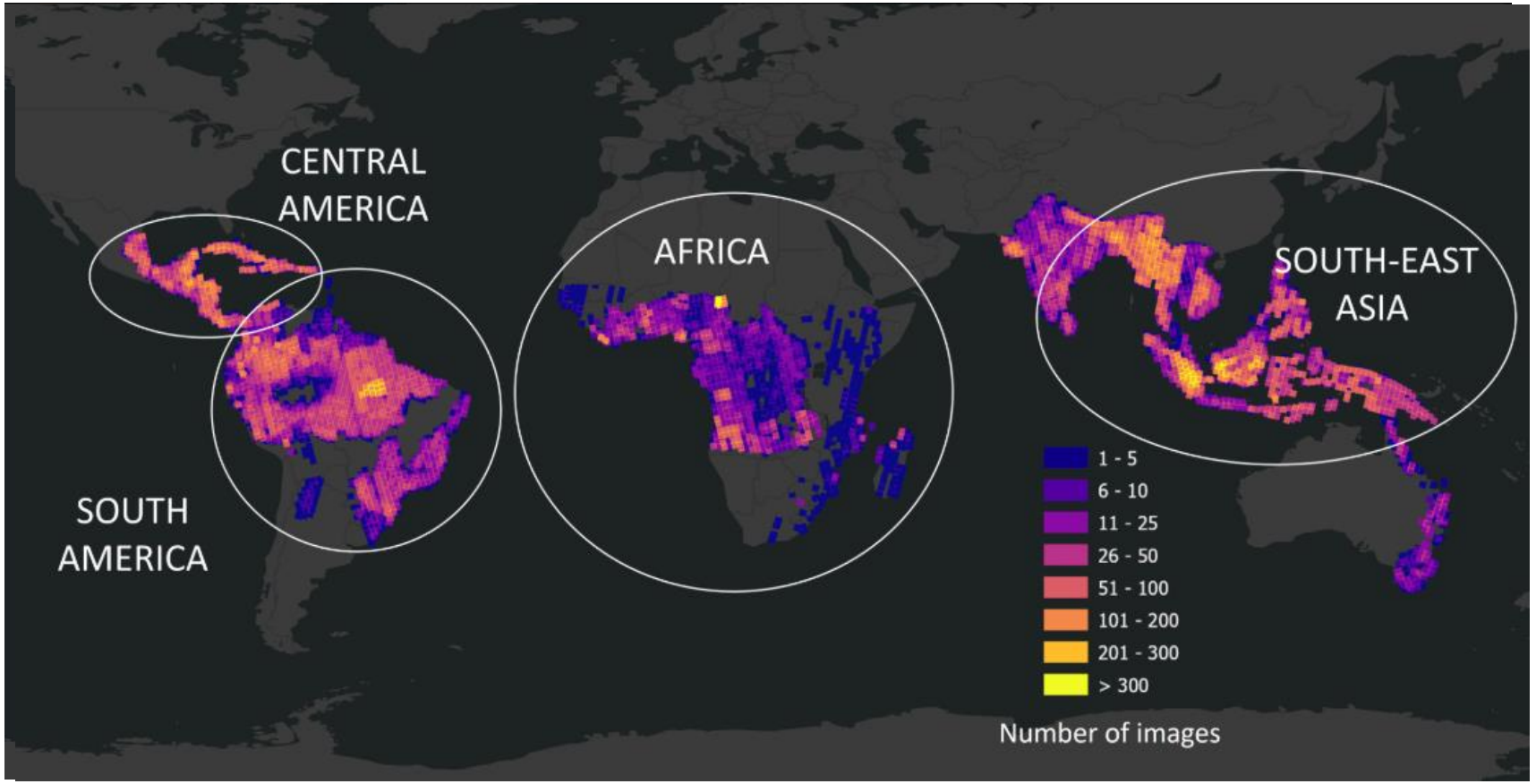
RADARSAT-2 Tropical Forests: data access opportunity

A collaboration between the Canadian Space Agency (CSA), MDA Space and NRCan's Canada Centre for Mapping and Earth Observation.

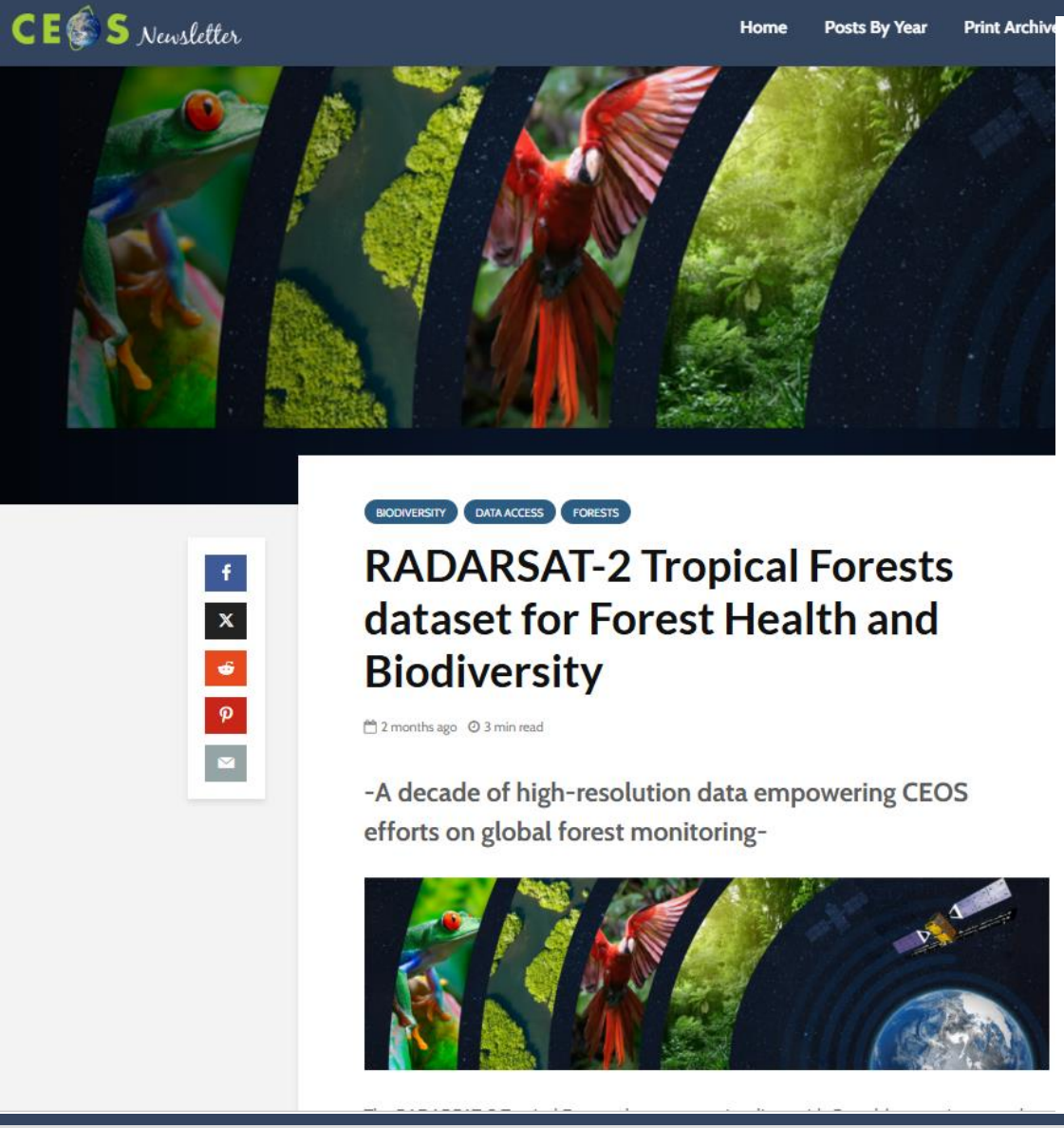


XF Wide 2 (31-38) & Fine 3 (38-44)
Single Pol, HH or VV
SLC format Asc. Desc.
GSD: 5m
SW: 125km

50 000+ Archives avalable in 2025
30 000+ in 2026



RADARSAT-2 Tropical Forests





Outreach activities included presentation, trainings and bilateral discussions

Uptake remains challenging (Access and format)

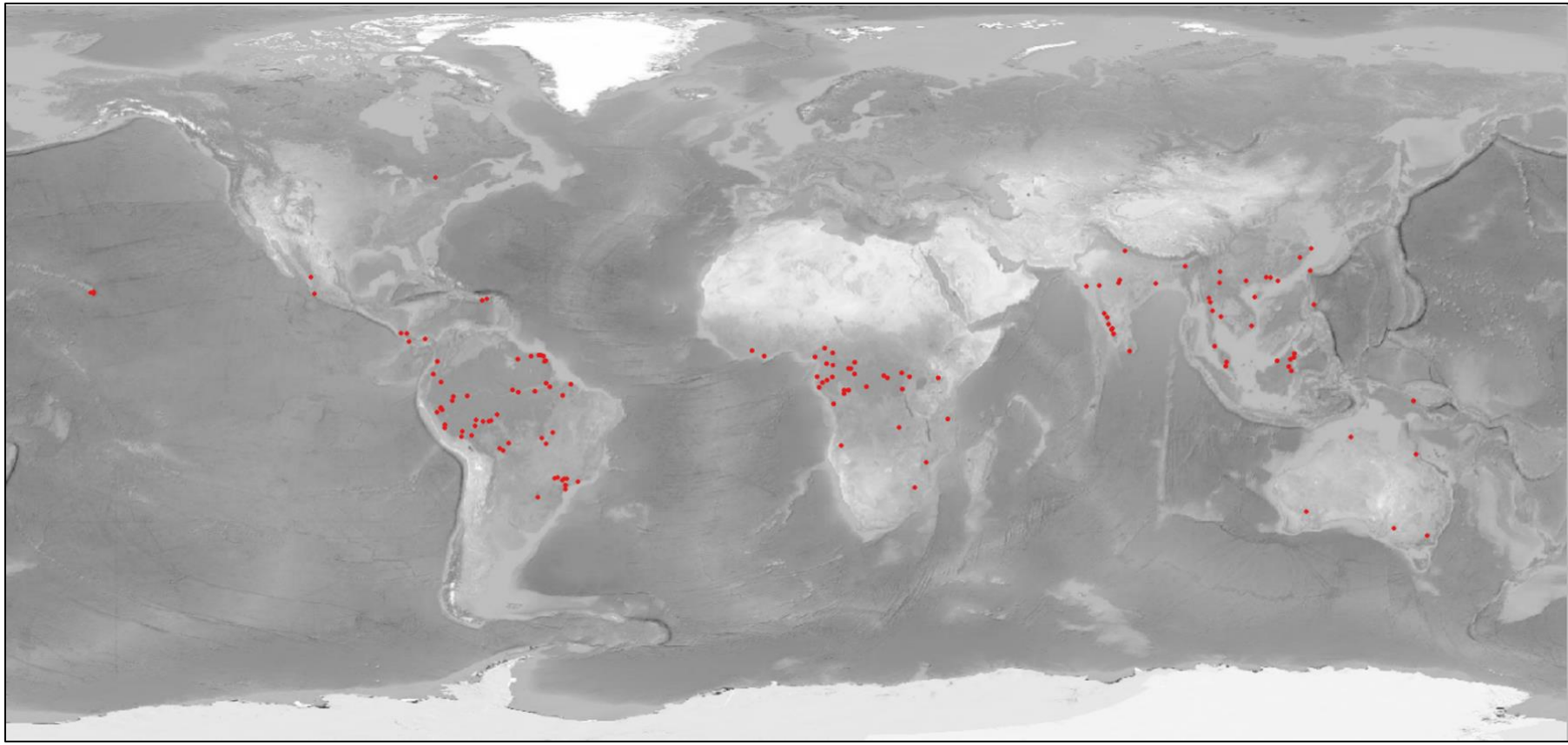
Next steps: Alignment with CEOS Chair (Norway)s' True Green priority

- Collaboration with regional agencies and partners

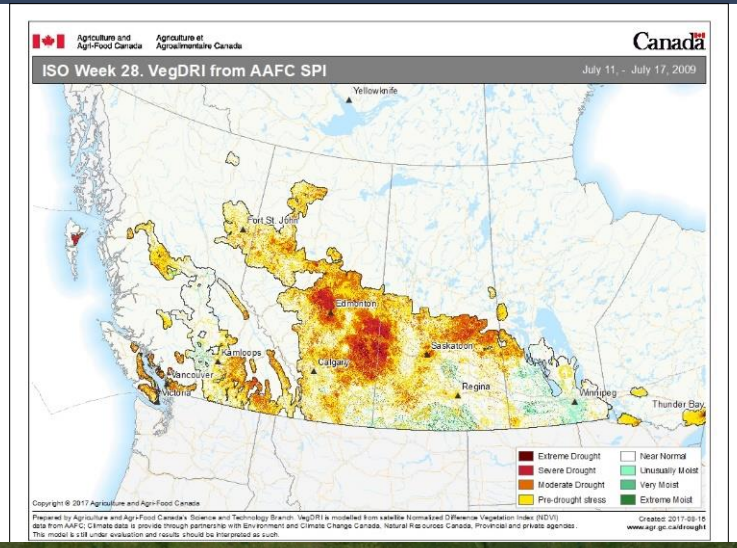
GEO-TREES – RCM Data Contribution

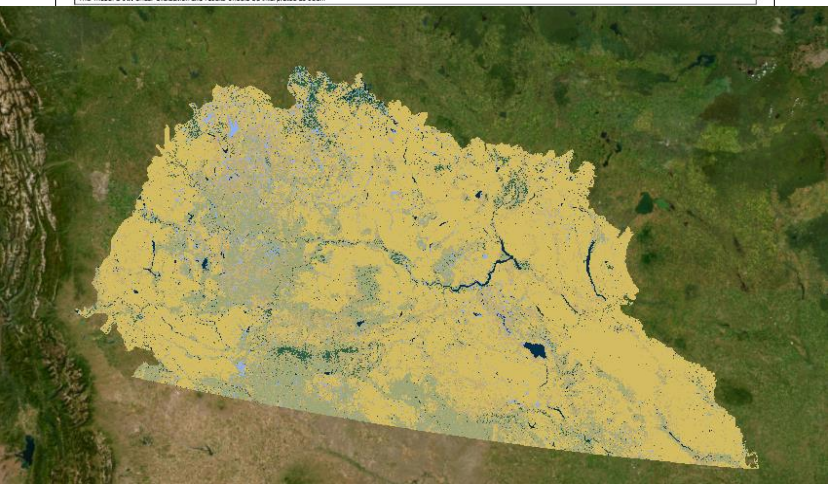
- Planned acquisitions over 142 sites
- RCM: CP 16m revisit 12 days
- RCM as acquired more than **1000 images** during **2024, 2025, 2026**
- New acquisitions planned in **2027**

RADARSAT Constellation Mission - Acquisitions



Canadian Contributions to Agricultural Land Monitoring

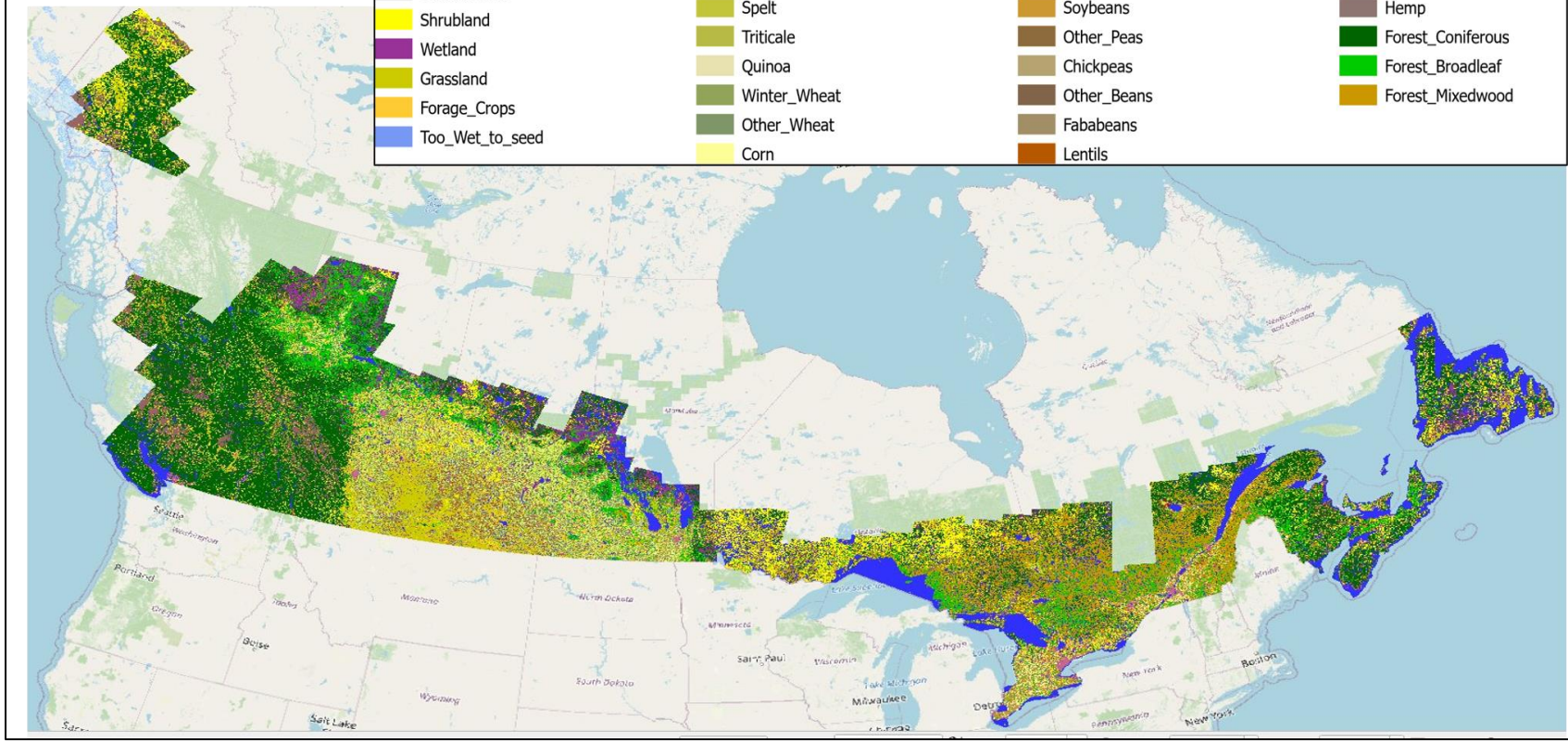




SAR for Grassland Inventory

Annual Crop Inventory





Agriculture and Agri-Food Canada

Conclusions

- R2TF dataset now includes 80k archives available including SE Asia
- Uptake remains challenging due to access conditions
- RCM acquisitions planned in 2027 targeting ESA GEO-TREES initiative sites
- Welcoming opportunities with CEOS Co-Chair (Norway)s' True Green priority and other regional agencies
- CSA continues to support AFOLU roadmap objectives

Thank you



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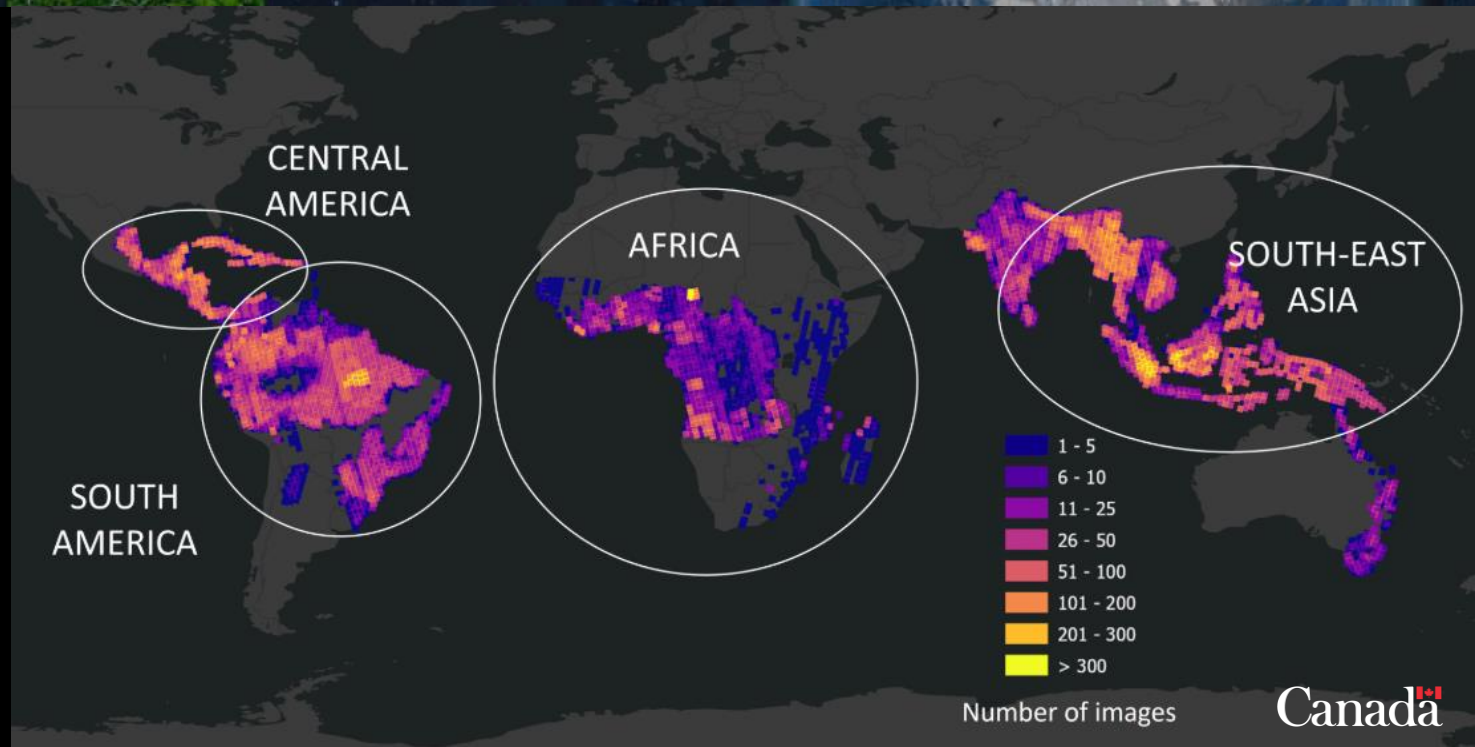
CEOS
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RADARSAT-2 Tropical Forests

Data Access Opportunity

5m resolution time series from 2013 to 2026
at no cost for science





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Canada