



EarthCARE 2026 Science and Validation workshop

8–12 June 2026 | Rhodes House | Oxford, UK

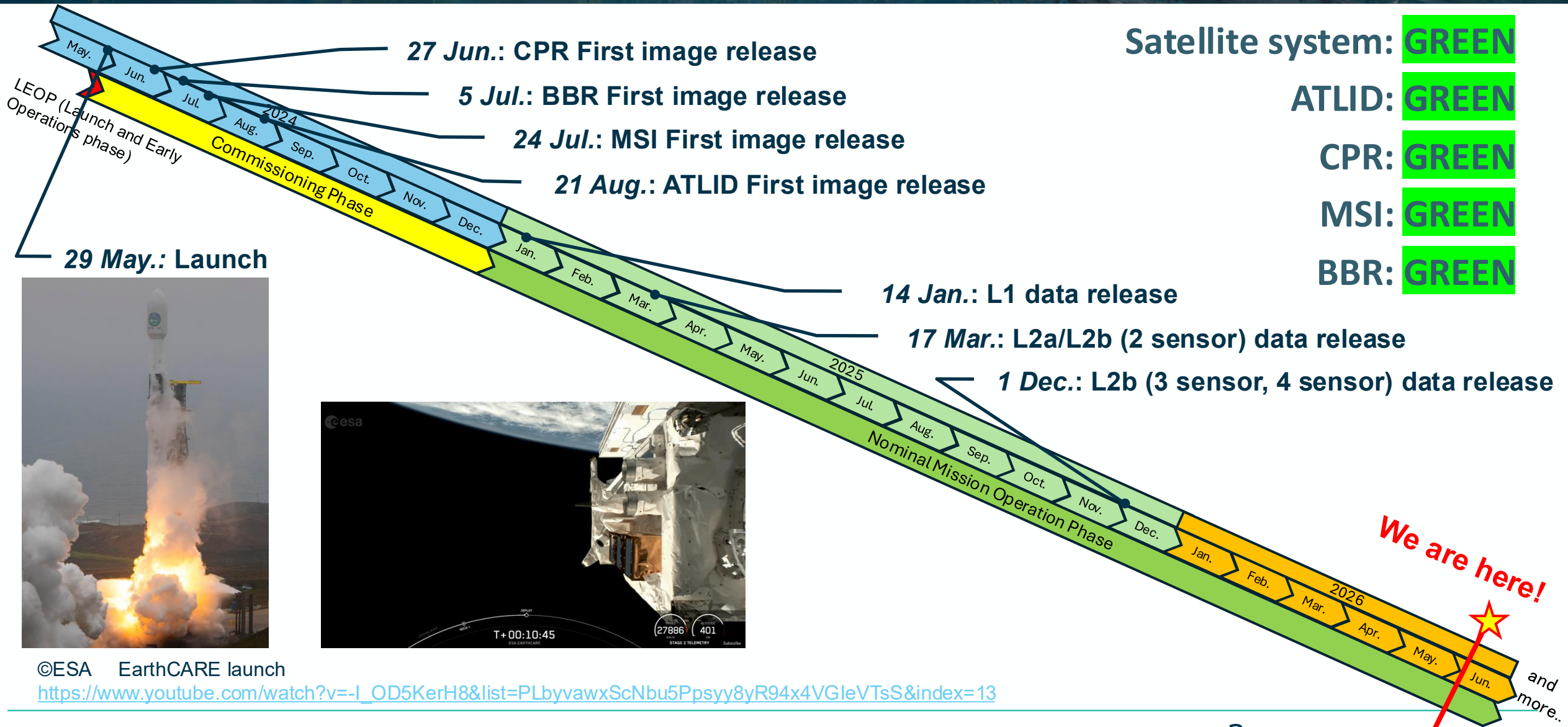
EarthCARE mission status and update

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JAXA & ESA Science Teams, CPR Project Team, EarthCARE Project, Flight Operations Segment, Payload and Data Ground Systems

03 | Mission status of HAKURYU

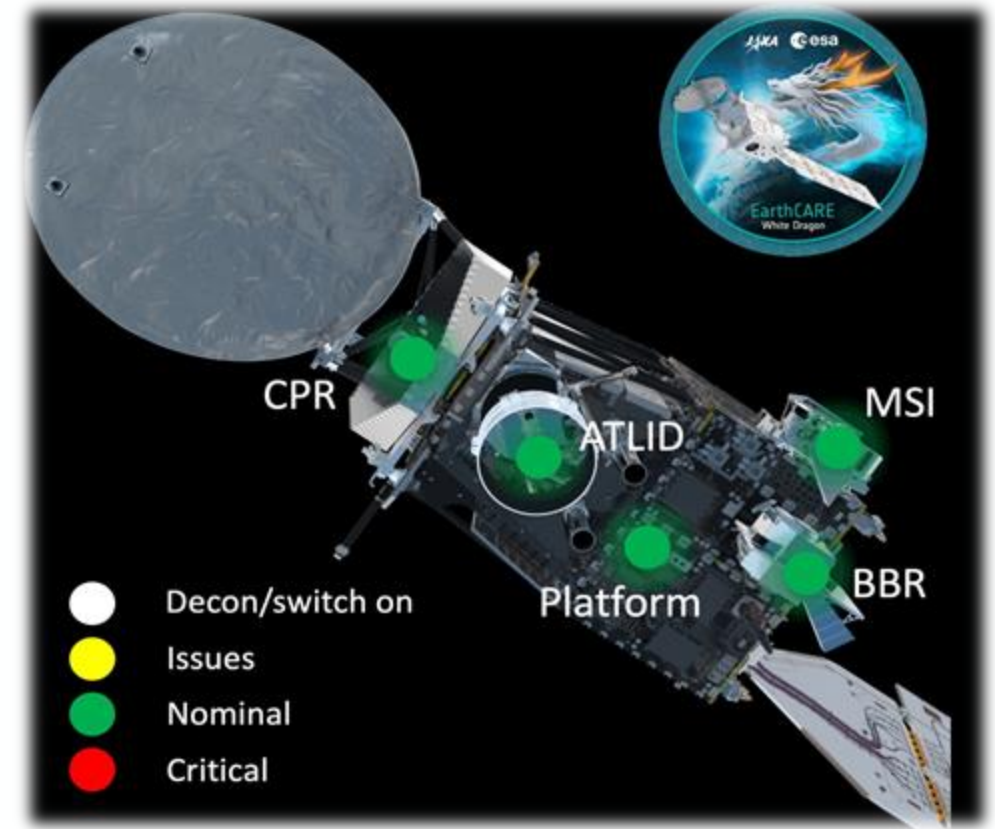
Mission Status of HAKURYU



Mission Status of HAKURYU



- Overall Mission Status is **nominal**
- Satellite in Orbit Performance (SIOP) review confirmed 10+ years lifetime estimate
- BBR CDM mechanism will reach end of its nominal lifetime by end 2028
- Evaluation of further reduction of BBR on-time is on-going
- Reprocessing campaign:
 - First L1 data reprocessing starting Q2/3
 - L2 processors update and then successive reprocessing of L2 in Q3/4

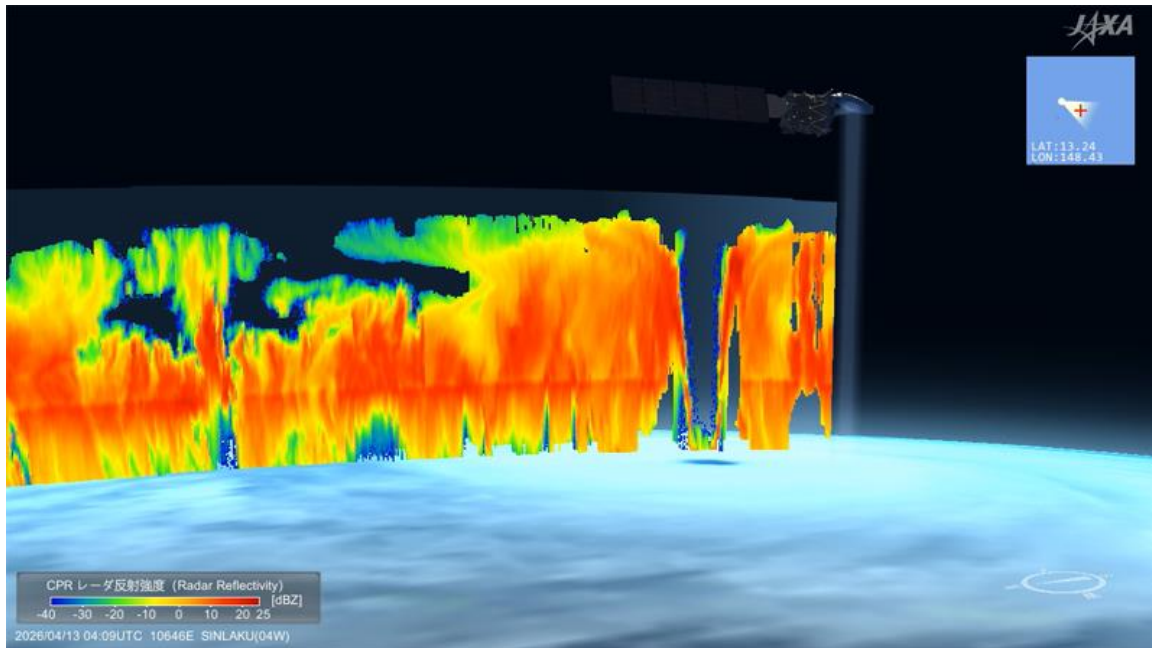




→ THE EUROPEAN SPACE AGENCY

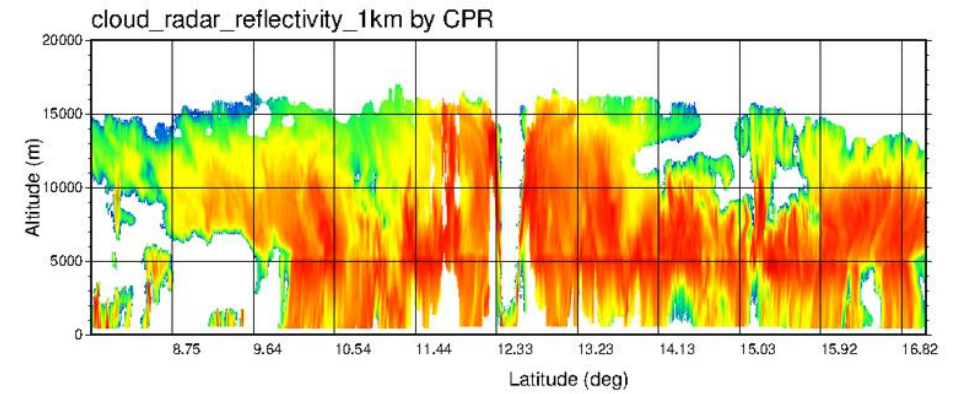
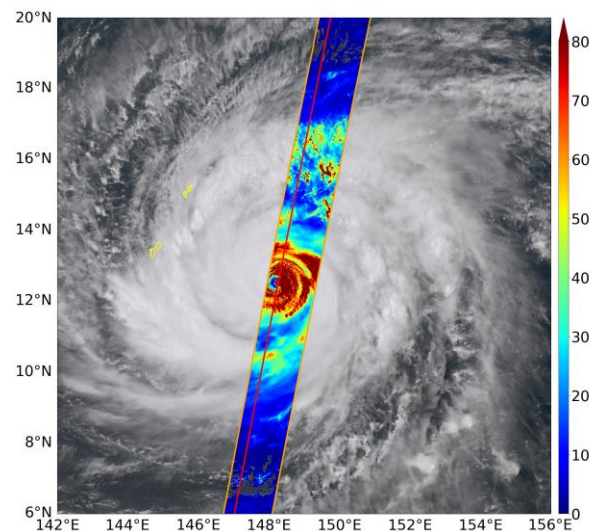
HOT topics

Hurricane Sinlaku “Eye” captured



“[Quick Report] EarthCARE Cap the Eye of Typhoon Sinlaku”

<https://earth.jaxa.jp/en/earthview/6/04/16/9212/index.html>



SINLAKU (04W) T2604

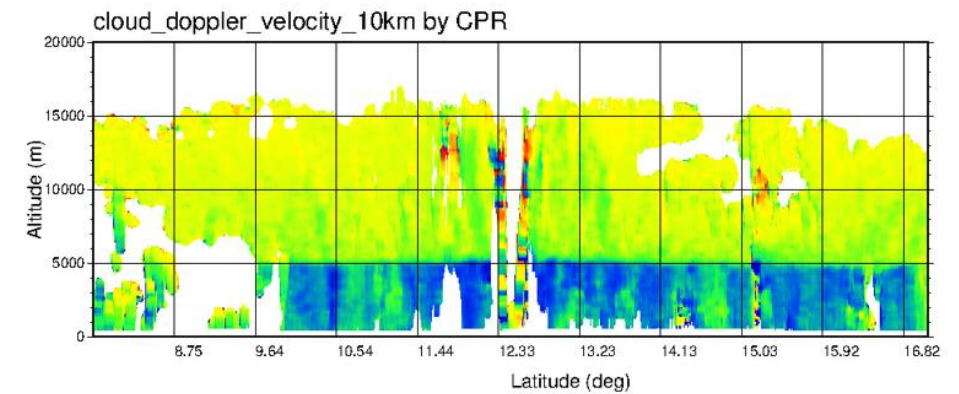
2026-04-13 04:09 (UTC)

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Radar Reflectivity by CPR

Orbit Frame 10646E

-40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 [dBZ]



SINLAKU (04W) T2604

2026-04-13 04:09 (UTC)

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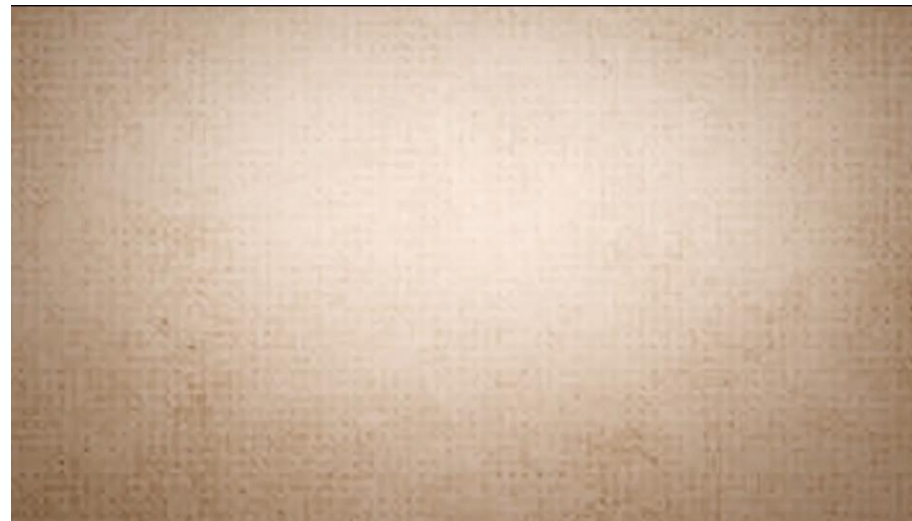
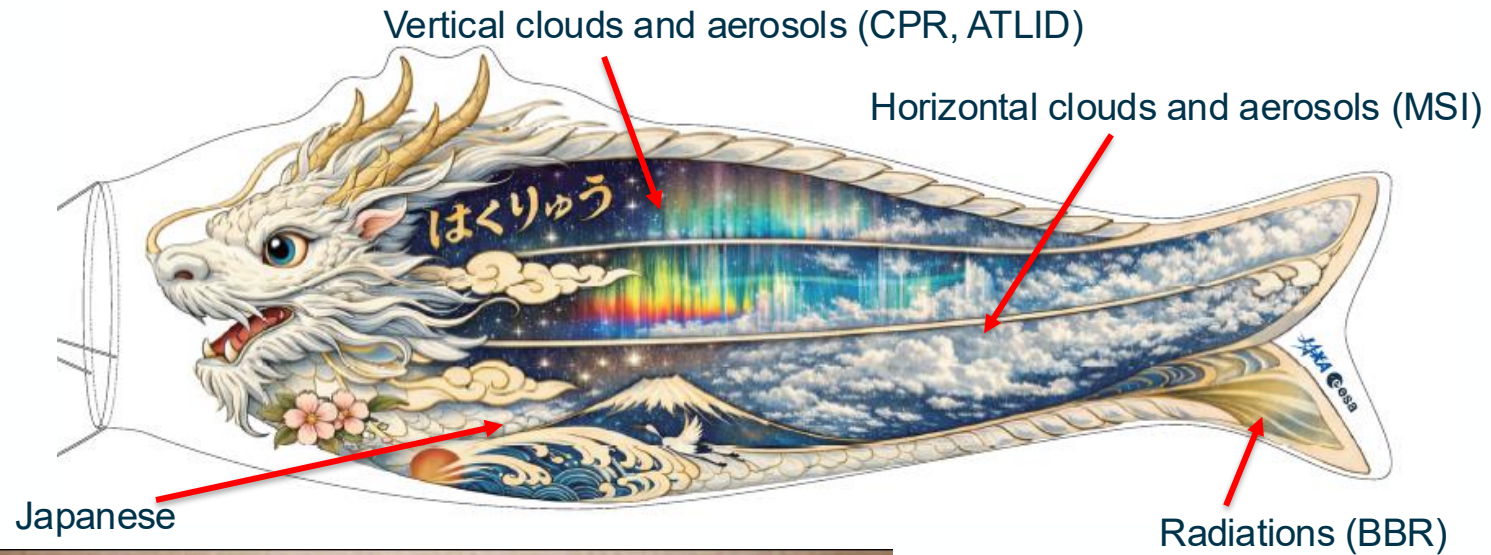
Doppler Velocity by CPR

Orbit Frame 10646E

-10 -8 -6 -4 -2 0 2 4 6 8 10 [m/s]



New Koinobori is now flying in Japan

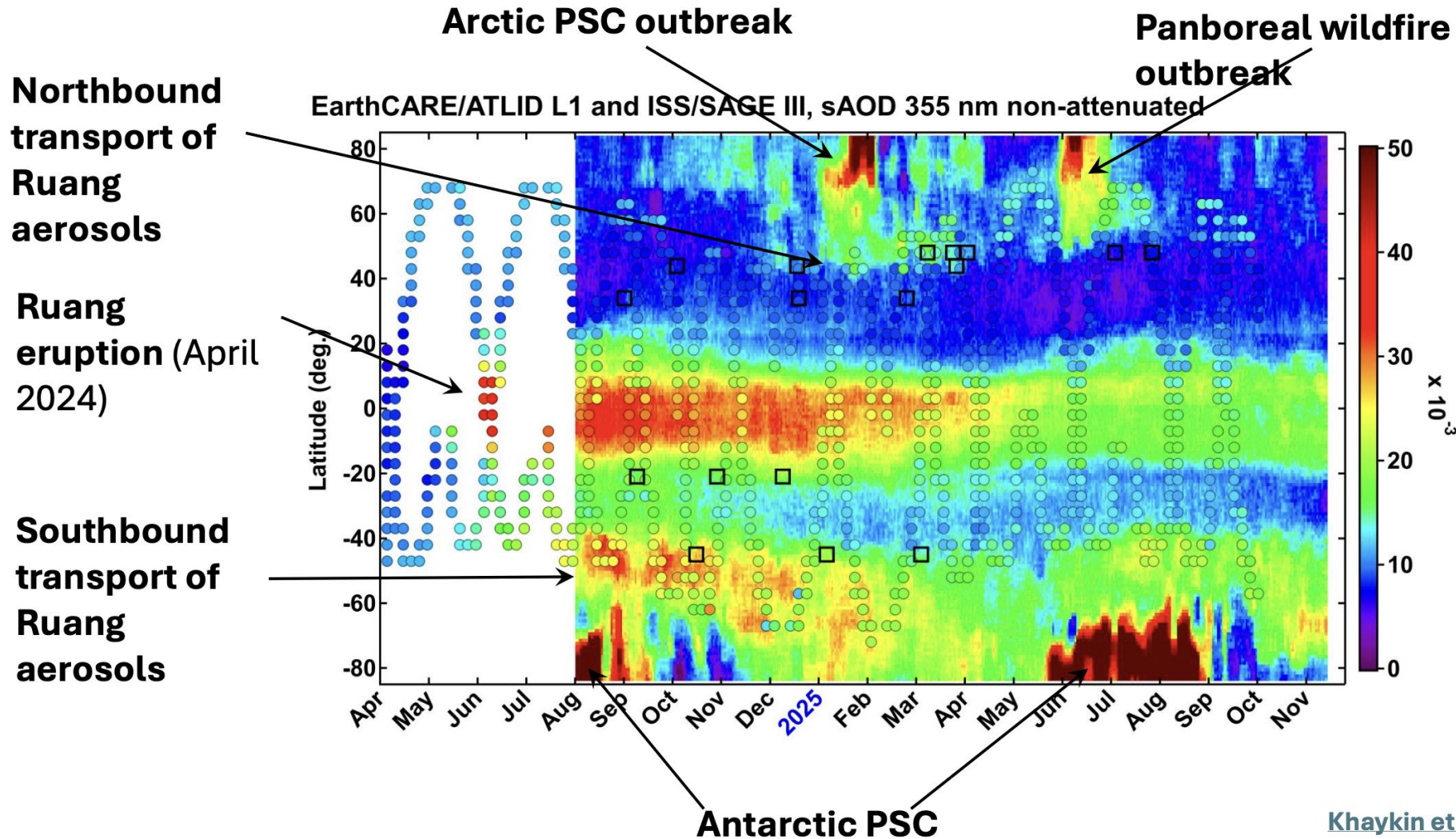


<https://youtu.be/F3cleev1Ci0?si=YiEPxYA1UnqfIr-2>

YouTube
"HAKURYU"
EarthCARE Science and
Validation Workshop
2025
Opening movie



Impact of Mount Ruang eruption on SAOD

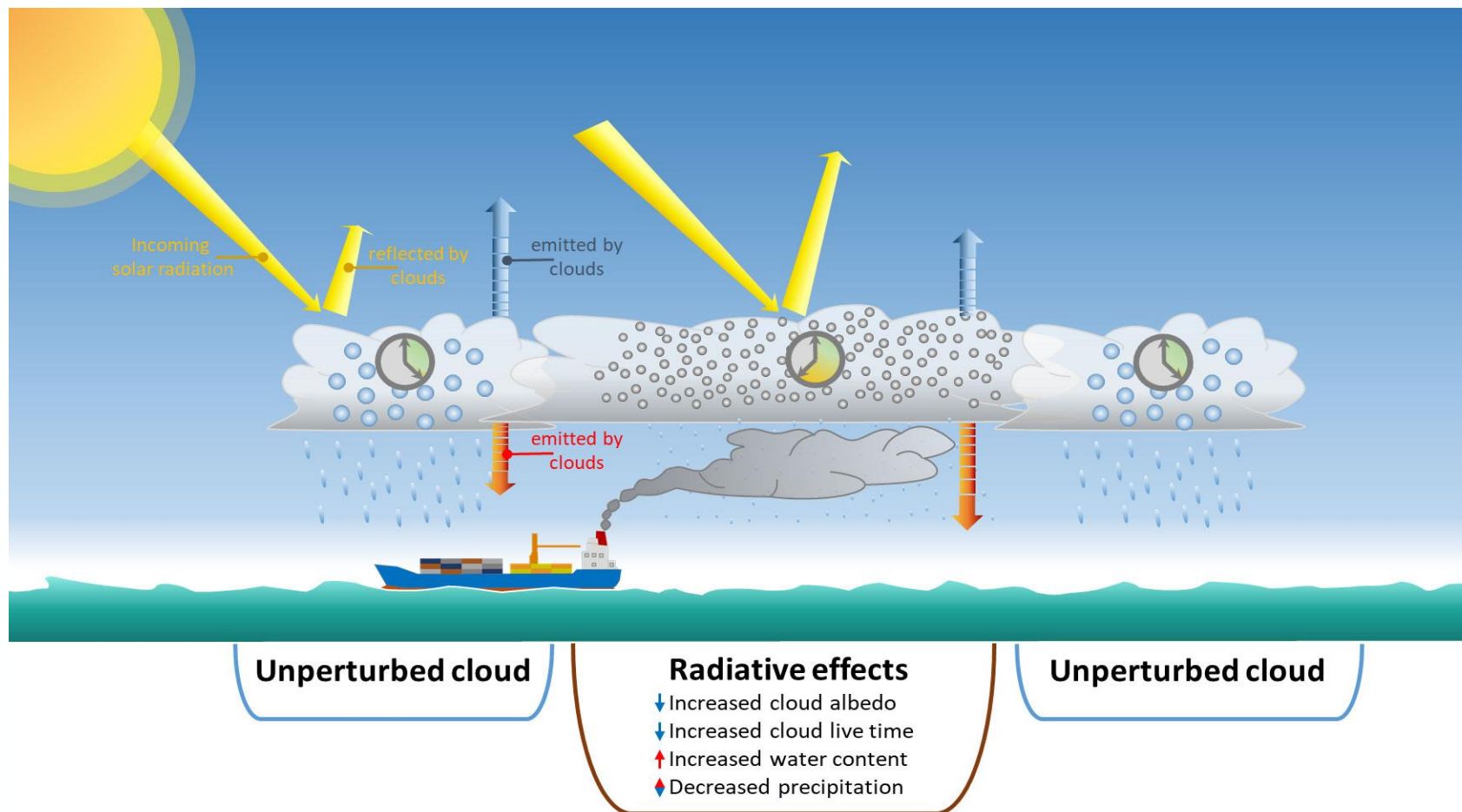


<https://earth.esa.int/eogateway/success-story/earthcare-reveals-global-impact-of-mount-ruang-eruption>

EarthCARE measures how ship emissions affect cloud



<https://earth.esa.int/eogateway/success-story/earthcare-tracks-how-ship-emissions-transform-clouds>

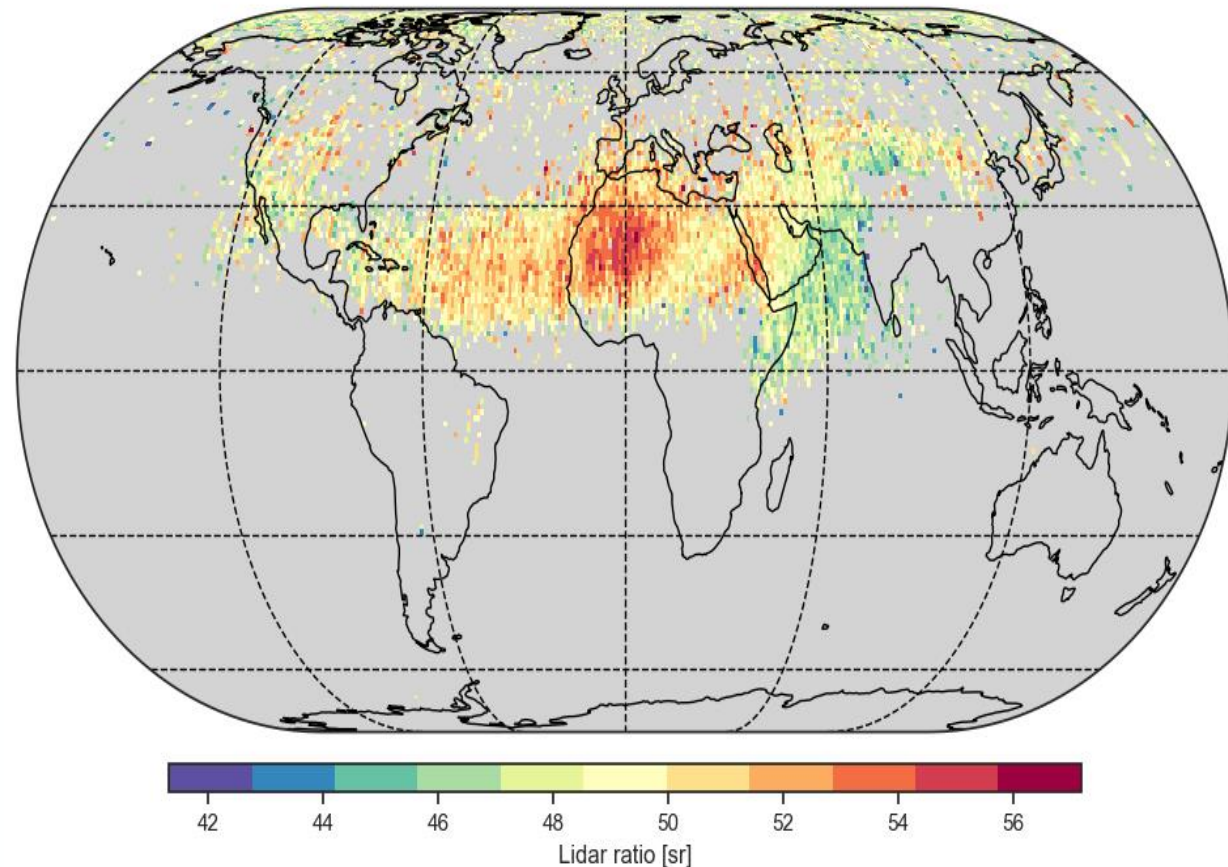


EarthCARE unveils the regional dependence of dust optical properties

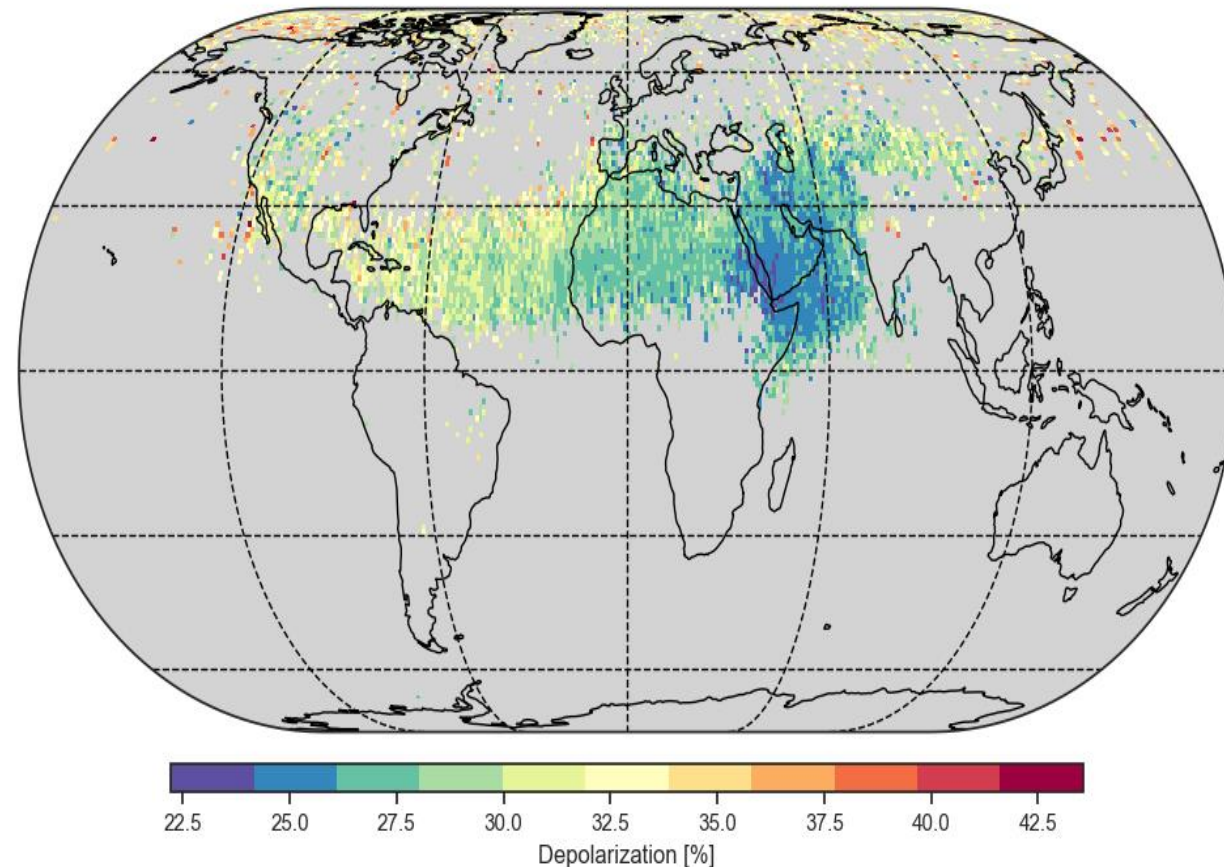


<https://earth.esa.int/eogateway/success-story/earthcare-unveils-the-regional-dependence-of-dust-optical-properties>

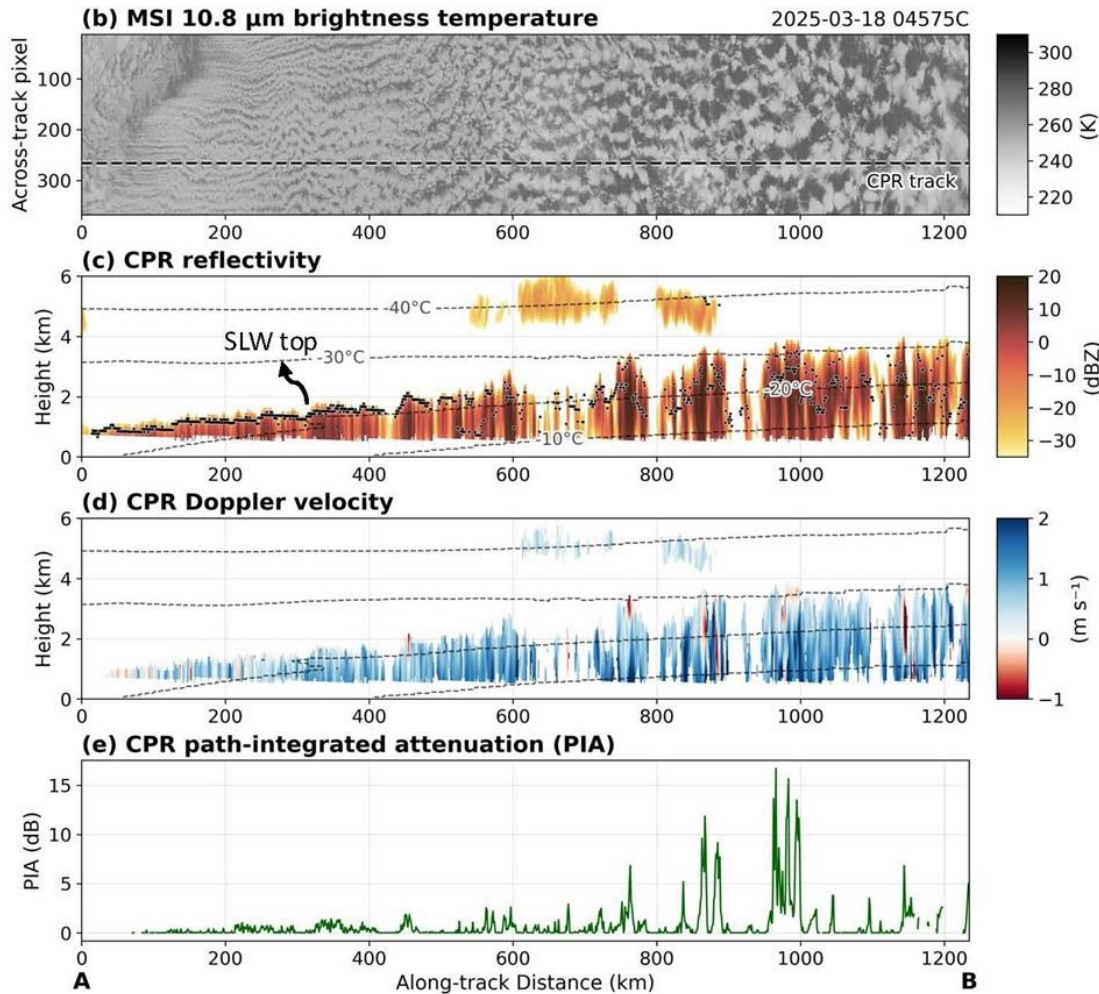
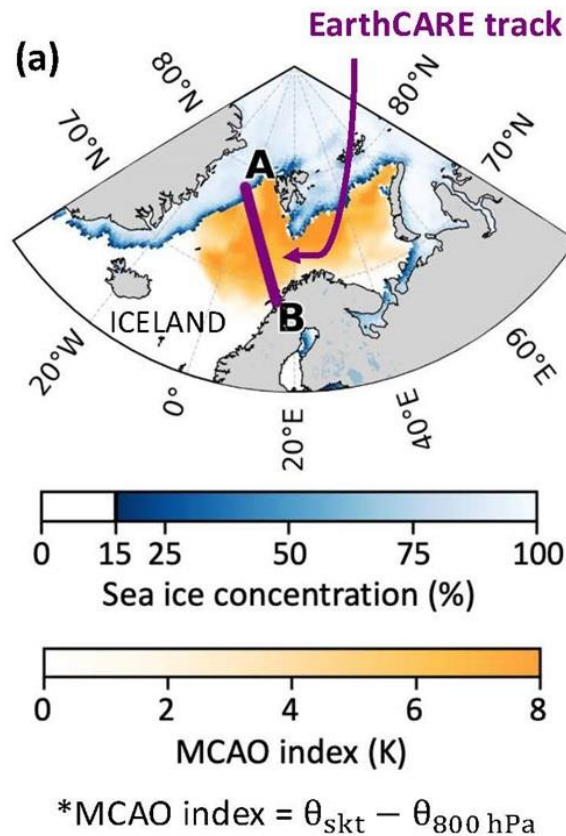
Dust
Summer (JJA) 2025, based on A-EBD & A-TC (low res.), where count>3000



Dust
Summer (JJA) 2025, based on A-EBD & A-TC (low res.), where count>3000



EarthCARE show the evolution of marine cold-air outbreak clouds (MCAO)



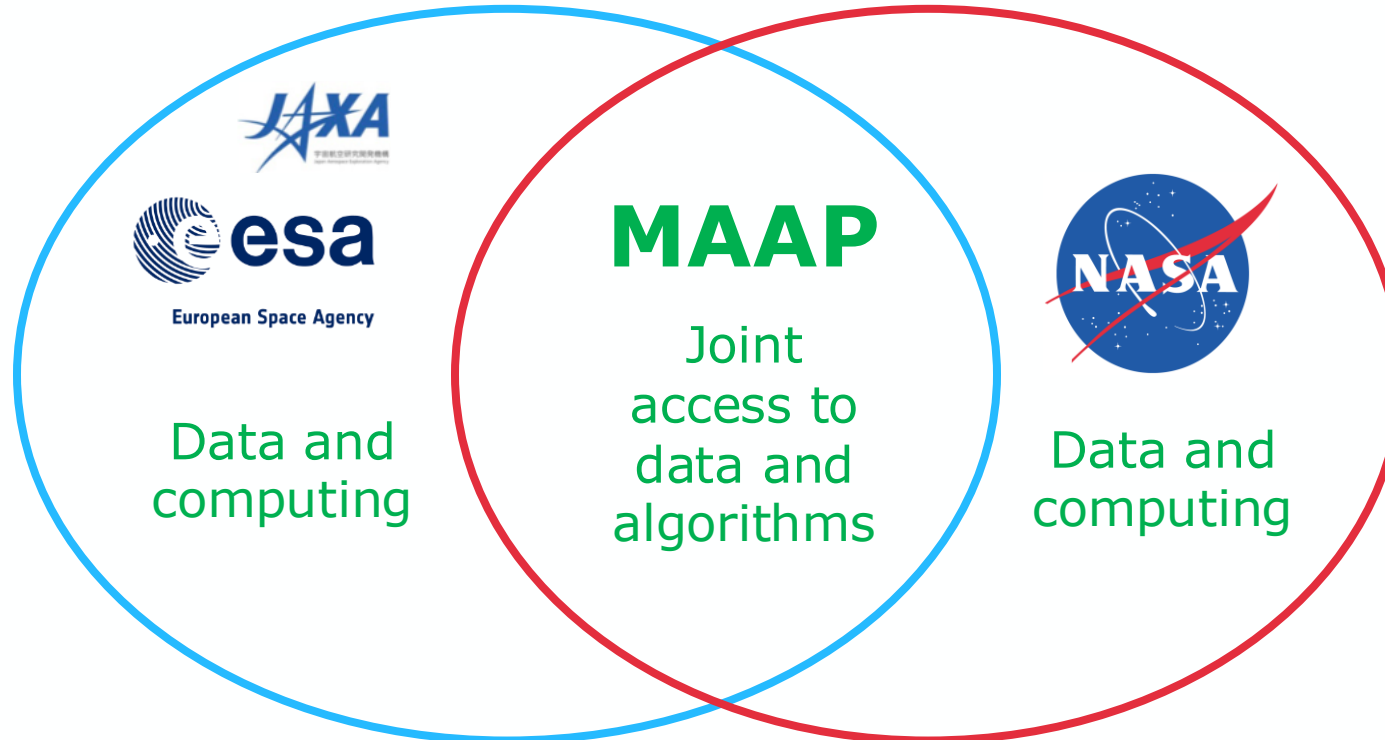
<https://earth.esa.int/eogateway/success-story/earthcare-captures-the-striking-evolution-of-marine-cold-air-outbreak-clouds>

Collaboration with NASA/AOS/PACE



MAAP Mission Algorithm and Analysis Platform IS OPEN!

<https://portal.maap.eo.esa.int>



*Up to date data and algorithms + Collaborative community
spanning ~10 years*

EarthCARE Mission Timeline

