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What

The Joint Aeolus Tropical Atlantic Campaign (JATAC) used ground-based, aircraft and balloon measurements to validate data provided by ESA's Aeolus satellite and to support related science activities on the interaction of wind, dust and clouds



Measurements were made in the Tropical Atlantic, with most campaign components centred around Cabo Verde

Why

JATAC supported a range of scientific objectives, including:

- · investigating the interaction of Saharan dust, atmospheric waves, tropical convection and radiation
- · improving our understanding of tropical storm and cyclone developments in the Tropical Atlantic
- · improving climate and numerical weather prediction models
- preparing for upcoming ESA Earth Explorer missions, such as EarthCARE

Who

While instigated by ESA, JATAC is a collaboration of research institutes and organisations from across Europe, working in partnership with NASA while receiving support from research centres in Cabo Verde

When

┍┼┼┼┼┼	┍┽┼┼┼┼┐
JUN-SEP	JUN-SEP
2021	2022

Measurements were made in June-September of 2021 and 2022

Data access

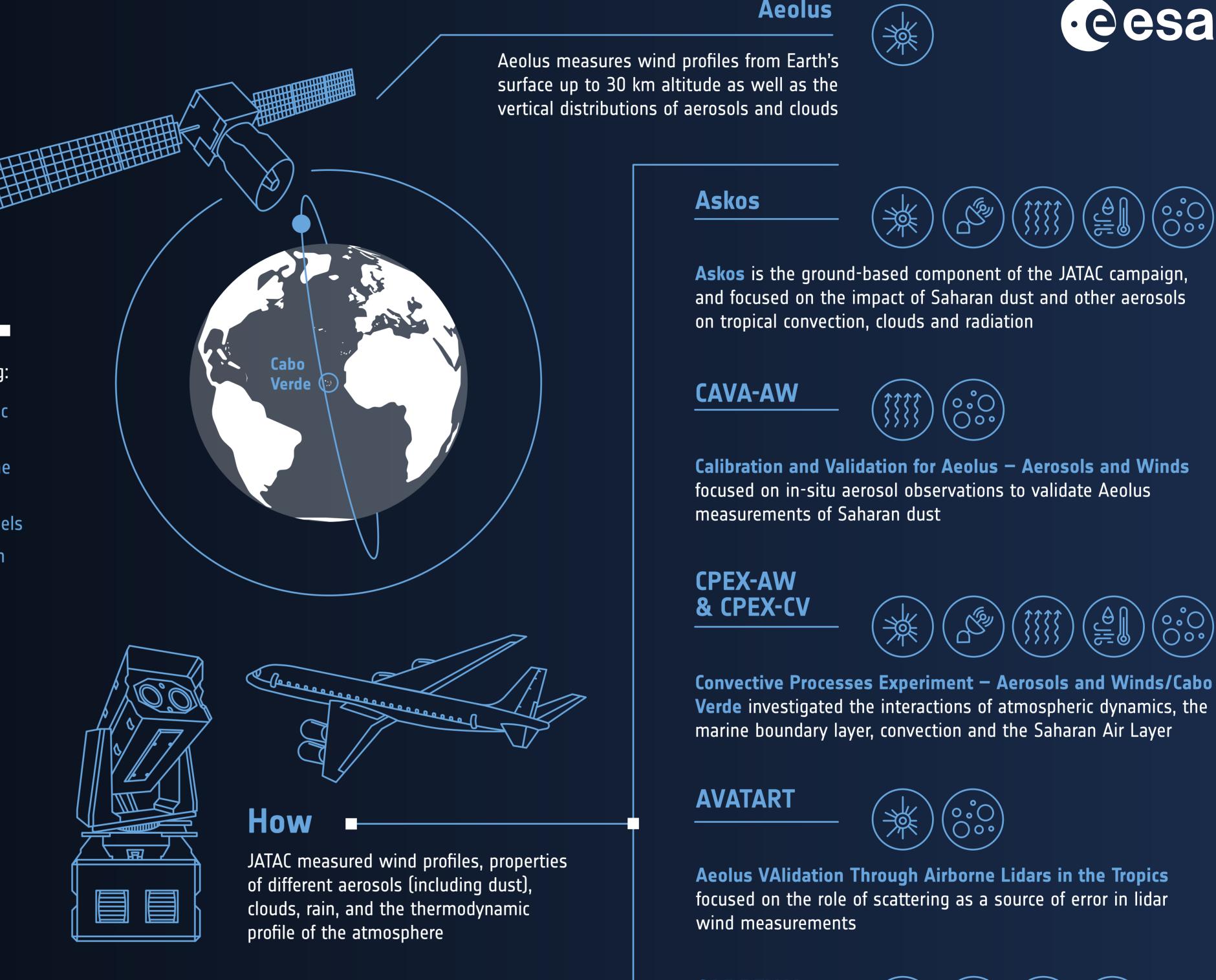
JATAC campaign data will be made available online to the user community in 2023











Aeolus data: earth.esa.int/eogateway/missions/aeolus/data







In-situ

Clouds, Atmospheric Dynamics and Dust Interactions in West Africa assessed the effect of dust aerosols on atmospheric dynamics, in both cloudy and clear conditions











