

1/ NOA participates in the BOW-TIE sub-campaign

The Research Vessel METEOR, Germany's third-largest research vessel, is being deployed in the ORCESTRA campaign for the BOW-TIE sub-campaign.

BOW-TIE aims to study how convective storms and their interaction with the ocean affect the Atlantic Intertropical Convergence Zone. Key measurements include precipitation, cloud & aerosol/humidity/wind profiles, wind, temperature, current, salinity.

The campaign also explores cloud-aerosol interactions in the ITCZ. For BOW-TIE operations, targeted measurements have been performed during 5 EarthCARE overpasses over the METEOR location.

2/ Highlights from DLR

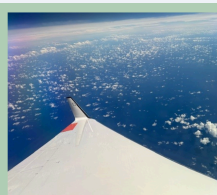
The team has just completed its first two parts of the PERCUSION campaign out of Sal (Cape Verde) and out of Barbados.

PERCUSION seeks to understand how airmass properties and mesoscale dynamical processes impact the ITCZ, and to investigate the organization of shallow and deep convection and their influence on the clouds' radiative effect. In this respect the following topics are of special interest: energy balance, Aerosol-cloud-precipitation interaction, and (thermo-)dynamical processes. Next to the scientific objective of PERCUSION the campaign also aims to validate EarthCARE and thus to guide the use of its data.

During the first two parts of PERCUSION 21 EarthCARE underpasses in various aerosol and cloud regimes have been conducted. After a break validation flights will continue out of Oberpfaffenhofen (Germany) in November.

For more info:

- an overview of the flights [here](#)
- an overview of BOW-TIE [here](#)
- and an overview of PERCUSION [here](#)



Silke Gross (DLR) in the field with the aircraft.



Peristera Paschou (NOA) aboard the METEOR German research vessel.

Upcoming events



ERCA school, 19-31 January 2025 in Grenoble, France

- Application by 13 October: www.erca-school.eu



CERTAINTY annual meeting, 11-14 February 2025 in Grenoble, France

- Further details will follow in due course

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