Seminar on Physics and Chemistry of the Atmosphere Institute of Environmental Physics (IUP), Univ. Bremen

Date: 10-Jan-2024, 14:15

Place: Building NW1, Room H1

Chasing the Atlantic ITCZ with the Maria S. Merian

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During the Atlantic References and Convection (ARC) ship campaign with the research vessel Maria S. Merian, we sampled atmospheric and oceanic data with special focus on the Intertropical Convergence Zone (ITCZ) which we completely crossed three times. These ITCZ profiles can be used to improve our understanding of the structure of the ITCZ. To make best use of the observations from ship campaigns, we present a standardised way of processing the data to facilitate working with data from different instruments and different campaigns. This is meant to be a blueprint for future and past ship campaigns. In the second part, this approach will be transferred to the instruments from the Helmholtz innovation platform Shaping an Ocean Of Possibilities for science-industry collaboration (SOOP). Within SOOP, we develop an air monitoring box for commercial ships to improve the data coverage over the oceans by including more platforms.