

# ACAM Working Group 3 – Field Campaigns

## Co-Leads:

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- Hans Schlager (DLR - Institute of Atmospheric Physics)

## Goals

- to collect information on ACAM-related field activities
- to set up a platform for information exchange amongst ACAM-partners and other scientists interested in ACAM-related field campaigns
- to develop ideas and concepts for future field campaigns
- to promote the coordination of different field activities

## Status

- WG includes currently 38 members
- Compilation of ACAM-related field activities (on-going)
- WG3 Website

# Recent & planned field activities

- **Aircraft campaigns** (StratoClim, Emerge, Monsoon, OMO, Deepwave, ESMVal, CARIBIC)
- **Balloon soundings** (SWOP China, BATAL India, StratoClim India)
- **Ship measurements** (Sonne research vessel in Golf of Bengal: BIOCAT, OASIS)
- **Ground-based measurements** (ACAM countries)

## Topics of airborne measurements

- **Large-scale ASM impact** (outflow from anticyclone, transport into stratosphere)
- **TTL and ATAL sampling** (chemistry, aerosol formation and properties)
- **Convection probing** (aerosol pollution-cloud interaction, cloud  $\mu$ -physics, particle formation in/out of clouds, convective outflow, wet removal of gases and particles, LNO<sub>x</sub> )
- **Sampling of TP region** (cirrus & sub-visible cirrus water vapor, NAT-type layers)

# Information on ACAM-related field activities

- STRATOCLIM, Geophysica + balloons (Rolf)
- G5 proposal (Laura)
- BATAL (Duncan)
- SWOP (Jianchun)