



**AMPAC-Net workshop
16.-18.01.2023
at Finnish Meteorological Institute
Erik Palmenin aukio 1, Helsinki, Finland**

The Arctic Methane and Permafrost challenge (AMPAC) is a transatlantic initiative by NASA and ESA. It brings together a wide range of activities from Europe as well as North America. The ESA funded AMPAC-Net project facilitates networking activities such as workshops to support the initiative (<https://www.ampac-net.info/>).

The workshop targets the discussion of future research priorities for all aspects of methane in the Arctic, including observations and modelling. A series of high level publications is expected as the outcome of the workshop.

For instructions how to find FMI / Dynamicum-building, please see the link below. Note that a new and big building is currently being built on western side of FMI building on Pietari Kalmin katu. This is not shown on the map. Link: <https://en.ilmatieteenlaitos.fi/how-to-find-dynamicum>

Monday: Status update of AMPAC activities

13:00 -13:15 Welcome and Overview AMPAC (Dirk Schüttemayer)

13:15 – 14:15

- ESA AMPAC-Net (Annett Bartsch)
- ESA MethaneCAMP (Johanna Tamminen)
- NASA ABoVE (Charles Miller)
- FMI activities (Jouni Pulliainen)

14:15- 15:00

- Round the table participant introduction/interests

15:00 - 15:30 Coffee & Posters

15:30 – 17:30 Working group introductions (observations, model linkage, future missions) and keynotes for WG topics

- Observations (*Hartmut Bösch, Mathias Goeckede, Annett Bartsch*)
- Model linkage (*Jennifer Watts and Sander Houweling*)
- Future missions (including COMET) (*Chip Miller and Andreas Fix*)

17:30 Ice breaker

Tuesday – Working group discussions and benchmarking:

9:00 -9:30 - summary from keynotes Monday and breakout prep

9:30-10:30 1st breakout round WG gap analyses

10:30 - 11:00 Coffee & Posters

11:00-12:00 2nd breakout round WG gap analyses (people changing groups)

12:00 - 13:30 Lunch break

13:30-14:00 – Wetland upscaling requirements keynote (*Mckenzie Kuhn on BAWLD*); Benchmarking wetlands, what datasets are available (review of catalog – Annett Bartsch and AWI).

14:00- 14:30 – Methane concentration keynote (*Hannakaisa Lindqvist*),
Benchmarking methane concentration, what datasets are available (review of
catalog – Johanna Tamminen and AWI).

14:30 - 15:00 Coffee & Posters

15:00 -17:00 Breakouts benchmarking (2 rounds, 1h)

17:00 -17:30 Reporting from breakouts

Wednesday – Benchmarking, Bottom-Up & Top-Down (BUTD), and publication planning

9:00-9:30 BUTD key note

- RECCAP2 Permafrost (Gustaf Hugelius)

9:30-10:30 BUTD breakout 1

10:30 - 11:00 Coffee & Posters

11:00-12:00 BUTD breakout 2

12:00 - 13:30 Lunch break

13:30-14:00 Reporting from BUTD breakouts

14:00-15:00 Discussion of required activities, publication plans

15:00 - 15:30 Coffee & Posters

15:30-17:00 Discussion of required activities, publication plans cont

17:00-17:30 Wrap up