

MOSAiC

The International Arctic
Drift Expedition



IMPLEMENTATION WORKSHOP
St. Petersburg, Arctic and Antarctic Research Institute of Roshydromet
November 13th - 16th, 2017

Agenda

13 November 2017: Monday

1) Overview and status presentations:

10:00 -11:15 (each talk 10 minutes, 20 minutes discussion after all talks)

- Welcoming speech: A. Makarov/ (5 minutes)
- MOSAiC status overview: M. Rex/A. Sommerfeld
- Observations Atmosphere: M. Shupe/M. Rex
- Observations Sea ice: D. Perovich/M. Nicolaus
- Observations Ocean: C. Provost
- Observations BGC: E. Damm/B. Loose

11:15 -11:30 Coffee break

11:30 – 12:30 (each talk 10 minutes, 20 minutes discussion after all talks)

- Observations Ecosystem: A. Fong
- Remote sensing: G. Spreen
- Aircraft observations: M. Wendisch/A. Herber
- Chinese ice station and contribution to MOSAiC: Chen Dake

12:30 – 13:30 Lunch time

2) Modelling Hierarchy and data assimilation:

13:30 -15:15 (each talk 12 minutes, 3 minutes questions after each talk, 30 minutes discussion after all talks)

- Operational sea ice and weather forecasts: O. Folomeev/ H. Yamaguchi
- Large-scale eddy simulations: M. Shupe/K. Dethloff
- Single column models: G. Svensson/F. Kauker
- Regional modeling: A. Rinke/W. Maslowski

15:15 – 15:30 Coffee break

15:30 -17:15: (each talk 12 minutes, 3 minutes questions after each talk)

- Data assimilation in regional atmospheric models: M. Mueller
- Data assimilation in regional BGC models: T. Wakamatsu/A. Samuelson
- Data assimilation in global models: J. Inoue
- Arctic reanalysis: J. Inoue
- Links between YOPP and MOSAiC: G. Svensson

18:00 – 20:00 Conference dinner

14 November: Tuesday

3) Overview and status of MOSAiC task groups:

10:00 -11:30 (each talk 10 minutes, 5 minutes questions after each talk)

- Data strategy and policy: S. Frickenhaus/S. Pfeifferberger
- RV Polarstern : M. Nicolaus
- Central ice floe: M. Nicolaus
- UAV: G. De Boer
- Helicopters: G. Birnbaum
- Tethered ballons: M. Maturilli

11:30 – 11:45 Coffee break

11:45 -12:45: (each talk 10 minutes, 5 minutes questions after each talk)

- Meteorological Mast und eddy-covariance measurements: O. Persson
- Buoys: Ch. Provost
- ROV: M. Nicolaus
- CTE, nets, ice hole: A. Fong

12:45 – 13:45 Lunch time

4) General plenum: (lead by M. Rex) 13:45 – 15:15

- Overview of financed projects: M. Rex
- Overview of submitted proposals: M. Rex
- Overview of MOSAiC governance structure: M. Rex
- (AC)^{A3}: M. Wendisch

15:15 – 15:30 Coffee break

5) Parallel breakout sessions: 15:30 - 18.00

- Atmosphere (lead by M. Shupe/M. Rex)
- Sea ice (lead by D. Perovich/M. Nicolaus)
- Ocean (lead by Ch. Provost/B. Rabe)
- BGC (lead by B. Loose/E. Damm)
- Ecosystem (lead by A. Fong/A. Waite)

Questions to be answered:

- List of used instruments and responsible lead institution
- List of measured parameters (spatial, temporal) over the 4 seasons
- Exploited parameters for model applications
- Campaign white book:
 - a) Time schedule for measurements e.g. weekly, monthly, seasonal
 - b) Coordinated measurements in all subsystems for crosscutting events, e. g. front passages, arctic haze, blossom bloom, ...

15 November, Wednesday

6) Plenum discussions about breakout sessions: (lead by M. Rex)

10:00 – 11:30

- Plenum Intro M. Rex
- Presentation and discussion of breakout results (each team 30 minutes)
 - Atmosphere: M. Shupe/M. Rex
 - Sea Ice: D. Perovich/M. Nicolaus
 - Ocean: Ch. Provost/B. Rabe

11:30 – 11:45 Coffee break

11:45 -12:45

- BGC: B. Loose/E. Damm
- Ecosystem: A. Fong/A. Waite

12:45 – 13:45 Lunch time

7) Parallel breakout sessions: 13:45 -15:45

- Modelling: W. Maslowski/A. Rinke
- Remote sensing: G. Spreen/L. Kaleschke
- Aircraft observations: A. Herber/M. Wendisch
- Data policy (Data from ice station to ship, ship to AWI server, observations to Archive strategy): S. Frickenhaus/H. Pfeifferberger

15:45 -16:00 Coffee break

8) Plenum about breakout sessions: (lead by M. Rex) 16:00 – 18:00

- Plenum Intro: M. Rex
- Presentation and discussion of breakout results (each 25 minutes)
 - Modelling: Maslowski/A. Rinke
 - Remote sensing: G. Spreen/L. Kaleschke
 - Aircraft observations: A. Herber/M. Wendisch
 - Data policy: S. Frickenhaus/H. Pfeiffenberger

16 November Thursday

9) General plenum: (lead by M. Rex) 10:00 – 13:00

- Update Logistics: U. Nixdorf
- Schedule of refueling and staff exchange: V. Sokolov
- Polarstern layout: M. Nicolaus
- Polarstern helicopters: G. Birnbaum
- Central ice floe: M. Nicolaus

11:30 – 11:45 Coffee break

- Setup of distributed network
- Logistical needs and wish list for shipping company (heated tents, power lines, emergency tents at outer stations,..)
- Update the implementation Plan until December 1st 2017
 - will be published end of December
 - printed version
- Next workshops Spring 2018 Potsdam
 - May/June 2018 (need to fix dates)
 - Telegrafenberg, Potsdam, Germany
 - Registration fee