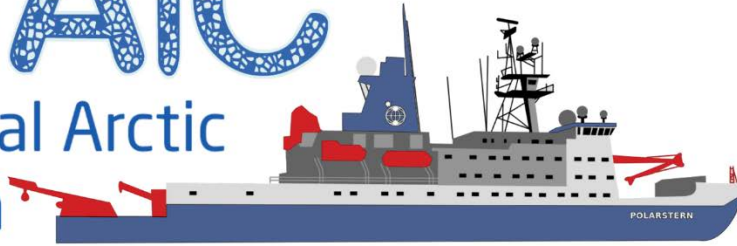


MOSAIC

The International Arctic Drift Expedition



MOSAIC IMPLEMENTATION WORKSHOP: St. Petersburg

November 13th – November 16th 2017

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: I. Frolov/A. Klepikov (5 minutes)
- MOSAIC status overview: M. Rex/A. Sommerfeld
- Observations Atmosphere: M. Shupe/M. Rex
- Observations Sea ice: D. Perovich
- 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 the 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 weather forecasts: O. Folomeev/D. Majewski
- Operational sea ice forecasts: V. Smolyanitski/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, 30 minutes discussion after all talks)

- Data assimilation in regional atmospheric models: M. Müller
- 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 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/H. Pfeiffenberger
- 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: Christine 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)³: 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 approx. 25 minutes)
 - Modelling: W. 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, A. Klepikov
- 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