

MOSAIC IMPLEMENTATION WORKSHOP: St. Petersburg: November 13th – November 16th 2017

13. November 2017: Monday

1) Overview and status presentations: (each talk 15 minutes, incl. questions)

10.00 - 11.15

- 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/M. Nicolaus
- Observations Ocean: C. Provost/B. Rabe
- Observations BGC: E. Damm/B. Loose

11.15 - 11.30 Coffee break

11.30 - 12.30

- Observations Ecosystem: A. Fong/R. Gradinger
- Remote sensing: G. Spreen/R. Kwok
- Aircraft observations: M. Wendisch/A. Herber
- Chinese ice station and scientific program on Xue Long: C. Danhong

12.30 - 13.15 Lunch time

2) Modelling Hierarchy and data assimilation: (each talk 20 minutes incl. questions)

13.00 - 14.55

- Operational weather forecasts: D. Kiktev /A. Frolov/D. Majewski
- Operational sea ice forecasts: V. Smolyanitski/H. Yamaguchi
- Large-scale eddy simulations: R. Neggers/M. Ovchinnikov
- Single column models: G. Svensson/M. Karcher
- Regional modeling: A. Rinke/W. Maslowski

14.55 - 15.10 Coffee break

15.10 - 17.00

- 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: P. Bauer
- Improved sub-grid scale parameterizations: I. Sandu/P. Bauer
- Links between YOPP and MOSAiC: H. Gössling

18.00 Conference dinner

14. November: Tuesday

3) Overview and status of MOSAiC task groups: (each talk 15 minutes incl. questions)

10.00 - 11.30

- Data strategy and policy: S. Frickenhaus/S. Pfeiffenberger
- Central ice floe: M. Nicolaus/D. Perovich
- UAV: G. De Boer
- Helicopters: G. Birnbaum
- Tethered ballons: M. Maturilli/H. Siebert
- Meteorological Mast und eddy-covariance measurements: O. Persson/M. Tjernström

11.30 - 11.45 *Coffee break*

11.45 - 12.45

- Buoys: B. Rabe
- ROV: M. Nicolaus
- AUV and gliders: C. Lee
- CTE, nets, ice hole: A. Fong/R. Gradinger

12.45 - 13.30 *Lunch time*

4) General plenum: (lead by M. Rex)

13.30-15.00

- Overview of financed projects: M. Rex
- Overview of submitted proposals: M. Rex
- Overview of MOSAiC governance structure: M. Rex
- Terrestrial and Coastal MOSAiC: H. Lantuit
- (AC)³: M. Wendisch

15.00 - 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 R. Gradinger/A. Fong)

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 R. Gradinger/A. Fong

12.45 – 13.30 *Lunch time*

7) Parallel breakout sessions:

13.30 – 15.30

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

15.30 – 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 30 minutes)
 - Modelling: W. Maslowski/A. Rinke
 - Remote sensing: R. Kwok/G. Spreen
 - Aircraft observations: A. Herber/M. Wendisch
 - Data policy: S. Frickenhaus

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, C. Danhong
- 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,..)
- Next workshops Spring 2018 Potsdam