



European Polar Low Working Group Oslo Polar Low Workshop

Monday 21 May 2012

0900-0905: Welcome remark from Norwegian Space Centre – T. Wahl

0905-0915: Welcome remark from European Polar Low Working Group – G. Heinemann

Overview

0915-1000: The influence of low-frequency variability on the life cycles of high-impact weather: simulations, predictions and observations. **M. Shapiro** (*solicited*).

Session 1 (Chair: Ø Saetra)

Observational studies

1000-1030: Aircraft Observations of a Polar Low over the Iceland Sea. **G. W. K. Moore**, I.A. Renfrew and G. N. Petersen

1030-1100 Coffee break

1100-1130: What did we learn about polar lows from the Andøya 2008 campaign? **J. E. Kristjánsson**

1130-1200: Intense Mesoscale Cyclones over the Asian Marginal Seas: Multisensor Study. **L. M. Mitnik**, I. A. Gurvich, M. Mitnik, M. Pichugin and E. V. Zabolotskikh

1200-1230: Using Satellite Passive Microwave Data to Study Arctic Polar lows. **E. V. Zabolotskikh**, E. Bobilev, V. Kudryavtsev and L. Mitnik

1230-1330 Lunch break

Session 2 (Chair: J. E. Kristjánsson)

Climatology of PLs

1330-1400: Polar lows over the Nordic and Labrador Seas: Synoptic circulation patterns and associations with North Atlantic Winter Weather Regimes. **P-E. Mallet**, C. Cloud, C. Cassou and G. Noer

1400-1430: Cyclone and mesocyclone tracking in the Antarctic region and southern polar ocean. L. Ebner and **G. Heinemann**

1430-1500 Tracking of polar lows using EPS. J. Kristiansen, D. Bjørge, G. Noer and **H. Luijting**

1500-1530: Coffee break

1530-1600: Arctic Cyclone Climatology: Present and Future. **T. Spengler** and A. P. Ballinger

1600-1630: Past and projected future changes of North Atlantic polar low frequency. **M Zahn** and H. von Storch

Session 3 (Chair: G. Heinemann)

Modelling/theory

1630-1700: Missing' polar lows enhance open-ocean deep convection in the Nordic Seas. A. Condron and **I. Renfrew**

1700-1730: On forward and reversed shear baroclinic flow for polar low developments. **T. E. Nordeng**

1730-1800: Short contributions (max. 15 min.)

The STARS project: A community data set of polar lows. **S. Eastwood**

Tuesday 22 May 2012

Modelling/theory (Chair: Ø. Sætra)

0900-0930: Angular momentum as the sole forcing of polar lows. **T. Linders**

0930-1000: Diabatic Rossby Vortex as a new paradigm for polar low development. **A. Terpstra**, R. W. Moore and T. Spengeler

1000-1030 Coffee break

1030-1100: Why was the 16-17 March 2008 Polar Low poorly predicted by operational models? **B. J. K. Engdahl**, J. E. Kristjánsson and T. Spengler

1100-1130: Numerical Study on a Polar Mesocyclone Development in a Shear Zone over the Japan Sea. **S. Watanabe**, H. Niino and W. Yanase

Session 4 – Related projects (Chair: G. Heinemann)

1130-1230: short contributions (max. 20 min.)

The IKAPOS experiment, Laptev Sea System project. **G. Heinemann**

The Iceland Sea Atmos-Ocean project. **I. Refrew**

HIMWARC - High Impact Weather in the Arctic. **T. Spengler**

1230-1330 Lunch break

1330-1400: short contributions (max. 20 min.)

The STARS project: SAR imaging of polar lows. **B. Furevik**

1400-1430: Statements, discussions

1430 End of the workshop