

ISSI International Team “Adding value to soil moisture information for climate studies”

Agenda, Meeting 1, 24-28 November 2014, Bern, Switzerland

Attendance (provisional): **William Lahoz** (NILU, Norway); **Richard de Jeu, Niels Andela*** (VU-Amsterdam, The Netherlands); Wouter Dorigo**, **Alexander Gruber*** (TU-Wien, Austria); **Martin Hirschi, Nadine Nicolai-Shaw*** (ETH, Switzerland); **Brian Barrett** (U. Cork, Ireland); **Phil Harris** (CEH UK); Laurent Bertino** (NERSC, Norway); Philippe Ciais** (LSCE, France); Jan Verbesselt** (U. Wageningen, The Netherlands); Eva Haas** (Geoville, Austria).

Bold, italics: coming to ISSI

*PhD student

**Skype or material provided to W. Lahoz

Themes: (i) Overview of International Team, including 4 questions to be addressed; (ii) Talks from each partner/group – Synergies from ISSI Team; (iii) Groups to address 4 questions, including reports; (iv) Summary and plans for next meetings.

Day 1 (24 November): Introduction and presentations from partners/groups

Arrival 9.00 – 9.30 am

9.30-9.45 am: Introduction to ISSI (S. Saliba)

9.45-10.10 am: Questions addressed by ISSI International Team (W. Lahoz):

Question 1. What is required to construct a soil moisture climatology fit for climate studies?

Question 2. How do changes in the hydrological cycle impact the Earth’s climate system?

Question 3. How can we add value to soil moisture information from satellite observations?

Question 4. How to compare quantitatively soil moisture retrieved from satellite with observed and modelled soil moisture?

Synergies from ISSI for each partner – suggested themes

10.10-10.30 am: NILU (W. Lahoz) – Land surface data assimilation (Q3, Q4)

10.30-11.00 am: Coffee break

11.00-11.20 am: VU Amsterdam (R. de Jeu) – soil moisture retrievals (Q3, Q4)

11.20-11.40 am: TU-Wien (W. Dorigo, *via skype*) – soil moisture climatologies (Q1, Q3, Q4)

11.40 am-12.00 noon: ETH (M. Hirschi) – hydrological cycle and climate (Q2)

12.00 noon– 1.40 pm: Lunch break

1.40-2.00 pm: U. Cork (B. Barrett) – Evaluation of soil moisture (Q1, Q4)

2.00-2.20 pm: CEH (P. Harris) – biomass observations (Q3)

2.20-2.40 pm: NERSC (L. Bertino, *via skype* – or W. Lahoz presents from material) – Data assimilation methods (Q3)

2.40-3.00 pm: LSCE (P. Ciais, *W. Lahoz presents from material*) – hydrological cycle and climate (Q2, Q3)

3.00-3.40 pm: Tea break

3.40-4.00 pm: U. Wageningen (J. Verbesselt, *via skype* – or W. Lahoz presents from material) – soil moisture retrievals and modelling (Q3, Q4)

4.00-4.20 pm: ESA CCI activities for Phase 2 (W. Lahoz) (Q1-Q4)

4.20-4.40 pm: Mini break

4.40-5.30 pm: Overview, preparation for day 2, split into groups for Q1-Q4, including discussion

5.30 pm: End of day 1, back to hotel and evening meal

Day 2 (25 November): Group discussions to address questions Q1-Q4

9.15 – 9.30 am: Introduction (W. Lahoz)

9.30-11.00 am: Split into Q1-Q4 groups (perhaps more Q1-Q2 and Q3-Q4), aim to bring together synergies identified on day 1, with aim of writing 1+ papers. Meetings within main room or side rooms (membership fluid)

11.00-11.30 am: Coffee break

11.30 am-12.30 pm: Continue group discussions

12.30 noon – 2.00 pm: lunch *E. Haas to participate via skype for session 2.00 – 5.00 pm*

2.00-3.30 pm: Continue group discussions

3.30-4.00 pm: Tea break

4.00-5.00 pm: Continue group discussions

5.00 pm: End of day 2, back to hotel and evening meal

Day 3 (26 November): Report from group discussions

9.15-9.30 am: Introduction (W. Lahoz)

Q1-Q4 reports – suggested speakers in brackets

9.30-10.00 am: Report on Q1 group activities (A. Gruber/B. Barrett: for TU-Wien/U. Cork/Geoville)

10.00-10.30 am: Report on Q2 activities (M. Hirschi: for ETH/LSCE)

10.30-11.00 am: Coffee break

11.00-11.30 am: Report on Q3 activities (W. Lahoz/P. Harris: for NILU/NERSC/CEH)

11.30 am-12.00 noon: Report on Q4 activities (R. de Jeu: for VU-Amsterdam/U. Wageningen)

12.00 noon – 1.30 pm: Lunch break

1.30-2.00 pm: Summary and activities associated with future ISSI meetings to prepare papers (W. Lahoz)

2.00-2.30 pm: Discussion

2.30-3.00 pm: Coffee break and end of meeting