SWOT SDT Agenda

Tuesday, January 14

8:00 Registration/breakfast

Session Chair: L-L.Fu

8:30 Overview of meeting objectives
8:45 Welcome (J. Kaye/NASA)
9:00 Program overview (J. Entin, S. Cherchali)
9:30 Project overview (P. Vaze, T. Lafon)

10:10 Break

10:40

Science program in preparation for the MDR

Oceanography – review of the baseline and threshold science objectives
Keynote – P. Klein, B. Qiu
Discussion (including splinter overviews)

12:10 Lunch
1:30 Session Chair: T. Pavelsky

*Hydrology* – quantification of hydrology science returns from the baseline and threshold missions.

Keynote – M. Durand, J-F Cretaux
Discussion (including splinter overviews)

3:00 *Presentation and discussion of mission performance and error budget*

Keynote - D. Esteban-Fernandez

3:30 Break

4:00 Discussion (facilitated by R. Morrow and J-F. Cretaux)

5:30 Adjourn

6:00 *Reception and working dinner*
Wednesday, January 15

Session Chair: J-F. Cretaux

8:30 *Phenomenology capability of KaRIn in hydrology*

• Tutorial review of radar phenomenology and BUSARD results. (R. Fjortoft)
• The potential of AltiKa to address SWOT phenomenology. (M. Haynes and D. Blumstein)
• Water classification sensitivity to land returns and system SNR. (B. Williams)
• AirSWOT phenomenology results and status summary. (E. Rodriguez, X. Wu)

10:00 **Break**

10:30 *AirSWOT results and plans* (E. Rodriguez)

• Hydrology results
• Oceanography results
• Instrument status
• Preliminary plans for the 2014 US validation campaign

12:30 **Lunch**
Session Chair: R. Morrow

2:00 Working group reports/discussion
- High-resolution data coverage (S. Biancamaria, Y. Chao, D. Biccard)
- Wet tropospheric correction (S. Brown, E. Obligis)
- Data products and mission interaction (P. Callahan)
- Applications (M. Srinivasan)

3:00 Splinter meetings (Refreshments served at 3:30)

Oceanography
3:00 Understanding the 2-D sub-mesoscale (P. Klein, B. Qiu)
4:15 High-frequency signals – tides, internal tides and waves (T. Farrar, B. Arbic, F. Arduin)

Hydrology
3:00 Floodplains (B. Sanders, A. Boone)
3:40 Assimilation of SWOT data into models (K. Andreadis, S. Biancamaria)
   - Hydraulic modeling
   - Large-scale hydrology
4:20 Anticipated impact of the newly-specified SNR on the core SWOT data products (L. Smith, H. Yesou)
5:00 Future AirSWOT experiments for cal/val and science (S. Calmant, T. Pavelsky)

5:30 Adjourn
Thursday, January 16

Session Chair: R. Morrow

8:30 Application program (M. Srinivasan)
Keynote -
• NASA Program Manager B. Doorn
• CNES Program Manager S. Cherchali
Discussion (20 minutes)

9:30 Simulator status and discussion (B. Chapron and K. Andreadis)
• SWOT oceanography and hydrology simulators: validation and applications (E. Peral)
• Impacts of layover: global simulation results. (K. Andreadis and D.K. Moller)
• The vegetation module for the SWOT simulator. (D. Blumstein)

10:30 Break

11:00 Algorithm Development and Cal/Val planning (E. Rodriguez)
• Algorithm Team (E. Rodriguez et al)

Project validation scope and plans
• Oceanography (E. Rodriguez)
• Hydrology (S. Calmant)

12:30 Lunch
Splinter meetings

Oceanography

2:00 Projecting fine-scale 2D SWOT observations horizontally and vertically (C. Ubelmann, B. Chapron, J. Le Sommer)

Hydrology

2:00 Computation of river discharge in the light of KaRIn performance (M. Durand, E. Martin)
2:45 Water cycle, from basin to continental scale (D. Lettenmaier, E. Martin)

Applications

2:00 Mission Applications Program overview (B. Doorn, M. Srinivasan, C. Peterson)
2:20 Draft SWOT Application Plan overview, Suggested pillars, Timeline of milestones, Discussion (M. Srinivasan, C. Peterson)
2:45 SDT member summaries

4:00 Summary, discussions, and wrap-up (L-L. Fu and science leads)

5:00 Adjourn
Summary and Discussions

• **Science**
  - Oceanography (R. Morrow/L-L Fu)
  - Hydrology (T. Pavelsky/J-F Cretaux)

• **Cal/Val working group**
  - AirSWOT (E. Rodriguez)
  - In-situ (S. Calmant)

• **Algorithm working group**
  - Tides (B. Arbic, R. Ray)
  - Floodplain topography (B. Sanders, A. Boone)
  - River discharge (M. Durand, E. Martin)

• **Data products** (P. Callahan)

• **Applications** (M. Srinivasan)

• **Next meeting**