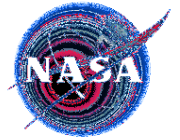


Algorithms Workshop Expectations

June 9, 2009



Algorithms Workshop At-a-Glance

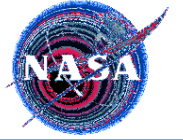


Day 1 (Tuesday June 09, 2009)

11:20	Level 1 Radiometer Discussion	Jeff Piepmeier
01:10	Level 1 Radar Discussion	Richard West
02:00	Level 3 40 km Soil Moisture One-slide presentations (5) Discussion	Peggy O'Neill et al.
03:15	Level 3 Hi-Res Soil Moisture One-slide presentations (6) Discussion	van Zyl et al.
04:15	Level 3 A/P Soil Moisture One-slide presentations (0) Discussion	Entekhabi et al. (Das)
05:15	Adjourn	



Algorithms Workshop At-a-Glance

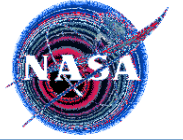


Day 2 (Wednesday June 10, 2009)

08:30	Level 3 Freeze/Thaw One-slide presentations (1) Discussion	McDonald et al.
09:30	Level 4 Soil Moisture one-slide presentations (0) Discussion	Reichle et al.
10:55	Level 4 Carbon One-slide presentations (0) Discussion	Kimball et al.
01:10	Action Items and Wrap Up	Moghaddam



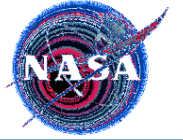
Algorithms Workshop Expectations (1)



- Critical community assessment of the SMAP Algorithm Theoretical Basis Documents (ATBDs)
 - Review current ATBDs:
 - Will the algorithm outputs meet mission requirements?
 - Are the calibration requirements properly in place?
 - Are the required ancillary data available?
 - Has the validity of these algorithms been demonstrated through enough synthetic or field data?
 - Assess current vs. alternate algorithms
 - Are any existing good algorithms missing?
 - Have these alternate algorithms been properly validated?
 - Identify areas requiring further research and development
 - Are there obvious gaps, where good algorithms don't exist and therefore need to be developed?
 - Any missing ancillary data?



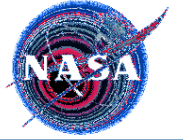
Algorithms Workshop Expectations (2)



- Prioritize Algorithm Research and Development Needs
 - Algorithm attributes
 - Accuracy
 - Efficiency
 - Versatility
 - Need for ancillary data
 - Validation
 - Numerical
 - Field experiments
 - Costs
 - What resources are available?
 - How to optimize resource use?
 - How much time are you willing to spend?



Algorithms Workshop Expectations (3)



- Output of Algorithms Workshop
 - Report
 - Community consensus on algorithms status
 - Prioritized list of research and development needs
 - Action items
- Prelude to Cal/Val workshop to follow immediately