



Assessment of SMAP Passive-Only Soil Moisture Data (Beta Version)

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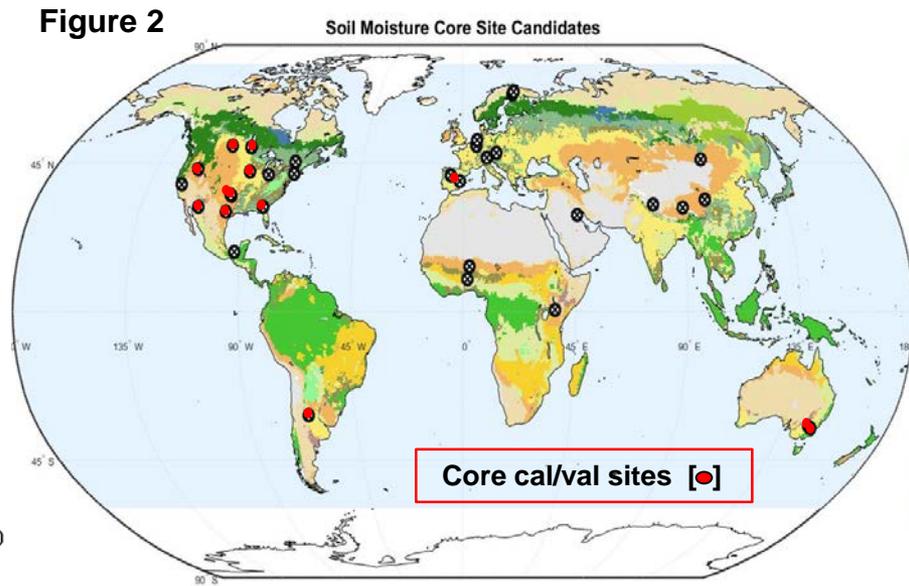
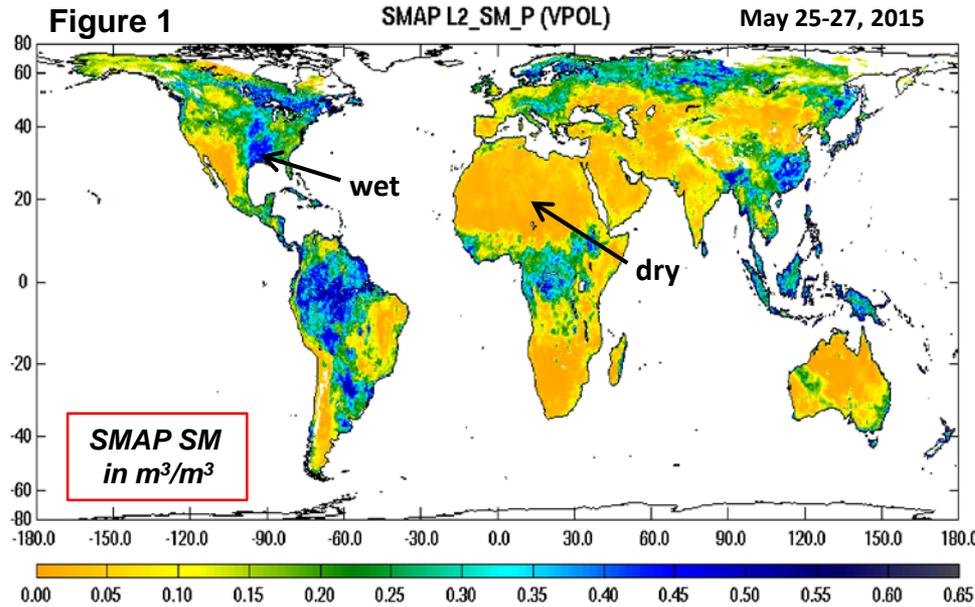


Figure 3

| SMAP L2SMP Metrics for March 31- October 26, 2015 | ubRMSE (m^3/m^3) | | | Bias (m^3/m^3) | | | Correlation | | | N |
|---|----------------------|-------|-------|--------------------|--------|-------|-------------|-------|-------|-----|
| | SCAH | SCAV | DCA | SCAH | SCAV | DCA | SCAH | SCAV | DCA | |
| Overall Mean Metrics from Core CV sites | 0.043 | 0.038 | 0.044 | -0.040 | -0.018 | 0.008 | 0.748 | 0.781 | 0.719 | 13 |
| Overall Mean Metrics from Sparse Networks | 0.049 | 0.048 | 0.060 | -0.044 | -0.016 | 0.020 | 0.655 | 0.654 | 0.590 | 416 |

Initial validation of SMAP passive-only derived soil moisture (*beta version*) was done using global *in situ* data from core cal/val sites and sparse networks. Core site results from the current baseline retrieval algorithm [SCA-V] meet mission accuracy requirements of an unbiased RMSE < 0.04 m^3/m^3 .