## SSM QC report: HydroGNSS vs SMAP

Time of issue: 30-Aug-2025 13:35:52. Reference: SMAP First day: 2018-08-13T00:00. Final day: 2018-08-20T23:59

Day 1: 14-Aug-2018

Percentage of SP with retrievals: 4.05 %

Percentage of HydroGNNS product without reference colocation: 60.15 % Percentage of saturated (i.e., 0/50%) HydroGNNS L2 Soil Moisture: 8.36 %

Percentage of retrievals with optimal quality: 0 %

Root mean square error: RMSE=26.55 m^3/m^3

Unbiased root mean square error: UbRMSE=15.72 m^3/m^3

Bias: B=-21.39 m^3/m^3

Correlation coefficient: R=0.33

Day 2: 15-Aug-2018

Percentage of SP with retrievals: 4.57 %

Percentage of HydroGNNS product without reference colocation: 64.56 % Percentage of saturated (i.e., 0/50%) HydroGNNS L2 Soil Moisture: 8.55 %

Percentage of retrievals with optimal quality: 0 %

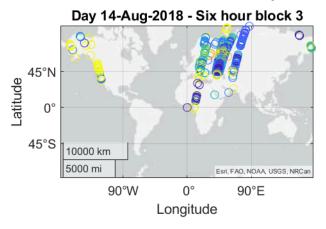
Root mean square error: RMSE=26.52 m<sup>3</sup>/m<sup>3</sup>

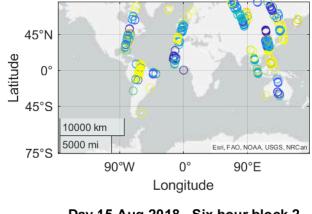
Unbiased root mean square error: UbRMSE=17.02 m^3/m^3

Bias: B=-20.34 m^3/m^3

Correlation coefficient: R=0.5

## HydroGNSS L2G SSM maps





Day 14-Aug-2018 - Six hour block 4

