
TEST RESULTS ROSR—ISAR MEASUREMENT COMPARISON

Instrument	Remote Ocean Surface Radiometer (ROSR)
Serial Number	01
ID	1505
Lead Tech	J. Reynolds
Test Start Time	20150511
Test End Time	20150518
Location	Leschi Marina, Seattle WA 98122
Test Type	Side-by-side comparison with ISAR 01
After calibration	Ship ROSR01 to customer in Japan.

As a measure of the validity of the new ROSR design, it was placed on a stand with one of the two Univ. of Miami ISAR instruments. ISAR01 was given a complete service and then a calibration. ROSR was calibrated in exactly the same manner as ISAR.

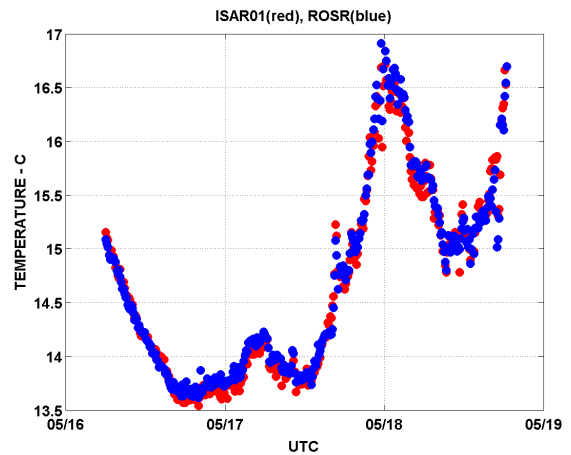


Figure 1: *Left: A photograph of the ROSR and ISAR in the dual frame. Both stare down to the same spot on the lake surface. Right: Time series of the temperatures measured by the two instruments. Time begins on 5/16.*

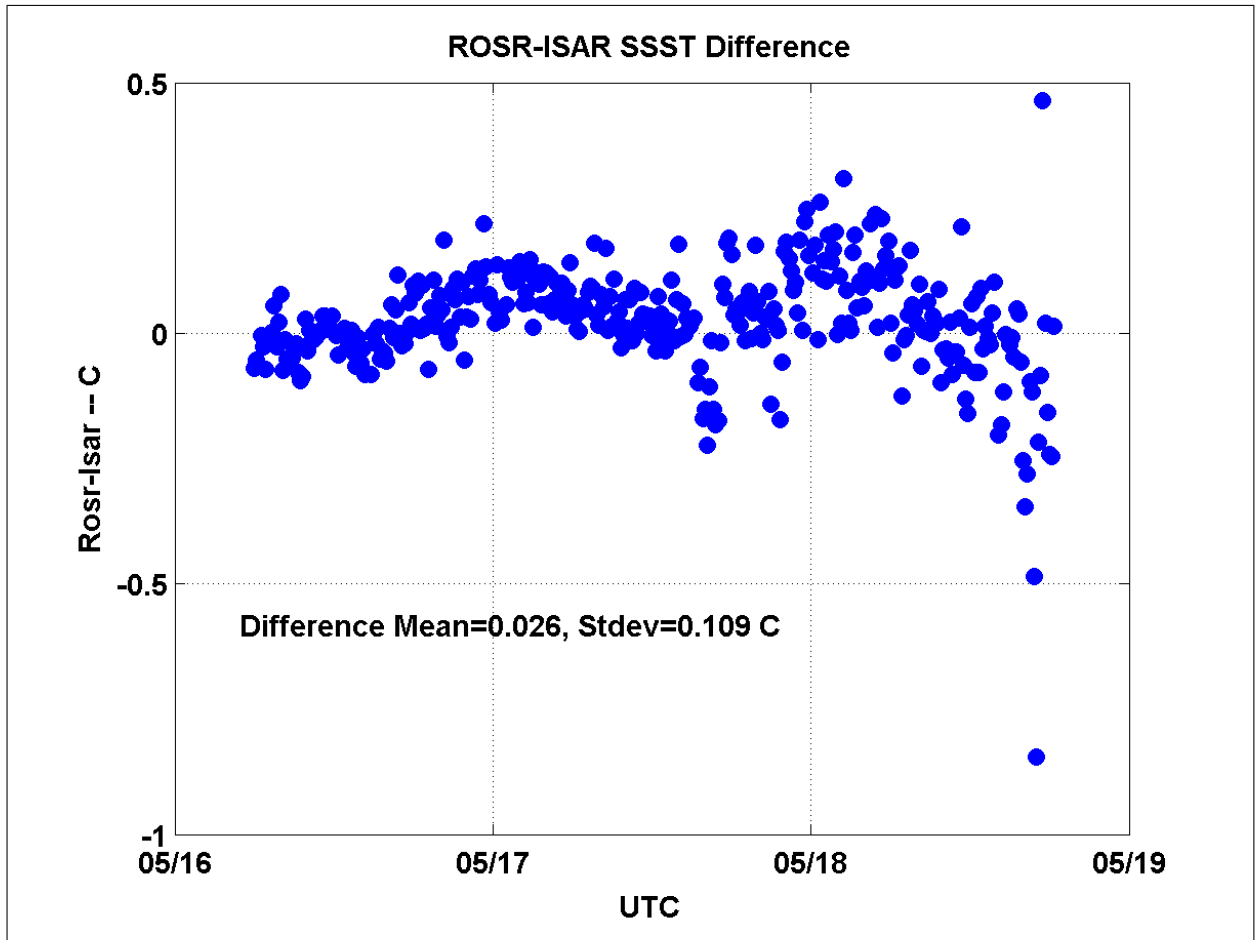


Figure 2: Measurement differences (ROSR-ISAR). During the day (14h–24h) the view location is blocked occasionally by boat traffic. During the first half of the period the skies were completely overcast. During the last half of the period skies were partly cloudy. At the end of the test, 5/18, 20h the sky was completely clear, there was no wind and the water surface was glassy.