

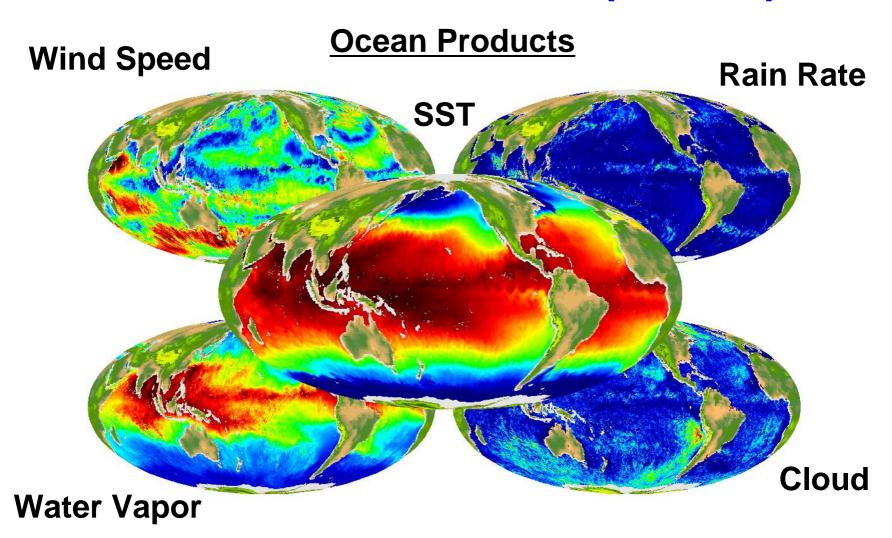
AMSR-E Science Progress in the U.S.

Roy Spencer
U.S. AMSR-E Science Team Leader
23 January 2006

- Overview

- U.S. Science Team is <u>very pleased</u> with AMSR-E performance
 - Good stability; very little corrupted data
- Calibration difficulty corrected for by RSS technique
- Operationally Useful
 - e.g. Hurricane forecast centers

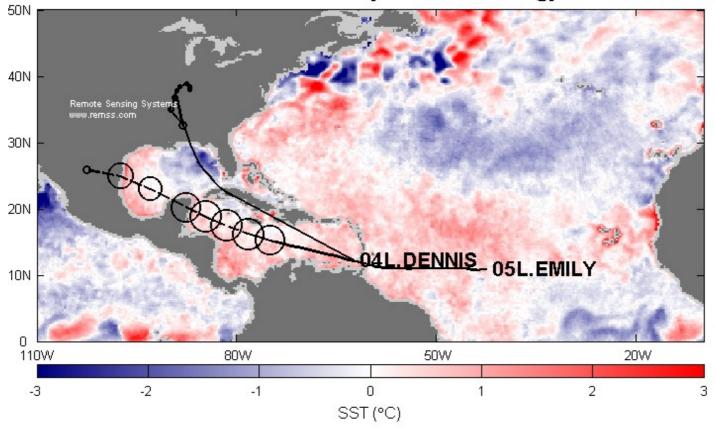
RSS Ocean Products (Wentz)



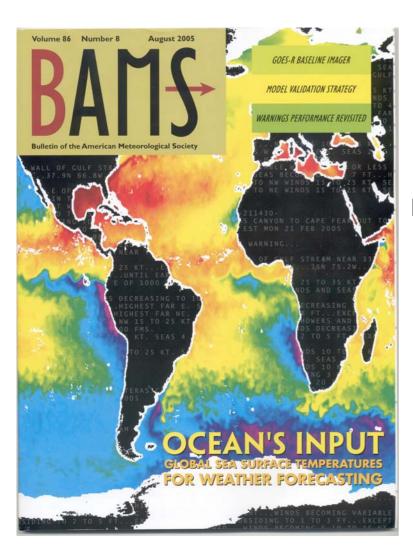
RSS Ocean Products (cont.)

 SST thru clouds: Hurricane Dennis cold wake in E. Gulf of Mexico

North Atlantic MW OI SST - Reynolds Climatology 07/16/2005



SST Article in BAMS



AVHRR

Reynolds OI

RTG

AMSR-E

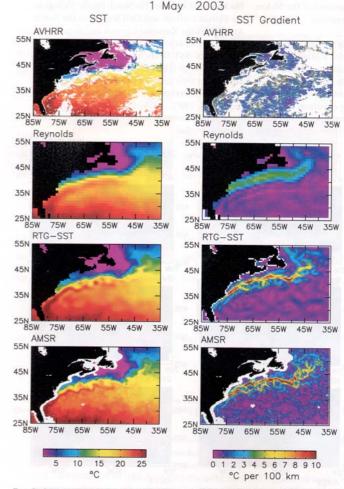
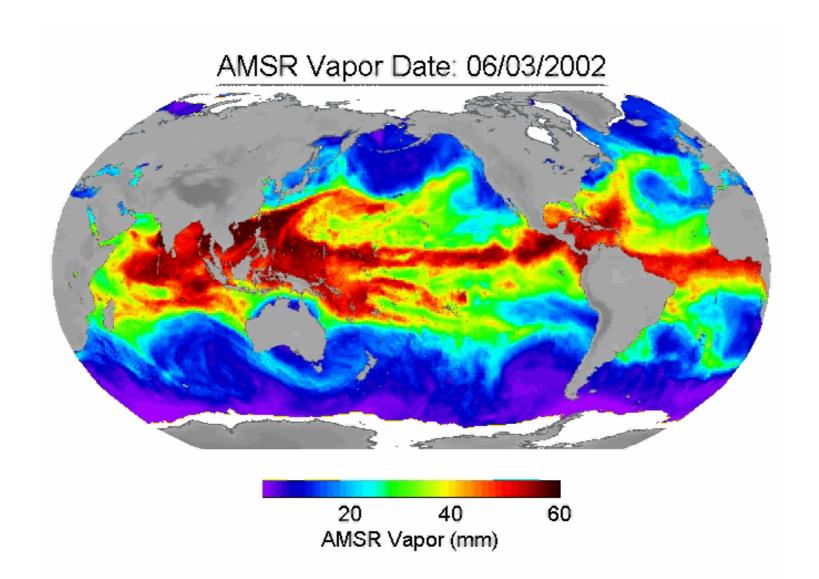


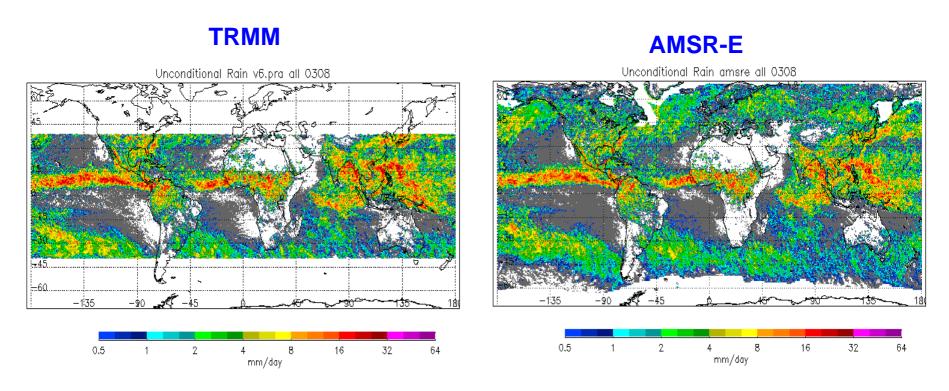
Fig. 8. Same as in Fig. 4, except for the Gulf Stream region of the western North Atlantic Ocean for the 3-day-averaging period 30 Apr-2 May 2003.

Integrated Oceanic Water Vapor



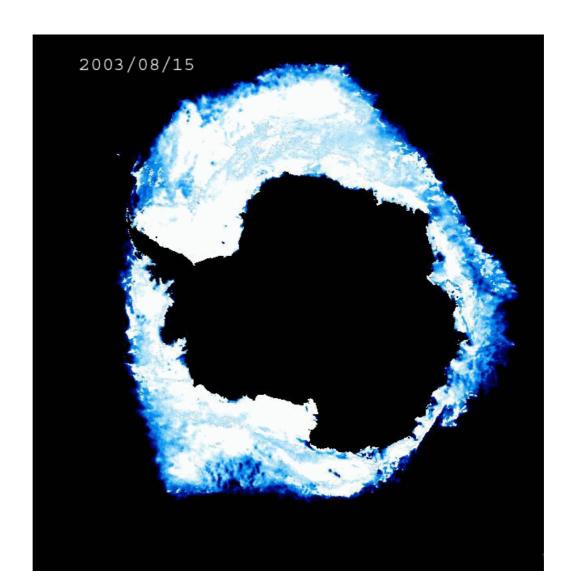
Rainfall (Kummerow et al.)

Rainfall at high latitudes complements TRMM



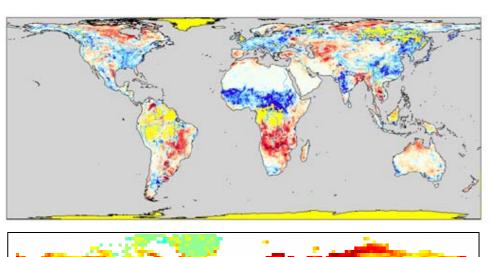
Sea Ice (Cavalieri, Comiso)

Antarctic Sea Ice (Comiso)

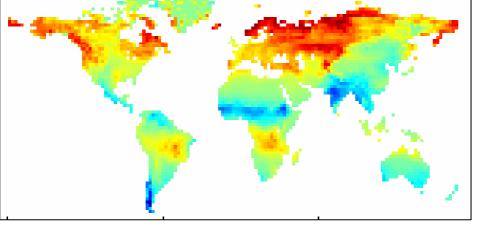


Soil Moisture (Njoku)

Surface Soil Moisture



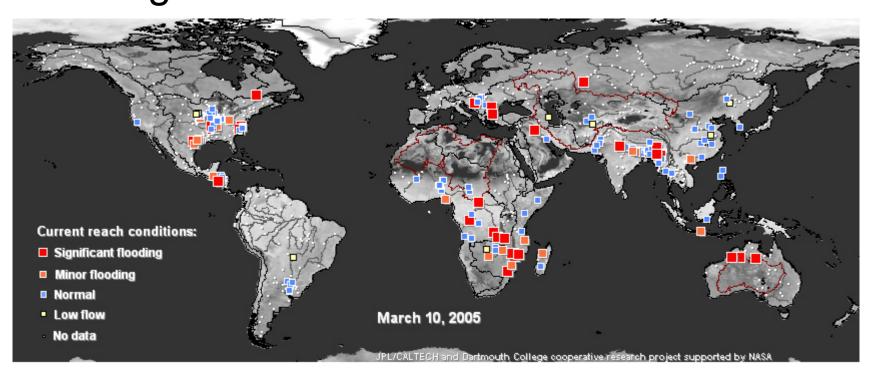
AMSR-E



GLDAS Climatology

Flood & Drought

 Flood and Drought detection at Dartmouth College



RFI Info. for Future Radiometer Design

 AMSR-E documented worldwide distribution of RFI contamination (at 6.9 GHz, e.g. for NPOESS CMIS design).

