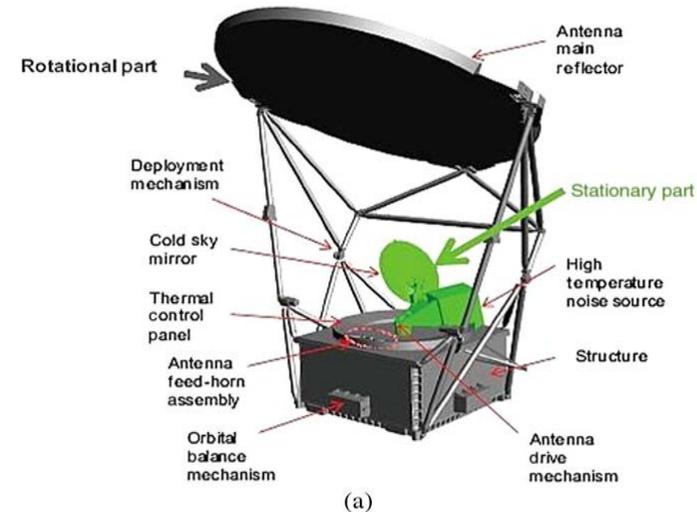# STAR GCOM-W1/AMSR2 PROJECT SUMMARY

STAR GCOM-W1 Project Team
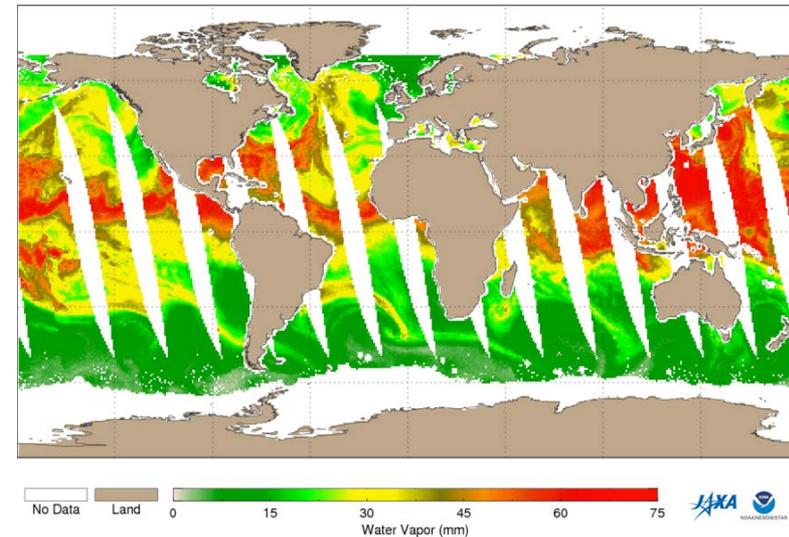**Presented by Ralph Ferraro**

Paul Chang, Ralph Ferraro, Zorana Jelenak, Suleiman Alsweiss, Patrick Meyers, Qi Zhu, Mark Romer, Xiwu Zhan, Jicheng Liu, Eileen Maturi, Fuzhong Weng, Andy Harris, Jeff Key, Cezar Kongoli, Walt Meier, Yong-Keun Lee, Walter Wolf, Tom King, Letitia Soullaird, Peter Keehn, Mike Wilson …

Summary (1/2)

- JAXA's GCOM-W1/AMSR-2 has been providing useful data for weather forecasting and applications at NOAA
  - Sensor performing well (aside from a few short-lived anomalies consistent with previous type sensors)
  - Fills is void for MW imager applications
- NESDIS operational AMSR-2 Products
  - Day-1 products (TB's, TPW, OSW, SST, CLW, RR/type) operational since 11/4/15
    - Research products since Nov. 2013
  - Product updates delivered, awaiting ORR (impacted by NDE upgrade/schedule – hope by end of 2016)
    - Improved ocean EDR's
    - Day-2 – SWE/SD, SIC, SM
  - Products meeting spec's
- Continue to build our relationship with JAXA
  - Sensor calibration/updates
  - Making the case for follow on mission

Antenna main reflector
Rotational part
Deployment mechanism
Stationary part
Cold sky mirror
High temperature noise source
Thermal control panel
Structure
Antenna feed-horn assembly
Orbital balance mechanism
Antenna drive mechanism
(a)

GCOM-W1 AMSR2 Total Precipitable Water - Ascending
9 Aug 2016

No Data   Land   0   15   30   45   60   75
Water Vapor (mm)

Summary (2/2)

- Ongoing product quality monitoring continues through STAR based web pages and off-line analysis
  - Includes use of CRTM, comparisons with in-situ, etc. - http://manati.star.nesdis.noaa.gov/gcom/
- STAR AMSR2 EDR quick look products
  - http://www.star.nesdis.noaa.gov/jpss/EDRs/products_gcom.php
- Continue to work with users to expand utility and develop new applications
  - Tropical Cyclones – NHC, JTWC
  - Marine forecasts – OPC
  - Hydrology – WPC, NWC
  - Day 2 products – NIC, NWC, etc.
  - Will lead to future product improvements vis R2O and O2R

SWE (kg/m2) NH 2015.01.15 AMSR2

NOAA GCOM-W1 AMSR2 Soil Moisture: Daily – 20151201