



# RSS RDAC Update

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# RSS Satellite Data

- PMW data in GDS2.0

Sensor	Dates	Coverage	L2P	L3U
TRMM TMI	1998-3/2015	40S-40N	X	X
Aqua AMSRE	6/2002 – 10/	Global	X	X*
WindSAT	2/2003 – present*	Global	NO	X**
AMSR2	7/2012- present*	Global	X**	Partial, not NRT
GPM GMI		65S-65N	Soon	Soon

\*needs to be reprocessed

\*\* quality since 1/2016

\*AMSR2 S.Hem 10V problems



# Calculation of SSES

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- Quality of all SSES unknown since 1/2016 when NRT buoy collocation not updated. Plan originally was to move to static multi-dimensional lookup tables similar to what is used for MODIS rather than including time-variable buoy error as well.
- RSS is currently completing a bottom up re-write of all processing code from scratch. New SSES calculation.



# NEW GDS2.0 files

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- Gridded WindSAT and AMSR2 ready
  - Waiting for JPL to okay WindSAT
  - Next, GPM
  - Reprocess AMSR-E



# AMSR2

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- Southern latitude nonlinearity issue affects the 10.7 V GHz channel, correction applied, but not perfect
- Impacts the SST algorithm which uses the 10.7 GHz channel
- For the southern hemisphere, it is likely more accurate to use JAXA AMSR2 data which does not use the 10.7 GHz channels for the 6.9 GHz SST algorithm
- This problem is unique to AMSR2. It does not affect WindSAT. A better understanding of what is occurring is important for future instrument design.



# MWIR OISST / PMW OISST

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- Both produced in GDS2.0
- PMW 25 km, daily, global
- MWIR 9 km, daily, global

Quality since late 2015 is unknown

MWIR was scheduled to be decommissioned end-2016. Recommend switch to other GHRSSST L4 operational datasets (MUR, G1, OSTIA, POES-GOES Blended, NOAA SST, ...)