

JAXA's contribution to monitor the Water Cycle variables

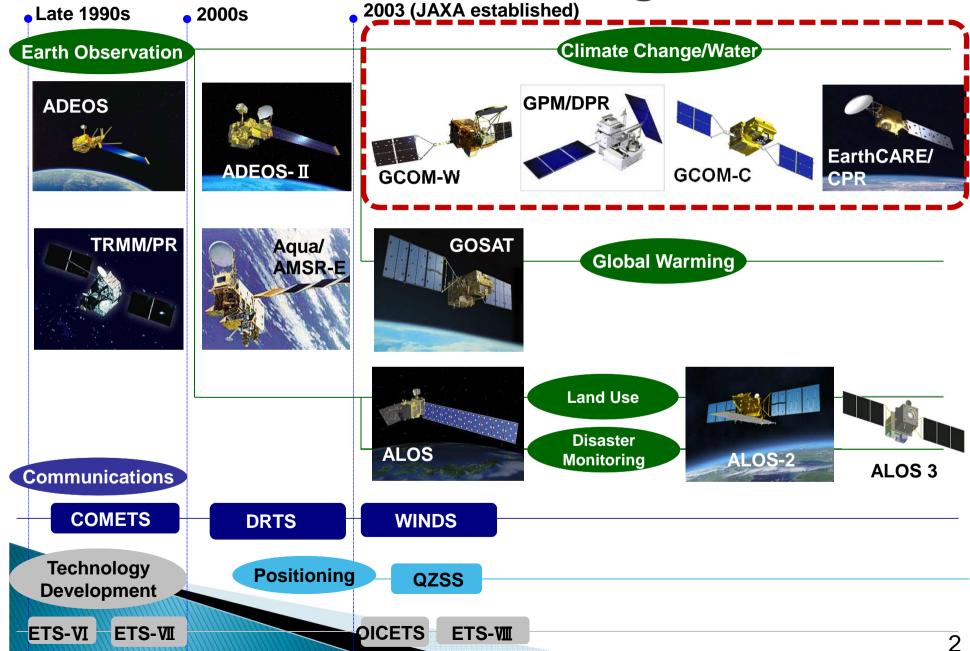
Osamu Ochiai

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3rd GEOSS African Water Cycle Coordination Workshop El Jadida, Morocco Feb. 4-5, 2013

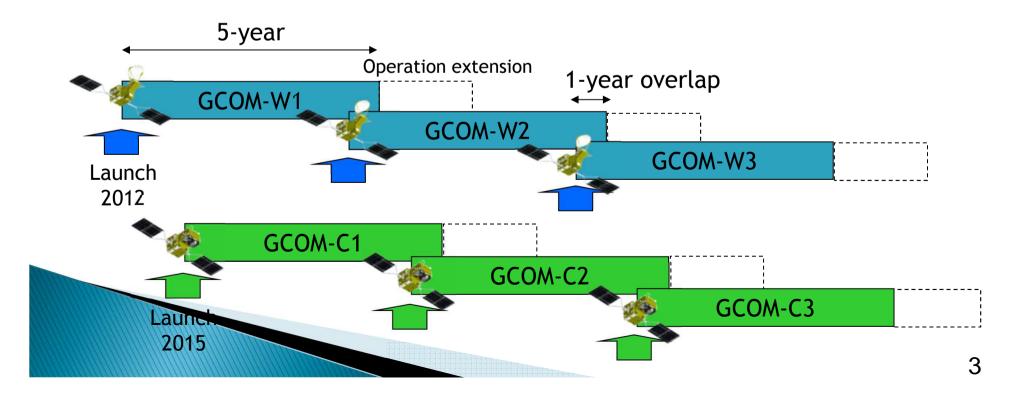
JAXA Satellite Programs



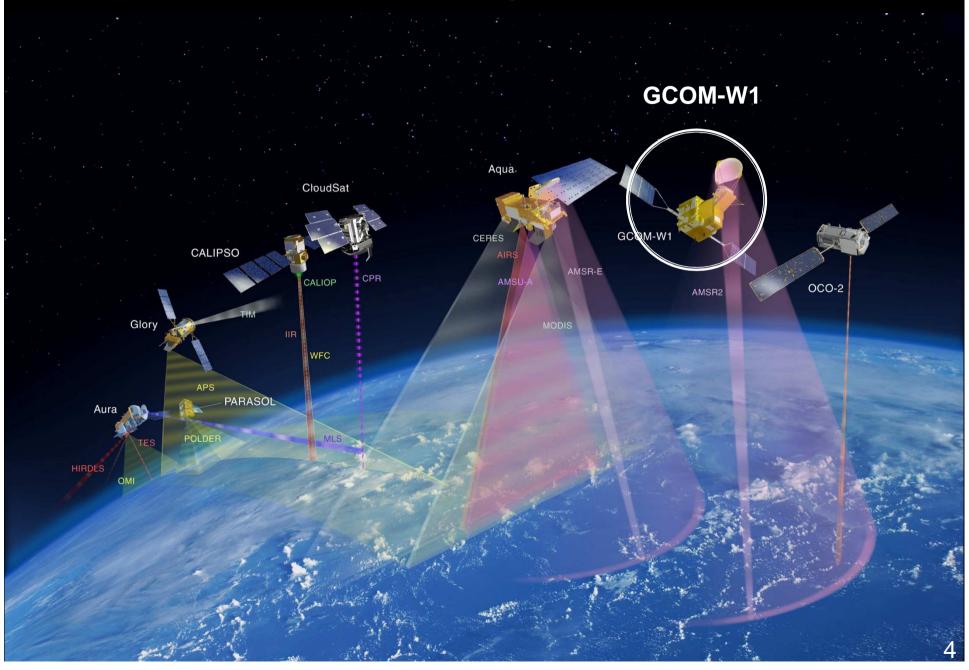


Global Change Observation Mission - GCOM -

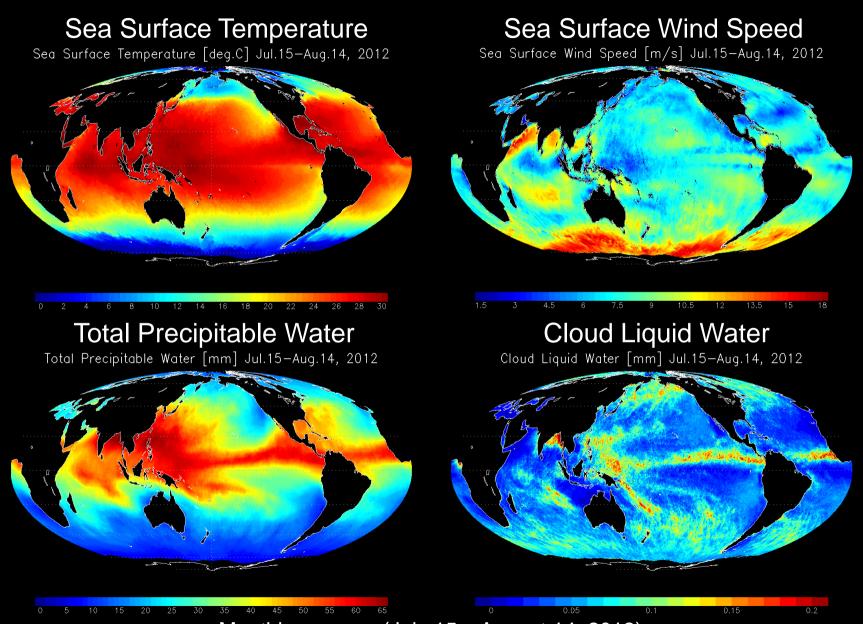
- Demonstrate long-term global observation of various geophysical parameters for understanding climate variability and water cycle.
- Two medium-sized satellites with three generations to ensure 10-15 years stable data records.



A-Train

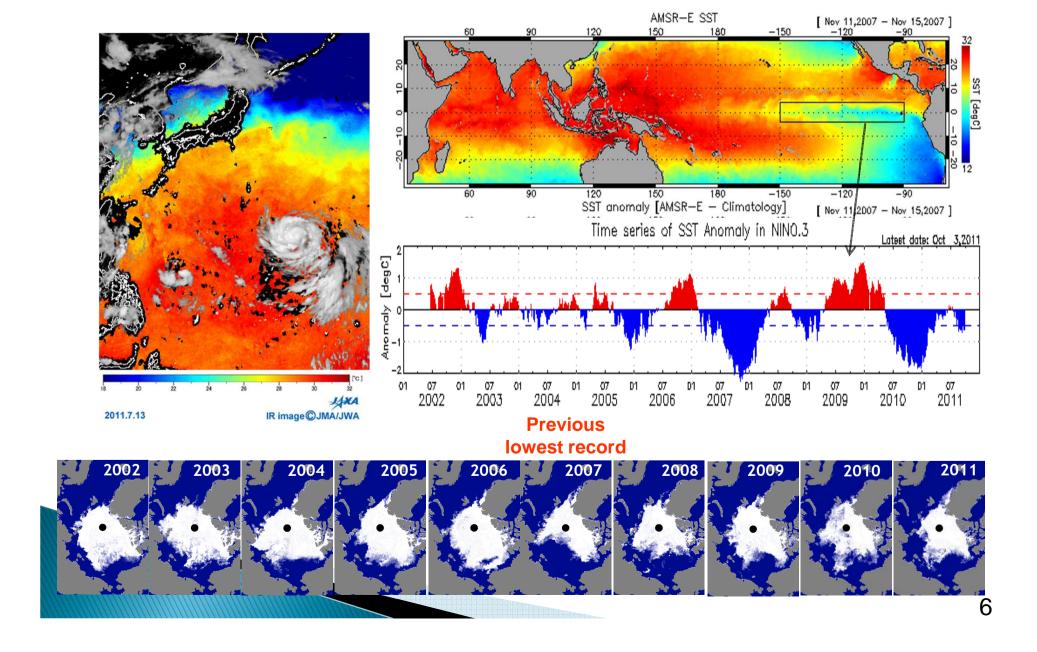


Monthly AMSR2 Images (unvalidated)



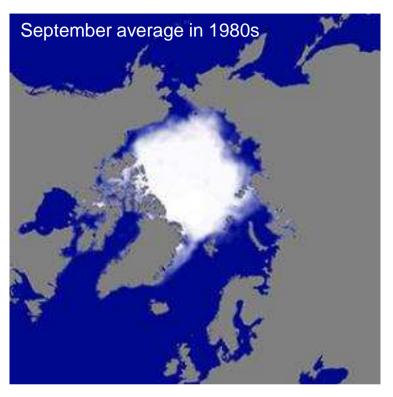
Observations by AMSR-E

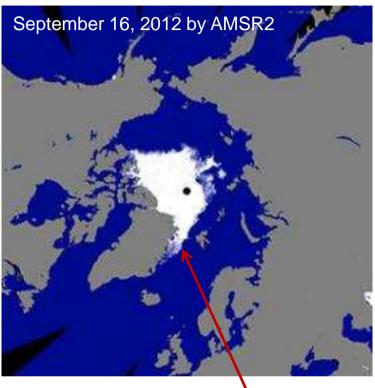


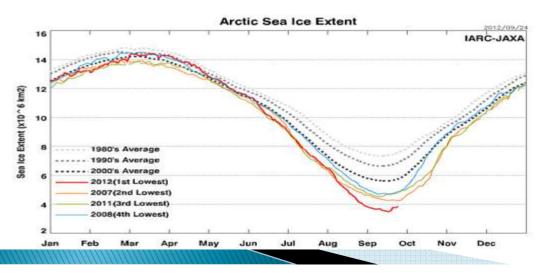


Arctic Sea Ice by AMSR2





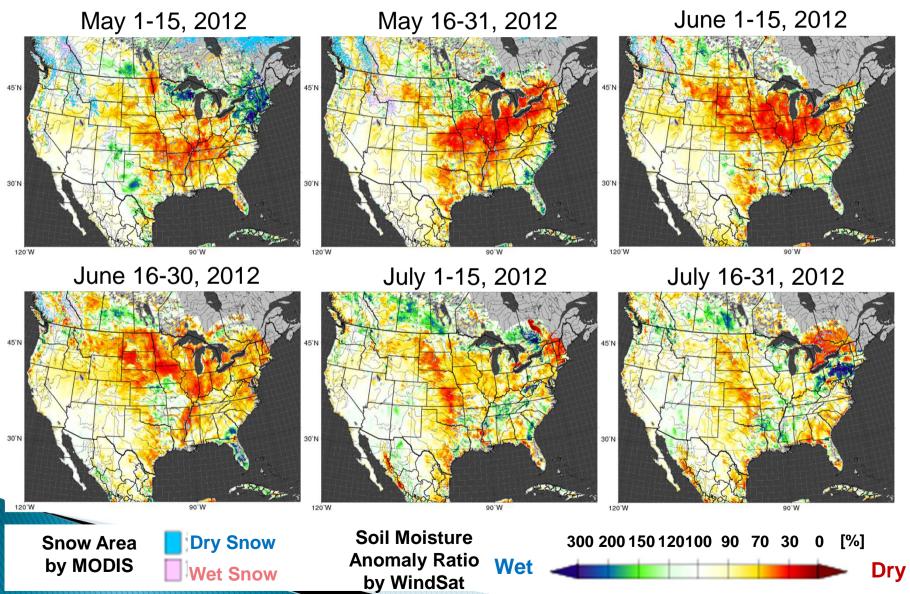


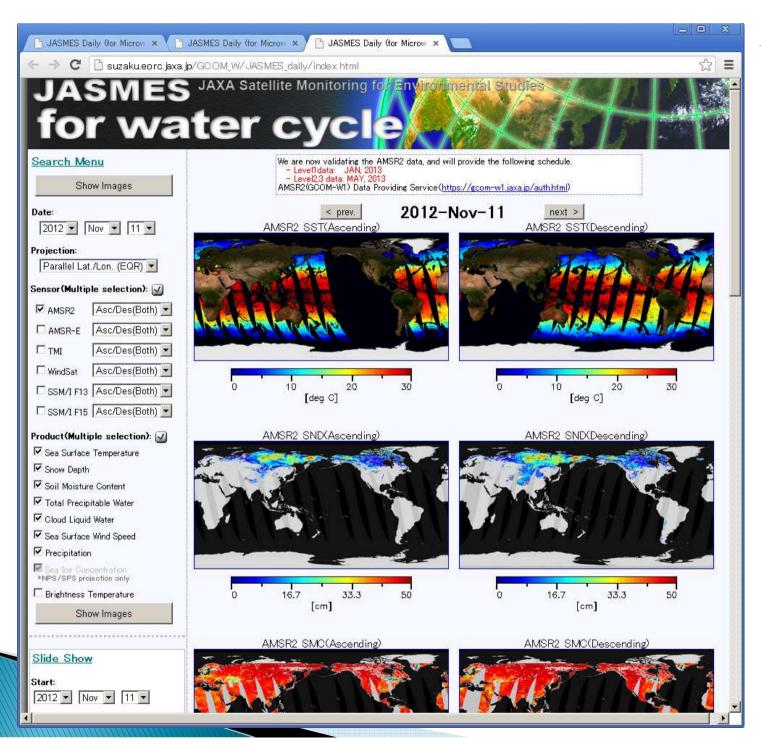


The smallest sea ice extent by satellite was recorded this year!

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Soil Moisture Anomaly over North America









Summary



- GCOM-W1 and AMSR2 are in good shape.
- GCOM-W1 "SHIZUKU"
 - Launched on May 18, 2012 (JST).
 - Joined A-Train constellation.
 - Completed the initial checkout phase on August 10, 2012.

AMSR2

- Started continuous observation from July 3, 2012 (JST).
- Calibration and validation activities are ongoing.
- Preliminary products were already made available to PIs and collaborating agencies.
- Product release to public will be 8-months and 12-months after launch for brightness temperatures and geophysical parameters.
- GCOM Data Providing Service at http://gcom-w1.jaxa.jp.
- Will participate in GPM constellation.



Thank you for your attention.