Processing Status at JAXA/EOC

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Earth Observation Center (EOC)
Earth Observation Research Center (EORC)
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1. JAXA/EOC Data Processing Status

Number of the receipt of the AMSR-E RBD & PDS

- **The number of the receipt of the AMSR-E RBD and PDS files (As of Aug 15 2006)**

No.	Phase	RBD		PDS	
		Science	GBAD	Science	GBAD
1	Initial checkout Phase (May 4 2002 ~ Aug. 29 2002)	1,369	1,661	1,055	1,325
2	Operation phase (Aug. 30 2002 ~ Jun. 30 2006)	20,995	21,330	216	236
Total		22,364	22,991	1,271	1,561

- **The number of the data receipt by the receiving station (As of Aug 15 2006)**

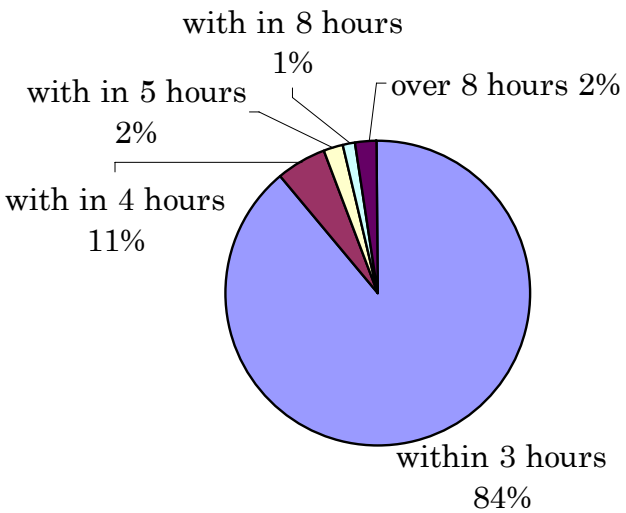
No.		SGS	AGS	SKS	PF1	EDO	SG3	GLC	GLB	GLA	STG	WPS	WFF	Total
1	AMSR-E Science	7,086	4,257	5,047	3,103	1,555	676	339	54	47	4	196	0	22,364
2	AMSR-E GBAD	7,407	4,371	5,086	3,189	1,614	680	341	54	47	3	198	1	22,991
Total (files)		14,493	8,628	10,133	6,292	3,169	1,356	680	108	94	7	394	1	45,355
Total (%)		31.955	19.02	22.34	13.87	6.987	2.99	1.499	0.238	0.207	0.015	0.869	0.002	100

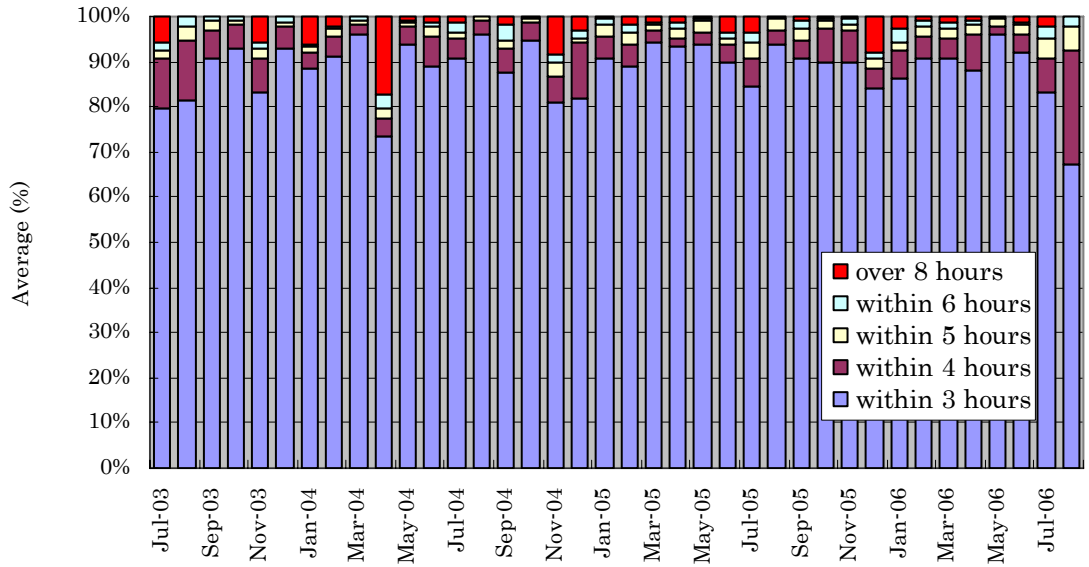
SGS, SG3 : Svalbard Ground Station, AGS : Alaska Ground Station, SKS : Kongsberg-Lockheed Martin Ground Station
PF1 : Datalynk Ground Station, GLC, GLB, GLA : Gilmore Creek Ground Station
STG : Second TDRSS Ground Terminal (White Sands), EDO : EOS Data and Operating System

1. JAXA/EOC Data Processing Status

AMSR-E RBD Data Latency

- **AMSR-E RBD Data Latency (Jul. 2003 ~ Aug. 2006)**





[RBD Data Latency]

Defined as the time difference between the start time of RBD and the time of RBD received at JAXA/EOC.

84% of RBD were received within 3 hours at JAXA/EOC.

1. JAXA/EOC Data Processing Status

processing Level-1 product

- **The number of the AMSR-E Level-1A products (As of Aug. 15 2006)**

No.	Product Level	2002	2003	2004	2005	2006	Total
1	AMSR-E Level-1A	6,405	10,631	10,660	10,630	6,582	44,908
2	AMSR-E Level-1B	6,405	10,631	10,660	10,630	6,582	44,908
Total		12,810	21,262	21,320	21,260	13,164	89,816

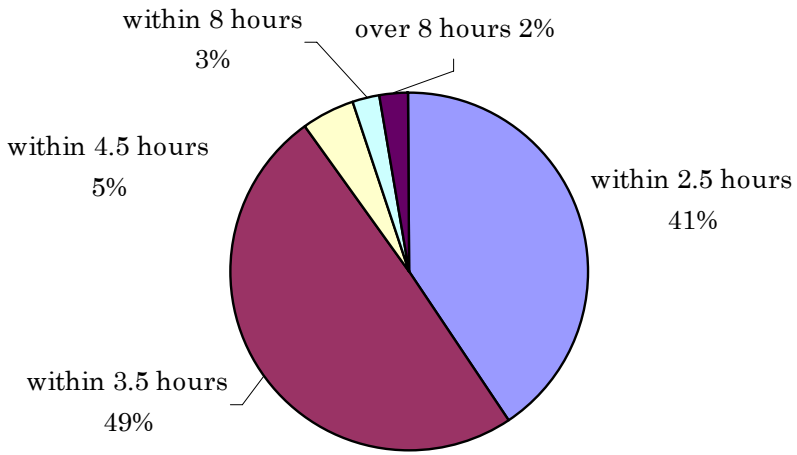
- **The number of the AMSR Level-1A products (All mission period)**

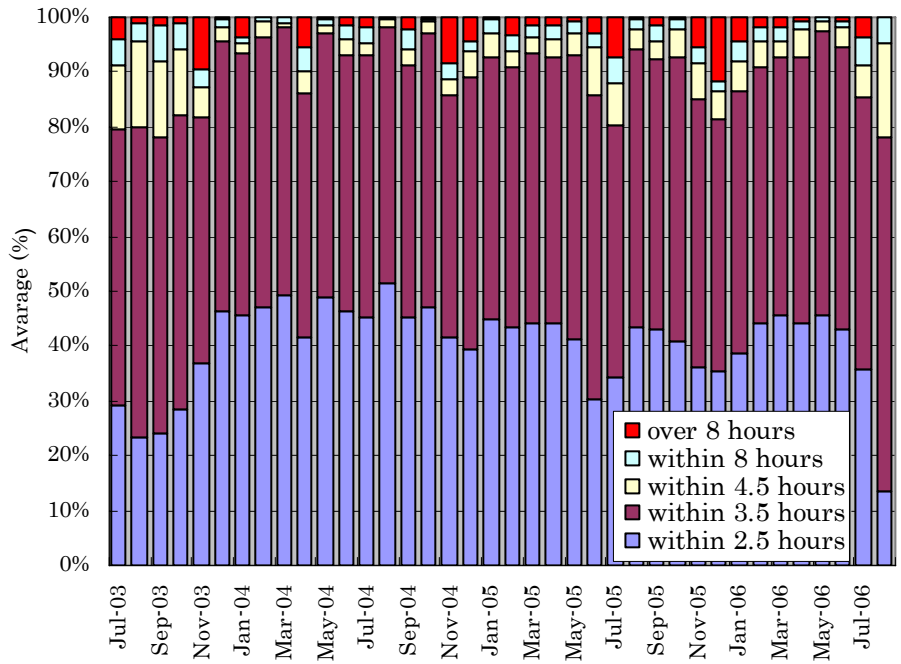
No.	Product Level	2002	2003	Total
1	AMSR Level-1A	6,405	10,631	17,036
2	AMSR Level-1B	6,405	10,631	17,036
Total		12,810	21,262	34,072

1. JAXA/EOC Data Processing Status

AMSR-E Level-1A product Data Latency

- **AMSR-E Level-1A Data Latency (Jul. 2003 ~ Aug. 2006)**





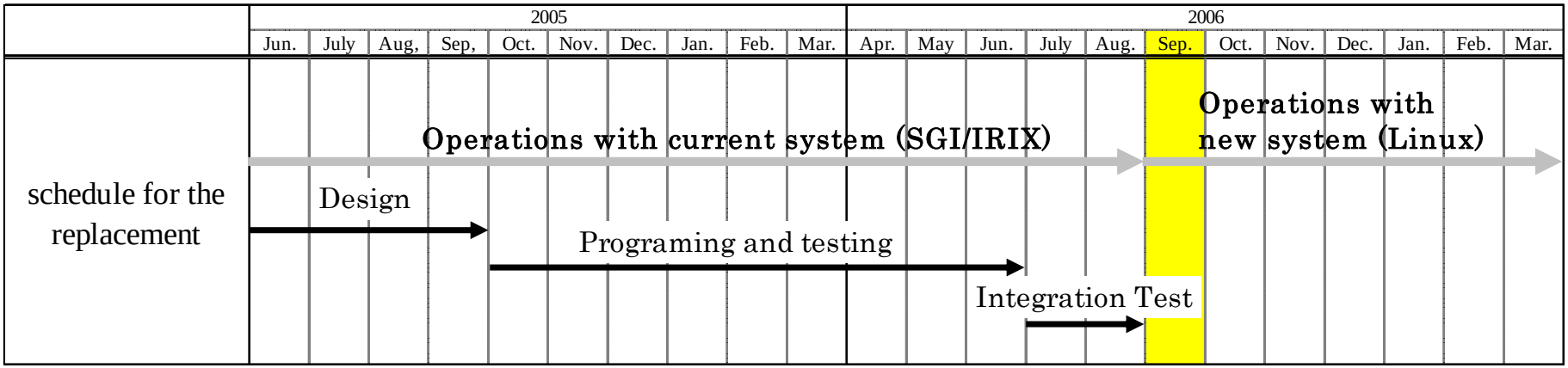
[Level-1A Data Latency]

Defined as the time difference between the observation start time of the granule data and the time of L1A delivered toward NASA/JPL.

The capability of the AMSR-E Level-1A processing takes approx. 30 minutes at JAXA/EOC. 90% of L1A were delivered within 3.5 hours from JAXA/EOC.

2. Replacement status for the AMSR-E Data Processing System

Replacement Schedule for the AMSR-E Data Processing System



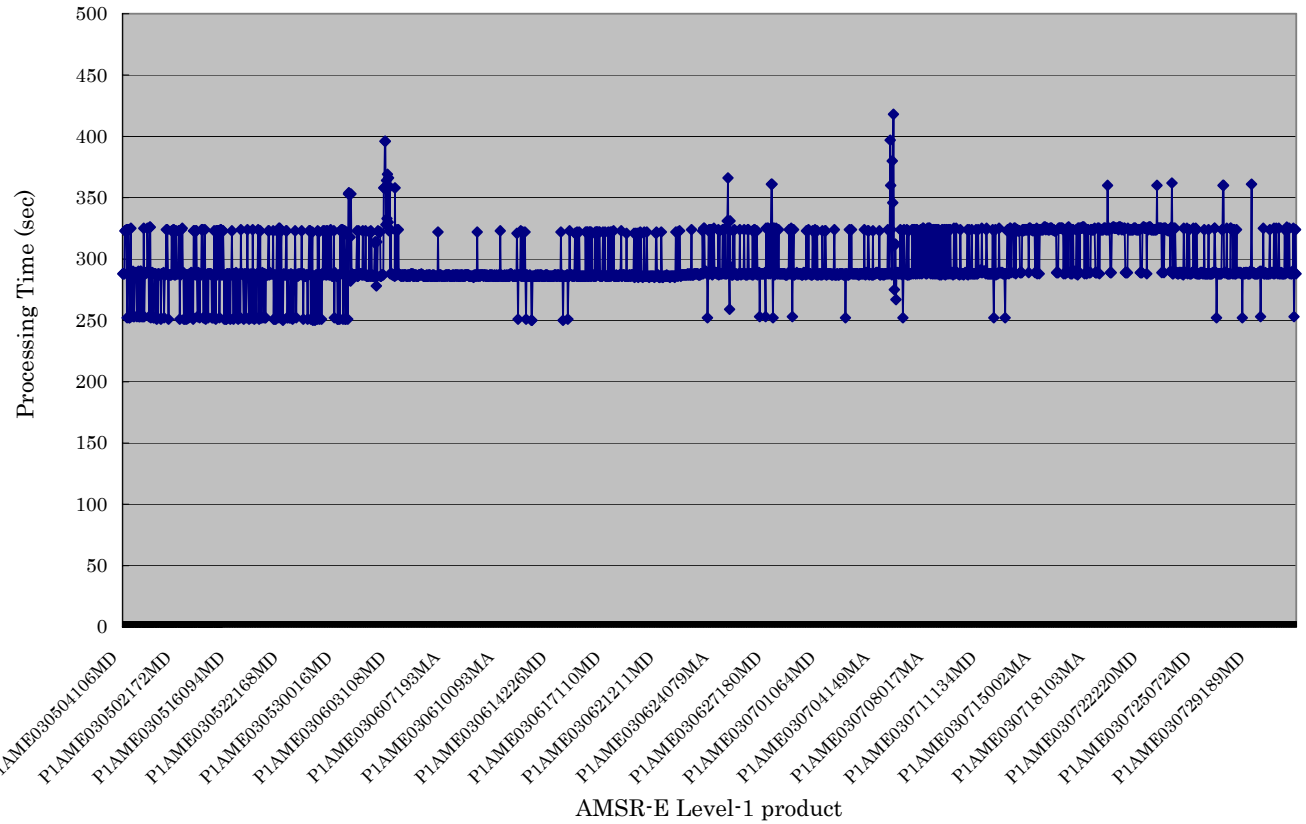
JAXA/EOC switched the AMSR-E Data Processing System from IRIX OS to Linux OS on September 1st, 2006.

- HDF Library for Linux OS (64bit)

  JAXA/EOC changed the HDF Library version from v4.1r2 to v4.2r1, because of the HDF Library version v4.1r2 does not support the PC Linux OS (64 bit).

2. Replacement status for the AMSR-E Data Processing System

Capability of the AMSR-E Level-1 product



Capability of the AMSR-E Level-1 processing was improved since September 1st, 2006.

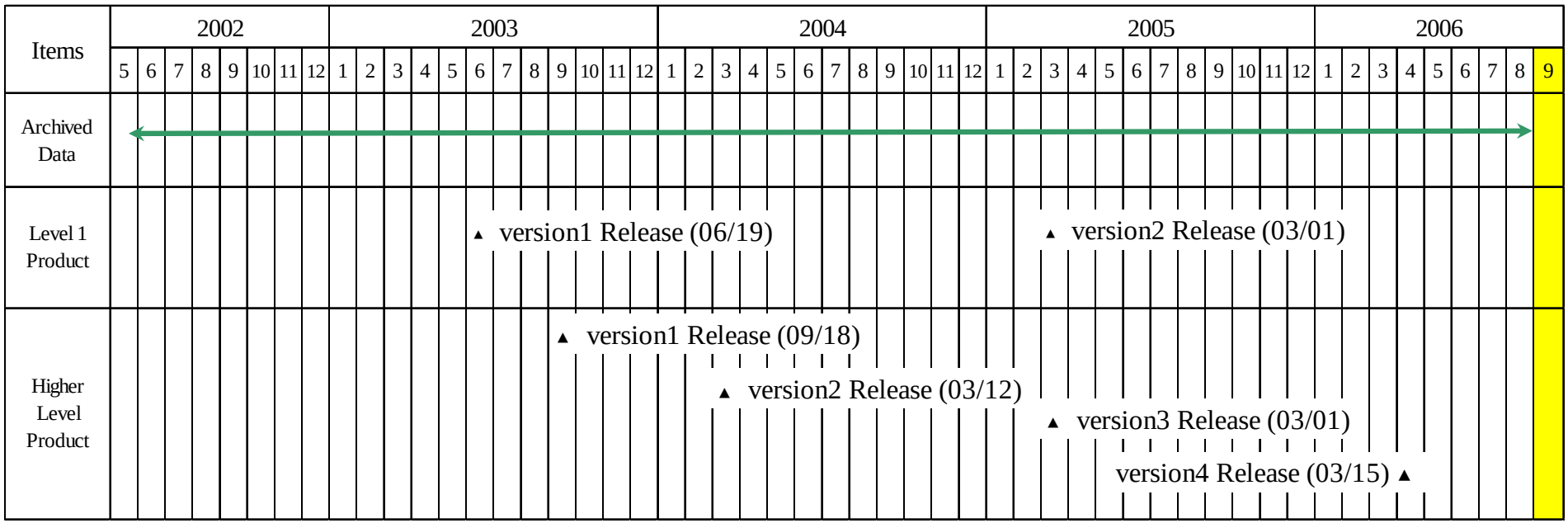
- Capability of the AMSR-E Level-1 processing
  30 minutes => about 5 minutes

AMSR Data Processing System for Linux OS will be switched on September 1st, 2007.

3. Version-Up History for the AMSR/AMSR-E products

For AMSR-E

Version-up history for AMSR-E Product



The current version of the AMSR-E product

AMSR-E Level-1 product: Version 2.0

AMSR-E Higher Level product: Version 4.0

Currently, JAXA/EOC have no version-up plan for AMSR-E Level-1 Algorithm.

3. Version-Up History for the AMSR/AMSR-E products

For AMSR

Version-up history for AMSR Product

Items	2002								2003												2004												2005												2006								
	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Archived Data									←											→																																	
Level 1 Product																					▲ version1 Release (12/24)													▲ version2 Release (03/01)																				
Higher Level Product																					▲ version1 Release (12/24)													▲ version2 Release (03/01)																				
																																																					▲ version4 Release (03/15)

The current version of the AMSR product

AMSR-E Level-1 product: Version 2.0

AMSR-E Higher Level product: Version 4.0

4. Archived AMSR/AMSR-E Products at JAXA/EOC

AMSR/AMSR-E Products Availability

- **Availability of an archived AMSR-E Level-1/Higher Level products at JAXA/EOC**

Sensor	Product Level	Version	Observation Date												
			2002	2003	2004	2005	2006								
			6-12	1-12	1-12	1-12	1	2	3	4	5	6	7	8	9
AMSR-E	Level 1	Version 2.0	Available	Available	Available	Available									
	Higher Level	Version 3.0													
		Version 4.0													

Available

- **Availability of the archived AMSR Level-1/Higher Level products at JAXA/EOC**

Sensor	Product Level	Version	Observation Date									
			2003									
			1	2	3	4	5	6	7	8	9	10
AMSR	Level 1	Version 2.0	Available									
	Higher Level	Version 3.0	Available									
		Version 4.0	Available									

JAXA/EOC distributes all of the up-dated versions of the AMSR-E level-1 and higher levels products to the public.

5. Summary

- AMSR/AMSR-E Data Processing Status at JAXA/EOC
  - AMSR-E data processing system at JAXA/EOC is working nominally.
  - JAXA/EOC continue to provide the AMSR-E Level-1A product with version-2.
  - JAXA/EOC switched the AMSR-E Data Processing System from SGI to PC Linux. The capability of the AMSR-E Level-1 processing was improved largely.