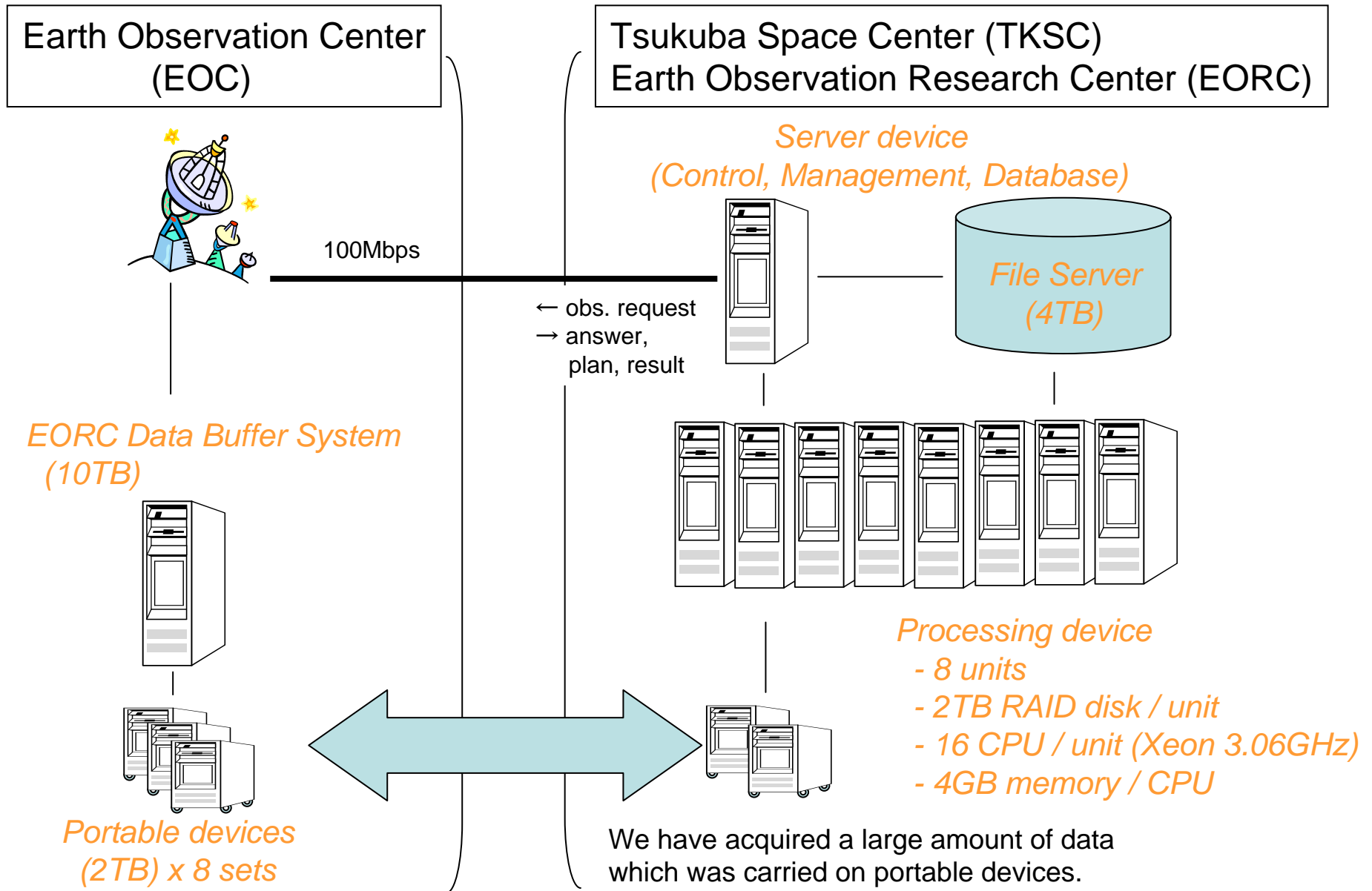


The ALOS Geoscience and Applications Processor (AGAP)

January 17, 2007
RESTEC

AGAP System Overview



Server device
(Control, Management, Database)



Gigabit network switch

I/O devices

SDLT, DTF-2, LTO, DDS4-DAT
and CD/DVD

Control and management server

Database server

NAS file server

- 4TB RAID10 and hot swap system

Processing device (1 unit)

- 2TB RAID disk
- 16 CPU (Xeon 3.06GHz)
- 4GB memory / CPU



Gigabit network switch

I/O devices

SDLT, DDS4-DAT and CD/DVD

NAS file server

- 4TB RAID10 and hot swap system

Processing server

- 8 PC nodes

- 2 CPU / node

- 8 GB memory / node

EORC Data Buffer System (10TB)



10TB RAID10 and hot swap system

Portable device (2TB RAID10)



AGAP operational flow

	...	- 2 weeks	- 1 week	target week (Monday to Sunday)	+ 1 week	+ 2 weeks	+ 3 weeks	+ 4 weeks
EORC Procedure				(target observation day)				
Register Observation requests	▽ (before target cycle)			▼				
Weekly observation requests are transmitted to EOC		Thursday▼						
Responses to observation requests received from EOC			Thursday▼					
Observation plan received from EOC		(the day before the target observation day)		▼				
Status of observation received from EOC					▼ (after data is received at EOC)			
Buffer PALSAR Level 0 data at the EOC					▼ (after processing to level 0 data at the EOC)			
Copy PALSAR Level 0 data to portable data device					▼ (after buffering)			
Transport data via portable device					▼ 2 or 3 times a week (Monday, Wednesday, Friday)			
Process to Level 1.0 and produce browse					↔ 2 days			
Process to K&C products						←————— 2.5 weeks —————→		
Place K&C products on ftp server						←————— (place products on ftp server as they are produced) —————→		
Archive K&C products to SDLT tape								▼
Ship SDLT tapes						(typically, accumulate some tapes and ship as a group)		▼

AGAP Performance

PALSAR observation data	200GB to 600GB per day 2TB to 3TB per week
Browse processing	about 500 passes of image data per week
K&C product processing	about 80 products per week
K&C product availability (via ftp server)	3 or 4 weeks after observation

Monitoring status

The EORC operator can monitor the status of observation requests, and the processing status, through the AGAP system.

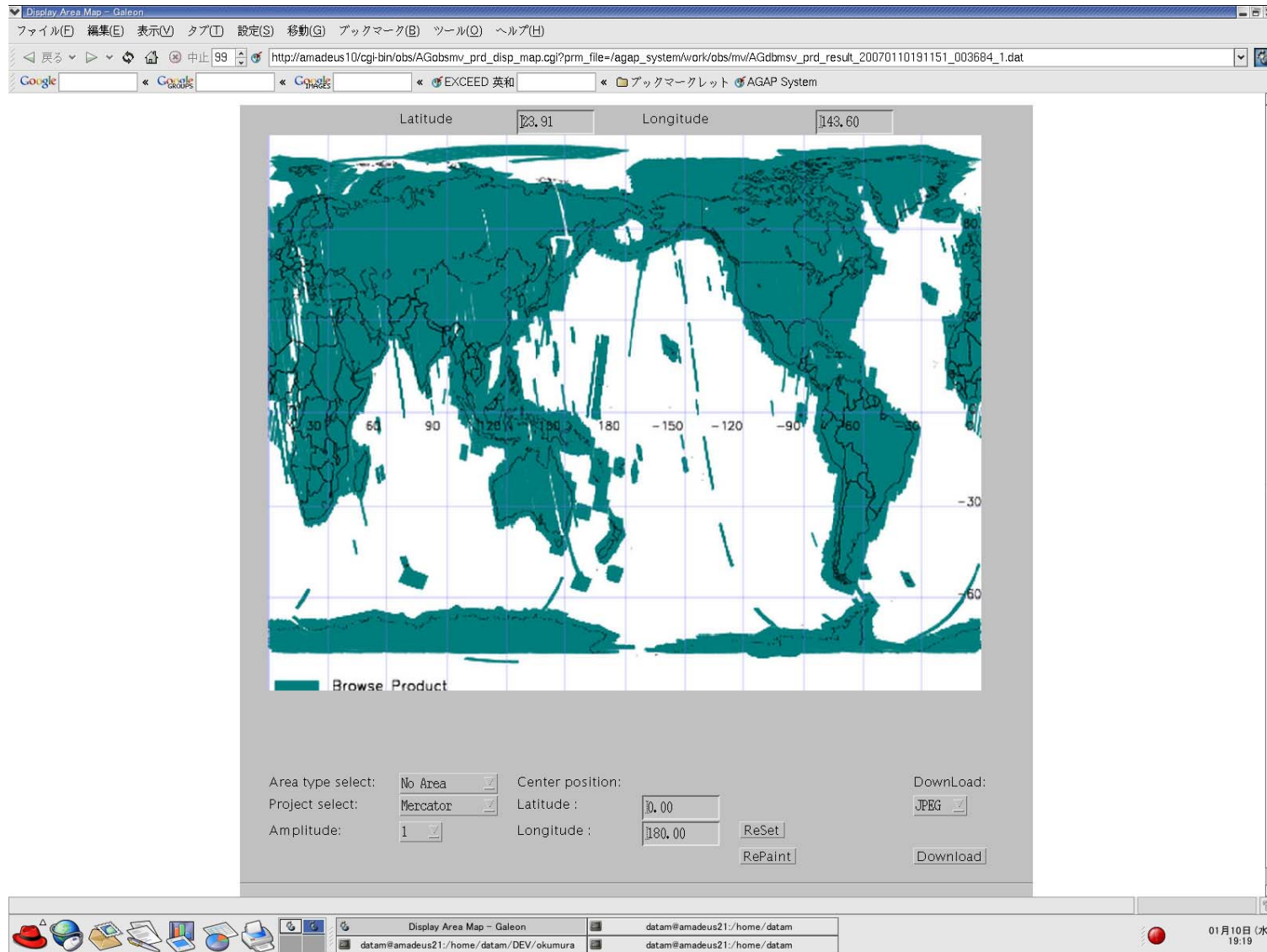
The screenshot displays the AGAP System web interface for monitoring observation requests. The interface is divided into several sections:

- AGAP:menu**: A sidebar menu with options like Overview, Request, and Product Search.
- Observation Request Status**: A search and filter section with dropdowns for Period (2000/01/30 to 2000/06/27), Sensor (PALSAR), Plan (ALL), and ReqCode. It includes buttons for DB Summary Display, Recover Request, Map View, and Output as CSV.
- Here are the selected data**: A table listing observation requests with columns for Seq, ReqCode, ObsReqID, ObsDate, Path, ObsSLat, A/D, ObsTime, Mode, Type, REOW, and Rev. The table shows 26 rows of data.
- World Map**: A map visualization showing the distribution of observation requests across the globe, with red and blue lines indicating request paths. The map includes latitude and longitude coordinates and a legend for 'Obs. Plan Request'.
- System Status**: A bottom section displaying system logs and status messages, such as 'Last 2 info (reload every 5sec)' and 'Last 2 warn (reload every 5sec)'.

Seq	ReqCode	ObsReqID	ObsDate	Path	ObsSLat	A/D	ObsTime	Mode	Type	REOW	Rev
0001	A0000002	EORCA0000002641D**	20000622	576	18.465	0	105	WB1	W	REQW002007	N
0002	A0000002	EORCA0000002642D**	20000622	300	27.877	0	45	WB2	W	REQW002007	N
0003	A0000002	EORCA0000002643D**	20000622	162	-9.132	0	165	FBS	W	REQW002007	N
0004	A0000002	EORCA0000002644D**	20000621	419	32.590	1	117	WB1	W	REQW002007	N
0005	A0000002	EORCA0000002645D**	20000621	511	68.433	1	55	WB1	W	REQW002007	N
0006	A0000002	EORCA0000002646D**	20000622	484	-47.388	1	19	DSN	W	REQW002007	N
0007	A0000002	EORCA0000002647D**	20000621	419	17.965	1	49	WB1	W	REQW002007	N
0008	A0000002	EORCA0000002648D**	20000621	51	11.375	1	95	FBD	W	REQW002007	N
0009	A0000002	EORCA0000002649D**	20000622	208	-58.724	0	106	FBS	W	REQW002007	N
0010	A0000002	EORCA0000002650D**	20000622	392	53.068	1	1047	PLR	W	REQW002007	N
0011	A0000002	EORCA0000002651D**	20000622	43	-43.382	0	208	FBD	W	REQW002007	N
0012	A0000002	EORCA0000002652D**	20000621	557	69.309	0	225	DSN	W	REQW002007	N
0013	A0000002	EORCA0000002653D**	20000622	162	53.031	1	290	PLR	W	REQW002007	N
0014	A0000002	EORCA0000002654D**	20000621	235	-30.960	0	213	FBS	W	REQW002007	N
0015	A0000002	EORCA0000002655D**	20000621	24	9.611	1	39	PLR	W	REQW002007	N
0016	A0000002	EORCA0000002656D**	20000621	24	47.937	1	68	WB2	W	REQW002007	N
0017	A0000002	EORCA0000002657D**	20000622	438	8.402	0	273	DSN	W	REQW002007	N
0018	A0000002	EORCA0000002658D**	20000621	557	-51.239	1	126	WB2	W	REQW002007	N
0019	A0000002	EORCA0000002659D**	20000622	484	-66.575	1	110	FBD	W	REQW002007	N
0020	A0000002	EORCA0000002660D**	20000622	70	38.838	0	160	DSN	W	REQW002007	N
0021	A0000002	EORCA0000002661D**	20000622	622	-31.844	0	155	FBD	W	REQW002007	N
0022	A0000002	EORCA0000002662D**	20000621	97	53.542	1	81	PLR	W	REQW002007	N
0023	A0000002	EORCA0000002663D**	20000622	116	71.511	1	163	FBS	W	REQW002007	N
0024	A0000002	EORCA0000002664D**	20000622	438	-33.281	0	209	PLR	W	REQW002007	N
0025	A0000002	EORCA0000002665D**	20000621	281	6.165	0	27	WB1	W	REQW002007	N
0026	A0000002	EORCA0000002666D**	20000622	116	-13.063	0	126	FBD	W	REQW002007	N

Map of archived browse images

(Browse images for a total of 11,300 passes)



Monitoring status via the www

You can monitor the status of your request on the “K&C View Port”.

ALOS Geoscience Application Processor (AGAP) - K&C View Port - Microsoft Internet Explorer

ALOS Geoscience Application Processor (AGAP) - K&C View Port

Information:
This is a test.

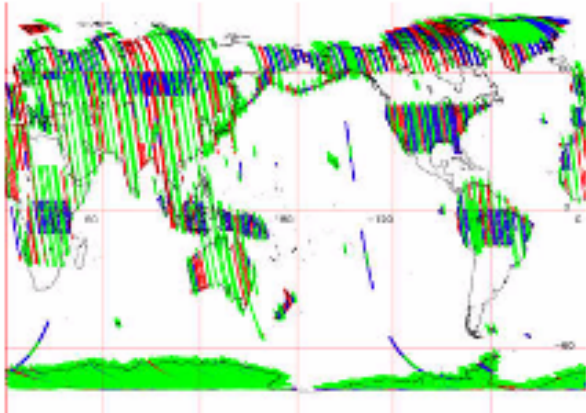
Login

K&C User ID:
Password:

Login

Links

PALSAR Scenario (Ascending passes) Browse Pr
Cycle : [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) >>> Tu
2006.11.10--2006.12.26



Click on Map to Download and Zoom

[Detailed Informa](#)

Download Table Data (CSV)

Status	Obs. Data	RSP	Start Lat of Pass image	End Lat of Pass image	Obs. Mode	Proc. Level	Pol.	Data Removal date	Thumbnail
Not Scheduled	20061110	535	-	-	FBS	BRS	HH	-	-
Browse images generated	20061110	489	N32.31	N37.95	PLR	BRS	-	-	Thumbnail
Browse images generated	20061110	489	S75.24	S63.53	FBS	BRS	HH	-	Thumbnail
Browse images generated	20061110	443	S74.41	S63.49	FBS	BRS	HH	-	Thumbnail
Browse images generated	20061110	397	S17.34	S11.34	FBS	BRS	HH	-	Thumbnail
Not Scheduled	20061110	397	-	-	FBS	BRS	HH	-	-
Browse images generated	20061110	397	S75.44	S74.79	FBS	BRS	HH	-	Thumbnail
Browse images generated	20061110	397	N34.62	N39.21	FBS	BRS	HH	-	Thumbnail
Browse images generated	20061110	397	S36.31	S31.84	FBS	BRS	HH	-	Thumbnail

Legend:

- Requested passes (1370)
- Scheduled passes (88)
- Browse images generated (550)

