

見つめるのは大地の表情

~ Gazing into Earth's Expression ~



ALOS(DAICHI) & PALSAR STATUS

JANUARY 16, 2007

JAXA ALOS project
Norimasa Ito

ALOS status

(1) ALOS Launch :

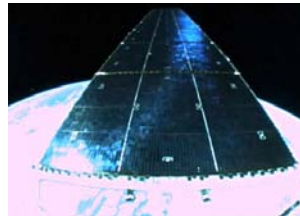
01:33UT, January 24
from TNSC by H-IIA #8



January 2 @ TNSC

(2) Solar paddle deployment :

~01:55UT, January 24



Solar Paddle

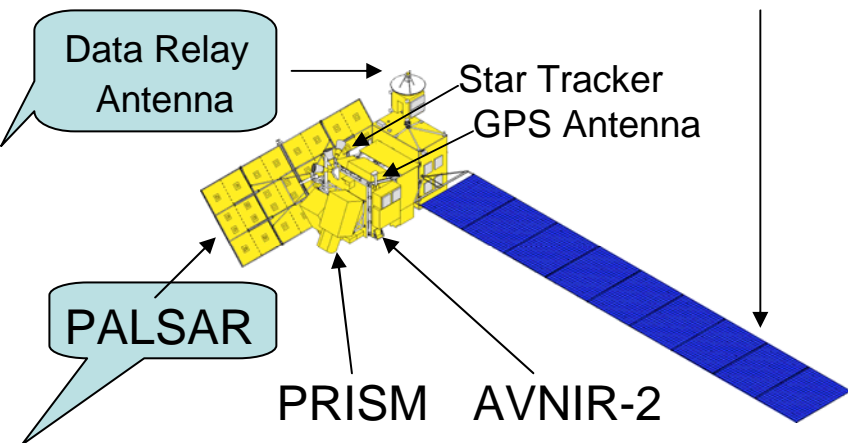
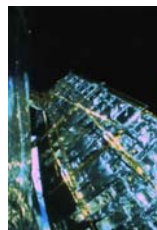
(3) DRC antenna deployment :

~00:45UT, January 25

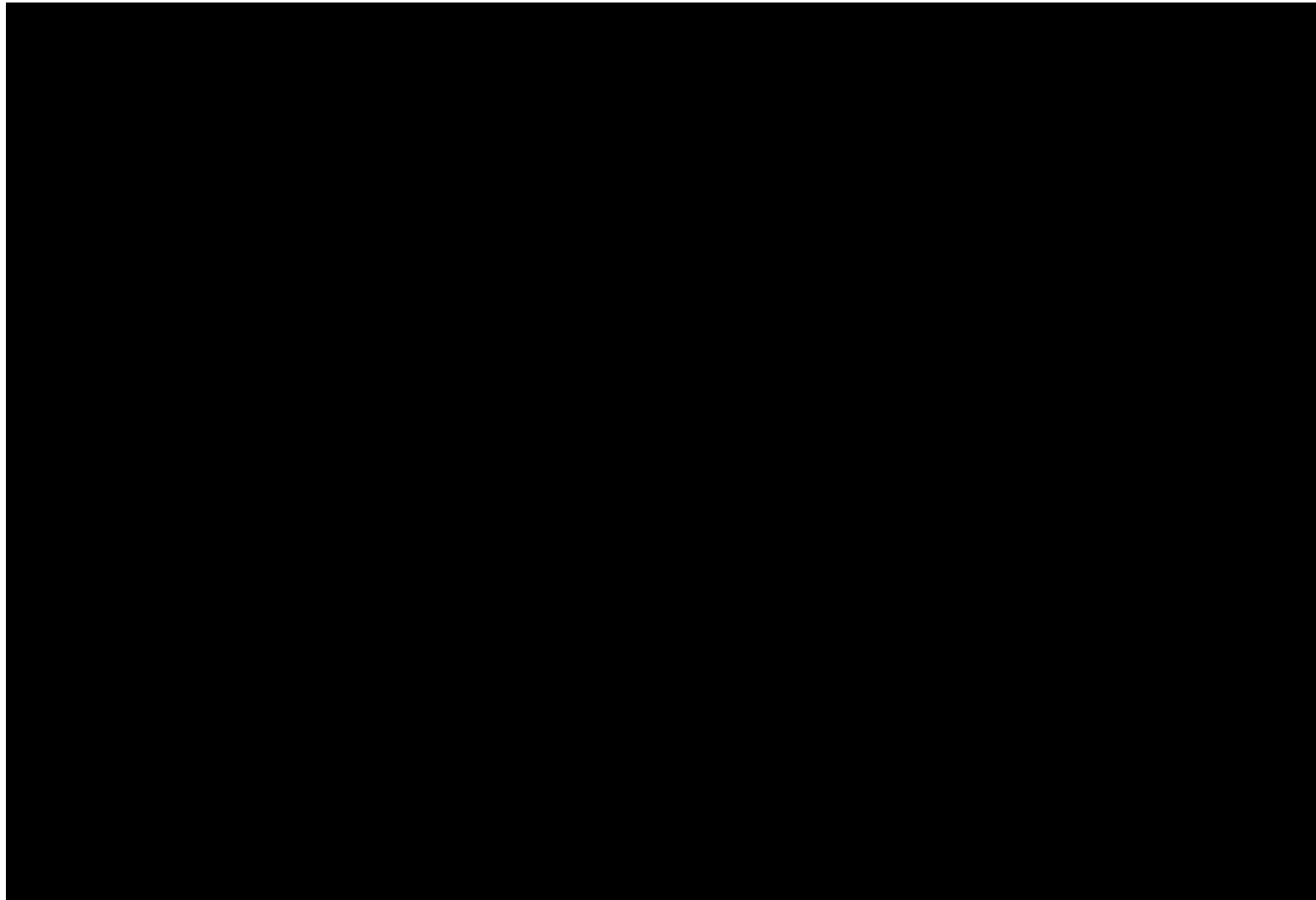


(4) PALSAR antenna deployment :

~03:10UT, January 26



Launch ~ PALSAR Deployment (Real images and CG)



ALOS status

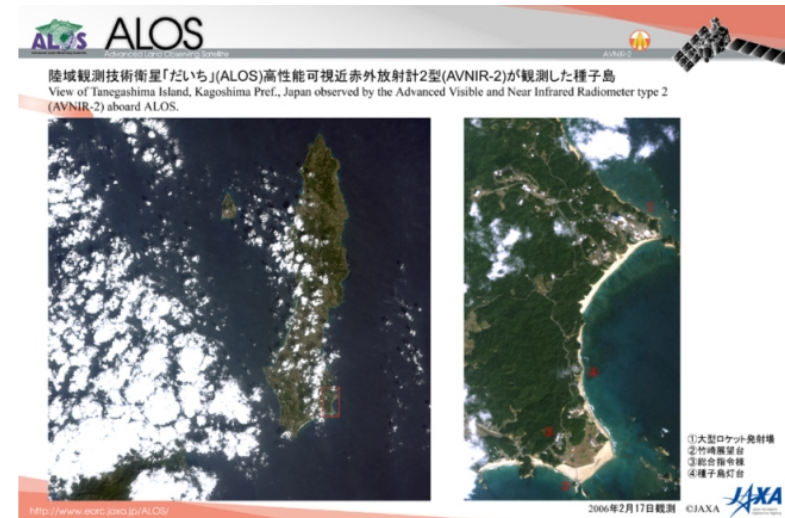
	Specification	Result
Spacecraft Mass	4000kg	4000.8kg
Generated Power	7kW @5years	~8.5kW @BOL(>7kW @5years)
Design Life	>3years	>5years (*)
Orbit	Sun Synchronous (691.65km)	Sun Synchronous (within specification)
Repeat Cycle (Sub-Cycle)	46 days (2 days)	46 days (2 days)

(*)Estimation from fuel, power generation, battery etc.

ALOS First images



PRISM : February 14



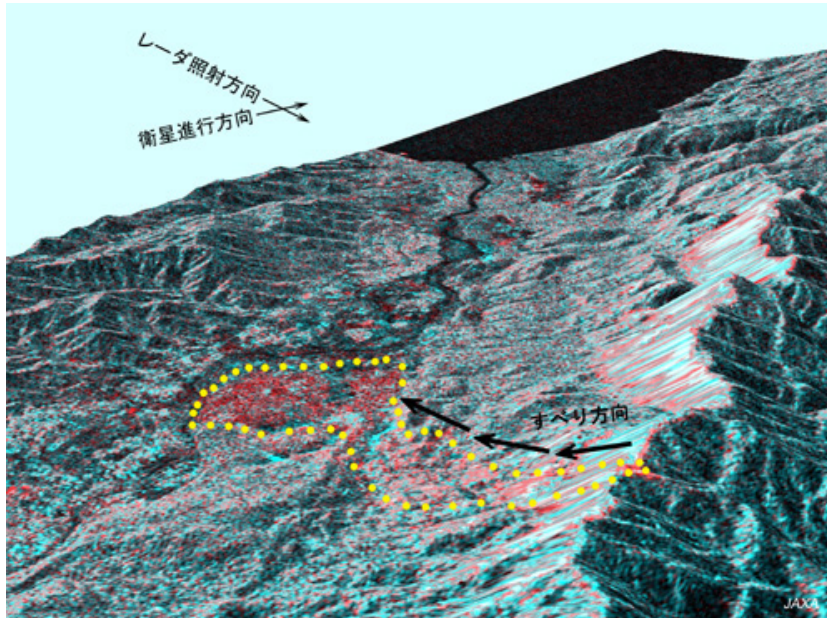
ABNIR-2 : February 17



PALSAR : February 15

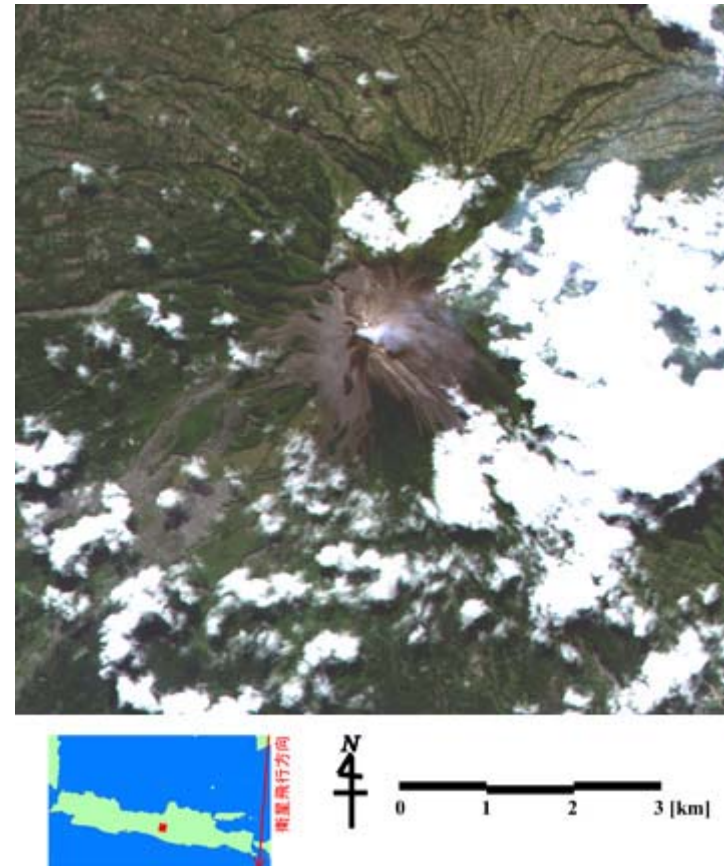
Disaster monitoring

Landslide in the Philippines



PALSAR : February 24

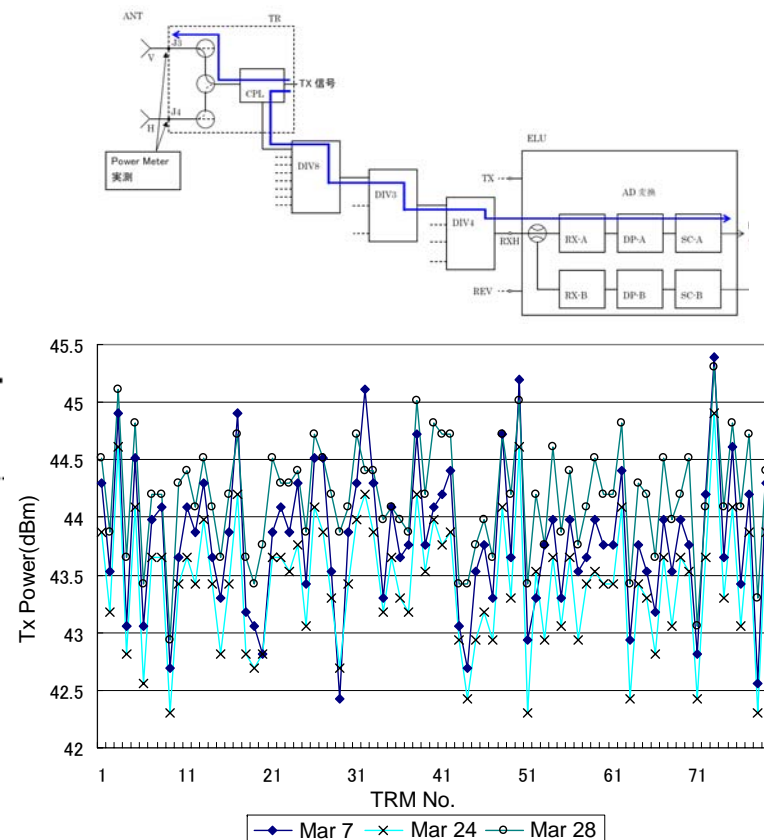
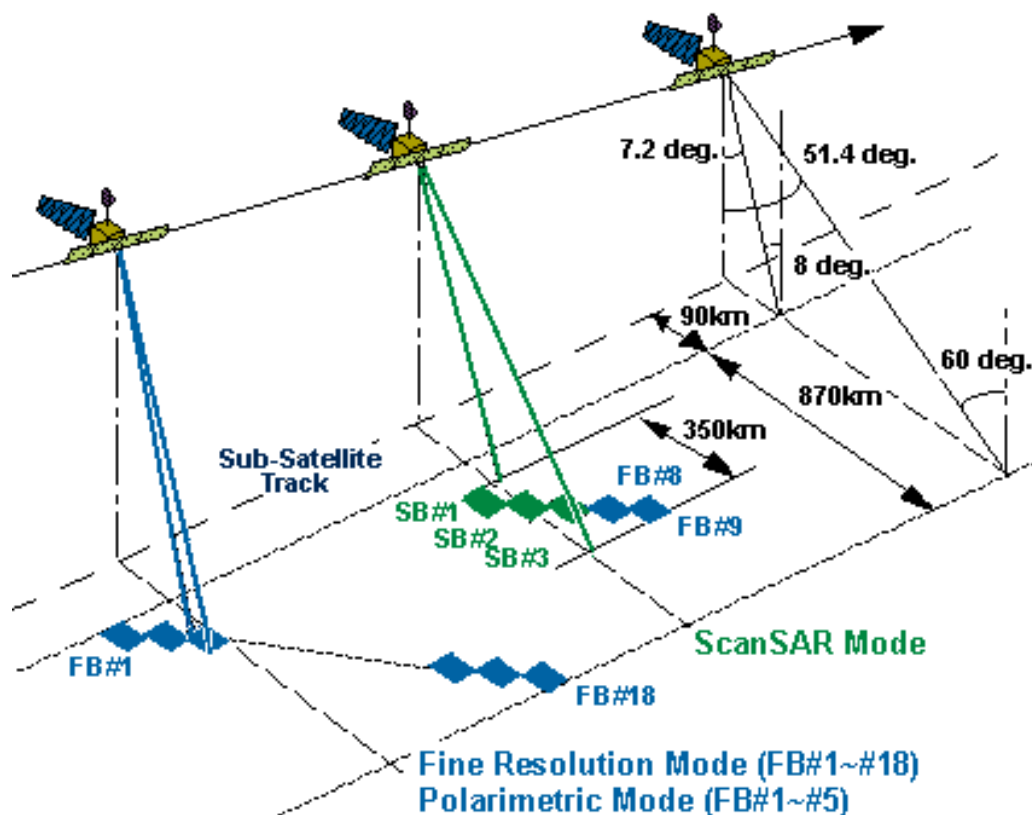
Eruption, Merapi volcano, Java



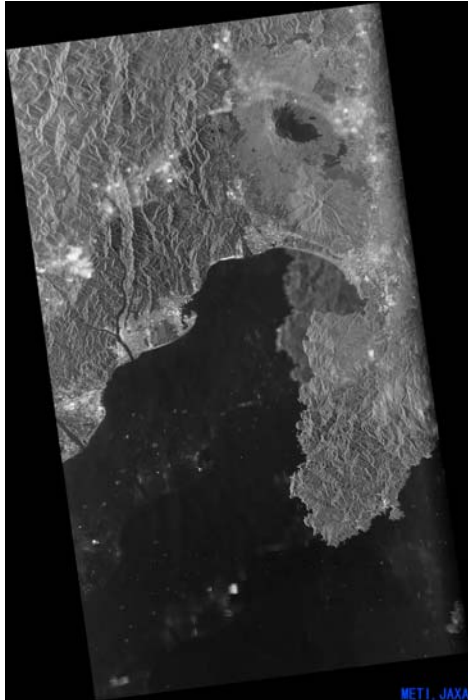
AVNIR-2 : April 29

PALSAR Status

- ◆ All observation modes (*) have been successfully operated.
(*) FBS, FBD, DSN, PLR, WB
- ◆ All components including 80 T/R modules are in good condition.



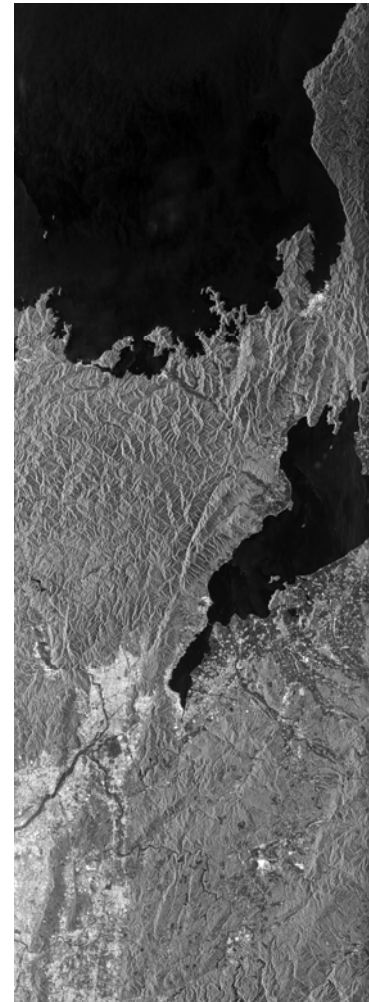
PALSAR Status



February 15
(First Image)



Antenna pattern
Optimization



March 21

Az ambiguity disappeared.

Schedule

2006	JAN	FEB	MAR	APR	MAY	JUN	OCT
Review					▲ 5/15			▲ 10/23	
Operational Phase	▲ Launch (1/24)								
	■ Critical Period(1/24 - 1/28)								
		Initial Checkout Period							
					Initial Cal/Val Period				
								Routine Operations Period	

Conclusion

- ◆ **ALOS was successfully launched and injected into the orbit.**
- ◆ **Initial Checkout and Cal/Val activities from launch to Oct 23 verified all functions and basic performances of bus system, PRISM, AVNIR-2 and PALSAR.**
- ◆ **No significant malfunction affects any ALOS function and performance so far (Almost 1 year).**
- ◆ **Long mission life (more than 3 years) is expected from the results of fuel consumption, Solar paddle power generation, battery properties, etc.**