

ALOS acquisition simulation results

Conditions & Restrictions

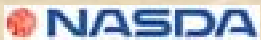
- Mission analysis simulation
- Input requests

Simulation results.

- Success rate for each sensor
- Success rate for each area

Futute plan

NASDA/EORC



Conditions & Restrictions (1)

Mission analysis simulation

- **Fix some program bugs** and **optimize** the simulation, etc.
- The simulation was **performed in EORC**.
 - Same software used in the real operation, but low CPU power.
 - Restricted case was simulated in this time.
- PALSAR mode change requires 247 sec time interval, which is corresponding to 1700km on the ground.
 - > **May be reduced to 94 sec.**
- Only one data relay test satellite(DRTS-W) is available.
- The data downlink time for about 9 hours/day is assigned to ALOS mission.

Conditions & Restrictions (2)

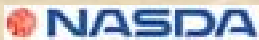
Input requests

- Start date: **May 1th in 2005**, Term: **1 year, 3 months**
- Priority and input requests.

Priority	Request name		Notes
1	Cal/Val		Small number of scenes
2	Scenario	PALSAR	Large number of scenes
		PRISM	
		AVNIR2	
	ERSDAC		Many palsar requests
3	Goographical survey ins.(Japanese institute)		Incorporated in the scenario
3, 4	Other Japanese agency, Etc.		

Bulue area; Input requests

- **Harmonize the basic observation scenario with ERSDAC requests.**
(Under negotiation)



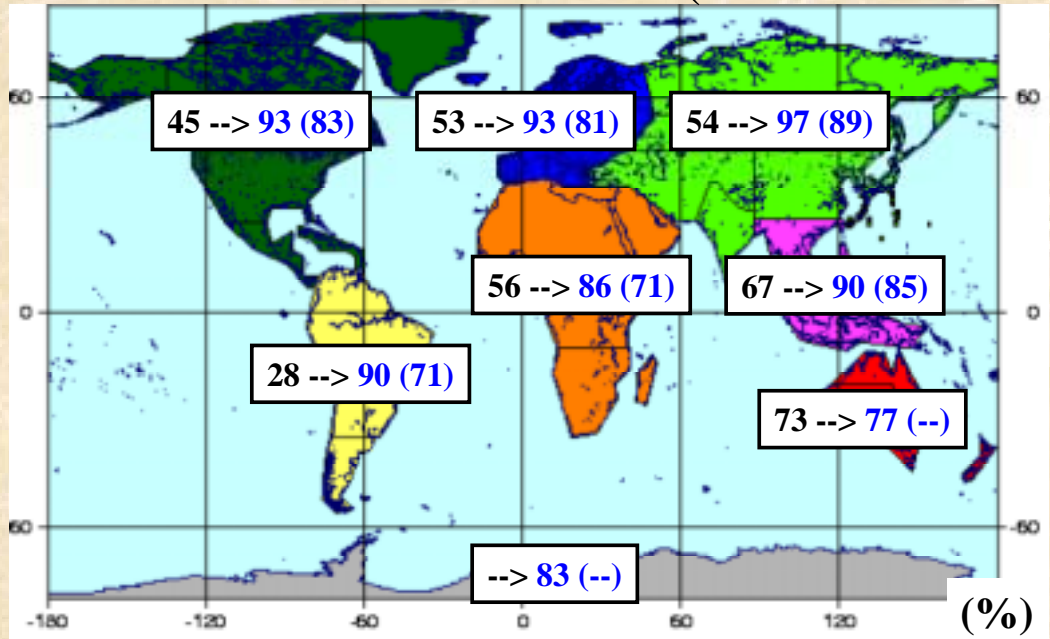
Simulation results of the scenario (1)

Success rate for each sensor.

Condition, etc.	Executed in at		2002.09	2003.04	
	Input Request		MMO	EORC	
	Term		ALL	Without optical sensor senario	With optical sensor senario
			3 years	1 year	3 months
Success Rate (%)	PALSAR	Asc.	51	88	79(+28)
		Desc.	42	91	-----
		Scan	44	93	77(+33)
	PRISM		48	-----	76(+28)
	AVNIR-2		77	-----	95(+18)

of the scenario (2)

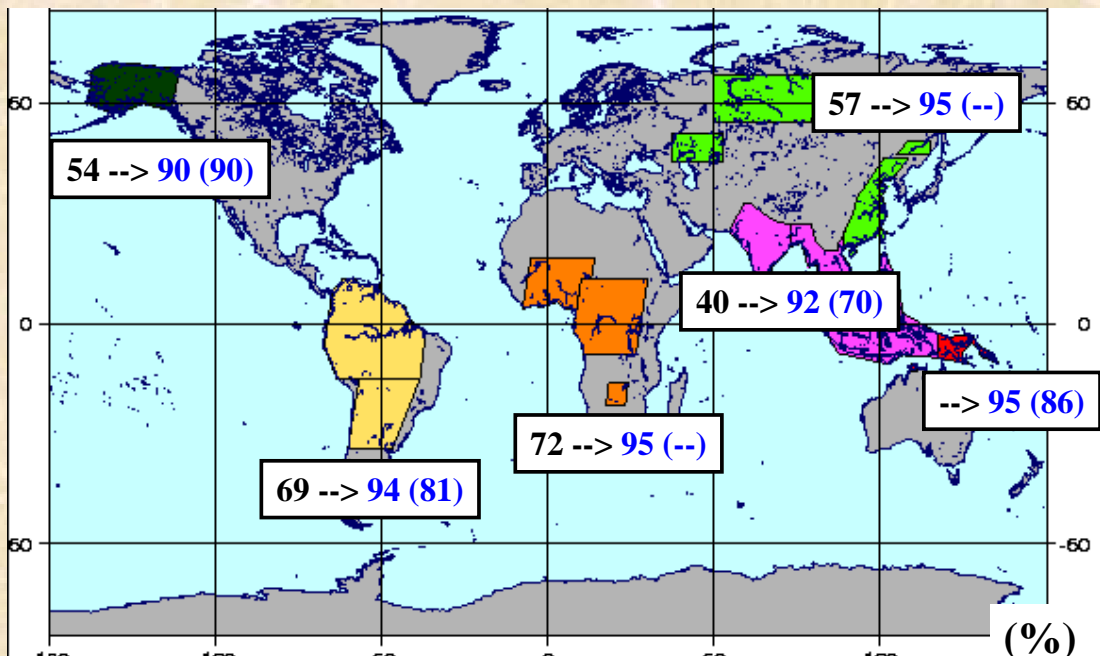
Success Rate for each area (PALSAR Asc.)



2002.10 --> 2003.04 (with opt. scenario)



Success Rate for each area (Wetland ScanSAR)



Future plan

