

ALOS Kyoto & Carbon Initiative Science Team meeting #14

June.16

1. Scenario requests acquisition status.
2. Acquisition status on a map
3. Future
4. TDRSS

RESTEC/Kaoru Tsuzuku

Scenario requests acquisition status (1/3)



Scenario results (Cycles 32-34 and Total)

Cycle 32 (FBS)

Cycle 33 (FBS)

			Cycle32(2009/12/13~2010/1/27)				Cycle33(2010/1/28~2010/3/14)			
			req[id]	req[scene]	obs[scene]	obs rate[%]	req[id]	req[scene]	obs[scene]	obs rate[%]
PALSAR	Asce	ALL	2960	52628	45877	87	2559	49076	40697	83
	Desce		447	2456	2069	84	397	1939	1465	76
		ScanSAR_Wetlands	159	1072	798	74	134	859	638	74
PRISM	Desce	OB1+OB2	895	107764	90532	84	1993	196801	157093	80
		Nadir	895	41506	34790	84	1993	70086	55833	80
AVNIR-2	Desce		688	15561	12592	80	1740	32612	25549	78

Cycle 34 (FBS)

Cycle34(2010/3/15~2010/4/29)			
req[id]	req[scene]	obs[scene]	obs rate[%]
1186	26676	22682	85
109	450	343	76
128	831	560	67
1443	171018	144845	85
1443	61987	52724	85
1277	26517	22048	83

Average cycles 32-34

FBS 85%

ScanSAR Wetlands: 72%

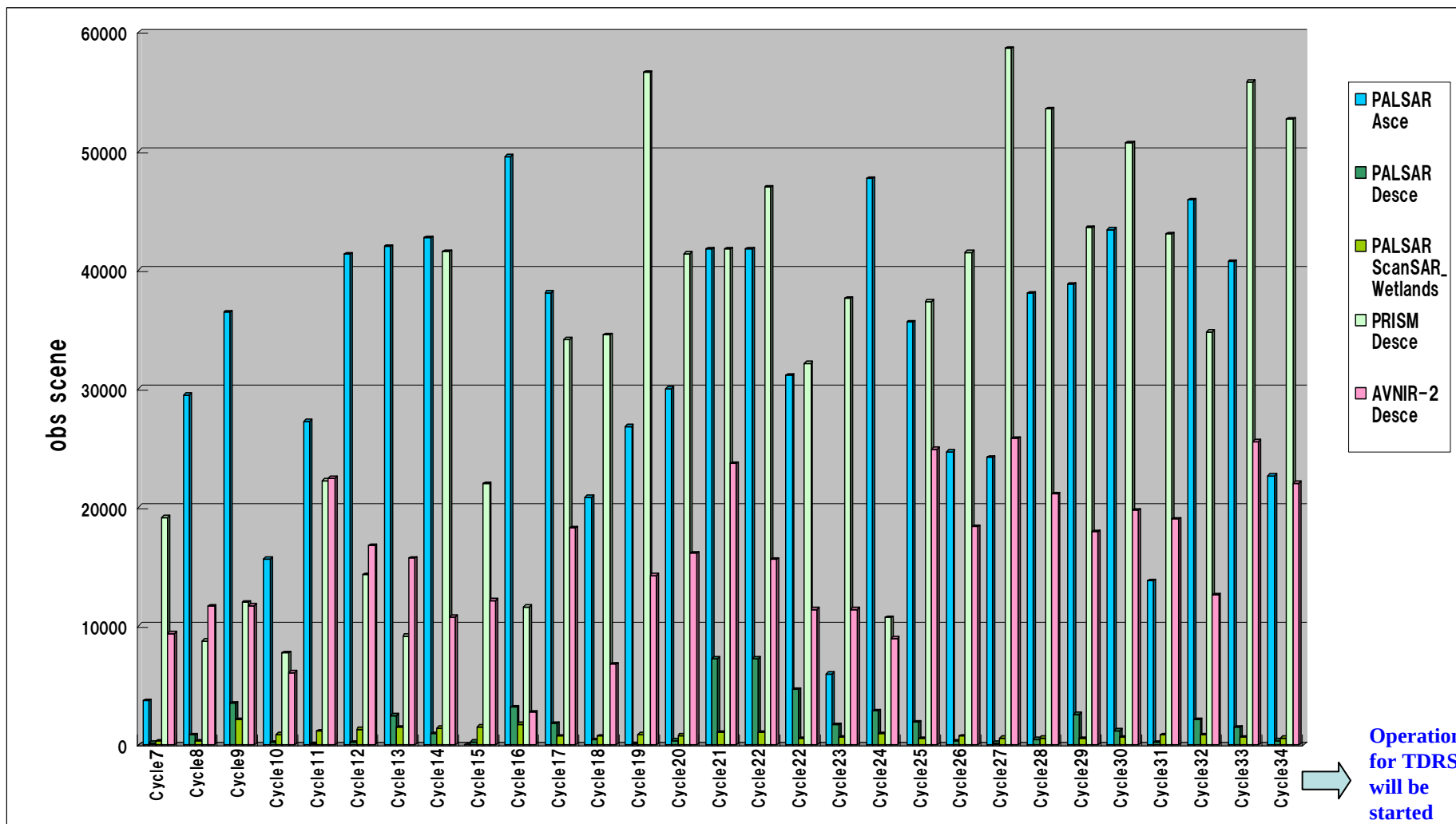
Total (Cycles 7-34)

			Cycle7-34(2006/10/20~2010/4/29)			
			req[id]	req[scene]	obs[scene]	obs rate[%]
PALSAR	Asce	ALL	59124	1102788	851769	77.2
	Desce		16546	116050	83476	71.9
		ScanSAR_Wetlands	11321	66623	41913	62.9
PRISM	Desce	OB1+OB2	40184	3562334	2484248	69.7
		Nadir	28818	1304036	914301	70.1
AVNIR-2	Desce		29514	572100	431284	75.4

Scenario requests acquisition status (2/3)



Scenario results (Acquisition scene number)

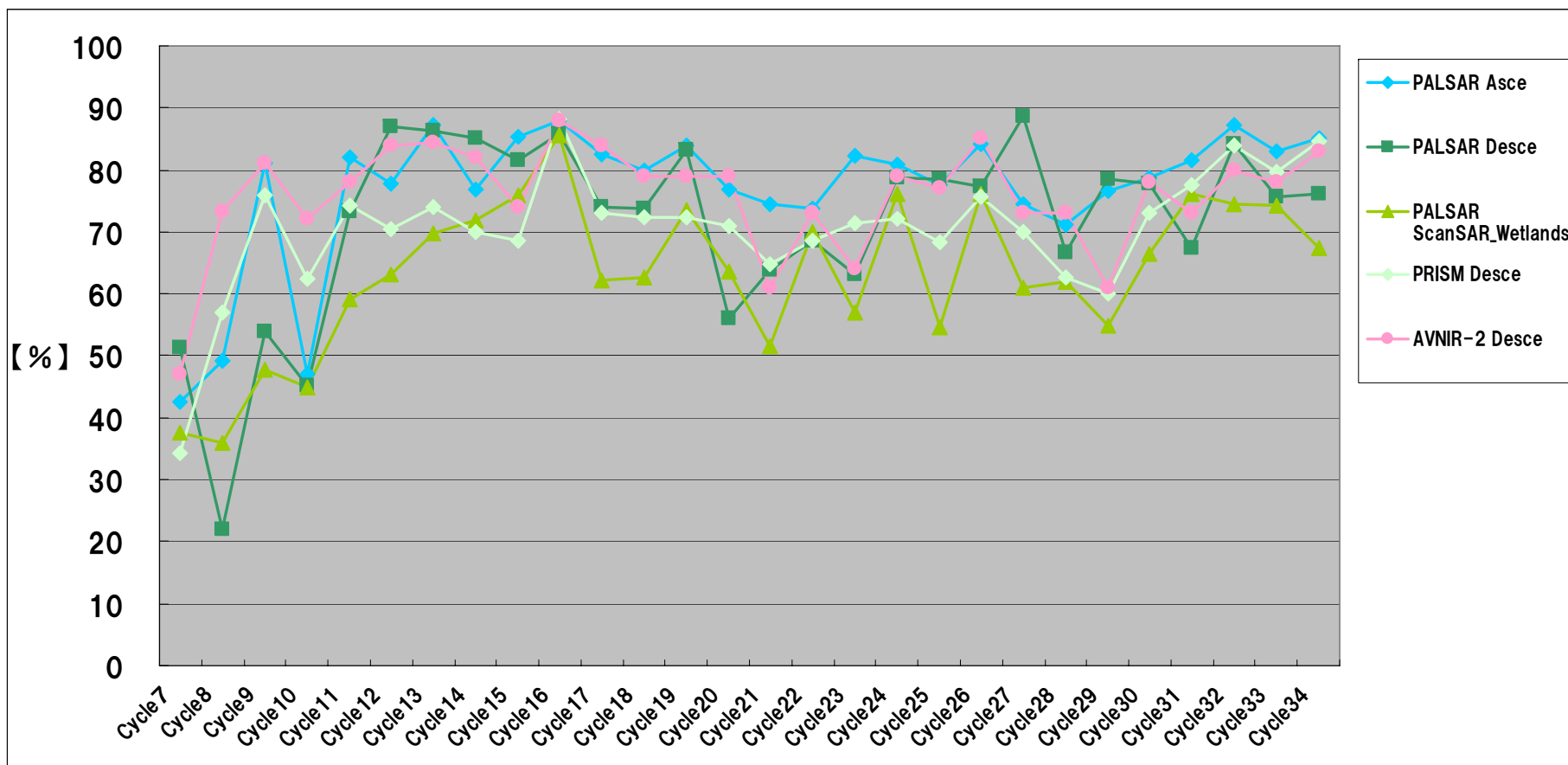


*PRISM :nadir only

Scenario requests acquisition status (3/3)

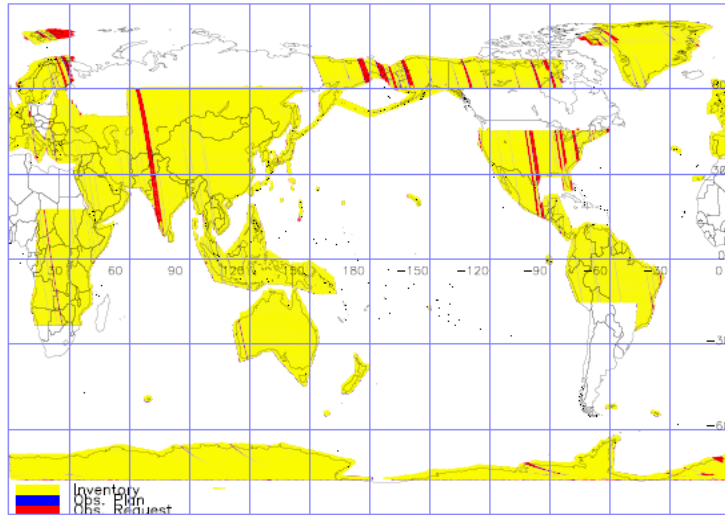


Scenario observation rate

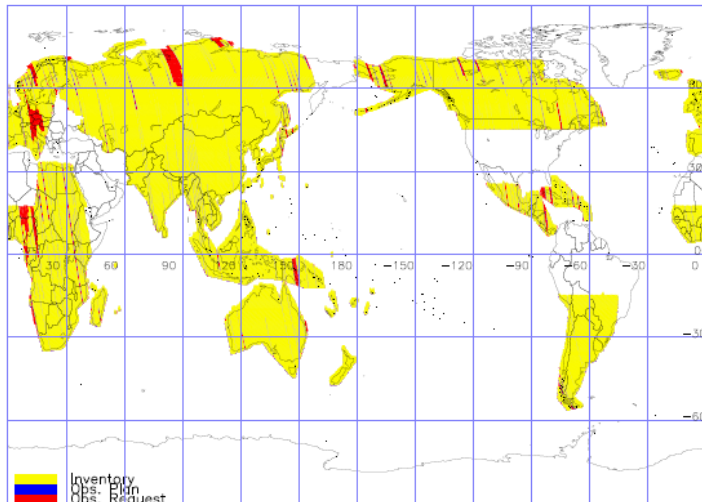


Cycle7	2006/10/20	2006/12/4	Cycle14	2007/9/7	2007/10/22	Cycle21	2008/7/25	2008/9/8	Cycle28	2009/6/12	2009/7/27
Cycle8	2006/12/5	2007/1/19	Cycle15	2007/10/23	2007/12/7	Cycle22	2008/9/9	2008/10/24	Cycle29	2009/7/28	2009/9/11
Cycle9	2007/1/20	2007/3/6	Cycle16	2007/12/8	2008/1/22	Cycle23	2008/10/25	2008/12/9	Cycle30	2009/9/12	2009/10/27
Cycle10	2007/3/7	2007/4/21	Cycle17	2008/1/23	2008/3/8	Cycle24	2008/12/10	2009/1/24	Cycle31	2009/10/28	2009/12/12
Cycle11	2007/4/22	2007/6/6	Cycle18	2008/3/9	2008/4/23	Cycle25	2009/1/25	2009/3/11	Cycle32	2009/12/13	2010/1/27
Cycle12	2007/6/7	2007/7/22	Cycle19	2008/4/24	2008/6/8	Cycle26	2009/3/12	2009/4/26	Cycle33	2010/1/28	2010/3/14
Cycle13	2007/7/23	2007/9/6	Cycle20	2008/6/9	2008/7/24	Cycle27	2009/4/27	2009/6/11	Cycle34	2010/3/15	2010/4/29

Acquisition status on a map (1/3)



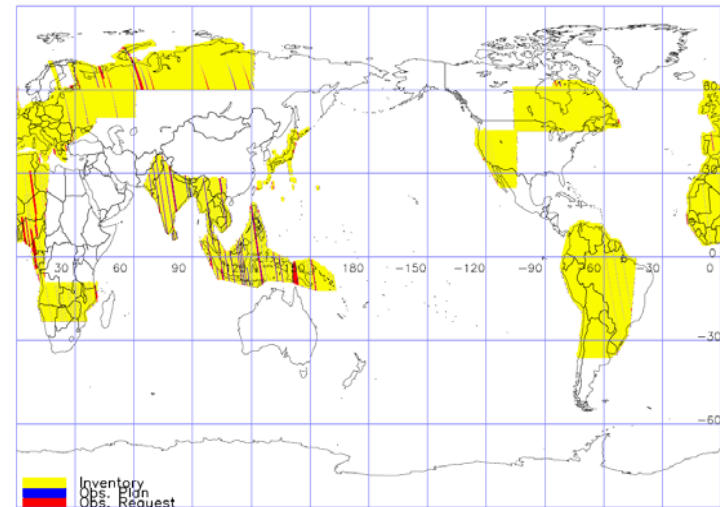
Cycle32 : FBS (2009/12/13~2010/1/27)



Cycle33 : FBS (2010/1/28~2010/3/14)

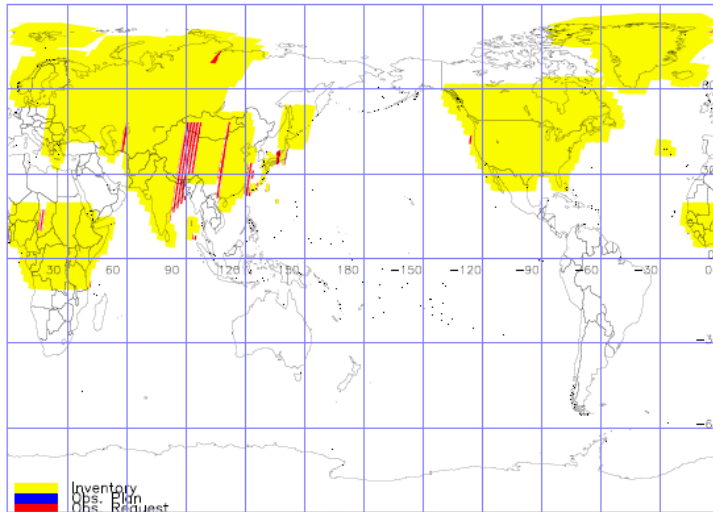
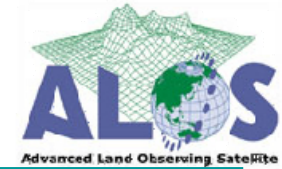
PALSAR Ascending (FBS)

-  Requested, but not acquired
-  Planned, but not yet acq.
-  Acquired OK

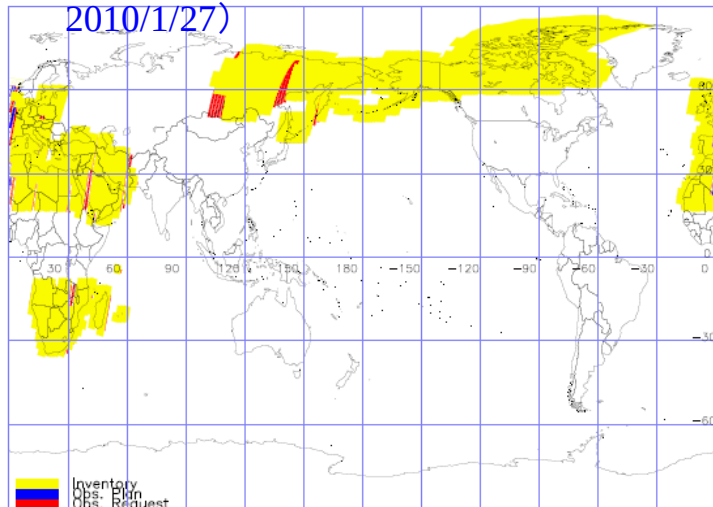


Cycle34 : FBS (2010/3/15~)

Acquisition status on a map (2/3)



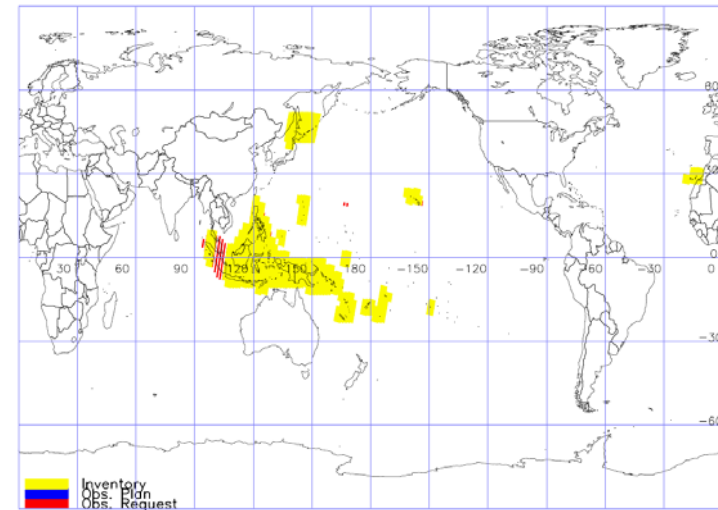
Cycle32 (2009/12/13~
2010/1/27)



Cycle33 (2010/1/28~)

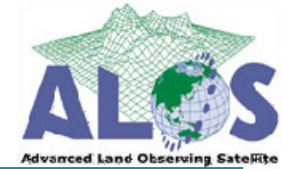
PALSAR Descending (all ScanSAR)

-  Requested, but not acquired
-  Planed, but not yet acquired
-  Acquired OK

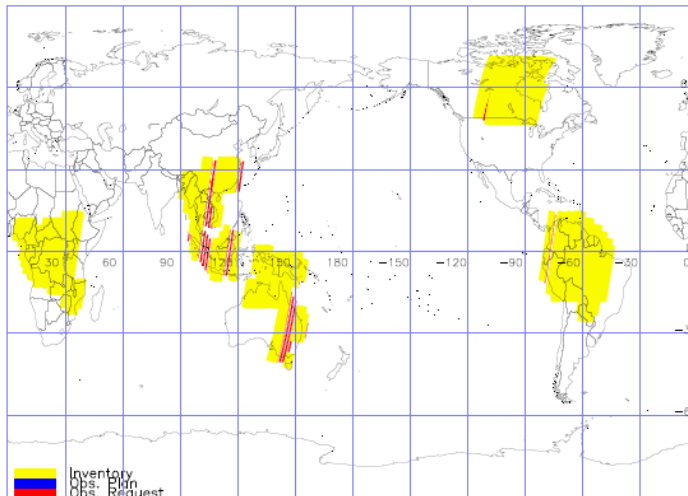


Cycle34 (2010/3/15~2010/4/29)

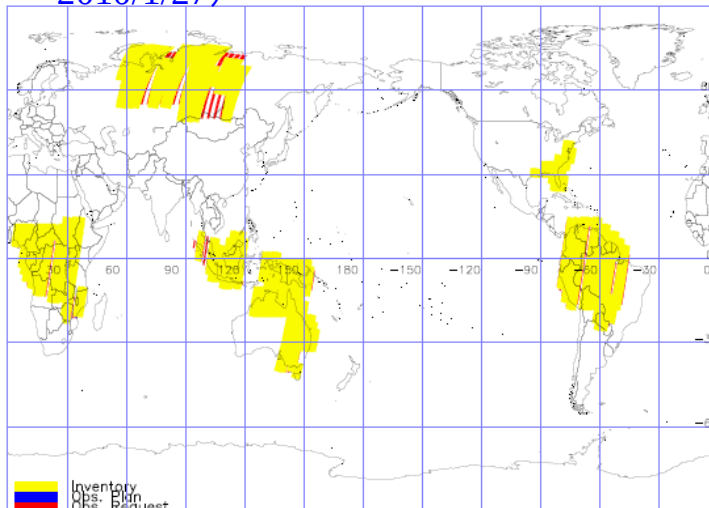
Acquisition status on a map (3/3)



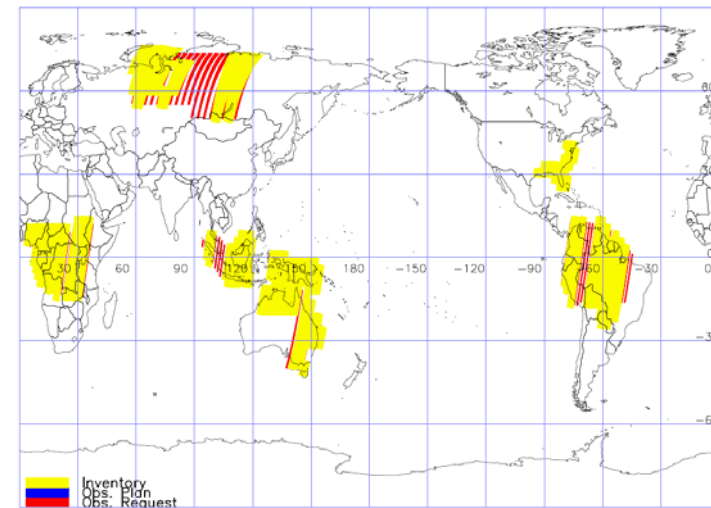
PALSAR Descending (ScanSAR_Wetlands)



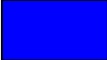
Cycle32 (2009/12/13~
2010/1/27)



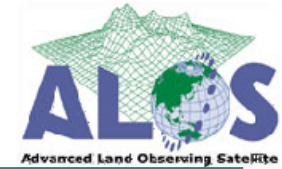
Cycle33 (2010/1/28~)



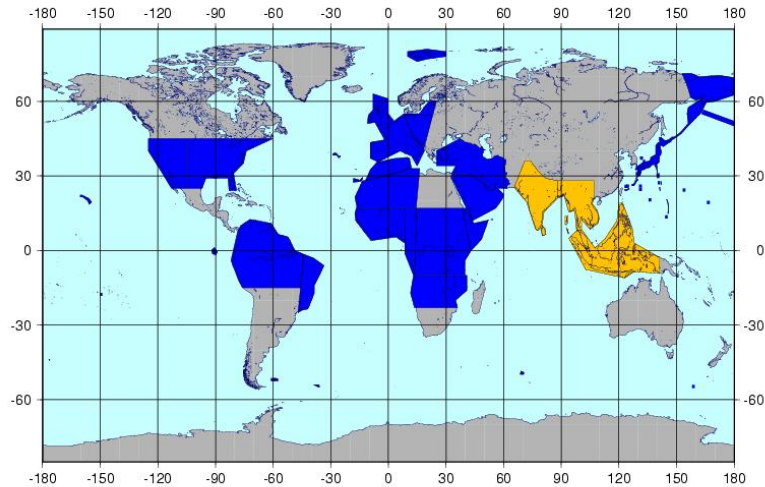
Cycle34 (2010/3/15~)

-  Requested, but not acquired
-  Planned, but not yet acquired
-  Acquired OK

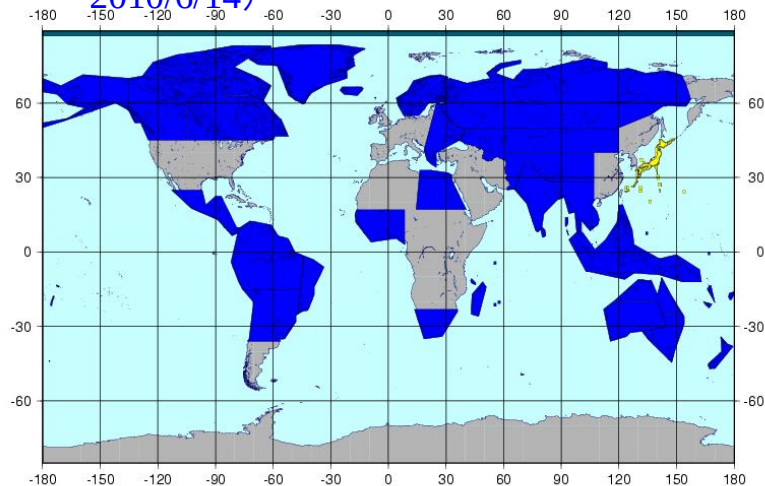
Future plan (“FBD summer 2010”)



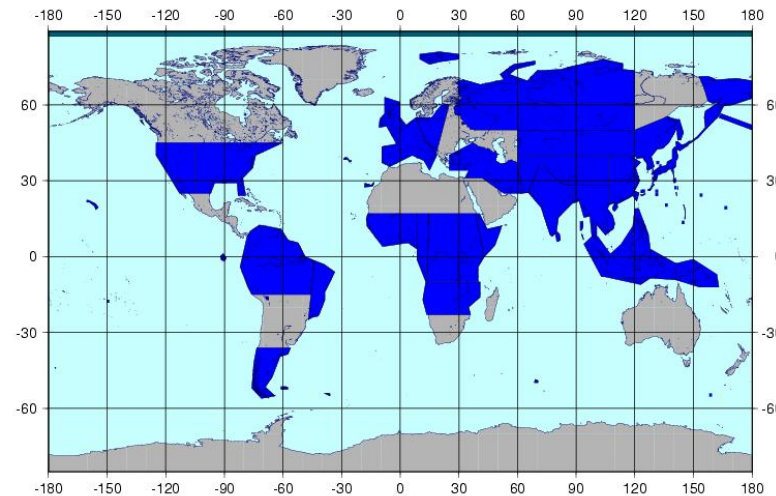
PALSAR Ascending



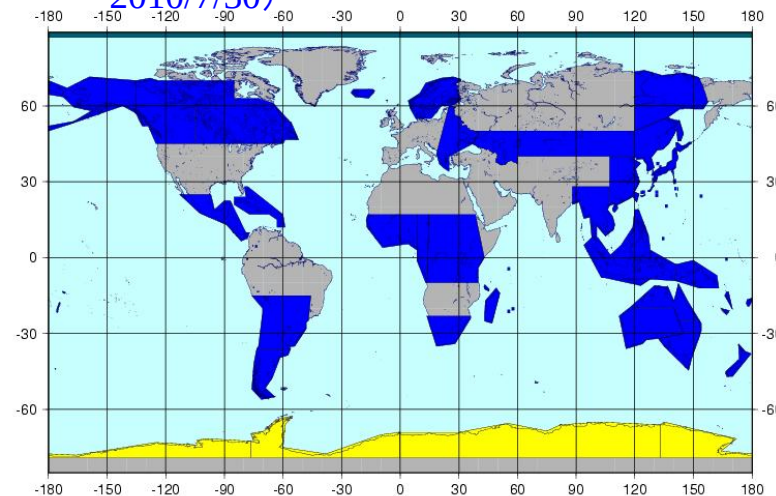
Cycle 35 (2010/4/30~
2010/6/14)



Cycle 37 (2010/7/31~2010/9/14)

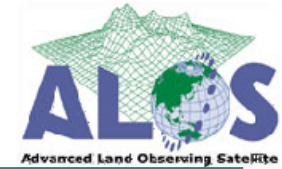


Cycle 36 (2010/6/15~
2010/7/30)

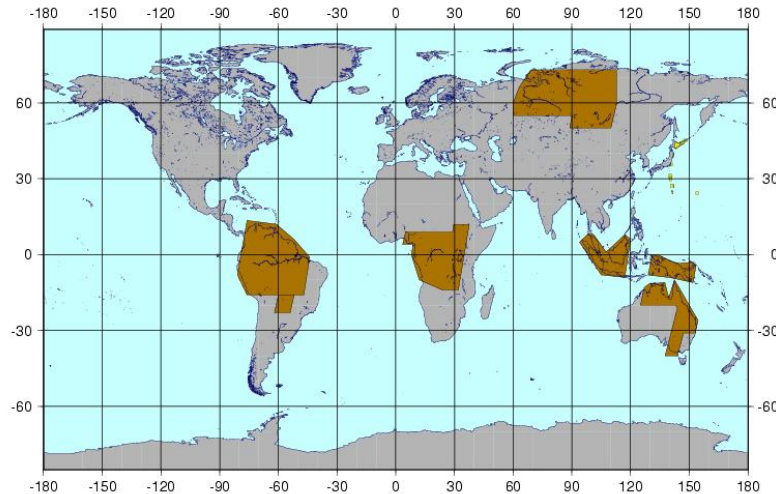


Cycle 38 (2010/9/15~

Future plan (“WB1 summer 2010”)

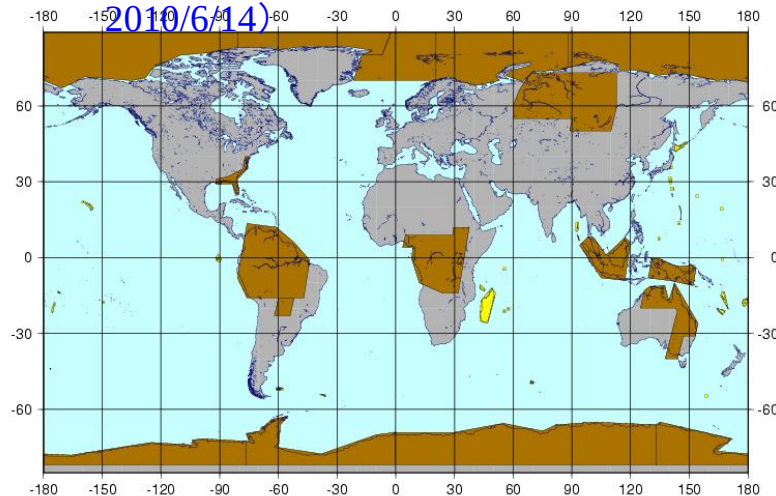


PALSAR Descending (include ScanSAR_Wetlands)



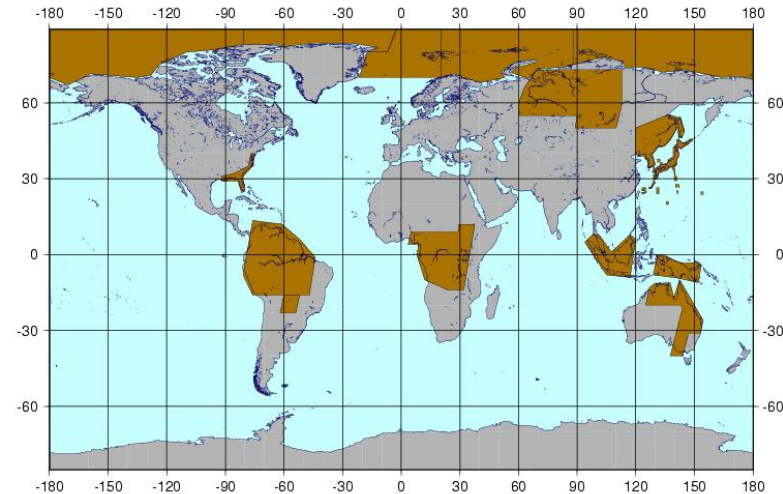
Cycle35 (2010/4/30~

2010/6/14)



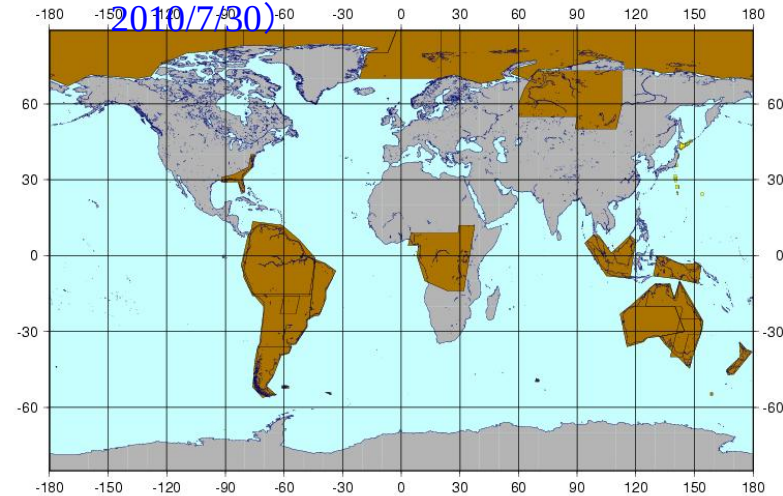
Cycle37 (2010/7/31~

2010/9/14)



Cycle36 (2010/6/15~

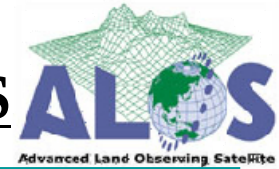
2010/7/30)



Cycle38 (2010/9/15~

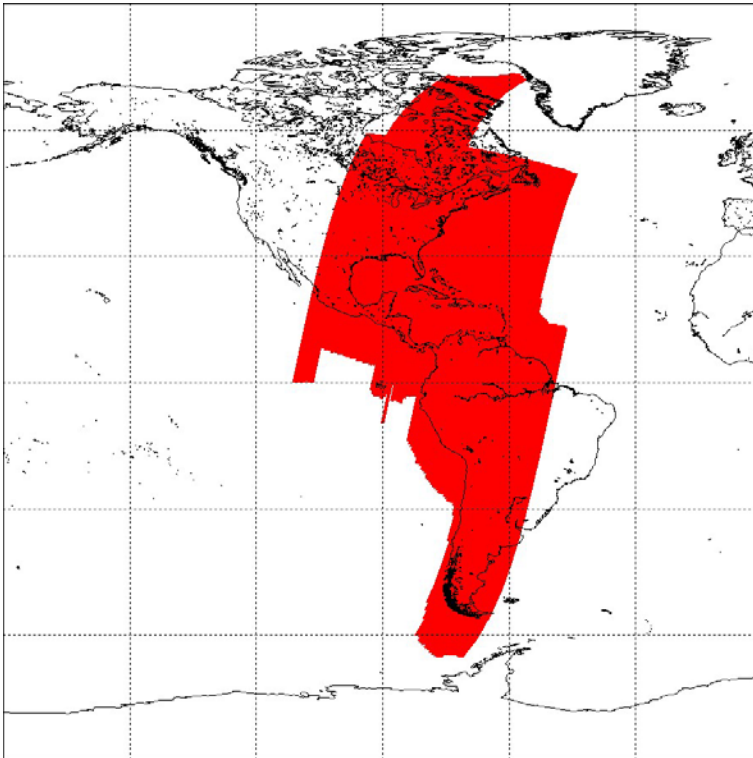
2010/10/30)

NASA Tracking and Data Relay Satellite System TDRSS

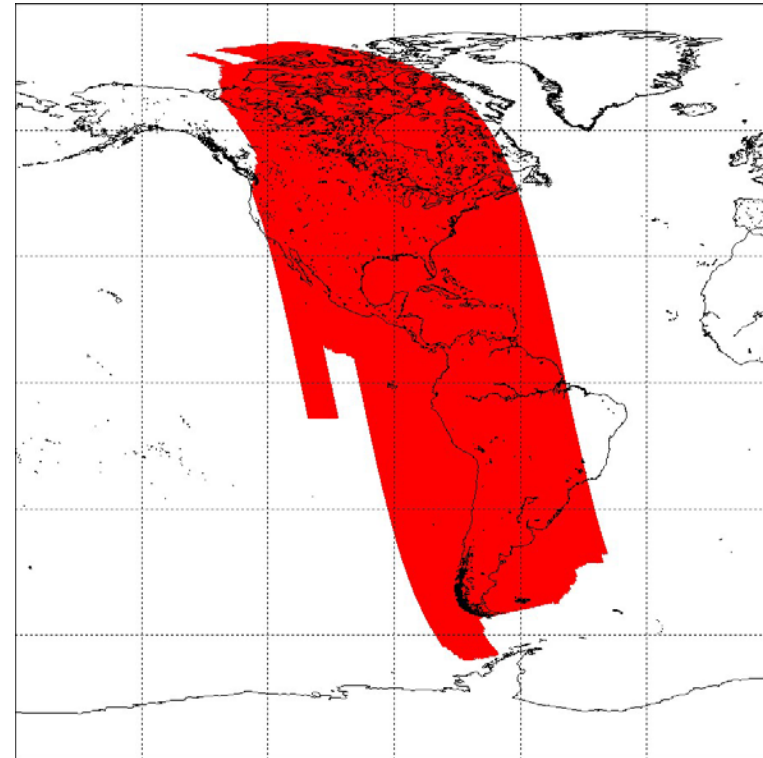


TDRSS coverage

■ Ascending



■ Descending

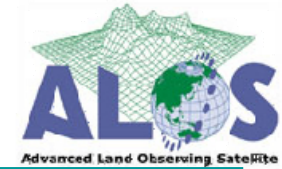


JAXA/NASA collaboration

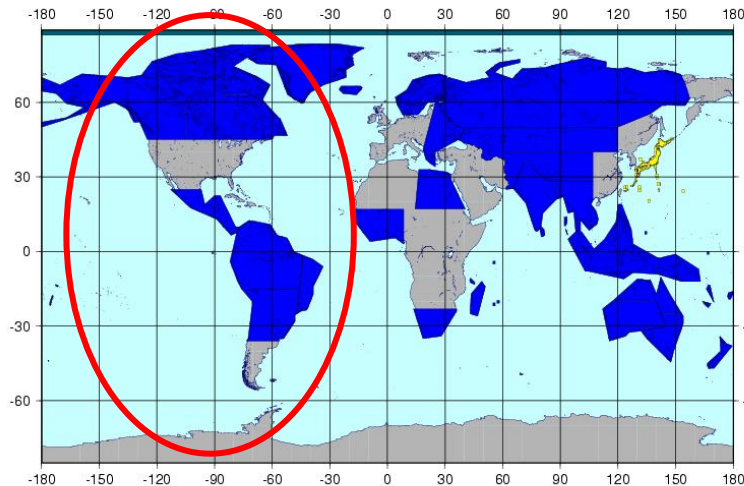
TDRSS operations started: 13 Apr. 2010

Downlink to White Sands, New Mexico (USA)

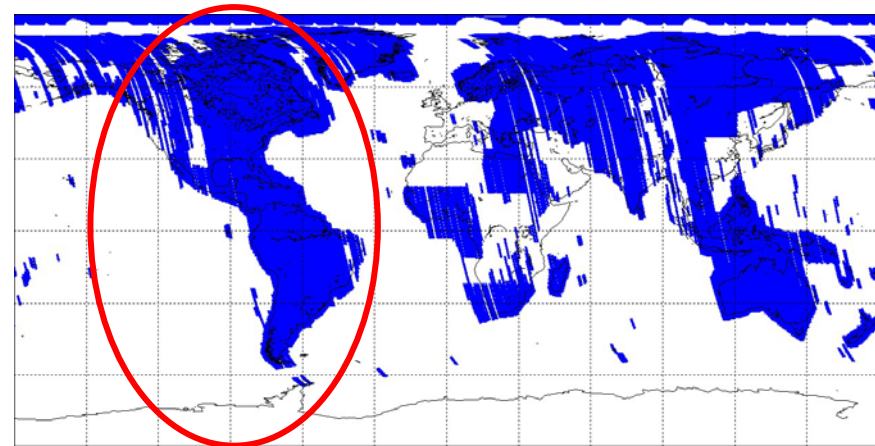
TDRSS



How has acquisition plan changed?



EORC basic acquisition plan



Result of simulation (JAXA + external requests included)

- Basic Observation Scenario (BOS) remains the same as earlier.
- NASA requests comprise entire North/South American continents in the same observation mode as the ALOS BOS-
- JAXA obtains copies of all data which are received by NASA under the agreement between JAXA and NASA
- All data available through AUIG