



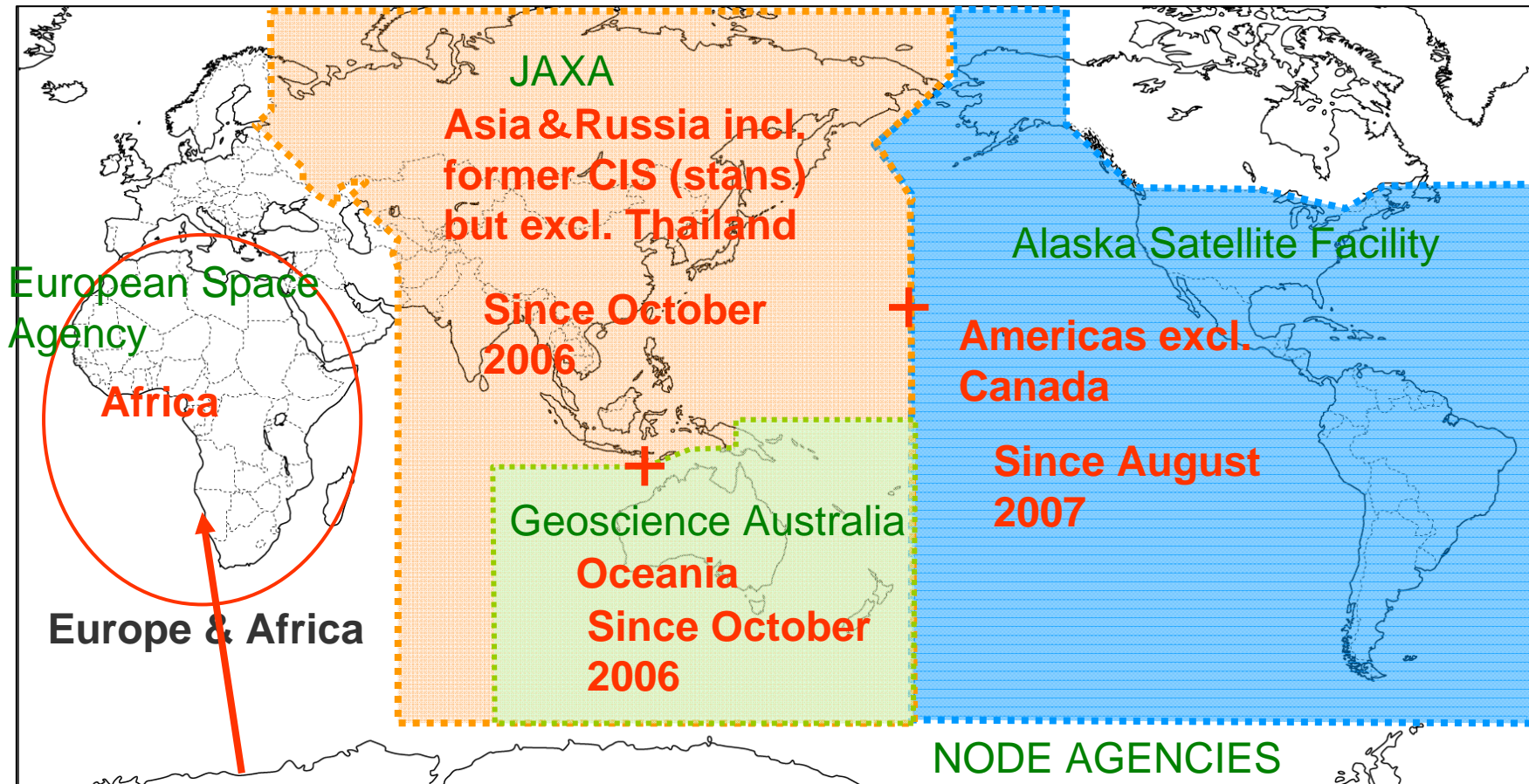
ALOSデータ利用
Advanced Land Observing Satellite
(ALOS)
Data Utilization

Remote Sensing Technology Center of Japan (RESTEC)

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ALOS Data Distribution

RESTEC has been distributing ALOS data for commercial purpose.



RESTEC will start selling ALOS Data in Africa shortly

ALOS Data Distribution by Country

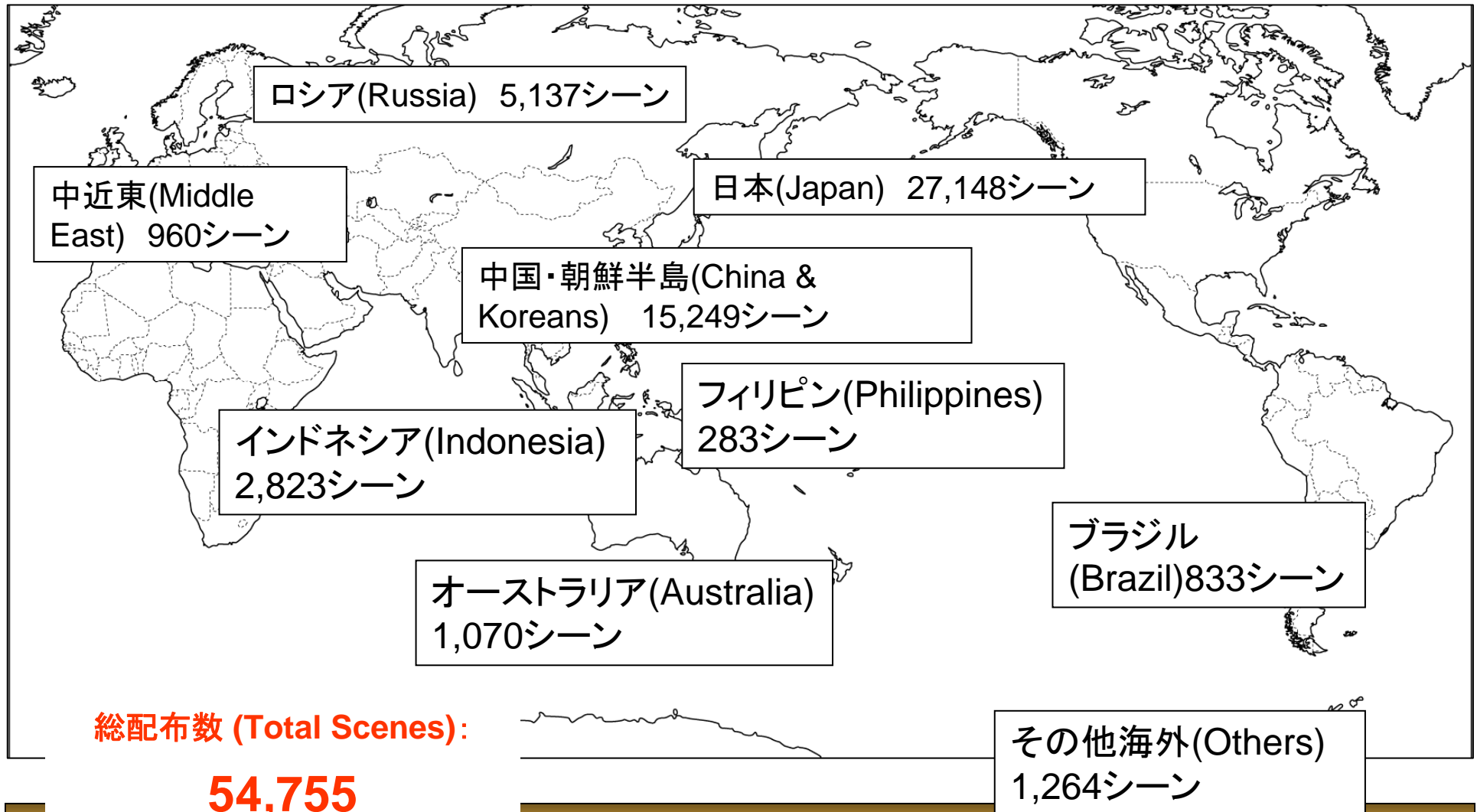
(2006/11 – 2009/3)

	18年度 FY2006	19年度 FY2007	20年度 FY2008	合計 Total	比率 (%)
日本 (Japan)	2117	11,341	21,527	34,985	63.9%
中国 (China)	106	2,790	5,366	8,262	15.1%
ロシア (Russia)	53	1,771	3,313	5,137	9.4%
インドネシア (Indonesia)		1,015	1,802	2,817	5.1%
オーストラリア (Australia)	32	411	627	1,070	2.0%
ブラジル (Brazil)		4	829	833	1.5%
フィリピン (Philippines)			283	283	0.5%
その他海外 (Others)	59	283	1,026	1,368	2.5%
合計 (Total)	2367	17,615	34,773	54,755	100.0%

(# of Scenes)

ALOS Data Distribution by Country

October 2006 – March 2009 : # of scenes



Sales by Sensor

		18年度 (FY 2006)	19年度 (FY 2007)	20年度(FY 2008)		
PRISM	Total	1,095	9,951	17,875	51.4%	
	Japan	982	6,274	10,575		
	Overseas	113	3,677	7,300		
AVNIR	Total	852	6,892	13,694	39.4%	
	Japan	760	4,844	9,967		
	Overseas	92	2,048	3,727		
PALSAR	Total	420	772	3,204	9.2%	
	Japan	375	517	980		
	Overseas	45	255	2,224		
Total	Total	2,367	17,615	34,773		100%
	Japan	2,117	11,635	21,522	100%	62%
	Overseas	250	5,980	13,251		38%

While optical sensor data accounted for 90% of total sales, PALSAR data showed highest increase in FY 20 reflecting increased demand from forestry sector.

ALOS Sensors and Potential Applications

PRISM

1. Map Creation
2. DEM for Map
3. City Planning
4. Agriculture
5. Forestry
6. Coastal Management
7. Illegal Disposal Control
8. Flood Monitoring
9. Sea Traffic Monitoring

AVNIR2

1. Large scale Map Creation
2. Large scale City Planning
3. Agriculture (Crop Identification etc.)
4. Forest Management
5. Coastal Management
6. Gulf pollution Control
7. Vegetation Monitoring
8. Large Scale Flood Monitoring

PALSAR

1. DEM creation
2. Interferometry for surface deformation
3. Biomass estimation
4. Forest fire Monitoring
5. Agriculture
6. Oil Spill Monitoring
7. Flood Monitoring
8. Soil Moisture
9. Ship Detection/ Identification

PROJECT By PALSAR DATA

Country	Application	Counter Part	Status
Japan	Development of the way for understanding paddy-field rice acreage by satellite data	MAFF	In operation
Brazil	Utilization of ALOS images to protect Brazilian Amazon Forest and combat against illegal deforestation	Policia Federal, IBAMA	In operation
Indonesia	Volcano Activities Monitoring System Using ALOS	BPPT, CVGHM, BAKOSURTANAL, LAPAN	In operation
Indonesia	Technical Development for small hydraulic power plant site preliminary survey using satellite data		In operation
Peru	Natural Environment Monitoring Study for Glacial Lake of the Andes Mountains of South America	Peru MOE	In operation
Phillipine	Update of 1/50,000 scale Map	NAMRIA	In operation

Emergency Response (1)

(2008.4.1-2009.3.31)

No.	Date	Category	Country	Sensor
1	2008.4.18	Fire	Argentina	PRISM
2	2008.4.25	Volcano	Indonesia	PALSAR
3	2008.5.1	Flood	Canada	PALSAR
4	2008.5.3	Volcano	Chile	PRISM
5	2008.5.4	Syclone	Myanmar	PALSAR
6	2008.5.13	Earthquake	China	PRISM AVNIR-2 PALSAR
7	2008.5.24	Flood	Chile	PALSAR
8	2008.6.2	Tidal Wave	Indonesia	PALSAR
9	2008.6.14	Earthquake	Japan	PRISM AVNIR-2 PALSAR
10	2008.6.25	Typhoon	Phillipine	PALSAR
11	2008.7.24	Earthquake	Japan	AVNIR-2 PALSAR
12	2008.7.24	Hurricane	USA	PALSAR
13	2008.7.29	Flood	Romania	PALSAR
14	2008.7.30	Volcano	Montserra	PALSAR

No.	Date	Category	Country	Sensor
15	2008.8.15	Flood	Lao PDR	AVNIR-2 PALSAR
16	2008.8.20	Flood	Nepal	PRISM AVNIR-2 PALSAR
17	2008.8.29	Flood	Japan	PALSAR
18	2008.8.30	Flood	Nepal	PALSAR
19	2008.8.30	Hurricane	Jamaica	PRISM
20	2008.9.1	Hurricane	USA	AVNIR-2 PALSAR
21	2008.9.1	Earthquake	China	AVNIR-2 PALSAR
22	2008.9.2	Flood	Japan	PALSAR
23	2008.9.3	Hurricane	USA	AVNIR-2 PALSAR
24	2008.9.5	Hurricane	Haiti	PALSAR
25	2008.9.12	Hurricane	USA	PALSAR
26	2008.9.16	Flood	Thailand	PALSAR
27	2008.9.18	Typhoon	Japan	PALSAR
28	2008.9.22	Flood	Nepal	PALSAR

Emergency Response (2)

(2008.4.1-2009.3.31)

No.	Date	Category	Country	Sensor
29	2008.10.5	Flood	Algeria	AVNIR-2
30	2008.10.15	Hurricane	San Bartelmy Island	PALSAR
31	2008.10.30	Earthquake	Pakistan	PRISM AVNIR-2
32	2008.11.16	Flood	Kenya	PRISM AVNIR-2
33	2008.11.26	Flood	Thailand	PALSAR
34	2008.11.27	Flood	Sri Lanka	PALSAR
35	2008.11.28	Flood	Brazil	PALSAR
36	2008.12.12	Flood	Colombia	PALSAR
37	2009.1.4	Earthquake	Indonesia	AVNIR-2 PALSAR
38	2009.1.6	Flood	Thailand	PALSAR
39	2009.1.9	Earthquake	Costa Rica	AVNIR-2
40	2009.1.10	Flood	USA	PALSAR
41	2009.1.23	Flood	Phillipine	PALSAR
42	2009.1.25	Flood	France	PALSAR

No.	Date	Category	Country	Sensor
43	2009.2.2	Volcano	Japan	AVNIR-2 PALSAR
44	2009.2.9	Fire	Australia	AVNIR-2 PALSAR
45	2009.2.9	Flood	Morocco	PALSAR
46	2009.2.12	Fire	Australia	PALSAR
47	2009.2.18	Flood	Australia	PALSAR
48	2009.2.20	Fire	Chile	AVNIR-2 PALSAR
49	2009.2.27	Flood	Namibia	PALSAR
50	2009.3.10	Fire	Japan	PALSAR
51	2009.3.12	Oil Spill	Australia	PALSAR
52	2009.3.12	Flood	USA	PALSAR
53	2009.3.25	Flood	USA	PALSAR
54	2009.3.30	Flood	Flood	AVNIR-2 PALSAR

Basic Observation Scenario & Observation Request

1. The ALOS observation strategy called “**Basic Observation Scenario**” is preset before launching. The Scenario is aimed to acquire spatially and temporally consistent global coverage on a repetitive basis.
2. To some extent, ALOS is operated under the similar observation strategy to LANDSAT. Unlike commercial satellites, Your area of interest in any part of the world is observed at least once a year by all three sensors of ALOS, even without your request. Japanese Area are observed in every cycle (i.e. every 46days).
3. Detailed information on the Basic Observation Scenario is available at the following web-site of JAXA/EORC;

<http://www.eorc.jaxa.jp/ALOS/obs/overview.htm>

Observation Priority

Rank	Observation Objective	
1	災害状況把握観測 Disaster Monitoring	
2	校正検証観測 Calibration/Validation	
3	共通観測 Common Observation	
	A	共同開発機関・パワーユーザ利用実証、JAXA内部研究 Research (JAXA, Japanese Government, METI/ERSDAC)
	B	共同開発機関・パワーユーザ・JAXA内部特定利用 JAXA, Japanese Government, METI/ERSDAC Unique
	C	広域データベース(基本観測計画) Basic Observation Scenario
4	JAXAとの協定に基づく協定機関による独自観測 Japanese Government Unique	
5	データノード及び一般ユーザによる独自観測(観測要求) Data Node & PD (commercial Users) Unique	
6	研究目的(公募型研究) Research (RA)	
7	その他 Others	

Observation Request

- **Observation Request of Commercial users in Asia & Russia should be submitted through RESTEC for its capacity of primary distributor (PD).**
- **RESTEC can submit the request representing all commercial users in Asia & Russia at “the ALOS Observation Management Conference” held biannually (May and November).
The conference members consist of JAXA, Japanese Government Agencies and RESTEC(PD).**

Basic rule for RESTEC in accepting/prioritizing observation request

- A) No request over Japan (Japan is observed every cycle)**
- B) Areas requested by many users**
- C) Bigger areas with obvious demand (specific project)**
- D) Request with less conflict with basic observation**
- E) No extra charge or commitment on your request**