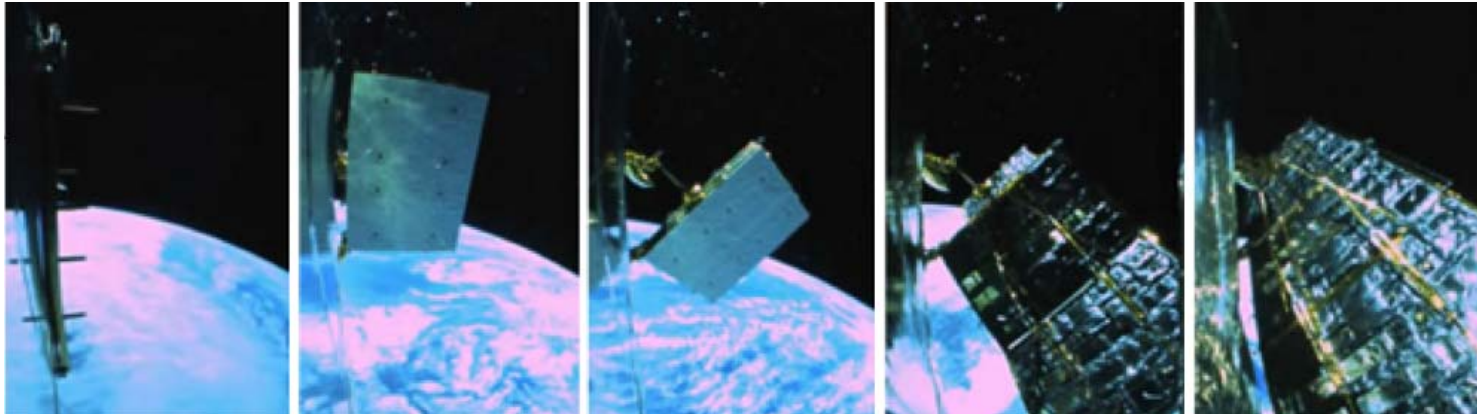


## *ALOS Kyoto & Carbon Initiative 7th Advisory Panel/Science Team meeting*



JAXA EORC, Tsukuba, Japan  
Jan 16-19, 2007

## KC#7 Agenda

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### Tuesday, Jan.16

**ALOS and PALSAR status**  
**Data products and formats**

### Wednesday, Jan. 17 (a.m.)

**K&C www interfaces**  
**Project up-date presentations from Science Team**

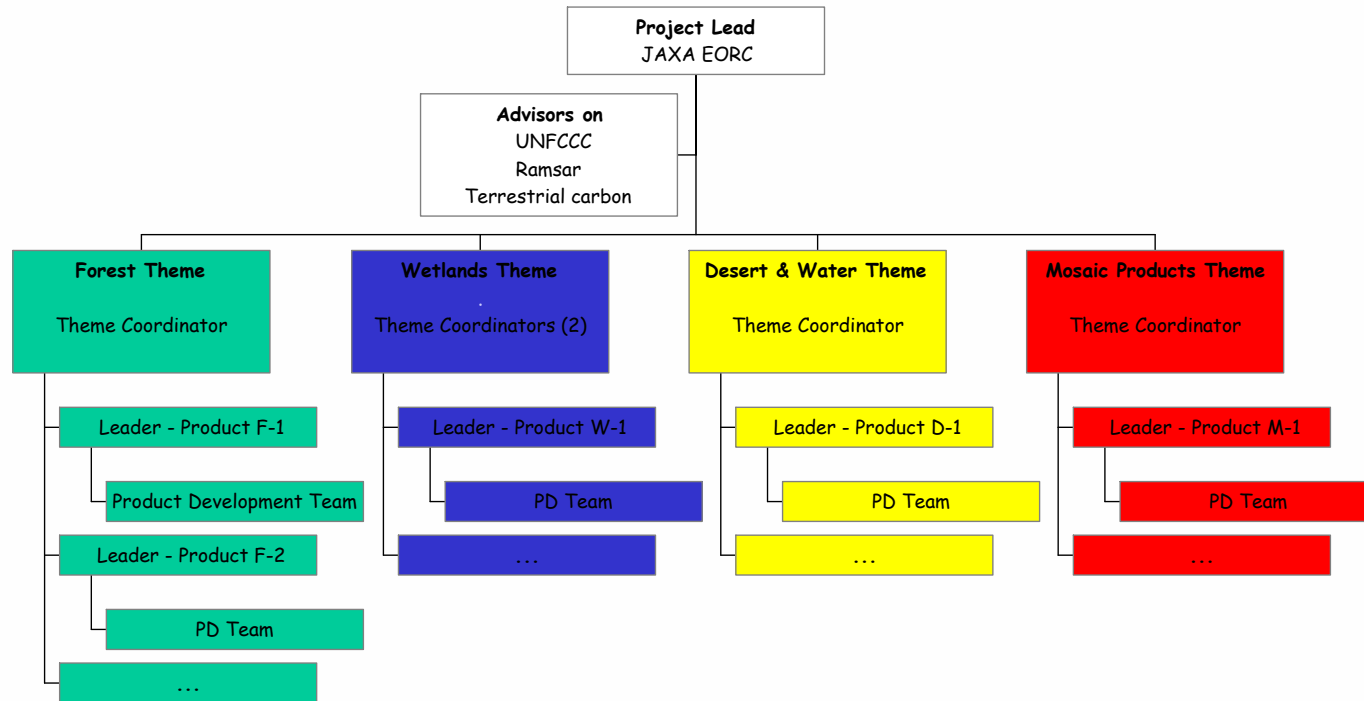
### Thursday, Jan. 18

**Project up-date presentations from Science Team**  
**External presentations**  
**Theme Work Sessions (Forest, Wetlands, Mosaic)**

### Friday, Jan. 19

**Theme Work Sessions**  
**Summary & Action Items**  
**Meeting wrap-up**

# Project organisation



## Theme Coordinators:

- Forest Theme - Richard Lucas
- Wetlands Theme - Laura Hess & John Lowry
- Desert & Water - Philippe Paillou
- Mosaic Theme - Bruce Chapman

## Science Team:

- 20 organisations under contract with JAXA

## K&C contract status

### Finalised

- Applied Geosolutions (Bill Salas)
- BOS Foundation (Dirk Hoekman)
- U. Victoria (Kevin Telmer)
- U. Victoria (Maycira Costa)
- Wetlands International (Doug Taylor/John Lowry)
- SLU (Johan Fransson/Hakan Olsson)
- U. Bordeaux-1 (Philippe Paillou)
- INPE (Raimundo Filho)
- DLR (Alberto Moreira)
- CESBIO (Thuy Le Toan)
- UCSB (Laura Hess)
- U. New South Wales (Tony Milne)
- JPL (Bruce Chapman, Kyle McDonald)
- U. Massachusetts (Paul Siqueira)
- U. Wales Aberystwyth (Richard Lucas)
- Friedrich-Schiller University Jena (Chris Schmullius)
- Sarmap (Francesco Holecz)
- JRC (Rosenqvist/De Grandi)

### Pending

- U. Chiba (R. Tateishi)

# K&C phases of implementation

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## 0 - Implementation of the PALSAR observation strategy

PALSAR acquisitions in support to the K&C Initiative began in November, immediately following the completion of the commissioning and calibration/validation phases of ALOS, PALSAR data are processed by JAXA EORC and delivered to the K&C Product Leaders within one cycle after acquisition.

## 1 - Local-scale methodology development.

This work is carried out by the Product Leaders and their Product Development (PD) teams, typically using a small number of PALSAR scenes over study site(s) that are representative for the biome(s) of interest, with ample in situ data available for verification.

## 2 - Regional-scale prototype demonstration.

This step constitutes the essence of the K&C Initiative during the first 3 years, and which covered within this science plan. Applying the methods and algorithms developed in the previous step, "derived products" over extensive regions - described in the theme descriptions that follow below - are generated by the PD teams. All products are made available to the public and to specific target users.

## 3 - Review.

3 years after the launch of ALOS, JAXA performs a review of all K&C projects and the products developed, with respect to scientific significance, accuracy levels achieved, actual relevance to CCC etc., in relation to the amounts of PALSAR data provided.

## 4 - Global-scale extrapolation.

Projects which are deemed successful and with a potential for application over different or larger regions are selected by JAXA for extension for another 2-year period.

# PALSAR Ascending observation plan (Jan.'07)

HH 41.5° 
  HH+HV 41.5° 
  HH 34.3° 
  HH 21.5° 
  POL 21.5° 
  ScanSAR 5-beam

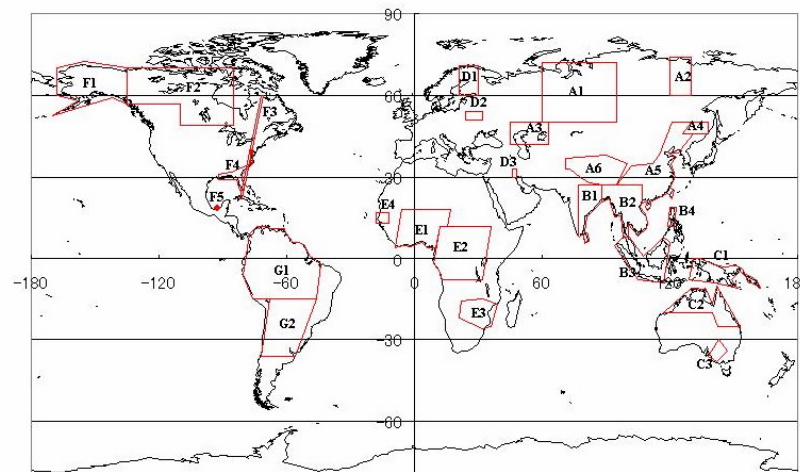
Default off-nadir angle changed from 41.5° to 34.3°

Month Satellite cycle		2007												2008												2009											
		11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8		
Siberia NW	A1																																				
Siberia N-central	A2																																				
Siberia NE	A3																																				
Kanchofka	A4																																				
Siberia SW	A5																																				
Siberia S-central	A6																																				
Siberia SE	A7																																				
Caspian Sea	A8																																				
Central Asia	A9																																				
Himalayas	A10																																				
China East	A11																																				
Korea	A12																																				
Alaskan W	A13																																				
Japan	A20-35																																				
India	B1																																				
Peninsular SE-Asia	B2																																				
Insular SE-Asia	B3																																				
PNG	C1																																				
Australia N&E	C2																																				
Australia central	C3																																				
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New Zealand	C5																																				
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Arabia	D8																																				
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S. Africa	E9																																				
Madagascar	E10																																				
QE Islands	F1																																				
Alaska	F2																																				
Canada NW	F3																																				
Canada SW	F4																																				
Canada SE	F5																																				
USW	F6																																				
USE	F7																																				
Central America	F8																																				
Caribbean Islands	F9																																				
Alaskan E	F10																																				
Amazon Basin	G1																																				
Brazil East	G2																																				
S. America Mid	G3																																				
S. America South	G4																																				

# PALSAR ScanSAR Descending observation plan (Nov.'07)

ScanSAR observations of 27 major river basins and wetlands.

Every 46-day satellite cycle during at least one annual cycle.



Year Month Satellite cycle		2007												2008												2009														
		11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															
West Siberia	Scan A1																																							
Lena Delta	Scan A2																																							
Volga Delta	Scan A3																																							
Amur	Scan A4																																							
East China paddy	Scan A5																																							
Tibet	Scan A6																																							
India paddy	Scan B1																																							
Mainland SE-Asia	Scan B2																																							
Insular SE-Asia	Scan B3																																							
Luzon	Scan B4																																							
New Guinea	Scan C1																																							
North Australia	Scan C2																																							
Murray-Darling	Scan C3																																							
Finland	Scan D1																																							
Pripet-Biebeza	Scan D2																																							
Tigris marshes	Scan D3																																							
Niger Basin	Scan E1																																							
Congo Basin	Scan E2																																							
Oluwango-Mozambique	Scan E3																																							
Senegal wetlands	Scan E4																																							
ASF mask	Scan F1																																							
Canada W	Scan F2																																							
Quebec-Everglades	Scan F3																																							
SE USA	Scan F4																																							
Mexico	Scan F5																																							
Amazon Basin	Scan G1																																							
Pantanal	Scan G2																																							

Input to be provided  
during KC#7



## Verification of Science Plan project descriptions

**Draft Science Plan v.1  
released July, 2005.**

**Post-launch up-date v.2  
February, 2006.**

**Feed-back from KC#7  
(Theme Work sessions):**

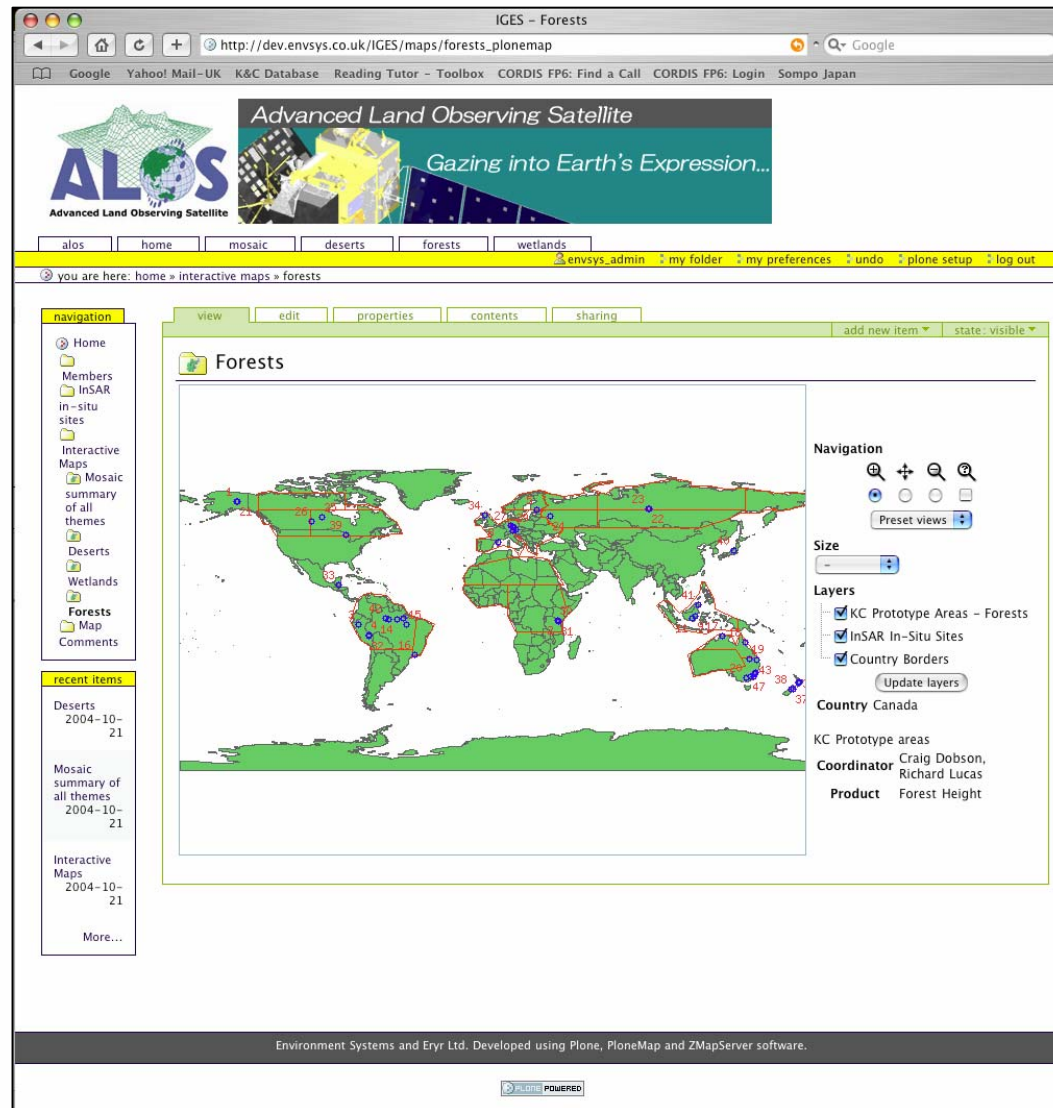
- **Verification of Science  
Team project descriptions**
- are they still up-to date?

*The ALOS Kyoto & Carbon Initiative  
Science Plan (v.2.0)*



*February, 2006*

## Input to the K&C Data Base



- A resource for the K&C Science Team
- To contain updated information about the 20 K&C projects
- Full access to all K&C Science Team members.
- Limited access for general users.
- Refined input to be provided during meeting.

# Up-date (41.5° -> 34.3° ) of processing requests

Input requirements for  
EORC resource  
allocation for data  
processing and  
dissemination

- Timing, location & amounts of all K&C data requested
- Processing levels and means of data distribution

6th K&C Science meeting, Feb.28 - Mar.3, 2005

**Summary of K&C PALSAR data requested from JAXA EORC by Ernst Ramberg**

Fill in the requested information in the empty boxes.

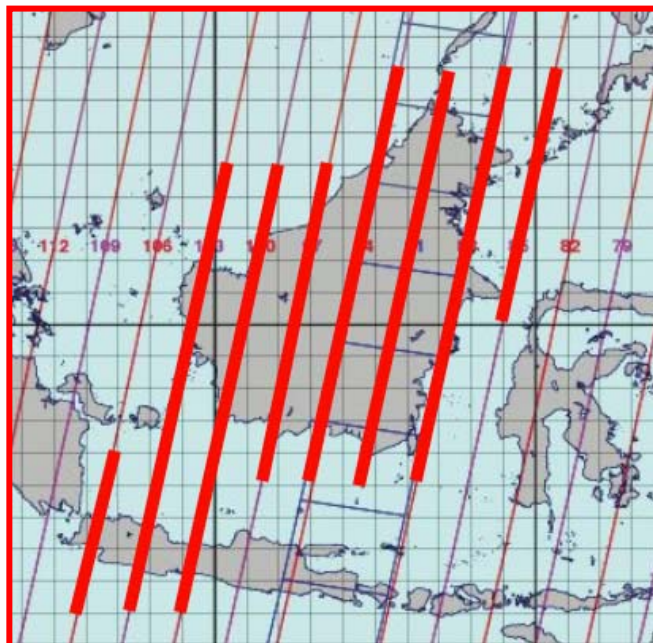
<b>Product Leader:</b> Ernst Ramberg <b>Affiliation:</b> Hotaheiti University <b>Country:</b> Fiji <b>K&amp;C Theme:</b> Forest	<b>Ascending mode (HH or HH+HV 41.5°)</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Total #scenes</th> <th>Total #passes</th> <th>Average pass [km]</th> <th>Data [Gbyte]</th> </tr> <tr> <td>2,679</td> <td>261</td> <td>719</td> <td>69</td> </tr> </table>	Total #scenes	Total #passes	Average pass [km]	Data [Gbyte]	2,679	261	719	69	
Total #scenes	Total #passes	Average pass [km]	Data [Gbyte]							
2,679	261	719	69							
	<b>Descending mode ScanSAR</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Total #scenes</th> <th>Total #passes</th> <th>Average pass [km]</th> <th>Data [Gbyte]</th> </tr> <tr> <td>1,051</td> <td>136</td> <td>2,706</td> <td>231</td> </tr> </table>	Total #scenes	Total #passes	Average pass [km]	Data [Gbyte]	1,051	136	2,706	231	
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<b>Ascending mode</b> HH 41.5° & HH+HV 41.5°	<b>Ascending subtotals 1</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>#scenes/coverage</th> <th>#pass/cov</th> <th>Mbyte/cov.</th> </tr> <tr> <td>306</td> <td>27</td> <td>600</td> </tr> <tr> <th>#cov</th> <th>#scenes</th> <th>#passes</th> </tr> <tr> <td>8</td> <td>2,451</td> <td>216</td> </tr> <tr> <td colspan="3" style="text-align: right;">Tot. Gbyte: 67.2</td> </tr> </table>	#scenes/coverage	#pass/cov	Mbyte/cov.	306	27	600	#cov	#scenes	#passes	8	2,451	216	Tot. Gbyte: 67.2			<b>Satellite cycles during which data are requested (mark below with "1")</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Year</th> <th colspan="12">2006</th> <th colspan="12">2007</th> <th colspan="12">2008</th> </tr> <tr> <th>Month</th> <td>12</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <th>Cycle#</th> <td>3</td><td>4</td><td></td><td></td><td></td><td></td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <th>Req = 1</th> <td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td>1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	Year	2006												2007												2008												Month	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	Cycle#	3	4					7	8	9	10	11	12	15	16	17	18	19	20	21	22	23	24	25	26													Req = 1							1	1				1													1											
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<b>Prototype area 3:</b> PALSAR polygon(s): Proc. level *: SLP / GRP ORP-GEO / ORP-MER / MOS: Media (FTP or S-DLT):	<b>Ascending subtotals 3</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>#scenes/coverage</th> <th>#pass/cov</th> <th>Mbyte/cov.</th> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <th>#cov</th> <th>#scenes</th> <th>#passes</th> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td colspan="3" style="text-align: right;">Tot. Gbyte: 0.0</td> </tr> </table>	#scenes/coverage	#pass/cov	Mbyte/cov.	0	0	0	#cov	#scenes	#passes	0	0	0	Tot. Gbyte: 0.0			<b>Satellite cycles during which data are requested (mark below with "1")</b> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Year</th> <th colspan="12">2006</th> <th colspan="12">2007</th> <th colspan="12">2008</th> </tr> <tr> <th>Month</th> <td>12</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <th>Cycle#</th> <td>3</td><td>4</td><td></td><td></td><td></td><td></td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td> <td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <th>Req = 1</th> <td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	Year	2006												2007												2008												Month	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	Cycle#	3	4					7	8	9	10	11	12	15	16	17	18	19	20	21	22	23	24	25	26													Req = 1							1					1																								
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Comments during  
discussion sessions!

# Provision of detailed processing requests



Refinement of the processing requests provided at KC#5 (Nov. 2003)

RSP#  
85, 88, 91, 94, 97,  
100, 103, 106

- Cyle #
- RSP#
- Latitude boundaries of data segment to be processed.

6th K&C Science meeting, Feb.28 - Mar.3, 2005

Descending mode  
ScanSAR

Product Leader:	Ernst Ramberg																											
Prototype area:	Borneo & West Java																											

RSP #	88	85	82	79	76	73	70	67	64	61	58	55	52	49	46	43	40	37	34	31	28	25	22	19	16	13	10	7	4	1
N-Lat. [XXx deg.]	8.0	8.0																												
S-Lat. [YYy deg.]	-5.0	0.0																												
Segment length [deg.]	13.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# scenes (/band)	4.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RSP #	178	175	172	169	166	163	160	157	154	151	148	145	142	139	136	133	130	127	124	121	118	115	112	109	106	103	100	97	94	91
N-Lat. [XXx deg.]																									-4.0	5.0	5.0	5.0	8.0	8.0
S-Lat. [YYy deg.]																									-9.0	-9.0	-9.0	-5.0	-5.0	-5.0
Segment length [deg.]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	14.0	14.0	10.0	13.0	13.0
# scenes (/band)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.4	4.4	3.2	4.1	4.1

## Set-up of a FTP transfer test

The majority of all PALSAR data will be processed and delivered by JAXA EORC

50 m Fine Beam path images

70 m ScanSAR path images

RSP-based requests

FTP transfer dummy test to be undertaken during March, 2005, by RESTEC and K&C scientists.

Data for the InSAR and Pol-InSAR groups (DLR, U-Mass, Sarmap), which will be processed and delivered by JAXA EOC in Hatoyama

Standard products, Single-Look Complex

Requests via the EOC www order system

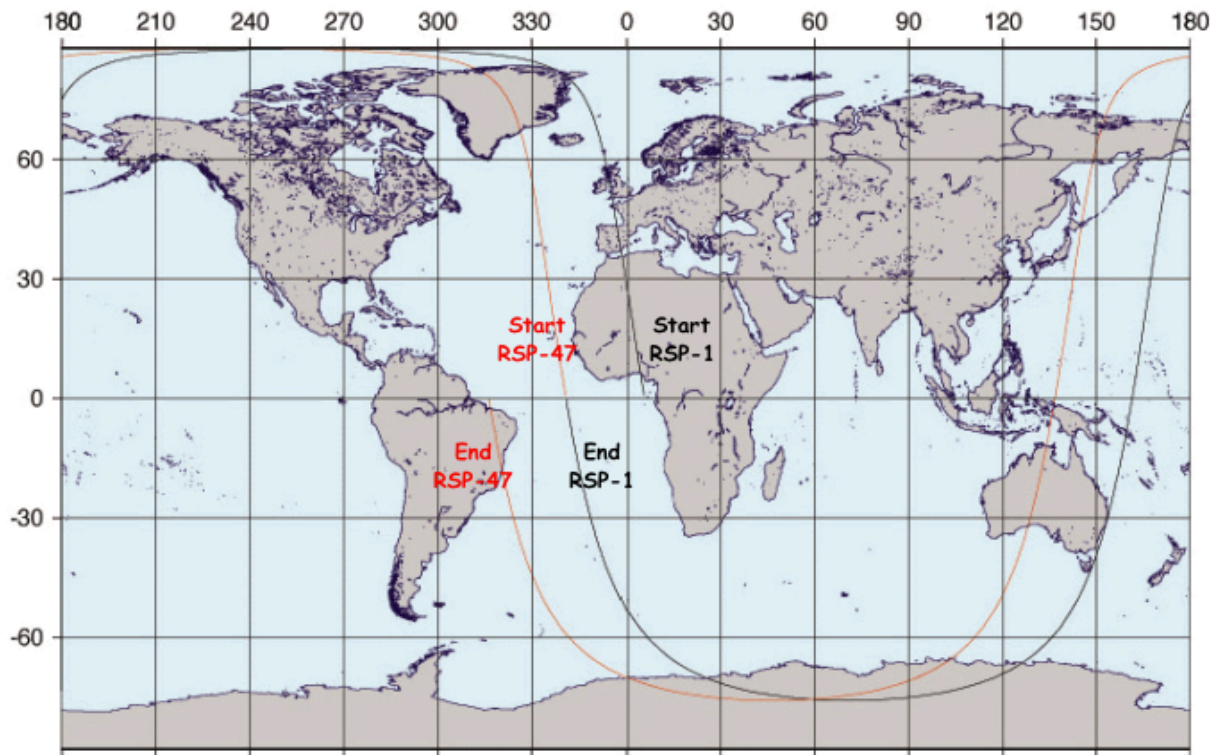
Orders based on traditional GRS grid

Maximum 100 scenes/year



## RSP - the orbit Reference System for Planning

RSP - an orbit-based system based on the actual footprint of the observation swath will to be used within the K&C Initiative for pass identification

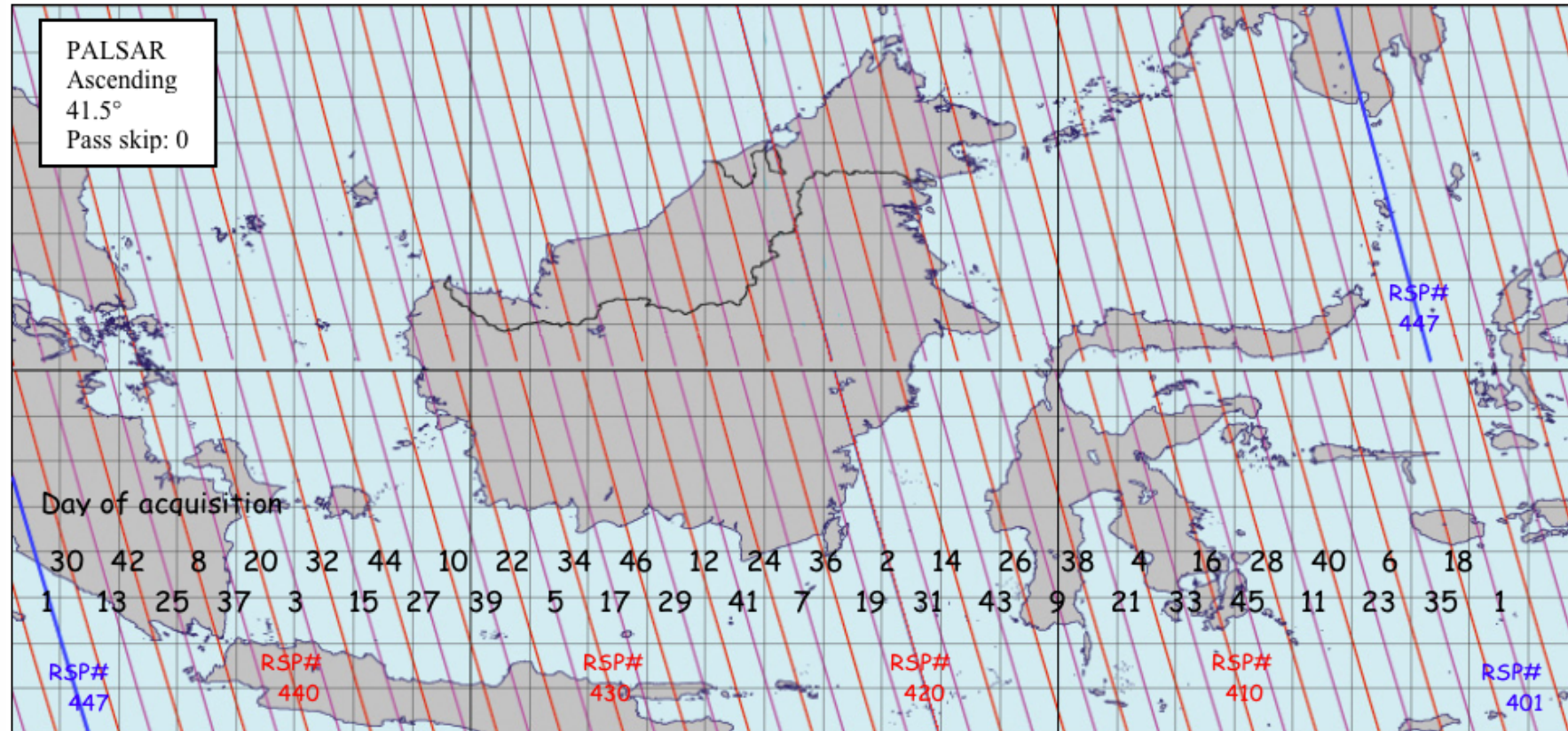


671 ALOS orbits  
within a 46-day  
cycle.

- A RSP pass is defined to start at the Equator in **ascending** mode, resulting in a "jump" in the numbering ( $n+46$ ) with every ascending equator crossing (CAUTION!)

## ALOS observations - temporal characteristics

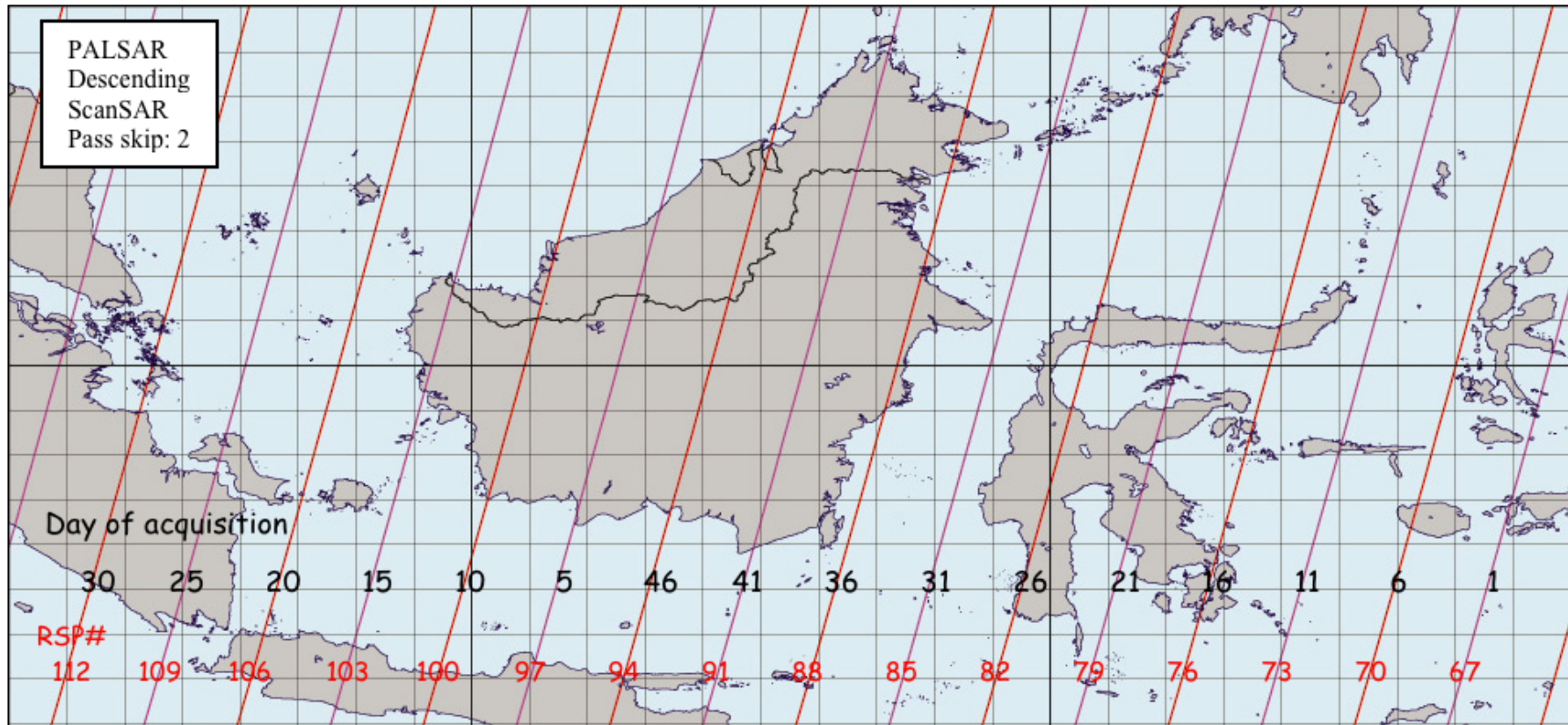
### Fine Beam mode (HH/HH+HV @ 41.5° )



- RSP sequential numbers from 1-671, increasing westwards (i.e. not chronological)
- 17 and 29 days' time difference between neighbouring passes in Fine Beam mode (17-17-29-17-17-29-17-17-29 -...)
- Above N 60° , every 2nd pass acquired. Pass time difference: 12 and 34 days.



## ALOS observations - temporal characteristics ScanSAR



- In ScanSAR mode (350 km swath), acquisitions limited to one in every 3 passes;
- 5 and 41 days' time difference between neighbouring passes  
(5-5-5-5-5-5-5-5-5-**41**-5-5-5-5-5-5-5-5-5-**41**...)