

ENVISAT ASAR MONTHLY REPORT

JULY 2009



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1 EXECUTIVE SUMMARY

This document summarizes the instrument and product quality status as derived from data acquired during June 2009. There was one transmit receive module failure on 7th July. In addition, one instrument unavailability occurred during this period, details of which can be found in section 2.2.

The list of unavailability periods is provided in Chapter 2 together with details of any data disclaimers issued during the reporting period. Chapter 3 provides information on the background regional mission (BRM) planning. Details on the Doppler Centroid evolution are provided in chapter 4. Radiometric stability is measured by means of ASAR transponders. Detailed results are provided in chapter 5. An updated list of auxiliary data files is provided in chapters 6 and 7.



2 INSTRUMENT STATUS

There has been one transmit receive module failure during July 2009.

The following Antenna Transmit/Receive Modules (TRMs) have failed since launch:

- > TRM-01 to 04 in tile C1: H & V polarisation transmit failed since May 2002
- > TRM-01 to 04 in tile D2: H & V polarisation transmit and receive failed since 18th February 2003
- > TRM-14 in tile B2: H polarisation transmit failed since 12th April 2004
- > TRM-15 in tile A1: failed to transmit in V polarisation since 17th May 2004
- > TRM-06 in tile A1: failed to transmit in V polarisation since 17th November 2004
- > TRM-12 in tile C4: failed to transmit in H polarisation since 16th January 2005
- > TRM-02 in tile D3: failed to transmit in V polarisation since 20th November 2005
- > TRM-03 in tile A3: failed to transmit in H polarisation since 28th January 2007
- ➤ TRM-01-02-03-04 in tile B3: failed to transmit and receive in H & V polarisation since 2nd February 2007
- > TRM-02 in tile B1: failed to transmit in H polarisation since 6th May 2007.
- > TRM-08 in tile E4: failed to transmit in H polarisation since 20th July 2008
- > TRM-05 in tile E4: failed to transmit in V polarisation since 22nd October 2008.
- > TRM-10 in tile E4: failed to transmit in H polarisation since 1st January 2009.
- > TRM-04 in tile D4: failed to transmit in V polarisation since 5th January 2009.
- > TRM-07 in tile D2: failed to transmit in H polarisation since 7th July 2009.

Please note that single TRM transmit failures have a minimal impact on the instrument performance and on the antenna pattern shape. The impact of multiple TRM failures is mitigated by the generation of new antenna patterns.

2.1 Antenna Pattern Update

Antenna patterns are checked and updated a few times a year regardless of TRM failures (due to drift in the performance of the TRMs) to ensure accurate elevation antenna patterns are applied to SAR imagery.

2.2 Instrument Unavailability

The new events with respect to the previous report are given in the table below. Please note that the full unavailability list is available in Appendix A. The following instrument unavailability occurred during this reporting period.

Unavailability report reference	Start	Stop
EN-UNA-2009/0114	20 Jul 2009 22:07:00.000 Orbit = 38632	21 Jul 2009 07:01:40.000 Orbit = 38637



2.3 Data Disclaimer

A data quality disclaimer is issued each time that ASAR data of degraded quality is acquired between specific time intervals. Details on the available disclaimers are provided online at http://earth.esa.int/pcs/envisat/asar/disclaimer. Please note that the full disclaimer list is also available in Appendix B.

No new disclaimers were issued during July 2009.



3 LOW RATE BACKGROUND REGIONAL MISSION

The current Low Rate BRM definition is provided below:

Mode	Where	Swath	Polarisation
Wave	Over the sea (~15 sec from the coast line),	IS2	VV
	including the Mediterranean Sea.		

Mode	Where	Polarization
Global	Up to -65 deg	HH: over land, ice and sea-ice including the following
Monitoring	from January to	areas:
	March	- Europe
	Up to -55 deg	- Antarctica extended
	from July to	- Arctic
	October	- Greenland and Greenland Sea
		- Labrador Sea and North of Canada
		- Kara Sea
		- Baffin Bay
		- Golf of Mexico & Caribbean Sea
		VV: None. All GM acquisitions in HH

From 17th July to approximately 1st November, monitoring of the cyclone region over Gulf of Mexico and the Caribbean Sea will be added to the Low Rate BRM.

Further details of the background mission can be found in reference 'ASAR Low Bit Rate Background Mission Planning Strategy', ESA, ENVI-CLVL-EOPG-TN-06-0008, Issue 1, May 2006 and from the ASAR Background Region Mission web site at http://earth.esa.int/object/index.cfm?fobjectid=4045.

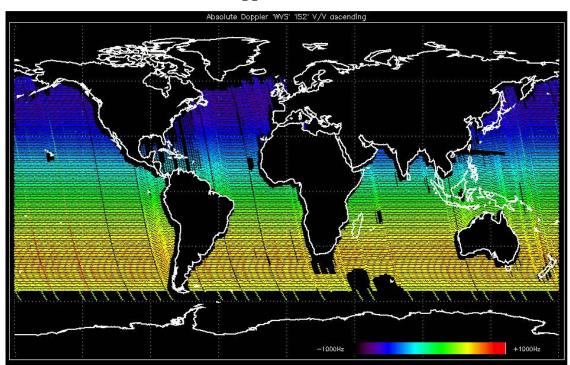


4 DOPPLER MONITORING

The Envisat Orbit Control Manoeuvres (OCM) can affect the platform attitude stability even hours after the burst with a direct impact on the Doppler centroid frequency evolution. An updated list of the OCM can be found at http://nng.esoc.esa.de/envisat/ENVmano.html.

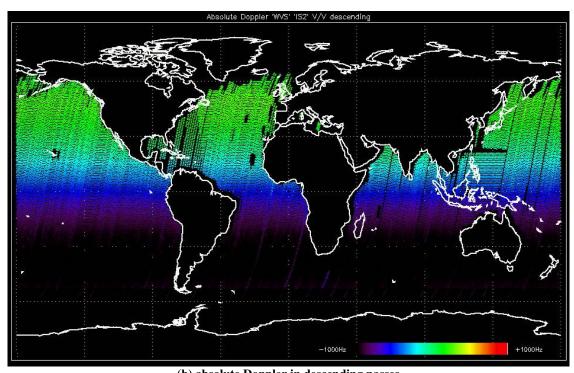
The plots of the Figure 4.1 and Figure 4.2 show the evolution of the Doppler centroid over the world for the 35 days prior to the end of the reporting period. No anomaly on the Doppler centroid distribution is noticed.

4.1 Absolute WV-IS2 Doppler Centroid Evolution



(a) absolute Doppler in ascending passes



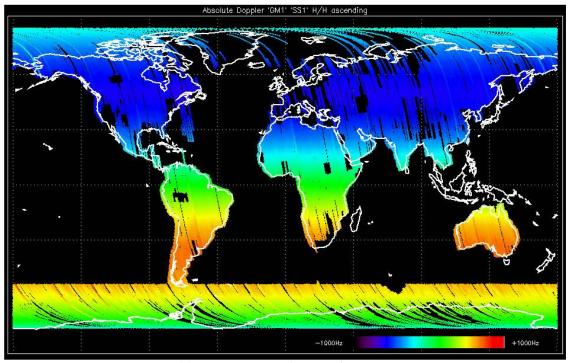


(b) absolute Doppler in descending passes

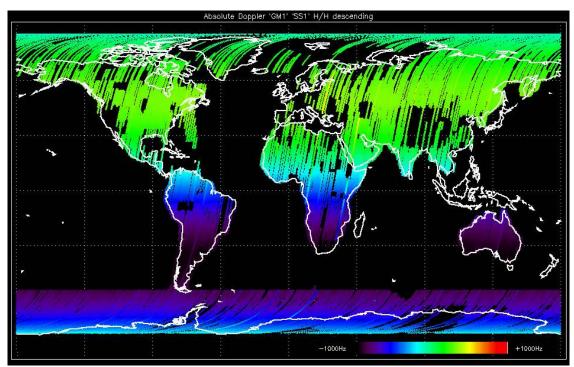
Figure 4.1: Absolute Wave mode Doppler evolution over the world



4.2 Absolute GM SS1 Doppler Centroid Evolution



(a) absolute Doppler in ascending passes



(b) absolute Doppler in descending passes
Figure 4.2: Absolute GM mode Doppler evolution over the world



4.3 Absolute Doppler Centroid Evolution vs ANX

Figure 4.3(a) shows the wave mode Doppler evolution (IS2, VV) against the elapsed seconds from the ascending node (ANX) for data acquired during the current month. Theoretical Doppler is in red while the blue curve stands for Doppler evolution model obtained by Fourier series decomposition. Figure 4.3(b) shows a similar plot derived from global monitoring data.

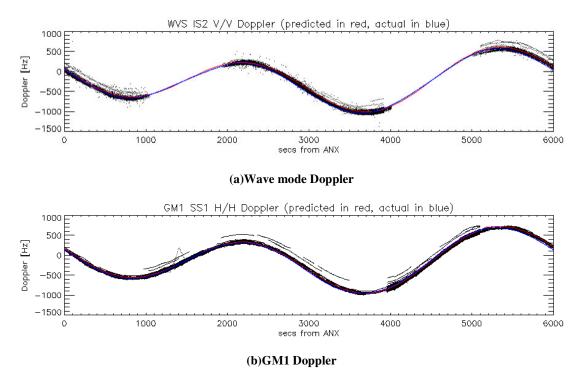
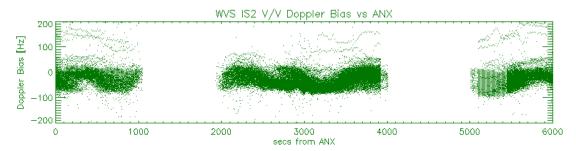


Figure 4.3: Absolute Doppler Centroid evolution wrt elapsed seconds since ANX

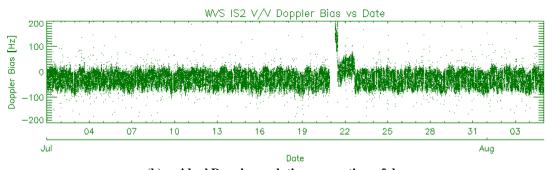


4.4 Residual Doppler Centroid Evolution vs. ANX and Time of Day

Figure 4.4 shows the wave mode residual Doppler evolution (IS2, VV) against the elapsed seconds from the ascending node (ANX) (a) and versus the time of the day (UTC time) (b) for data acquired during the current month. Figure 4.5 shows the same information but for data acquired in GM1 mode.



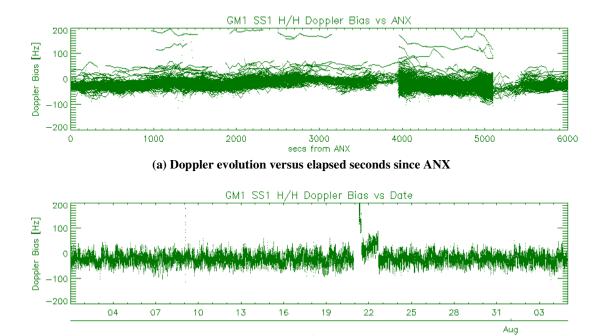
(a) residual Doppler evolution vs elapsed seconds since ANX



 $\begin{tabular}{ll} \textbf{(b) residual Doppler evolution versus time of day} \\ \end{tabular}$

Figure 4.4: Residual Doppler centroid evolution for WVS data





(b) residual Doppler evolution versus time of day Figure 4.5: Residual Doppler centroid evolution for GM1 data

Date



5 IMAGE QUALITY AND RADIOMETRIC ANALYSIS

The analysis of the ASAR transponders is used to characterise ASAR products in terms of:

- ✓ spatial resolution,
- ✓ Impulse Response Function (IRF) parameters (ISLR, PSLR, SSLR) and
- ✓ Absolute calibration factor.

The analysis is performed for all the modes, beams and polarisations.

Table 6.1 shows the relative Radar Cross Section (RCS)¹ per mode, beam and set of transponders. The values provided per sub-swath correspond to the mean absolute calibration error. Values provided per all swaths correspond to the mean error value and the corresponding standard deviation. All values are in dB.

Product			Re	lative R(CS [dB]			
type	All Swaths	IS1	IS2	IS3	IS4	IS5	IS6	IS7
IMP	-0.23±0.59	-0.18	-0.19	-0.56	-0.43	-0.05	-0.05	-0.26
IMG	-0.18±0.63	-0.35	-0.20	-0.46	-0.44	0.17	0.09	-0.07
IMS	-0.19±0.60	-0.33	-0.06	-0.57	-0.42	-0.04	0.06	-0.13
IMM	-0.25 ± 0.98							
APP	-0.09±0.41	-0.37	-0.22	-0.07	-0.02	-0.03	0.07	-0.07
APG	-0.08±0.50	-0.33	-0.21	0.00	-0.12	-0.14	0.20	-0.09
APS	-0.10±0.52	-0.21	-0.26	0.02	-0.31	-0.15	0.10	0.06
APM	0.06 ± 1.31							
WSM	0.12 ± 0.78							

Table 6.1: ASAR Image Relative Radar Cross-Sections per mode and beam.

Table 6.2 gives the relative RCS for the full resolutions products as a function of the polarization. All values are in dB.

¹The relative RCS is defined as the difference between the nominal RCS and the measured RCS.



Product	Relative RCS [dB]						
type	VV	НН	VH	HV			
IMP	-0.14	-0.38					
APP	0.00	-0.08	-0.10	-0.07			

Table 6.2: ASAR Image Relative Radar Cross-Sections per mode and polarisation

The Table 6.3 shows the IRF parameters measured per different product types. Please note that the performance for WSM products are given only for transponders reprocessed with 40m pixel spacing.

Product Type	Azimuth Res (m)	Range Res (m)	ISLR (dB)	PSLR (dB)	SSLR (dB)	No of Resul ts
IMP	22.13±0.49	(figure 5.1a)	-13.47±0.54	-16.72±0.99	-22.74±1.78	506
IMG	22.38±0.47	21.6 – 35.8	-13.55±0.53	-16.90±1.01	-23.49±1.68	506
IMS	4.77±0.03 5.56±0.07	9.43±0.05	-14.45±0.29	-19.04±0.45	-28.39±0.62	502
IMM	143.05 ± 21.81	130.04 ± 9.92	-8.46±4.00	-16.23±2.37	-17.69 ± 4.55	357
APP	27.61±0.79	(figure 5.1b)	-12.87±0.47	-19.13±0.99	-27.04±1.61	133
APG	27.70±0.76	22.6 – 36.4	-12.94±0.49	-19.23±0.97	-27.70±1.30	132
APS	4.42±1.83	8.40±0.07	3.95±2.49	-1.98±1.38	-16.90±4.33	131
APM	138.16±27.39	127.75±24.32	-8.10±6.53	-14.98±4.11	-16.24±7.52	57
WSM	109.25±9.00	123.80±11.67	-8.86±3.92	-18.70±1.44	-17.31±5.55	59

Table 6.3: ASAR IRF parameters per product type



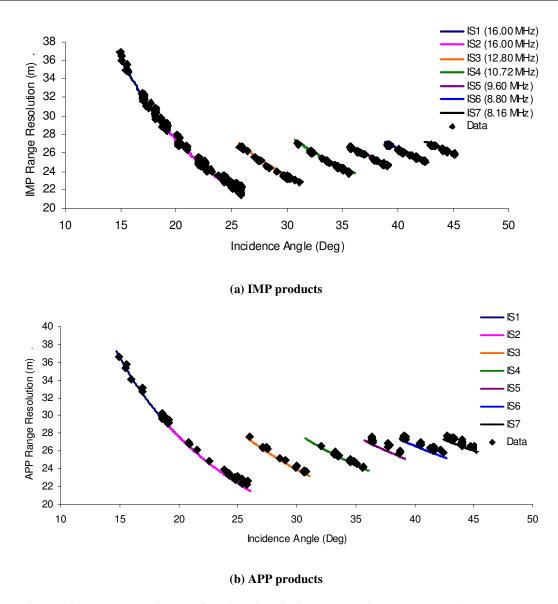
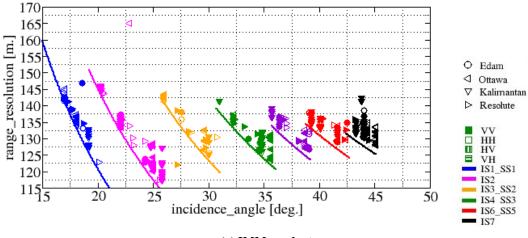
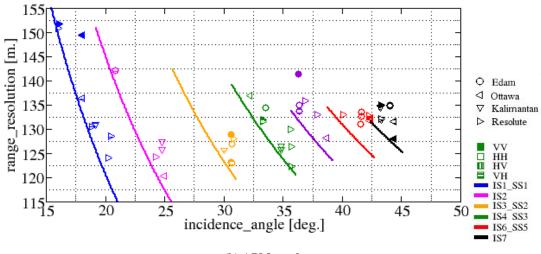


Figure 6.1: Range resolution as a function of the incidence angle for the IMP and APP products



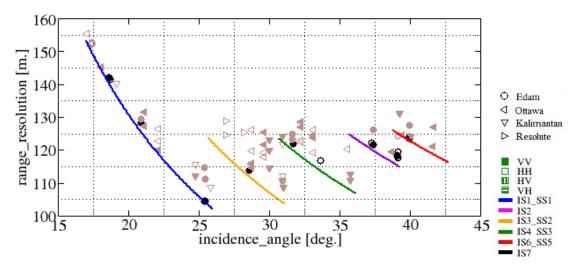


(a) IMM products



(b) APM products





(c) WSM products. Black symbols stand for the 40m pixel spacing data while brown are for 75m pixel spacing

Figure 6.2: Range resolution as a function of the incidence angle for the medium resolution products.

Table 6.4 gives measured equivalent number of looks and radiometric resolutions for IMP/IMG, IMS, APP/APG, APS and WSM products.

Product Type	Equ. Num Looks	Rad Res (dB)		
IMP/IMG	3.95	1.77		
IMS	0.96	3.05		
APS	0.93	3.09		

Table 6.4(a): ASAR measured equivalent number of looks and radiometric resolution

APP/APG	IS1	IS2	IS3	IS4	IS5	IS6	IS7
Equ. Num Looks	1.76	1.73	2.25	2.66	3.30	3.78	3.73
Rad Res (dB)	2.44	2.45	2.22	2.08	1.91	1.80	1.81

Table 6.4(b): ASAR measured equivalent number of looks and radiometric resolution

WSM	SS1	SS2	SS3	SS4	SS5
Equ. Num Looks	13.19	13.21	13.84	13.77	13.38
Rad Res (dB)	1.05	1.05	1.03	1.03	1.04

Table 6.4(c): ASAR measured equivalent number of looks and radiometric resolution



APM	IS1	IS2	IS3	IS4	IS5	IS6	IS7
Equ. Num Looks	43.99	52.46	65.68	75.66	83.21	90.16	95.93
Rad Res (dB)	0.60	0.56	0.50	0.47	0.45	0.43	0.42

Table 6.4(d): ASAR measured equivalent number of looks and radiometric resolution

IMM	IS1	IS2	IS3	IS4	IS5	IS6	IS7
Equ. Num Looks	35.68	42.20	52.56	60.78	65.76	72.67	75.77
Rad Res (dB)	0.67	0.62	0.56	0.52	0.50	0.48	0.47

Table 6.4(e): ASAR measured equivalent number of looks and radiometric resolution

The noise equivalent radar cross-section (NESigma0) has been estimated using AP and IM products of low radar cross-section ocean region, as shown in Figure 6.3. All measurements are at or lower than predicted NESigma0 values.

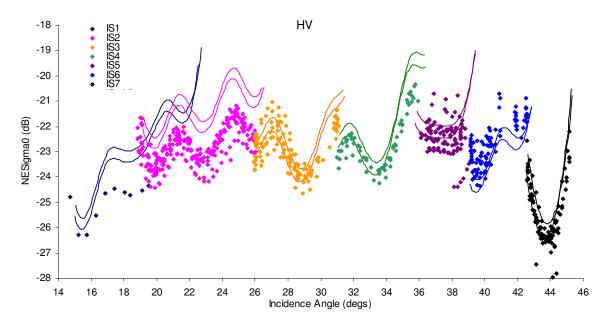


Figure 6.3(a). NESigma0 measurements for AP HV polarisation.



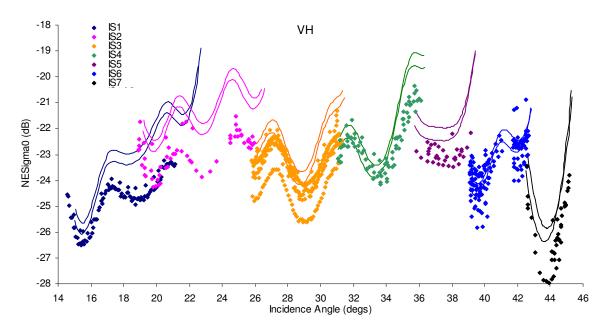


Figure 6.3(b). NESigma0 measurements for AP VH polarisation.

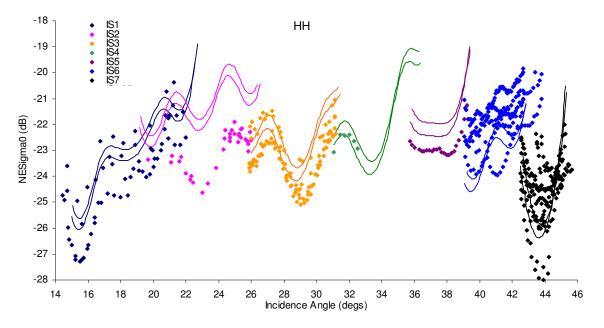


Figure 6.3(c). NESigma0 measurements for IM/AP HH polarisation.



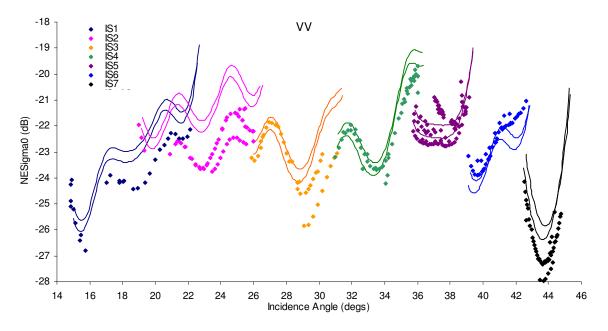


Figure 6.3(d). NESigma0 measurements for IM/AP VV polarisation.

The WSM noise equivalent radar cross-section (NESigma0) has also been estimated using low radar cross-section ocean regions, as shown in Figure 6.4.

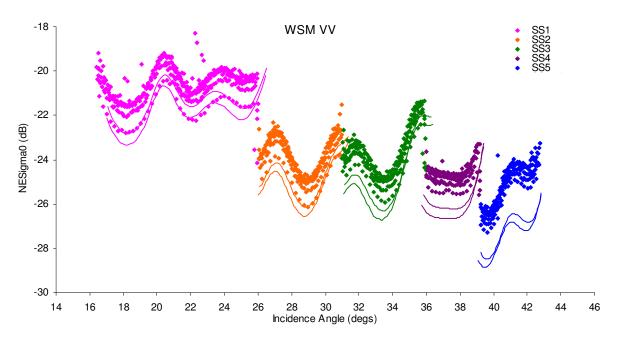


Figure 6.4(a). NESigma0 measurements for WSM VV polarisation.



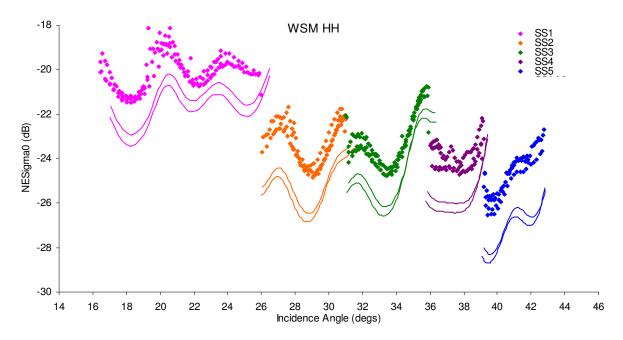


Figure 6.4(b). NESigma0 measurements for WSM HH polarisation.



6 ELEVATION ANTENNA PATTERN MONITORING

6.1 Recent Elevation Antenna Pattern Updates

During the reporting period there were no updates to the ASAR elevation antenna patterns. The table below show the most recent updates (since August 2003) for each beam and polarisation.

BEAM	POL		REC	ENT ELEV	ATION ANTE	NNA PATTE	RN UPDAT	ES				
SS1	НН	27/08/2003		06/04/2004	12/08/2004		13/10/2005	19/12/2005	15/02/2007		07/10/2008	11/03/2009
SS1	w	27/08/2003		06/04/2004			13/10/2005	19/12/2005	22/02/2007			11/03/2009
IS1	НН		09/12/2003							18/12/2007	07/10/2008	11/03/2009
IS1	V		09/12/2003	06/04/2004						17/05/2007	07/10/2008	11/03/2009
IS1	HV							23/02/2006				
IS1	VH		09/12/2003	06/04/2004				23/02/2006	17/07/2006	17/05/2007		
IS2	HH			06/04/2004			03/11/2005			17/05/2007		11/03/2009
IS2	vv		09/12/2003	06/04/2004			03/11/2005			17/05/2007		11/03/2009
IS2	HV			06/04/2004					17/07/2006			
IS2	VH			06/04/2004				23/02/2006	17/07/2006			
IS3_SS2	HH	27/08/2003	09/12/2003			27/10/2004	13/10/2005				07/10/2008	
IS3_SS2	w	27/08/2003			12/08/2004		13/10/2005				07/10/2008	11/03/2009
IS3_SS2	HV							23/02/2006		17/05/2007		
IS3_SS2	VH							23/02/2006	17/07/2006			
IS4_SS3	HH				12/08/2004		13/10/2005				07/10/2008	11/03/2009
IS4_SS3	W					27/10/2004	13/10/2005			17/05/2007		11/03/2009
IS4_SS3	HV			06/04/2004					17/07/2006			
IS4_SS3	VH			06/04/2004				23/02/2006				
IS5_SS4	HH	27/08/2003		06/04/2004		27/10/2004	13/10/2005				07/10/2008	
IS5_SS4 IS5_SS4	HV	27/08/2003		06/04/2004			13/10/2005	23/02/2006		17/05/2007	07/10/2008	
IS5_SS4	VH			06/04/2004				23/02/2006				
IS6 SS5	HH			00/04/2004		27/10/2004	13/10/2005	23/02/2000	15/02/2007	17/05/2007	07/10/2008	11/03/2009
IS6 SS5	W					2771072004	13/10/2005		1010212001		07/10/2008	11/03/2009
IS6 SS5	HV			06/04/2004			13/10/2003	23/02/2006		17/05/2007	0771072000	
IS6 SS5	VH			06/04/2004				23/02/2006		17/05/2007		
IS7	нн			5575-172504				2010212000		17/05/2007		11/03/2009
IS7	w									17/05/2007		11/05/2005
IS7	HV							23/02/2006	17/07/2006	17/05/2007		
IS7	VH							23/02/2006				

6.2 History of Elevation Antenna Pattern Updates

The table below summarizes the evolution of the elevation antenna pattern used for processing since August 2002. The files are available on line at http://earth.esa.int/services/auxiliary_data/asar/.

The source information indicates whether the pattern has been derived from data acquired over the Rain Forest ("RF") or whether it has been derived from antenna synthesis using results from Module Stepping acquisitions ("SYN").

Please note that pre-launch antenna pattern where used before the first ASA_XCA_AX update.

Please note that the table indicates for each beam, in which file the update took place. Any file created after this date will include that update unless a new file is specified for the beam. For instance, the pattern for IS3_SS2 VV was updated on 27 August 2003. The file created on 9 December 2003 (when the IS1 VV pattern was updated) will include the same pattern for IS3_SS2 VV as in the file of 27 August 2003, since the table does no indicate any further update for the IS3_SS2 VV pattern.

	ASAR ELEVATION ANTENNA PATTERNS UPDATES IN THE ASAR EXTERNAL CALIBRATION FILE								
Swath & polarization	Source	Update time (file used in operations since 1 day after this date)	File Name	Applicable to data acquired between: Start Stop					
IS1 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231				
	NA ¹	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231				
	RF	20021122	ASA_XCA_AXVIEC20021122_130838_20020413_000000_20021231_00000 ²	20020413	20021231				
	RF	20031209	ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000	20030211	20041231				
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231				
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231				
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231				
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731				
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231				
IS1 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231				

¹ A corrupted IS1 VV pattern was included into the ASA_ XCA_ 1P file updated of 11 Nov. 2002

² The corrupted IS1 VV pattern in the operational ASA_XCA_ 1P file was corrected on 22 Nov. 2002. Please note that the IS1 VV pattern in ASA_XCA_ AXVIEC20021122_130838_20020413_000000_20021231_00000 is the same as in ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000

	İ				ĺ
	RF	20031209	ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000	20030211	20041231
	RF	20071218	ASA_XCA_AXVIEC20071218_082742_20070204_165113_20081231_000000	20070204	20081231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS1 HV	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
IS1 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20031209	ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000	20030211	20041231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS2 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20031209	ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000	20030211	20041231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20051103	ASA_XCA_AXVIEC20051103_160021_20050101_000000_20050914_080040	20050101	20050914
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231

	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS2 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20051103	ASA_XCA_AXVIEC20051103_160021_20050101_000000_20050914_080040	20050101	20050914
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS2 HV	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
10211	RF	20040406	ASA XCA AXVIEC20040406 160451 20030211 000000 20041231 000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS2 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
102 \11	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS3_SS2 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231

	RF	20021018	ASA_XCA_AXVIEC20021018_121708_20020413_000000_20021231_000000	20020413	20021231
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20040812	ASA_XCA_AXVIEC20040812_170224_20040412_000000_20041231_000000	20040412	20041231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20070222	ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS3_SS2 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
133_332 пп					
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20031209	ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000	20030211	20041231
	RF	20040812	ASA_XCA_AXVIEC20040812_170224_20040412_000000_20041231_000000	20040412	20041231
	RF	20041027	ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	20040412	20051231
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	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20070215	ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS3 HV	SYN.	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS3 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS4_SS3 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20021018	ASA_XCA_AXVIEC20021018_121708_20020413_000000_20021231_000000	20020413	20021231
	RF	20041027	ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	20040412	20051231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231

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	RF	20070222	ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS4_SS3 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
	RF	20040812	ASA_XCA_AXVIEC20040812_170224_20040412_000000_20041231_000000	20040412	20041231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20070215	ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS4 HV	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS4 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231

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	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS5_SS4 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20021018	ASA_XCA_AXVIEC20021018_121708_20020413_000000_20021231_000000	20020413	20021231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20070222	ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
IS5_SS4 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20041027	ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	20040412	20051231
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20070215	ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000	20070204	20071231
	RF	20071218	ASA_XCA_AXVIEC20071218_082742_20070204_165113_20081231_000000	20070204	20081231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
IS5 HV	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914

	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
IS5 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
IS6_SS5 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20021018	ASA_XCA_AXVIEC20021018_121708_20020413_000000_20021231_000000	20020413	20021231
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20070222	ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
IS6_SS5 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20041027	ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	20040412	20051231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914

	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20070215	ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000	20070204	20071231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS6 HV	SYN.	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS6 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS7 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS7 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231

	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
	RF	20070317	ASA_XCA_AXVIEC20070317_133338_20070204_103113_20071231_000000 ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20071231
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
IS7 HV	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
IS7 VH	RF	20021217	ASA_XCA_AXVIEC20021217_150852_20020413_000000_20031231_000000	20020413	20031231
	RF	20060223	ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000	20050101	20050914
	RF	20060717	ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	20050916	20061231
	RF	20070517	ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	20070204	20071231
SS1 VV	RF	20020813	ASA_XCA_AXVIEC20020813_080042_20020413_000000_20021231_000000	20020413	20021231
	RF	20021018	ASA_XCA_AXVIEC20021018_121708_20020413_000000_20021231_000000	20020413	20021231
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231

	RF	20051219	ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	20050916	20061231
	RF	20070222	ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	20070204	20071231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231
SS1 HH	RF	20021107	ASA_XCA_AXVIEC20021107_144746_20020413_000000_20021231_000000	20020413	20021231
	RF	20030801	ASA_XCA_AXVIEC20030801_133024_20030428_000000_20031231_000000	20030428	20031231
	RF	20030801	ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000	20020413	20030211
	RF	20030827	ASA_XCA_AXVIEC20030827_140210_20030211_000000_20031231_000000	20030211	20031231
	RF	20040406	ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000	20030211	20041231
	RF	20040812	ASA_XCA_AXVIEC20040812_170224_20040412_000000_20041231_000000	20040412	20041231
	RF	20051013	ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040	20050101	20050914
	RF	20051013	ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	20050916	20061231
	RF	20051219	ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	20050916	20061231
	RF	20070215	ASA XCA AXVIEC20070215 184638 20070204 165113 20071231 000000	20070204	20071231
	RF	20080710	ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000	20070204	20081231
	RF	20090311	ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959	20070204	20080731
	RF	20090311	ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959	20080801	20091231

7 AUXILIARY FILES UPDATE

7.1 Operational Auxiliary Data Files

The ASAR auxiliary data files contain information on calibration and instrument parameters. The auxiliary files used at the end of the reporting period for the operational processing of ASAR data in the ENVISAT Ground Segment, are listed below. The three dates in the auxiliary file name are the creation date, start acquisition date and end acquisition date respectively. During the reported period two new auxiliary files were disseminated.

Processor configuration file (CON)

Current versions

```
ASA_CON_AXVIEC20081215_141339_20070204_165113_20091231_000000
ASA_CON_AXVIEC20080604_143203_20050916_195733_20070204_165113
ASA_CON_AXVIEC20080610_122458_20030601_000000_20050916_195733
ASA_CON_AXVIEC20080604_143539_20021017_130000_20030601_000000
```

Previous versions

```
ASA CON AXVIEC20080710 132557 20070204 165113 20081231 000000
ASA CON AXVIEC20071218 084201 20070204 165113 20081231 000000
ASA_CON_AXVIEC20080610_122458_20030601_000000_20050916_195733
ASA CON AXVIEC20070215 183645 20050916 195733 20070204 165113
ASA_CON_AXVIEC20070202_163902_20030601_000000_20050916_195733
ASA CON AXVIEC20060614 160050 20021017 130000 20030601 000000
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000
ASA_CON_AXVIEC20070313_165336_20070314_043800_20070314_045200
ASA CON AXVIEC20070320 170948 20070321 003000 20070321 050000
ASA_CON_AXVIEC20070326_152930_20070327_000000_20070328_000000
ASA CON AXVIEC20070328 163753 20070329 000000 20070330 120000
ASA_CON_AXVIEC20070212_170541_20070213_214400_20070213_214900
ASA_CON_AXVIEC20070215_184018_20070204_165113_20071231 000000
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000
ASA CON AXVIEC20061107 090002 20050916 195733 20071231 000000
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000
```

External calibration file (XCA)

There is a two day gap in file coverage between 14th and 16th September 2005; data is unavailable during this period due to antenna maintenance.

Current versions

```
ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959
ASA_XCA_AXVIEC20090311_104037_20070204_165113_20080731_235959
ASA_XCA_AXVIEC20070215_184408_20050916_195733_20070204_165113
ASA_XCA_AXVIEC20070130_111710_20050101_000000_20050914_000000
ASA_XCA_AXVIEC20070130_111449_20040412_000000_20050101_000000
ASA_XCA_AXVIEC20070130_111245_20030804_000000_20040412_000000
```

ASA_XCA_AXVIEC20070130_111029_20030601_000000_20030804_000000 ASA_XCA_AXVIEC20070130_110635_20030211_000000_20030601_000000 ASA_XCA_AXVIEC20070130_105508_20020413_000000_20030211_000000

Previous versions

ASA_XCA_AXVIEC20081215_141741_20070204_165113_20091231_000000
ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000
ASA_XCA_AXVIEC20071218_082742_20070204_165113_20081231_000000
ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000
ASA_XCA_AXXIEC20070222_185842_20070204_165113_20071231_000000
ASA_XCA_AXXIEC20070215_184408_20050916_195733_20070204_165113
ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000
ASA_XCA_AXVIEC20060620_132802_20030211_000000_20030601_0000000
ASA_XCA_AXVIEC20060620_133809_20030601_000000_20030804_000000
ASA_XCA_AXVIEC20060620_133829_20030804_000000_20030804_000000
ASA_XCA_AXVIEC20060620_133829_20030804_000000_20030211_000000
ASA_XCA_AXVIEC20060620_133829_20030804_000000_20030211_000000
ASA_XCA_AXVIEC20060620_133829_20030804_000000_20030211_000000
ASA_XCA_AXVIEC20060620_133829_20030804_000000_20030211_000000
ASA_XCA_AXVIEC20060620_145317_20020413_000000_20050914_000000
ASA_XCA_AXVIEC200600223_133247_20050101_000000_20050914_000000
ASA_XCA_AXVIEC20051013_151933_20040412_000000_20050101_000000

Instrument auxiliary file (INS)

Current versions

ASA_INS_AXVIEC20090525_114808_20090428_100000_20091231_235959 ASA_INS_AXVIEC20090525_115408_20070307_060000_20090428_095959 ASA_INS_AXVIEC20071218_083603_20070307_060000_20081231_000000 ASA_INS_AXVIEC20070227_105626_20070228_060000_20071231_000000 ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000 ASA_INS_AXVIEC20031209_113259_20021030_110000_20030211_000000

Previous versions

ASA_INS_AXVIEC20081215_140905_20070307_060000_20091231_000000
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000
ASA_INS_AXXIEC20070223_140724_20070226_000000_20071231_000000
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000
ASA_INS_AXVIEC20031209_113259_20021030_110000_20030211_000000
ASA_INS_AXVIEC20031212_105841_20021017_162400_20021030_110000
ASA_INS_AXVIEC20031212_122530_20020815_131000_20021017_162400

External characterization file (XCH)

Current version

ASA_XCH_AXVIEC20081215_143642_20020301_000000_20091231_000000

Previous versions

ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000 ASA_XCH_AXVIEC20031209_112947_20020301_000000_20041231_000000

```
ASA_XCH_AXVIEC20021217_151302_20020301_000000_20031231_000000
ASA_XCH_AXVIEC20021030_125700_20020301_000000_20021231_000000
ASA_XCH_AXVIEC20021018_121101_20020301_000000_20021231_000000
ASA_XCH_AXVIEC20020308_113032_20020301_000000_20021231_000000
```

These files as well as the previous versions of them can be downloaded from: http://earth.esa.int/services/auxiliary_data/asar/.

7.2 Recent Auxiliary File Updates and Description of Changes

Details of auxiliary file updates are listed below (most recent changes at the end) and those from the current period are boxed:

ASA_XCA_AXVIEC20041129_173057_20020413_000000_20030211_000000

- ✓ Absolute calibration constant values updated for data acquired during this period. Major changes affect AP IS5 and IS7 products.
- ✓ Other parameters are the same as previous XCA file covering this time period (file created on 20030801).

ASA XCA AXVIEC20041028 154000 20030804 000000 20040412 000000

- ✓ The SS2-VV elevation antenna pattern used for data acquired after 12 April 2004 is also applied now to data acquired after 4 August 2004.
- ✓ New calibration constant (K) for WV IS2 VV after the DSS change in May 2003. Due to the drift observed in the WV K after May2003, the new value is valid since 1 June 2003 till 12 April 2004. The K value for WV IS2 VV for this period is 51571.6
- ✓ Updated elevation antenna pattern for SS3 VV. Valid since 4 Aug 2003.

ASA_CON_AXVIEC20041027_165251_20021017_130000_20051231_000000

- ✓ File consistent with updated format in PF-ASAR v4.0 (additional parameters in spare fields included and parameters for the new WSS product included).
- ✓ Normalization for WSM products changed to Reference Energy.
- ✓ Updated reference energy values for WSM products (values in dB):
- ✓ HH (from SS1 to SS5): 1.08, 6.96, 7.5, 7.95, 9.13
- ✓ VV (from SS1 to SS5): 1.11, 6.9, 7.5, 7.95, 9.1

ASA XCA AXVIEC20041027 164238 20040412 000000 20051231 000000

- \checkmark Updated calibration constant (K) for WV IS2 VV to follow an observed drift. The new K is valid since 12 April 2004.with a value of 50222.9
- ✓ Updated elevation antenna patterns for: SS2 HH, SS4 HH, SS5 HH. They are valid since 12 April 2004.
- ✓ Updated elevation antenna pattern for SS3 VV. Valid since 4 Aug 2003 (this is the same pattern as in file valid from 4-Aug-04 to 12-Apr-04).

ASA_XCA_AXVIEC20041027_163611_20030601_000000_20030804_000000

✓ New calibration constant (K) for WV IS2 after the DSS change in May 2003. Due to the drift observed in the WV K after May2003. The new K is valid since 1 June 2003 till 12 April 2004 with a value of 51571.6

ASA_XCA_AXVIEC20041027_162907_20030211_000000_20030601_000000

- ✓ Created to use a different K for WV (IS2 VV) before and after May 2003.
- ✓ No changes with respect to the previous XCA file covering this time period.

ASA XCA AXVIEC20040812 170224 20040412 000000 20041231 000000

✓ Update of elevation antenna pattern for: SS1_HH, SS2_IS3_HH, SS3_IS4_HH and SS2_IS3_VV.

ASA_INS_AXVIEC20040521_160843_20030211_000000_20041231_000000

✓ GM ISG increased by 1 for all sub-swaths

ASA_CON_AXVIEC20040407_173947_20021017_130000_20041231_000000

✓ Increased GM SS3 HH gain (by decreasing 0.5 dB the Eq. Energy for GM SS3 HH)

ASA_XCA_AXVIEC20040406_160451_20030211_000000_20041231_000000

✓ Updated elevation patterns for: SS1 HH-VV, IS1 VV-VH, IS2 HH-VV-HV-VH, IS4 HV-VH, IS5 HH-HV-VH, IS6 HV-VH

ASA_XCA_AXVIEC20040326_190217_20030211_000000_20041231_000000

✓ Inserted calibration constant for GMM products: 73.4 dB for HH and 74.0 dB for VV.

ASA_CON_AXVIEC20040322_164757_20021017_130000_20041231_000000

- ✓ Same as last update (20040308): Updated AP Eq. Energy values (different per each polarization).
- ✓ Changed AP normalization method from reference energy to equivalent energy.
- ✓ Enable DAR for GM.

ASA CON AXVIEC20040308 103426 20021017 130000 20041231 000000

- ✓ Updated AP Eq. Energy values (different per each polarization).
- ✓ Changed AP normalization method from reference energy to equivalent energy.
- ✓ Enable DAR for GM.

ASA INS AXVIEC20031212 122530 20020815 131000 20021017 162400

✓ SWST bias updated.

ASA CON AXVIEC20031212 122409 20021017 130000 20041231 000000

✓ End validity date extended till 31-12-2004

ASA_INS_AXVIEC20031212_105841_20021017_162400_20021030_110000

✓ SWST bias updated

ASA_CON_AXVIEC20031212_105603_20021017_130000_20031231_000000

✓ Dates adjusted to previous ASA_CON_AX version from 09-09-03.

ASA_XCA_AXVIEC20031209_113559_20030211_000000_20041231_000000

- ✓ End validity time extended until 31 December 2004.
- ✓ Elevation antenna patterns updated for: IS1 VV, IS1 HH, IS1 VH, IS2 VV and SS2_IS3 HH.

ASA_INS_AXVIEC20031209_113421_20030211_000000_20041231_000000

- ✓ SWST Bias updated.
- ✓ End validity time extended until 31 December 2004.

ASA_INS_AXVIEC20031209_113259_20021030_110000_20030211_000000

✓ SWST Bias updated

ASA_XCH_AXVIEC20031209_112947_20020301_000000_20041231_000000

✓ End validity time extended until 31 December 2004

ASA_CON_AXVIEC20031209_112721_20020301_000000_20041231_000000

✓ End validity time extended until 12 December 2004

ASA CON AXVIEC20041215 175442 20030601 000000 20051231 000000

✓ Image mode (IM) Reference Energy updated for data acquired after the DSS redundancy change in May 2003. IM Reference Energy before the DSS redundancy change can be found in the ASA_CON_AXVIEC20041215_180008_20021017_130000_20030601_0000000 file. End validity time extended to 31-DEC-2005.

ASA_CON_AXVIEC20041215_180008_20021017_130000_20030601_000000

✓ File created to have different reference energy values before/after the DSS change after May 2003.

ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000

✓ End validity time extended to 31-DEC-2005.

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000

✓ End validity time extended to 31-DEC-2005.

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000

✓ WSS processing gain values set.

ASA_XCA_AXXIEC20050803_151858_20020413_000000_20030211_000000

✓ Inserted calibration constant values for ASA_WSS_1P product HH & VV (=80.28 dB)

ASA XCA AXXIEC20050803 150715 20030211 000000 20030601 000000

✓ Inserted calibration constant values for ASA_WSS_1P product HH & VV (=80.28 dB)

ASA_XCA_AXXIEC20050803_151318_20030601_000000_20030804_000000

✓ Inserted calibration constant values for ASA WSS 1P product HH & VV (=80.28 dB)

ASA XCA AXXIEC20050803 151945 20030804 000000 20040412 000000

✓ Inserted calibration constant values for ASA_WSS_1P product HH & VV (=80.28 dB)

ASA XCA AXXIEC20050803 152145 20040412 000000 20051231 000000

✓ Inserted calibration constant values for ASA_WSS_1P product HH & VV (=80.28 dB)

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000

✓ Update after the antenna maintenance, refinement operation performed on 16 Sep.2005. Eq.Energy updated for WS HH SS1,SS5 and GM HH SS1 Change in Eq. Energy for: WS HH SS1: from 1.08 dB to 1.15 dB, WS HH SS3: from 9.13 dB to 9.20 dB, GM HH SS1: from 16.43 dB to 16.73 dB

ASA XCA AXVIEC20051013 151933 20040412 000000 20050101 000000

✓ Same content as:ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_00 0000 but split due to changes in the antenna patterns from Jan05

ASA_XCA_AXVIEC20051013_152245_20050101_000000_20050914_080040

✓ Changes in the ScanSAR elevation antenna patterns. New patterns valid from Jan 2005 till 14 Sep.2005. Updated elevation patters: IS3_SS2 VV, IS4_SS3 HH &VV, IS5_SS4 VV, IS6_SS5 HH & VV, SS1 HH & VV

ASA XCA AXVIEC20051013 152531 20050916 195733 20061231 000000

✓ Updated ScanSAR elevation antenna patterns since antenna maintenance refinement on 16 Sep.05. K for WS HH & VV updated as well. Updated elevation patters: IS3_SS2 HH &VV, IS4_SS3 HH & VV, IS5_SS4 HH, IS6_SS5 HH, SS1 HH & VV. Updated K: WSM HH K: 6309573.44, WSM VV K: 7413102.41

ASA XCA AXVIEC20051103 160021 20050101 000000 20050914 080040

✓ Updated of elevation antenna patterns for: IS2 HH and IS2 VV before the antenna maintenance. New patterns valid from Jan 2005 till 14 Sep.2005. Updated elevation patters: IS2 HH & VV

ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000

✓ User description: Elevation antenna patterns for SS1 HH & VV updated

ASA INS AXVIEC20051219 161945 20030211 000000 20061231 000000

✓ User description: End validity date extended till December 2006

ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000

✓ User description: End validity date extended till December 2008

ASA_XCA_AXVIEC20060223_133247_20050101_000000_20050914_000000

✓ User description: elevation antenna pattern update for beams IS1 to IS7 and polarisation HV and VH

ASA_CON_AXVIEC20060614_160050_20021017_130000_20030601_000000

✓ User description: Processing gain for WSS products updated. Set to same value as for products acquired after 2003-06-01.

ASA_XCA_AXVIEC20060620_132802_20030211_000000_20030601_000000

✓ User description: Update of the reference document in the MPH

ASA_XCA_AXVIEC20060620_133409_20030601_000000_20030804_000000

✓ User description: Update of the reference document in the MPH

ASA_XCA_AXVIEC20060620_133829_20030804_000000_20040412_000000

✓ User description: Update of the reference document in the MPH

ASA_XCA_AXVIEC20060620_145317_20020413_000000_20030211_000000

✓ User description: Update of the reference document in the MPH

ASA XCA AXVIEC20060717 154125 20050916 195733 20061231 000000

✓ User description: The following ASAR antenna patterns have been updated: IS1 HV & VH,IS2 HV & VH,IS3 HV & VH,IS4 HV & VH,IS5 HV,IS6 HV & VH,IS7 HV & VH

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000

✓ User description: Update of the reference chirp energy value for Image Mode, beam IS2, polarisation VV

ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA INS AXVIEC20061220 105425 20030211 000000 20071231 000000

✓ User description: End validity date extended to 31 December 2007

ASA_XCA_AXVIEC20070130_105508_20020413_000000_20030211_000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA XCA AXVIEC20070130 110635 20030211 000000 20030601 000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA XCA AXVIEC20070130 111245 20030804 000000 20040412 000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA_XCA_AXVIEC20070130_111029_20030601_000000_20030804_000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA_XCA_AXVIEC20070130_111449_20040412_000000_20050101 000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA_XCA_AXVIEC20070130_111710_20050101_000000_20050914_000000

✓ User description: Update of the calibration constant for the following ASAR products: IMM, APM, APP, APS, APG, IMP, IMG, IMS

ASA_CON_AXVIEC20070202_163902_20030601_000000_20050916_195733

✓ User description: Update of the end validity date

ASA_CON_AXVIEC20070212_170541_20070213_214400_20070213_214900

✓ User description: Update of the end validity date. User description: Enable Doppler Grid ADS creation for ASA_WSM_1P products(validity covers a single segment over Antarctica)

ASA CON AXVIEC20070215 183645 20050916 195733 20070204 165113

✓ User description: Update of the end validity date

ASA_CON_AXVIEC20070215_184018_20070204_165113_20071231_000000

✓ User description: Update of the reference chirp energy values for IM and WSM products

ASA_XCA_AXVIEC20070215_184408_20050916_195733_20070204_165113

✓ User description: Update of the end validity date

ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000

✓ User description: Update of the Antenna elevation pattern gain for HH polarisation for the swaths SS1, IS3/SS2, IS4/SS3, IS5/SS4, IS6/SS5

ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000

✓ User description: For VV polarisation the following antenna elevation pattern have been updated: SS1,IS3_SS2,IS4_SS3,IS5_SS4,IS6_SS5

ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000

✓ User description: Update of the reference chirp energy values for WS products, polarisation VV, swaths SS4,SS5

ASA INS AXVIEC20070223 140724 20070226 000000 20071231 000000

✓ User description: Update of the M value from 277 to 194 for AP mode, swath IS5 for the AP IS5 test over critical ANX range, planned from 26th Feb 2007 to 17th Mar 2007

ASA INS AXVIEC20070227 105626 20070228 060000 20071231 000000

✓ User description: Number of pulses per burst for all AP swaths (but IS1) reduced to 194 (same as IS1). Expected to solve/improve the on-board anomalies related to AP usage. CTI-s (CTI_AIx) will be updated from same start validity date

ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000

✓ User description: Update of the number of pulses per burst for all AP swaths IS1=194, IS2=196, IS3=257, IS4=218, IS5=194, IS6=238, IS7=297.

ASA_CON_AXVIEC20070313_165336_20070314_043800_20070314_045200

User description: Enable Doppler Grid ADS creation for ASA_WSM_1P products (validity covers 2 segments over Antarctica).

ASA CON AXVIEC20070320 170948 20070321 003000 20070321 050000

✓ User description: Enable WSM Doppler grid for few orbits at PDHS-E.

ASA_CON_AXVIEC20070326_152930_20070327_000000_20070328_000000

✓ User description: WSM Doppler grid enabled both at PDHS-K and PDHS-E on 27 march 2007 (24 hours in total).

ASA_CON_AXVIEC20070328_163753_20070329_000000_20070330_120000

✓ User description: WSM Doppler grid added at PDHS-E and PDHS-K for 1.5 days.

ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000

✓ User description: WSM Doppler grid enabled for the period covered by the latest operational CON file (Feb07-Dec07). Equivalent Energy values updated for IM and WS.

ASA XCA AXVIEC20070517 153558 20070204 165113 20071231 000000

✓ User description: The following antenna elevation patterns have been updated using data acquired over Amazon RF: IS1[VV, VH], IS2[HH, VV, HV, VH], IS3[HH, VV, HV, VH], IS4[HH, VV, HV, VH], IS5[VV], IS6[HH, VV, HV, VH], IS7[HH, VV, HV, VH].

ASA_CON_AXVIEC20071218_084201_20070204_165113_20081231_000000

✓ User description: Extension of the end validity date to 31 December 2008. Update of the reference document to PO-RS-MDA-GS-2009_08_4B

ASA_INS_AXVIEC20071218_083603_20070307_060000_20081231_000000

✓ User description: Extension of the end validity date to 31 December 2008. Update of the reference document to PO-RS-MDA-GS-2009_08_4B.

ASA XCA AXVIEC20071218 082742 20070204 165113 20081231 000000

User description: The following antenna elevation patterns have been updated using data acquired over Amazon RF: IS1 [HH], IS5 [HH]. Extension of the end validity date to 31 December 2008. Update of the reference document to PO-RS-MDA-GS-2009 08 4B.

ASA CON AXVIEC20080604 143203 20050916 195733 20070204 165113

✓ User description: Enabled "Doppler Centroid Grid ADS" for ASAR WSM products.

ASA CON AXVIEC20080604 143539 20021017 130000 20030601 000000

✓ User description: Enabled "Doppler Centroid Grid ADS" for ASAR WSM products.

ASA CON AXVIEC20080610 122458 20030601 000000 20050916 195733

✓ User description: Enabled "Doppler Centroid Grid ADS" for ASAR WSM products.

ASA_XCA_AXVIEC20080710_133546_20070204_165113_20081231_000000

✓ User description: The following elevation antenna patterns have been updated: SS1[HH], IS1[HH], IS1[VV], IS3_SS2[HH], IS3_SS2[VV], IS4_SS3[HH], IS5_SS4[HH], IS5_SS4[VV], IS6_SS5[HH], IS6_SS5[VV].

ASA CON AXVIEC20080710 132557 20070204 165113 20081231 000000

✓ User description: Updated reference chirp energy values for WSM products, HH and VV polarisations.

ASA_INS_AXVIEC20081215_140905_20070307_060000_20091231_000000

✓ User description: Extension of the end validity date up to 31-DEC-2009

ASA CON AXVIEC20081215 141339 20070204 165113 20091231 000000

✓ User description: Extension of the end validity date up to 31-DEC-2009

ASA_XCA_AXVIEC20081215_141741_20070204_165113_20091231_000000

✓ User description: Extension of the end validity date up to 31-DEC-2009

ASA_XCH_AXVIEC20081215_143642_20020301_000000 20091231 000000

✓ User description: Extension of the end validity date up to 31-DEC-2009

ASA_XCA_AXVIEC20090311_104037_20070204_165113 20080731 235959

✓ User description: Modified end validity time. Replaced 31-DEC-2009 with 31-JUL-2008.

ASA_XCA_AXVIEC20090311_104501_20080801_000000_20091231_235959

✓ User description: The following elevation antenna patterns have been updated: SS1[HH&VV], IS1[HH&VV], IS2[HH&VV], IS3[HH&VV], IS4[HH&VV], IS6[HH], IS7[HH]

ASA INS AXVIEC20090525 115408 20070307 060000 20090428 095959

✓ User description: Update of the end validity date due to ASAR Patch #9.

ASA INS AXVIEC20090525 114808 20090428 100000 20091231 235959

✓ User description: Update of the M value from 194 to 277 for AP mode, swath IS5. Updated start validity date.

APPENDIX A : INSTRUMENT UNVAILABILITIES LIST

Unavailability report reference	Start	Stop
EN-UNA-2004/0111	14/04/2004 02:45:00	14/04/2004 13:40:00
EN-UNA-2004/0114	20/04/2004 08:15:46	20/04/2004 08:23:31
EN-UNA-2004/0118	20/04/2004 10:00:54	20/04/2004 11:56:40
EN-UNA-2004/0124	26/04/2004 21:32:03	27/04/2004 09:41:43
EN-UNA-2004/0125	29/04/2004 08:32:08	29/04/2004 10:18:18
EN-UNA-2004/0129	02/05/2004 21:32:47	03/05/2004 09:41:44
EN-UNA-2004/0176	12/07/2004 11:21:46	12/07/2004 18:01:40
EN-UNA-2004/0191	04/08/2004 09:19:00	04/08/2004 09:26:00
EN-UNA-2004/0193	05/08/2004 23:07:33	05/08/2004 23:43:27
EN-UNA-2004/0229	12/09/2004 10:54:47	12/09/2004 11:12:40
EN-UNA-2004/0246	23/09/2004 06:13:17	23/09/2004 09:55:38
EN-UNA-2004/0252	26/09/2004 21:24:58	27/09/2004 11:02:04
EN-UNA-2004/0261	17/10/2004 02:28:31	17/10/2004 07:45:11
EN-UNA-2004/0265	01/11/2004 05:00:40	01/11/2004 05:01:40
EN-UNA-2004/0268	03/11/2004 09:59:30 Orbit = 14004	03/11/2004 10:04:58 Orbit = 14004
EN-UNA-2004/0270	07/11/2004 03:41:28 Orbit=14054	07/11/2004 08:00:03 Orbit=14060
EN-UNA-2004/0276	12/11/2004 21:46:59 Orbit = 14140	12/11/2004 23:43:46 Orbit = 14141
EN-UNA-2004/0281	16/11/2004 02:34:15 Orbit = 14185	16/11/2004 03:16:49 Orbit = 14186
EN-UNA-2004/0290	21/11/2004 19:36:58 Orbit = 14267	21/11/2004 22:19:32 Orbit = 14269
EN-UNA-2004/0299	29/11/2004 00:42:03 Orbit = 14370	29/11/2004 03:09:35 Orbit = 14372
EN-UNA-2004/0307	05/12/2004 15:06:14 Orbit = 14465	05/12/2004 15:35:42 Orbit = 14465
EN-UNA-2004/0309	09/12/2004 00:32:56 Orbit=14513	09/12/2004 00:56:03 Orbit=14514
EN-UNA-2004/0314	27/12/2004 01:50:26 Orbit=14772	27/12/2004 07:10:58 Orbit=14775
EN-UNA-2005/0002	01/01/2005 20:17:59 Orbit=14854	01/01/2005 22:37:38 Orbit=14856
EN-UNA-2005/0005	07/01/2005 03:00:00 Orbit=14936	07/01/2005 13:00:00 Orbit=14936

EN LINA 2005/0010	07/01/2005 13:00:00	07/01/2005 18:20:00
EN-UNA-2005/0010	Orbit=14936 09/01/2005 06:39:29	Orbit=14939 09/01/2005 06:45:03
EN-UNA-2005/0011	Orbit=14961	Orbit=14961
EN LINA 2005/0020	20/01/2005 16:49:16 Orbit = 15124	20/01/2005 17:05:23
EN-UNA-2005/0020	27/01/2005 19:59:57	Orbit = 15125 27/01/2005 22:52:29
EN-UNA-2005/0032	Orbit = 15226	Orbit = 15228
EN-UNA-2005/0039	05/02/2005 06:12:44 Orbit = 15347	05/02/2005 09:46:32 Orbit = 15349
EN-UNA-2005/0009	09/02/2005 08:38:15 Orbit = 15406	10/02/2005 00:17:26 Orbit = 15415
EN-UNA-2005/0054	21/02/2005 14:07:52 Orbit=15581	21/02/2005 15:53:57 Orbit=15582
EN-UNA-2005/0071	10/03/2005 10:38:15 Orbit = 15822	10/03/2005 10:49:45 Orbit = 15822
EN-UNA-2005/0072	10/03/2005 20:02:46 Orbit = 15828	10/03/2005 22:00:18 Orbit = 15829
EN-UNA-2005/0073	12/03/2005 15:51:15 Orbit = 15854	12/03/2005 15:56:28 Orbit = 15854
EN-UNA-2005/0078	17 Mar 2005 01:00:00 Orbit = 15917	17 Mar 2005 13:00:00 Orbit = 15924
EN-UNA-2005/0093	22/03/2005 09:03:10 Orbit = 15993	22/03/2005 09:09:10 Orbit = 15993
EN-UNA-2005/0103	02/04/2005 02:48:28 Orbit = 16147	02/04/2005 06:35:25 Orbit = 16149
EN-UNA-2005/0109	06/04/2005 02:53:21 Orbit = 16204	06/04/2005 06:10:08 Orbit = 16206
EN UNA 2005/0112	13 /04/ 2005 20:21:40	13 /04/ 2005 20:21:40
EN-UNA-2005/0113	Orbit = 16315 21/04/2005 04:17:47	Orbit = 16315 21/04/2005 04:17:47
EN-UNA-2005/0125	Orbit = 16419	Orbit = 16419
EN-UNA-2005/0149	12 /05/ 2005 10:50:00 Orbit = 16724	12 /05/ 2005 10:50:00 Orbit = 16724
EN-UNA-2005/0159	18/05/2005 01:49:01 Orbit = 16804	18/05/2005 01:49:01 Orbit = 16804
EIN-UINA-2003/0139	18 /05/ 2005 13:57:30	18 /05/ 2005 13:57:30
EN-UNA-2005/0161	Orbit = 16812	Orbit = 16812
EN-UNA-2005/0164	20/05/2005 12:09:50 Orbit = 16839	20/05 2005 12:09:50 Orbit = 16839
. ,		
EN-UNA-2005/0182	01/06/2005 16:44:17 Orbit = 17014	01/06/2005 16:51:19 Orbit = 17014

EN-UNA-2005/0188	06/06/2005 08:11:25 Orbit	06/06/2005 09:42:14
	= 17080	Orbit = 17081
EN-UNA-2005/0190	11/06/2005 03:19:14	11/06/2005 06:35:30
	Orbit = 17149	Orbit = 17151
EN-UNA-2005/0212	01/07/2005 13:54:40	01/07/2005 16:14:21
	Orbit = 17442	Orbit = 17443
EN-UNA-2005/0216	04/07/2005 02:55:43	04/07/2005 06:13:02
	Orbit = 17478	Orbit = 17480
EN-UNA-2005/0223	5/07/2005 17:16:39	5/07/2005 17:27:11
	Orbit = 17501	Orbit = 17501
EN-UNA-2005/0231	10/07/2005 11:15:25	10/07/2005 11:22:12
	Orbit = 17569	Orbit = 17569
EN-UNA-2005/0239	16/07/2005 21:03:12	16/07/2005 21:09:19
	Orbit = 17661	Orbit = 17661
EN-UNA-2005/0258	24/07/2005 07:22:41	24/07/2005 07:31:40
	Orbit = 17767	Orbit = 17767
EN-UNA-2005/0269	03/08/2005 22:01:30	03/10/2005 22:08:56
	Orbit = 17919	Orbit = 17919
EN-UNA-2005/0285	15/08/2005 03:41:02	15/08/2005 07:33:52
	Orbit = 18080	Orbit = 18082
EN-UNA-2005/0305	22/08/2005 01:25:33 Orbit	22/08/2005 08:50:14
	= 18178	Orbit = 18183
EN-UNA-2005/0325	24/08/2005 07:50:16 Orbit	24/08/2005 07:55:55
	= 18211	Orbit = 18211
EN-UNA-2005/0350	31/08/2005 04:11:27 Orbit	31/08/2005 07:37:21
	= 18309	Orbit = 18309
EN-UNA-2005/0357	06/09/2005 21:02:54 Orbit	06/09/2005 21:33:29
	= 18405	Orbit = 18405
EN-UNA-2005/0355	07/09/2005 04:20:00 Orbit	07/09/2005 13:40:00
	= 18409	Orbit = 18415
EN-UNA-2005/0365	14/09/2005 07:51:31 Orbit	14/09/2005 12:53:26
	= 18511	Orbit = 18514
EN-UNA-2005/0440	21/10/2005 09:22:00 Orbit	21/10/2005 09:34.58
	= 19042	Orbit = 19042
EN-UNA-2005/0441	23/10/2005 14:46:45 Orbit	23/10/2005 14:46:55
	= 19074	Orbit = 19074
EN-UNA-2005/0465	20/11/2005 23:20:25 Orbit	20/11/2005 23:28:50
	= 19480	Orbit = 19480
EN-UNA-2005/0473	11/12/2005 14:04:37.000	11/12/2005 14:14:52.000
	Orbit = 19775	Orbit = 19775
EN-UNA-2005/0477	18/12/2005 03:45:26.000	18/12/2005 07:11:19.000
	Orbit = 19869	Orbit = 19871
EN-UNA-2006/0009	9 Jan 2006 07:22:23.000	9 Jan 2006 09:05:12.000
	Orbit = 20186	Orbit = 20187
EN-UNA-2006/0022	25 Jan 2006 20:24:55.000	25 Jan 2006 20:31:34.000
	Orbit = 20423	Orbit 20423
	O1011 = 20423	O1011 20423

EN LINIA 2006/0029	07/02/2006 01-24-22 000	07/02/2006 05:10:20 000
EN-UNA-2006/0038	07/02/2006 01:34:22.000	07/02/2006 05:19:30.000
ENT. IDIA 2006/0052	Orbit = 20598	Orbit = 20600
EN-UNA-2006/0052	17/02/2006 02:45:18.000	17/02/2006 06:41:47.000
	Orbit = 20741	Orbit = 20744
EN-UNA-2006/0060	19/02/2006 15:08:07.273	19/02/2006 15:10:44.706
	Orbit = 20777	Orbit = 20778
EN-UNA-2006/0069	22/02/2006 11:00:16.000	22/02/2006 11:21:32.000
	Orbit = 20818	Orbit = 20818
EN-UNA-2006/0073	24/02/2006 02:19:08.441	24/02/2006 02:23:14.554
	Orbit = 20841	Orbit = 20841
EN-UNA-2006/0084	28/02/2006 07:39:56.000	28/02/2006 07:49:38.000
	Orbit = 20902	Orbit = 20902
EN-UNA-2006/0102	20/03/2006 07:03:30.000	20/03/2006 07:20:49.559
	Orbit = 21188	Orbit = 21188
EN-UNA-2006/0108	28/03/2006 00:39:22.000	28/03/2006 13:13:20.000
2000,0100	Orbit = 21298	Orbit = 21306
EN-UNA-2006/0120	06/04/2006 02:09:26.446	10/04/2006 17:23:03.000
211 0111 2000/0120	Orbit = 21428	Orbit = 21495
EN-UNA-2006/0122	12/04/2006 20:14:00.000	12/04/2006 20:19:54.776
LIV-01VII-2000/0122	Orbit = 21525	Orbit = 21525
EN-UNA-2006/0130	19/04/2006 08:18:12.000	19/04/2006 12:00:36.000
EN-UNA-2000/0130	Orbit = 21618	Orbit = 21620
EN-UNA-2006/0136	24/04/2006 07:09:20.000	24/04/2006 07:16:59.000
EN-UNA-2000/0130	Orbit = 21525	Orbit = 21689
EN-UNA-2006/0140	25/04/2006 14:55:00.000	25/04/2006 15:02:48.000
EN-UNA-2000/0140	Orbit = 21708	Orbit = 21708
EN LINA 2006/01/2	30/04/2006 13:55:00.000	30/04/2006 14:04:03.000
EN-UNA-2006/0143		
ENLINIA 2007/0151	Orbit = 21779	Orbit = 21779
EN-UNA-2006/0151	10/05/2006 19:59:10.000	10/05/2006 20:01:38.000
ENLINA 2006/0155	Orbit = 21926	Orbit = 21926
EN-UNA-2006/0155	11/05/2006 06:33:32.000	11/05/2006 06:41:29.000
EN 11N1 A006/0465	Orbit = 21932	Orbit = 21932
EN-UNA-2006/0167	22/05/2006 11:04:00.000	22/05/2006 11:23:16.000
TD1 1D1 200 (101 = 1	Orbit = 22092	Orbit = 22092
EN-UNA-2006/0171	25/05/2006 07:39:00.000	25/05/2006 07:45:47.000
	Orbit = 22133	Orbit = 22133
EN-UNA-2006/0185	03/06/2006 22:31:12.000	04/06/2006 00:37:03.000
	Orbit = 22271	Orbit = 22272
EN-UNA-2006/0186	04/06/2006 20:07:16.000	04/06/2006 22:58:54.000
	Orbit = 22283	Orbit = 22285
EN-UNA-2006/0188	10/06/2006 20:17:47.000	10/06/2006 22:35:24.000
	Orbit = 22369	Orbit = 22371
EN-UNA-2006/0190	13/06/2006 07:14:05.000	13/06/2006 07:18:46.000
	Orbit = 22405	Orbit = 22405
EN-UNA-2006/0200	22/06/2006 17:42:40.000	22/06/2006 17:49:40.000
	Orbit = 22540	Orbit = 22540

EN-UNA-2006/0204	EN-UNA-2006/0230 Orbit = 22562 EN-UNA-2006/0212 01/07/2006 08:09:30.000 01/07/2006 08:16:10.000 Orbit = 22663 EN-UNA-2006/0230 26/07/2006 13:28:00.000 Orbit = 23024 EN-UNA-2006/0235 2/8/2006 13:30:01.335 2/08/2006 13:33:09.238 Orbit = 23124 Orbit = 23124 EN-UNA-2006/0237 4/8/2006 10:21:22.000 4/8/2006 10:30:10.000 Orbit = 23151 EN-UNA-2006/0240 8/8/2006 08:19:23.000 Orbit = 23151 EN-UNA-2006/0240 14/8/2006 15:20:59.000 0rbit = 23207 Orbit = 23207 EN-UNA-2006/0248 14/8/2006 15:20:59.000 0rbit = 23297 Orbit = 233207 EN-UNA-2006/0254 21/8/2006 14:47:52.107 0rbit = 23397 EN-UNA-2006/0254 21/8/2006 16:47:52.107 0rbit = 23397 Orbit = 23397 EN-UNA-2006/0257 24/8/2006 16:47:52.107 0rbit = 23397 EN-UNA-2006/0257 24/8/2006 09:12:28.052 0/8/2006 12:35:07.052 Orbit = 23508 EN-UNA-2006/0261 29/8/2006 09:12:28.052 0/8/2006 12:35:07.052 Orbit = 23558 EN-UNA-2006/0263 03/09/2006 06:20:00.000 0/00 0rbit = 23558 EN-UNA-2006/0260 03/09/2006 17:59:17.000 03/09/2006 18:07:40.000 Orbit = 23585 EN-UNA-2006/0280 16/09/2006 13:53:10.877 0rbit = 23585 EN-UNA-2006/0290 23/09/2006 13:53:10.877 0rbit = 23389 Orbit = 23585 EN-UNA-2006/0290 1/10/2006 14:43:21.000 0rbit = 23389 Orbit = 23589 EN-UNA-2006/0290 23/09/2006 13:53:10.877 0rbit = 23398 Orbit = 23398 EN-UNA-2006/0290 1/10/2006 14:43:21.000 0rbit = 23398 Orbit = 23398 Orbit = 23398 Orbit = 23398 Orbit = 23998 Orbit = 23998 Orbit = 24012 EN-UNA-2006/0303 6/10/2006 13:38:04.000 0rbit = 23998 Orbit = 24012 Orbit = 24053 EN-UNA-2006/0304 17/10/2006 14:07:37.000 Orbit = 24053 Orbit = 24069 Orbit = 24060 Orbit = 24228 EN-UNA-2006/0316 18/10/2006 14:07:37.000 Orbit = 24228 EN-UNA-2006/0330 02/11/2006 14:30:50.000 Orbit = 24228 EN-UNA-2006/0330 02/11/20	EN LINIA 2006/0204	24/06/2006 07:17:00 000	24/06/2006 07:22:52 000
EN-UNA-2006/0212	EN-UNA-2006/0212 01/07/2006 08:09:30.000 Orbit = 22663	EN-UNA-2006/0204	24/06/2006 07:17:00.000	24/06/2006 07:23:52.000
Orbit = 22663	EN-UNA-2006/0237			
EN-UNA-2006/0235	EN-UNA-2006/0230	EN-UNA-2006/0212	01/07/2006 08:09:30.000	01/07/2006 08:16:10.000
Orbit = 23024	Crbit = 23024		Orbit = 22663	Orbit = 22663
EN-UNA-2006/0237	EN-UNA-2006/0235	EN-UNA-2006/0230	26/07/2006 13:28:00.000	26/07/2006 13:41:43.000
EN-UNA-2006/0237	EN-UNA-2006/0235		Orbit = 23024	Orbit = 23024
Orbit = 23124	Orbit = 23124	EN_UNA_2006/0235		
EN-UNA-2006/0237	EN-UNA-2006/0237	2000/0233		
Orbit = 23151	Orbit = 23151	EN LINIA 2007/0227		
EN-UNA-2006/0240	EN-UNA-2006/0240 8/8/2006 08:19:23.000 Orbit = 23207 EN-UNA-2006/0248 14/8/2006 15:20:59.000 Orbit = 23297 EN-UNA-2006/0254 21/8/2006 15:20:59.000 Orbit = 23297 EN-UNA-2006/0254 21/8/2006 16:40:50.000 Orbit = 23397 EN-UNA-2006/0257 24/8/2006 16:40:50.000 Orbit = 23341 EN-UNA-2006/0261 29/8/2006 09:12:28.052 Orbit = 23341 EN-UNA-2006/0261 29/8/2006 09:12:28.052 Orbit = 23508 EN-UNA-2006/0263 03/09/2006 06:20:00.000 07bit = 23578 EN-UNA-2006/0266 03/09/2006 14:12:15.000 Orbit = 23578 EN-UNA-2006/0280 16/09/2006 14:12:15.000 Orbit = 23578 EN-UNA-2006/0290 23/09/2006 13:53:10.877 23/09/2006 16:00:55.216 Orbit = 23984 Orbit = 23984 EN-UNA-2006/0298 1/10/2006 14:10:16.000 Orbit = 23998 EN-UNA-2006/0298 21/10/2006 14:10:16.000 Orbit = 23998 EN-UNA-2006/0303 6/10/2006 13:38:04.000 Orbit = 24012 EN-UNA-2006/0301 14/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0303 6/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0304 17/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0307 14/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0308 17/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0309 2/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0301 14/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0303 6/10/2006 10:57:34.000 Orbit = 24012 EN-UNA-2006/0304 17/10/2006 13:38:30.00 Orbit = 24012 EN-UNA-2006/0307 14/10/2006 13:38:30.00 Orbit = 24169 EN-UNA-2006/0307 14/10/2006 19:53:41.000 Orbit = 24169 EN-UNA-2006/0308 18/10/2006 19:53:41.000 Orbit = 24216 EN-UNA-2006/0309 2/10/2006 19:53:41.000 Orbit = 24216 EN-UNA-2006/0301 18/10/2006 19:53:41.000 Orbit = 24216 EN-UNA-2006/0302 24/10/2006 19:53:41.000 Orbit = 24216 EN-UNA-2006/0303 0/10/2006 10:00:50:00:50:000 Orbit = 24210	EN-UNA-2006/023/		
Orbit = 23207	Orbit = 23207			
EN-UNA-2006/0248	EN-UNA-2006/0248	EN-UNA-2006/0240	8/8/2006 08:19:23.000	8/8/2006 08:28:56.000
Orbit = 23297	Orbit = 23297		Orbit = 23207	Orbit = 23207
EN-UNA-2006/0254 21/8/2006 14:47:52.107 Orbit = 23397 Orbit = 23397 EN-UNA-2006/0257 24/8/2006 16:40:50.000 Orbit = 23441 Orbit = 23441 EN-UNA-2006/0261 29/8/2006 09:12:28.052 Orbit = 23508 Orbit = 23508 EN-UNA-2006/0263 Orbit = 23578 Orbit = 23578 EN-UNA-2006/0266 03/09/2006 06:20:00.000 Orbit = 23578 EN-UNA-2006/0266 03/09/2006 17:59:17.000 Orbit = 23585 EN-UNA-2006/0260 16:09/2006 14:12:15.000 Orbit = 23585 EN-UNA-2006/0280 16/09/2006 14:12:15.000 Orbit = 23770 EN-UNA-2006/0290 23/09/2006 13:53:10.877 Orbit = 23869 Orbit = 23880 EN-UNA-2006/0298 1/10/2006 14:43:21.000 Orbit = 23985 EN-UNA-2006/0299 2/10/2006 14:10:16.000 Orbit = 23985 EN-UNA-2006/0300 3/10/2006 13:38:04.000 Orbit = 24012 Orbit = 24012 EN-UNA-2006/0307 14/10/2006 10:57:34.000 Orbit = 24012 EN-UNA-2006/0307 14/10/2006 13:38:33.000 Orbit = 24053 EN-UNA-2006/0314 17/10/2006 19:53:41.000 Orbit = 24169 EN-UNA-2006/0316 18/10/206 09:35:01.000 Orbit = 24228 EN-UNA-2006/0322 24/10/2006 09:35:01.000 Orbit = 24228 EN-UNA-2006/0322 24/10/2006 09:35:01.000 Orbit = 24228 EN-UNA-2006/0322 24/10/2006 09:35:01.000 Orbit = 24310	EN-UNA-2006/0254 21/8/2006 14:47:52.107 Orbit = 23397 Orbit = 23397 EN-UNA-2006/0257 24/8/2006 16:40:50.000 Orbit = 23441 Orbit = 23441 EN-UNA-2006/0261 29/8/2006 09:12:28.052 Orbit = 23508 EN-UNA-2006/0263 03/09/2006 06:20:00.000 Orbit = 23578 EN-UNA-2006/0266 03/09/2006 17:59:17.000 Orbit = 23578 EN-UNA-2006/0266 03/09/2006 17:59:17.000 Orbit = 23585 EN-UNA-2006/0260 16/09/2006 14:12:15.000 Orbit = 23578 EN-UNA-2006/0280 16/09/2006 13:53:10.877 Orbit = 23869 Orbit = 23870 EN-UNA-2006/0290 170/2006 14:43:21.000 Orbit = 23870 EN-UNA-2006/0290 170/2006 14:43:21.000 Orbit = 23985 EN-UNA-2006/0299 170/2006 14:10:16.000 Orbit = 23985 EN-UNA-2006/0299 170/2006 13:38:04.000 Orbit = 23998 EN-UNA-2006/0303 170/2006 10:57:34.000 Orbit = 24012 EN-UNA-2006/0303 14/10/2006 13:38:33.000 Orbit = 24012 EN-UNA-2006/0304 17/10/2006 13:38:33.000 Orbit = 24012 EN-UNA-2006/0307 14/10/2006 13:38:33.000 Orbit = 24169 EN-UNA-2006/0314 17/10/2006 19:53:41.000 Orbit = 24216 EN-UNA-2006/0322 24/10/2006 14:30:52.000 Orbit = 24228 EN-UNA-2006/0333 02/11/2006 14:30:52.000 Orbit = 24218 EN-UNA-2006/0333 02/11/2006 14:30:52.000 Orbit = 242310 Orbit = 24310 EN-UNA-2006/0333 02/11/2006 14:30:52.000	EN-UNA-2006/0248	14/8/2006 15:20:59.000	14/8/2006 15:24:38.000
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Orbit = 24227 Orbit = 24228 EN-UNA-2006/0322 24/102006 09:35:01.000 Orbit = 24310 Orbit = 24310	Orbit = 24227 Orbit = 24228 EN-UNA-2006/0322 24/102006 09:35:01.000 24/10/2006 09:42:25.000 Orbit = 24310 Orbit = 24310 EN-UNA-2006/0333 02/11/2006 14:30:52.000 02/11/2006 16:48:39.000	EN-UNA-2006/0316		
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Orbit = 24442 Orbit = 24443				
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	Orbit = 24528	Orbit = 24529
EN-UNA-2006/0342	15/11/2006 16:10:05.724	15/11/2006 18:05:13.248
	Orbit = 24629	Orbit = 24630
EN-UNA-2006/0343	20/11/2006 13:30:36.000	20/11/2006 14:04:27.000
	Orbit = 24699	Orbit = 24699
EN-UNA-2006/0345	22/11/2006 06:56:58.000	22/11/2006 07:27:33.000
	Orbit = 24723	Orbit = 24724
EN-UNA-2006/0350	24/11/2006 14:49:34.000	24/11/2006 15:09:01.000
	Orbit = 24757	Orbit = 24757
EN-UNA-2006/0357	28/11/2006 07:58:29.000	30/11/2006 13:29:00.000
	Orbit = 24810	Orbit = 24842
EN-UNA-2006/0360	01/12/2006 12:44:47.000	01/12/2006 13:16:28.000
211 2111 2000/0500	Orbit = 24856	Orbit = 24856
EN-UNA-2006/0362	02/12/2006 01:46:48.000	02/12/2006 07:38:30.000
EN-UNA-2000/0302	Orbit = 24863	Orbit = 24867
EN-UNA-2006/0364	$04/12/2006 \ 12:50:04.000$	04/12/2006 13:24:50.000
EIN-UINA-2000/0304		
ENI LINIA 2007/02/0	Orbit = 24899	Orbit = 24899
EN-UNA-2006/0369	12/12/2006 14:24:33.000	12/12/2006 14:32:26.000
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EN-UNA-2006/0372	12/12/2006 18:02:17.000	16/12/2006 02:58:44.000
	Orbit = 25016	Orbit = 25065
EN-UNA-2006/0378	24/12/2006 11:07:30.000	24/12/2006 11:14:05.000
	Orbit = 25184	Orbit = 25184
EN-UNA-2006/0383	27/12/2006 14:15:30.000	27/12/2006 17:39:31.000
	Orbit = 25229	Orbit = 25231
EN-UNA-2007/0003	03/01/2007 09:08:30.000	03/01/2007 09:14:26.000
	Orbit = 25326	Orbit = 25326
EN-UNA-2007/0007	06/01/2007 02:40:22.000	06/01/2007 04:15:17.000
	Orbit = 25365	Orbit = 25366
EN-UNA-2007/0015	22/01/2007 23:29:00.000	23/01/2007 12:14:00.000
	Orbit = 25606	Orbit = 25614
EN-UNA-2007/0029	02/02/2007 03:29:56.000	02/02/2007 20:06:32.000
	Orbit = 25752	Orbit = 25762
EN-UNA-2007/0029	02/02/2007 20:41:46.000	04/02/2007 16:51:13.000
	Orbit = 25762	Orbit = 25789
EN-UNA-2007/0038	09/02/2007 16:07:58.000	09/02/2007 16:36:05.000
211 2111 2007/0030	Orbit = 25860	Orbit = 25860
EN-UNA-2007/0039	10/02/2007 20:17:43.000	10/02/2007 21:31:10.000
111-0111-2007/0033	Orbit = 25876	Orbit = 25877
EN-UNA-2007/0041	$12/02/2007 \ 00:47:33.000$	12/02/2007 04:52:37.000
EIN-UINA-200//0041	Orbit = 25893	Orbit = 25896
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EN-UNA-2007/0053	03/03/2007 11:31:22.000	03/03/2007 12:05:49.000
ENLINIA COCTIONS	Orbit = 26172	Orbit = 26172
EN-UNA-2007/0054	03/03/2007 14:28:29.000	03/03/2007 14:59:00.000
	Orbit = 26174	Orbit = 26174
EN-UNA-2007/0055	04/03/2007 13:07:07.000	04/03/2007 14:25:55.000
	Orbit = 26187	Orbit = 26188

Orbit = 26204 Orbit = 26204	Crbit = 26204	EN-UNA-2007/0059	05/03/2007 16:51:22.000	05/03/2007 17:16:25.000
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Crbit = 26453	Crbit = 26453		Orbit = 26372	Orbit = 26372
Crbit = 26453	Crbit = 26453	EN-UNA-2007/0078	23/03/2007 02:48:45.000	23/03/2007 07:43:17.000
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EN-UNA-2007/0219	EN-UNA-2007/0223	EN LINIA 2007/0197	22 Jul 2007 21:05:00.000	22 Jul 2007 21:36:04.000
EN-UNA-2007/0219	EN-UNA-2007/0219	EN-UNA-2007/0187	Orbit = 28196	Orbit = 28196
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	Orbit = 30192	Orbit = 30194
	11 Dec 2007 8:06:00.000	11 Dec 2007 11:36:13.000
EN-UNA-2007/0266	Orbit = 30221	Orbit = 30223
	13 Dec 2007 6:22:00.000	13 Dec 2007 15:04:39.000
EN-UNA-2007/0278	Orbit = 30248	Orbit = 30254
	16 Jan 2008 16:11:00.000	17 Jan 2008 10:35:21.000
EN-UNA-2008/0010	Orbit = 30741	Orbit = 30752
	17 Jan 2008 09:42:13.000	17 Jan 2008 13:03:25.000
EN-UNA-2008/0011	Orbit = 30751	Orbit = 30753
	22 Jan 2008 14:11:03.000	22 Jan 2008 14:41:07.000
EN-UNA-2008/0017	Orbit = 30826	Orbit = 30826
	28 Jan 2008 16:11:51.540	28 Jan 2008 18:04:35.000
EN-UNA-2008/0023	Orbit = 30913	Orbit = 30914
EN IDIA 2000/002 /	31 Jan 2008 00:54:40.528	31 Jan 2008 00:55:17.000
EN-UNA-2008/0024	Orbit = 30946	Orbit = 30946
EN 11N1 A 2000/0025	5 Feb 2008 17:00:26.000	5 Feb 2008 19:00:13.000
EN-UNA-2008/0027	Orbit = 31028	Orbit = 31029
EN TINA 2000/0022	11 Feb 2008 23:45:12.000	12 Feb 2008 09:10:21.000
EN-UNA-2008/0033	Orbit = 31118	Orbit = 31123
EN LINA 2009/0045	1 Mar 2008 05:23:34.000	1 Mar 2008 07:33:46.000
EN-UNA-2008/0045	Orbit = 31379	Orbit = 31380
EN 11N/A 2000/0054	13 Mar 2008 9:33:46.000	13 Mar 2008 19:28:40.000
EN-UNA-2008/0054	Orbit = 31553	Orbit = 31559
EN-UNA-2008/0063	15 Apr 2008 01:32:02.556	15 Apr 2008 01:33:36.325
LIN-01NA-2000/0003	Orbit = 32020	Orbit = 32020
EN-UNA-2008/0070	21 Apr 2008 21:59:00.000	22 Apr 2008 07:22:00.000
L11-011/A-2000/00/0	Orbit = 32118	Orbit = 32124
EN-UNA-2008/0082	6 May 2008 08:09:32.000	6 May 2008 08:18:11.000
LIT 0111 2000/0002	Orbit = 32325	Orbit = 32325
EN-UNA-2008/0090	1 Jun 2008 00:34:17.000	1 Jun 2008 00:39:03.000
	Orbit = 32693	Orbit = 32693
EN-UNA-2008/0097	18 Jun 2008 18:26:01.000	18 Jun 2008 18:27:31.000
	Orbit = 32947	Orbit = 32947
EN-UNA-2008/0100	23 Jun 2008 08:02:19.000	23 Jun 2008 11:08:49.000
	Orbit = 33012	Orbit = 33014
EN-UNA-2008/0104	30 Jun 2008 22:04:59.000	1 Jul 2008 12:03:18.000
	Orbit = 33121	Orbit = 33129
EN-UNA-2008/0104	30 Jun 2008 22:04:59.000	1 Jul 2008 12:03:18.000
	Orbit = 33121	Orbit = 33129
EN-UNA-2008/0121	19 Jul 2008 18:34:43.214	19 Jul 2008 18:45:48.214
	Orbit = 33390	Orbit = 33391
EN-UNA-2008/0124	25 Jul 2008 11:08:00.000 Orbit = 33472	25 Jul 2008 11:35:31.000 Orbit = 33472
EN-UNA-2008/0140	Orbit = 33472	
	25 Aug 2008 9:31:12.000 Orbit = 33921	25 Aug 2008 19:52:15.000 Orbit = 33921
	8 Sep 2008 21:59:58.000	O101t - 33921
EN-UNA-2008/0144	Orbit = 34123	9 Sep 2008 07:59:53.000
	O1011 = 34123	

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EN-UNA-2008/0169	21 01 11 2000/0122		
EN-UNA-2008/0169 Orbit = 34614 Orbit = 34616 EN-UNA-2008/0169 Orbit = 34691 Orbit = 34691 EN-UNA-2008/0177 1 Nov 2008 20:16:08.000 Orbit = 34896 EN-UNA-2008/0183 0rbit = 348997 Orbit = 34896 EN-UNA-2008/0185 11 Nov 2008 01:41:48.000 Orbit = 34997 EN-UNA-2008/0185 17 Nov 2008 01:41:48.000 Orbit = 35027 Orbit = 35028 EN-UNA-2008/0186 0rbit = 35125 Orbit = 35130 Orbit = 35130 Orbit = 35130 Orbit = 35130 Orbit = 355130 Orbit = 35503 Orbit = 35084 Orbit = 35344 Orbit = 35344 Orbit = 35544 Orbit = 35573 Orbit = 35573 Orbit = 35575 Orbit = 35580 Orbit = 35575 Orbit = 35800 Orbit = 36128 Orbit = 36487 Orbit = 36490 Orbit = 36490 Orbit = 36490 Orbit = 37130 Orbit = 37130 Orbit = 37130 Orbit = 37130 Orbit = 37131 Orbit = 37438 Orbit = 37440 Orbit = 37451 Orbit = 37451 Orbit = 37451	EN LINA 2009/0165	13 Oct 2008 06:11:51.000	13 Oct 2008 09:23:21.000
EN-UNA-2008/0169	EN-UNA-2006/0103	Orbit = 34614	Orbit = 34616
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EN-UNA-2008/0185 EN-UNA-2008/0186 EN-UNA-2008/0186 EN-UNA-2008/0186 EN-UNA-2008/0186 EN-UNA-2008/0190 EN-UNA-2008/0190 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2009/0001 EN-UNA-2009/0001 EN-UNA-2009/0006 EN-UNA-2009/0007 EN-UNA-2009/0006 EN-UNA	FN-UNA-2008/0183		
EN-UNA-2008/0186 EN-UNA-2008/0186 EN-UNA-2008/0186 EN-UNA-2008/0190 EN-UNA-2008/0190 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0213 EN-UNA-2009/0001 EN-UNA-2009/0015 EN-UNA-2009/0006 EN-UNA-2009/0073 EN-UNA-2009/0075 EN-UNA-2009/0075 EN-UNA-2009/0075 EN-UNA-2009/0076 EN-UNA-2009/0076 EN-UNA-2009/0076 EN-UNA-2009/0076 EN-UNA-2009/0078 EN-UNA-2009/0078 EN-UNA-2009/0078 EN-UNA-2009/0078 EN-UNA-2009/0078 EN-UNA-2009/0078 EN-UNA-2009/0075 EN-UNA-2009/0078 2000/0103	Orbit = 34997	Orbit = 34997	
EN-UNA-2008/0186	EN LINIA 2009/0195	11 Nov 2008 01:41:48.000	11 Nov 2008 03:58:47.000
EN-UNA-2008/0186 EN-UNA-2008/0190 Orbit = 35125 EN-UNA-2008/0190 Orbit = 35125 EN-UNA-2008/0205 EN-UNA-2008/0205 EN-UNA-2008/0205 Orbit = 35344 EN-UNA-2008/0213 EN-UNA-2009/0001 EN-UNA-2009/0001 EN-UNA-2009/0005 EN-UNA-2009/0007 EN-UNA-2009/0006 EN-UNA-2009/0065 EN-UNA-2009/0065 EN-UNA-2009/0066 EN-UNA-2009/0066 EN-UNA-2009/0078 EN-UNA-2009/0079 EN-	EN-UNA-2008/0183	Orbit = 35027	Orbit = 35028
EN-UNA-2008/0186		17 Nov 2008 21:59:55.000	18 Nov 2008 07:08:39.000
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	EN-UNA-2009/0098	14 Jun 2009 13:21:40.000	16 Jun 2009 16:08:53.000

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EN-UNA-2009/0114	20 Jul 2009 22:07:00.000	21 Jul 2009 07:01:40.000
EN-UNA-2009/0114	Orbit = 38632	Orbit = 38637

APPENDIX B : DATA DISCLAIMER LIST

Below are given, in date order, ASAR data disclaimer details. Disclaimers from the current reporting period are boxed. The disclaimer list is also available at http://earth.esa.int/pcs/envisat/asar/disclaimer/.

• From 10-Jul-2003 20:20 UTC to 11-Jul-2003 16:57 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 03-Aug-2003 21:15 UTC to 04-Aug-2003 12:43 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

From 19-Oct-2003 12:50:59 UTC to 20-Oct-2003 15.37.47.000 UTC

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 28-Oct-2003 06:26:28 UTC to 28-Oct-2003 13:10:01 UTC

Problem description:

Data not acquired in Yaw Steering Mode but in Fine Pointing Mode (FPM).Large Doppler frequency values are expected.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 4-Dec-2003 21:5:23 UTC to 4-Dec-2003 22:03:31UTC

Problem description:

Data not acquired in Yaw Steering Mode but in Fine Pointing Mode (FPM).Large Doppler frequency values are expected.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

From 11-Dec-2003 01:45:00 UTC to 11-Dec-2003 15:11:15 UTC

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 04-Jan-2004 09:15:00 UTC to 05-Jan-2003 15:25:20 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products

All ASAR products, including level 0 products, acquired during this period.

• From 13-Feb-2004 13:38 UTC to 14-Feb-2004 11:06:01 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 20-Feb-2004 18:00 UTC to 23-Feb-2004 13:08 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 18-Nov-2003 until 22-May-2004 00:00:00 UTC

Problem description:

Degraded ASAR GM products location accuracy.

Affected products:

All ASAR GM level 1 products (ASA_GM1_1P), acquired during this period.

Correction:

The location error in ASA_GM1_1P products acquired before 22_{nd} of May 2004 can be corrected by the user multiplying the line numbers in the Geolocation Grid ADS by 0.97169.

• From 21-Jun-2004 07:56:33 UTC to 22-Jun-2004 11:50:18 UTC

Problem description:

Degraded Attitude Stability. Instrument operating in Yaw Steering Mode (YSM) rather than in Stellar YSM. A positive Doppler bias of about 300 Hz is observed on data acquired during this period.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 04-Aug-2004 02:00 UTC to 04-Aug-2004 09:26:00 UTC.

Problem description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products, acquired during this period.

• From 16-Sep-2004 03:36:39UTC to 16-Sep-2004 08:53:15 UTC

Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

• From 12-Sep-2004 03:46:00 UTC to 12-Sep-2004 12:40:00 UTC

Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

• From 12-Aug-2004 13:53:54 UTC to 12-Aug-2004 19:09:50 UTC Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

From 14-AUG-2004 07:36:00 UTC to 17-AUG-2004 10:57:45 UTC

Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

From 02-NOV-2004 14:17:25 UTC to 03-NOV-2004 10:04:58 UTC

Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

• From 05-DEC-2004 10:03:48 UTC to 05-DEC-2004 15:35:45 UTC

Problem Description:

Degraded radiometric quality due to an instrument anomaly.

Affected products:

All ASAR products, including level 0 products

• From 13-APR-2002 to 11-FEB-2003

Problem Description:

The absolute calibration factor annotated in all ASAR level 1 products acquired between 13-APR-2002 and 11-FEB-2003 and processed between 01-AUG-2003 and 29-NOV-2004 is not correct. These products with incorrect calibration factor annotated in the Main Processing Parameters ADS can be identified by checking the auxiliary files used for processing. The name of the auxiliary files used in the processing is provided in the product SPH (use "view as HTML" in EnviView to visualise them). Products with incorrect calibration factor have been processed with the following external calibration auxiliary file:

ASA_XCA_AXVIEC20030801_134802_20020413_000000_20030211_000000

The correct calibration factors for these products are provided in the following auxiliary file:

ASA_XCA_AXVIEC20041129_173057_20020413_000000_20030211_000000

available on line at: http://earth.esa.int/services/auxiliary_data/asar/

Affected products:

All ASAR level1 products.

From 09-JAN-2005 03:13:21 to 09-JAN-2005 06:45:03 UTC

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 25-JAN-2005 to 02-FEB-2005

Problem Description:

Due to a problem on the ESRIN Low Bit Rate acquistion chain, the ASAR Wave and GM data could be of bad quality.

Affected products:

All ASAR Low bit rate products (Wave and GM), including level 0 products acquired at PDHS-E (ESRIN)

• From 22-MAR-2005 00:54:10 to 22-MAR-2005 00:54:10

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 12-MAY-2005 07:26:02 to 12-MAY-2005 10:50:00

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 18-MAY-2005 10:58:16 to 18-MAY-2005 13:58:00

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 01-JUN-2005 13:29:28 to 01-JUN-2005 16:45:00

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 05-JUL-2005 14:16:58 to 05-JUL-2005 17:27:11

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 24-JUL-2005 02:22:42 to 24-JUL-2005 07:31:40

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 03-AUG-2005 17:09:54 to 03-AUG-2005 22:08:56

<u>Problem Description:</u>

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 24-AUG-2005 01:09:08 to 03-AUG-2005 07:55:55

Problem Description:

Due to an on-board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 product is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 14-SEP-2005 08:00:40 to 16-SEP-2005 19:57:33

Problem Description:

Quality of ASAR Level-1 and Level-2 products is slightly degraded due to a temporal modification of the antenna radiation patterns. Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products are clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 16-SEP-2005 19:57:33 to 14-OCT-2005 00:00:00 Problem Description:

Quality of ASAR Level-1 and Level-2 products acquired between 16-09-2005 19:57:33 UTC and 14-10-2005 00:00:00 is slightly degraded for NRT products while it is nominal products generated on-request after 14-10-2005 00:00:00. Quality of products acquired after 14-10-2005 00:00:00 is nominal.

Affected products:

All ASAR level 1 and level 2 products

From 21-OCT-2005 07:34:39 to 21-OCT-2005 09:34:58

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 01-MAR-2002 00:00:00 to 10-FEB-2006 00:00:00

Warning: Deagraded geolocation accuracy

Problem Description:

There is a shift in the zero-Doppler azimuth times annotated in the AP Level-1 products (this applies to the product zero-Doppler times and does not apply to other external times, such as the state vectors azimuth times). Full details on the impact on the product geolocation accuracy and the strategy for correcting products 'a-posteriory' can be found on http://envisat.esa.int/dataproducts/availability/disclaimers/PQD_0082ASA_all.pdf.

Affected products:

All ASAR Alternating Polarisation (AP) Level-1 products processed with PF-ASAR version lower than 4.02. The PF-ASAR 4.02 is available at the following centres for which the installation date is reported: PDHSK (02-02-2006), PDHSE (02-02-2006), I-PAC (02-02-2006), LRAC (02-02-2006), UK-PAC (07-02-2006), D-PAC (09-02-2006).

• From 20-NOV-2005 20:15:13 to 20-NOV-2005 23:28:50

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 11-DEC-2005 10:53:54 to 11-DEC-2005 14:14:52

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 25-JAN-2006 17:10:27 to 25-JAN-2006 20:31:34

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 22-FEB-2006 00:43:46 to 22-FEB-2006 11:21:32

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 22-FEB-2006 10:12:25 to 22-FEB-2006 15:14:13

Warning: Degraded ASAR Global Monitoring Mode radiometric quality

Problem Description:

Radiometric quality of ASAR Global Monitoring Mode (GMM) data acquired on 22 February from 10:12:25 UTC until 15:14:13 UTC, corresponding to orbits 20818, 20819 and 20820 may be degraded since a test with the ASAR instrument will be performed during this time. Data acquired during this time interval in modes other than GMM is NOT affected. GMM data acquired immediately before and after this period is NOT affected.

Affected products:

ASAR Global Monitoring Mode (GMM) products

• From 28-FEB-2006 02:37:34 to 28-FEB-2006 07:49:38

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 20-MAR-2006 02:12:44 to 20-MAR-2006 07:20:50

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation

of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 12-APR-2006 19:53:48 to 12-APR-2006 20:19:55

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 24-APR-2006 03:47:51 to 24-APR-2006 07:17:00

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 25-APR-2006 13:22:31 to 25-APR-2006 15:02:48

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 30-APR-2006 10:53:00 to 30-APR-2006 14:04:03

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 11-MAY-2006 03:13:20 to 11-MAY-2006 06:41:30

Warning: ASAR antenna gain problem

<u>Problem Description:</u>

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 22-MAY-2006 07:32:43 to 22-MAY-2006 11:23:16

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 25-MAY-2006 02:33:46 to 25-MAY-2006 7:45:47

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 22-JUN-2006 16:00:00 to 22-JUN-2006 17:49:40

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 01-JULY-2006 03:00:00 to 01-JULY-2006 08:16:10

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 26-JULY-2006 13:15:00 to 01-JULY-2006 13:41:43

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 04-AUG-2006 07:15:00 to 04-AUG-2006 10:30:10

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 08-AUG-2006 01:38:00 to 08-AUG-2006 08:28:56

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 17-AUG-2006 03:26:46 to 21-AUG-2006 14:56:00

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 24-AUG-2006 12:56:47 to 24-AUG-2006 16:47:19

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 03-SEP-2006 01:19:40 to 03-SEP-2006 06:28:16

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 03-SEP-2006 16:05:12 to 03-SEP-2006 18:07:40

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 06-OCT-2006 07:35:40to 06-OCT-2006 11:15:30

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 17-OCT-2006 16:23:20 to 17-OCT-2006 20:00:54

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 24-OCT-2006 04:43:30 to 24-OCT-2006 09:42:25

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation

of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 24-DEC-2006 07:51:56 to 24-DEC-2006 11:14:05

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 03-JAN-2007 07:37:20 to 03-JAN-2006 09:14:26

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 04-FEB-2007 16:51:13 to 23-FEB-2007 00:00:00

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. NRT products processed by the following auxiliary data: ASA_XCA_AXXIEC20061221_143253_20050916_195733_20071231_000000,

ASA_CON_AXXIEC20061107_090002_20050916_195733_20071231_000000,

ASA_CON_AXVIEC20070215_184018_20070204_165113_20071231_000000

has significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM). The products are being reprocessed.

Affected products:

All ASAR products, including level 0 products

• From 03-MAR-2007 08:23:44 to 03-MAR-2007 12:05:49

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 15-MAR-2007 02:09:10 to 15-MAR-2007 07:05:53

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 17-MAR-2007 07:43:40 to 17-MAR-2007 11:00:38

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

From 15-APR-2007 07:32:22 to 15-APR-2007 09:33:26

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

During June 2007 one new disclaimer was issued:

• From 27-JUN-2007 10:58:54 to 27-JUN-2007 12:43:10

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 22-JUL-2007 20:41:47 to 22-JUL-2007 21:36:04

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation

of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 04-DEC-2007 18:06:43 to 06-DEC-2007 00:17:30

Warning: Degraded geolocation accuracy

Problem Description:

ASAR data acquired between orbits 30127 and 30145 show a variable location error in azimuth, ranging up to 12 km. The problem is fully corrected for ASAR data acquired since orbit 30146. Affected products:

All ASAR products, including level 0 products

• From 01-NOV-2007 00:00:00 to 28-FEB-2007 00:00:00

Warning: Degraded ASAR GM product quality

Problem Description:

Due to archiving problem, the overall quality of ASAR GM products acquired between November 2006 and February 2007, covering the South America and Indonesia areas might be degraded. Processing artifacts as azimuth stripe and subswaths discontinuity are visible. A reprocessing activity is currently on-going. ASAR GM users are invited to check the available quick-looks by Eoli before ordering the products.

Affected products:

All ASAR products, including level 0 products

• From 25-JUL-2008 07:00:00 18:06:43 to 25-JUL-2008 11:40:00

Warning: ASAR antenna gain problem

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products

• From 31-DEC-2008 22:16:43 to 01 JAN-2009 06:39:43

Warning: Degraded geolocation accuracy.

Problem Description:

ASAR data acquired between orbits 35755 and 35759 show a variable location error in azimuth, ranging up to 6.18 km. The problem is fully corrected for ASAR data acquired since orbit 35760. Affected products:

All ASAR products, including level 0 products.

• From 15-FEB-2009 22:16:43 to16 FEB-2009 13:09:00

Warning: Envisat Yaw Steering.

Problem Description:

Envisat switched automatically in Yaw Steering Mode (YSM) from 15/02/2009 03:38:34 to 16/02/2009 13:09:00, due to an anomaly which affected Star Tracker 3.

The anomaly was caused by an unexpected bright object, different from the programmed star the star tracker was pointing to. The event was interpreted by the onboard software as two simultaneous target objects in the field of view and generated a suspension command, which in turn triggered the service module to switch to Yaw Steering Mode.

The Yaw Steering Mode implies a slight degradation of the general attitude stability, which does not substantially affect instrument data quality. Products acquired during YSM were therefore archived and distributed nominally.

Affected products:

All ASAR products, including level 0 products.

• From 05-MAR-2009 19:18:01 to 06-MAR-2009 15:10:02

Warning: Envisat Yaw Steering.

Problem Description:

Envisat switched automatically in Yaw Steering Mode (YSM) from 05-MAR-2009 19:18:01 to 06-MAR-2009 15:10:02, due to an anomaly which affected Star Tracker 3.

The anomaly was caused by an unexpected bright object, different from the programmed star the star tracker was pointing to. The event was interpreted by the onboard software as two simultaneous target objects in the field of view and generated a suspension command, which in turn triggered the service module to switch to Yaw Steering Mode.

The Yaw Steering Mode implies a slight degradation of the general attitude stability, which does not substantially affect instrument data quality. Products acquired during YSM were therefore archived and distributed nominally.

Affected products:

All ASAR products, including level 0 products.

• From 12-APR-2009 16:10:50 to 12-APR-2009 19:20:00

Warning: ASAR antenna gain problem.

Problem Description:

Due to an on board anomaly, data acquired during this period is affected by a change of the antenna radiation pattern. The overall quality of these data is degraded. Radiometric normalisation of level 1 products is clearly corrupted, with significant residual antenna pattern modulation and differences from sub-swath to sub-swath in the ScanSAR cases (WS and GM).

Affected products:

All ASAR products, including level 0 products.