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TITLE: ENVISAT-1 PRODUCTS SPECIFICATIONS

VOLUME 6: LEVEL 0 PRODUCTS SPECIFICATION

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SUMMARY:	This document specifies the EN	VISAT-1 products.	
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Proposition:



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CHANGE RECORD

REVISION	DATE	CHANGE S	TATUS	ORIGIN
А	12/01/96	Issue 1		
В	16/02/96		SCR #16, CR #16 Issue 1, Revision B	
		Reason for C	Change:	
		PO-TN-ESA RIDs of Feb. Level 0 struc	-GS-0381 and to address 2/96 pertaining to the eture.	
		RIDs Addres	ssed:	
		ESA/0001: ESA/0002:	FEP header defined PF-Host time stamp clarified	
		ESA/0004: ESA/0006:	Processing PCD added AF PCD ADS and DSD added	
		ESA/0007: ESA/0008:	page A-3 updated page B-3 updated	
		ESA/0009: ESA/0011:	Table 8.1.1 modified TBD changed to Range/ Doppler	
		ESA/0013: ESA/0014:	FEP header defined Table 8.4.7.4-2 corrected	
		CSF/1:	filename in MPH corrected	
	A	A 12/01/96	A12/01/96Issue 1B16/02/96SCR #16, CI Issue 1, Revi Reason for CUpdated to r PO-TN-ESA RIDs of Feb. Level 0 struct MPH, SPH, J modified.Table added Level 0 prodRIDs Address ESA/0001: ESA/0002:ESA/0004: ESA/0006:ESA/0007: ESA/0009: ESA/0011:ESA/00013: ESA/0014:	A12/01/96Issue 1B16/02/96SCR #16, CR #16 Issue 1, Revision B Reason for Change: Updated to reflect information in PO-TN-ESA-GS-0381 and to address RIDs of Feb. 2/96 pertaining to the Level 0 structure. MPH, SPH, DSD, and DSR structures modified. Table added showing generalized Level 0 product structure. RIDs Addressed: ESA/0001: FEP header defined ESA/0002: PF-Host time stamp





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ISSUE	REVISION	DATE	CHANGE	STATUS	ORIGIN
			CSF/3:	MPH PCD information updated	
			CSF/5:	DSD added to Level 0 SPH	
			CSF/6:	Section on AATSR updated and re-issued	
			CSF/8:	AATSR_O Summary Sheet updated	
1	С	04/04/96	SCR #38, 0 Issue 1, Re		Products Review Meeting #1
			Reason for	Change:	
			to reflect c Products R March 5-8 "AI MDA	ections 1-6, 17 and Annex A hanges discussed at the eview Meeting #1, , 1996, as per action item 6 April 96" from SA-00416, Pg. 35.	
2	A	20/05/96	SCR #71, Issue 2	CR #71	
			Separate v	olume created.	
			New produ	ict list added.	
			Updated pr	roduct names.	
				bit State Vector and Time n files descriptions to 5.	
			FEP heade	r updated.	
2	В	02/09/96	SCR #102, Issue 2, Re		Products Review Meeting #2
			Reason for	Change:	
				'H updated. tations updated.	





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ISSUE	REVISION	DATE	CHANGE STATUS	ORIGIN
3	А	10/02/97	SCR #133, CR #133 Issue 3	ESA RIDs
			Reason for Change:	
			Updated due to ESA RIDs received 06/01/97 (fax DPD/JMJ/ENV, 0021/ 97).	
3	В	19/06/97	SCR #169, CR #169 Issue 3, Revision B	Products Review Meeting #3
			Reason for Change:	
			Minor clarifications.	
3	C	16/10/98	SCR #218, CR #218 Issue 3, Revision C	
			Reason for Change:	
			Updated for the following SPRs: SPR-42000-104-CSF	



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REGISTER OF CHANGES

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ENVISAT PAYLOAD DATA SEGMENT

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ENVISAT PAYLOAD DATA SEGMENT

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6 LEVEL 0 PRODUCTS SPECIFICATION

The Level 0 product for all instruments, plus Housekeeping and Telemetry data, share a common format. The details of this format is defined in Section 6.1. The auxiliary data files used to produce the Level 0 product are defined in Section 6.2.

The Level 0 product contains Annotated Instrument Source Packets (AISPs). These are Instrument Source Packets as received from the instrument, with a small header attached by the Front-End Processor (FEP). In addition to the AISP, each MDSR of the Level 0 product contains a time stamp in MJD 2000 format which gives the onboard sensing time of that ISP which it contains (one MDSR per AISP).

The MDSRs within the Level 0 product are:

- demultiplexed per instrument (and per mode for some instruments);
- in ascending chronological order;
- without overlap between the real time and on-board recorder;
- without obsolete data from the on-board recorded data;
- stored on a computer-compatible format, media and interface.

The Level 0 product may be Unconsolidated or Consolidated. The Unconsolidated product is the Level 0 product which is produced in NRT in the PDHS according to the acquired downlink instrument data segment.

The Level 0 Consolidated product has the following characteristics:

• produced off line, using highest quality auxiliary data;



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- time ordered, with no overlap or data gap (except when the instrument is not operated);
- respecting specific instrument operation sequence boundary for continuous operation instruments, or segments for instruments operated on a regional basis.

The complete list of products to which the information in this volume applies is given in Table 6-1. Descriptions of individual Level 0 products are found in the volumes related to the instruments to which they pertain.

Instrument	Product ID	Description
AATSR	ATS_NL0P	AATSR Level 0
ASAR	ASA_WV0P	ASAR Level 0 Wave Mode
	ASA_GM0P	ASAR Level 0 Global Monitoring Mode
	ASA_EC0P	ASAR Level 0 External Characterization
	ASA_MS0P	ASAR Level 0 Module Stepping Mode
	ASA_IM0P	ASAR Level 0 Image Mode
	ASA_WS0P	ASAR Level 0 Wide Swath
	ASA_APH_0P	ASAR Level 0 Alternating Polarization (Xpolar H)
	ASA_APV_0P	ASAR Level 0 Alternating Polarization (Xpolar V)
	ASA_APC_0P	ASAR Level 0 Alternating Polarization (Copolar)
DORIS	DOR_NAV_0P	DORIS Navigator Level 0
	DOR_DOP_0P	DORIS Doppler Level 0
GOMOS	GOM_NL0P	GOMOS Nominal Mode Level 0
	GOM_MM0P	GOMOS Monitoring Modes (either Linearity, Uniform, or Spatial Spread data)
MERIS	MER_RR0P	MERIS Level 0 Reduced Resolution
	MER_RV0P	MERIS Level 0 Reduced Field of View
	MER_CA0P	MERIS Level 0 Calibration (all calibration modes)
	MER_FR0P	MERIS Level 0 Full Resolution

Table 6-1 Level 0 Products



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Instrument	Product ID	Description
MIPAS	MIP_RW0P	MIPAS Raw Data and SPE Self Test Mode Data
	MIP_NL0P	MIPAS Nominal Level 0
	MIP_LS0P	MIPAS Line of Sight Level 0
MWR	MWR_NL_0P	MWR Level 0
RA2	RA2_ME0P	RA2 Measurement Mode Level 0
	RA2_CAL_0P	RA2 Calibration and BITE Mode Level 0
SCIAMACHY	SCI_NL0P	SCIAMACHY Level 0
Extracted Calibration	Same as Level 0 IDs but with the P changed to a C	Extracted Calibration products are Level 0 child products (i.e. a selected portion of the Level 0 product is extracted to form a child product)
House Keeping Telemetry	TLM_HK0P	Satellite platform monitoring data.

 Table 6-1
 Level 0 Products

6.1 **LEVEL 0 FORMAT**

A summary of the general structure of the Level 0 product is shown in Table 6.1-1.

 Table 6.1-1
 Level 0 Product Structure

Main Product Header (see Table 5.2.2-1)				
Specific Product Header (see Table 6.1.1-1)				
Data Set Descriptor for MDS (see Table 5.4.2-1)				
Data Set Descriptor for Level 0 Processor Configuration file (see Table 5.4.2-1)				
Data Set Descriptor for Orbit State Vectors file (see Table 5.4.2-1)				
Data Set Descriptor - Spare (see Section 5.4.3.4)				
Measurement Data Set				
MDSR #1 (see Table 6.1.2-1)				
•••••				

Last MDSR (see Table 6.1.2-1)

As shown, each Level 0 product consists of an MPH, an SPH, and an MDS.



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Level 0 SPH Format 6.1.1

A standard SPH format has been defined for all ENVISAT Level 0 data. The format follows the same ASCII format conventions of the MPH. The Level 0 SPH is described in Table 6.1.1-1.

Field #	Description	units	Byte length	Data Type	Dim.
1	SPH_DESCRIPTOR=	keyword	15	uc	15
1	quotation mark (")	-	1	uc	1
	SPH Descriptor ASCII string describing the product. Format: <product id="">ØSPECIFICØHEADER where the product ID contains 10 characters as defined in Volume 4. If needed, blanks are located to the right of the last character in the text string. e.g. MER_RR_0PØSPECIFICØHEADERØØ</product>	-	28	uc	28
	quotation mark (")	-	1	uc	1
	newline character	terminator	1	uc	1
	Product Location Information				
	START_LAT=	keyword	10	uc	10
2	WGS84 latitude of first satellite nadir point at the Sensing Start time of the MPH (positive north)	10 ⁻⁶ degrees	11	Al	1
	<10-6degN>	units	10	uc	10
	newline character	terminator	1	uc	1
2	START_LONG=	keyword	11	uc	11
3	WGS84 longitude of first satellite nadir point at the Sensing Start time of the MPH (positive East, 0 = Greenwich)	10 ⁻⁶ degrees	11	Al	1
	<10-6degE>	units	10	uc	10
	newline character	terminator	1	uc	1

Table 6.1.1-1 Level 0 SPH



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Table 6.1.1-1Level 0 SPH

Field #	Description	units	Byte length	Data Type	Dim.
	STOP_LAT=	keyword	9	uc	9
4	WGS84 latitude of first satellite nadir point at the Sensing Stop time of the MPH (positive north)	10 ⁻⁶ degrees	11	Al	1
	<10-6degN>	units	10	uc	10
	newline character	terminator	1	uc	1
-	STOP_LONG=	keyword	10	uc	10
5	WGS84 longitude of first satellite nadir point at the Sensing Stop time of the MPH (positive East, $0 = $ Greenwich)	10 ⁻⁶ degrees	11	Al	1
	<10-6degE>	units	10	uc	10
	newline character	terminator	1	uc	1
	SAT_TRACK=	keyword	10	uc	10
6	Sub-satellite track heading at the Sensing Start time in the MPH.	degrees	15	Afl	1
	<deg></deg>	units	5	uc	5
	newline character	terminator	1	uc	1
7	Spare (blank characters (Ø))	-	50	uc	50
	newline character	terminator	1	uc	1
	Product Confidence Data Information				
0	ISP_ERRORS_SIGNIFICANT=	keyword	23	uc	23
8	1 or 0. 1 if number of ISPs with CRC errors exceeds threshold		1	uc	1
	newline character	terminator	1	uc	1
0	MISSING_ISPS_SIGNIFICANT=	keyword	25	uc	25
9	1 or 0. 1 if number of missing ISPs exceeds threshold		1	uc	1
	newline character	terminator	1	uc	1
10	ISP_DISCARDED_SIGNIFICANT=	keyword	26	uc	26
10	1 or 0. 1 if number of ISPs discarded by the PF-HS exceeds threshold		1	uc	1
	newline character	terminator	1	uc	1



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Table 6.1.1-1Level 0 SPH

Field #	Description	units	Byte length	Data Type	Dim.
11	RS_SIGNIFICANT=	keyword	15	uc	15
11	1 or 0. 1 if number of ISPs with Reed Solomon corrections exceeds threshold		1	uc	1
	newline character	terminator	1	uc	1
12	Spare (blank characters (Ø))	-	50	uc	50
	newline character	terminator	1	uc	1
	Other Product Quality Information				
12	NUM_ERROR_ISPS=	keyword	15	uc	15
13	Number of ISPs containing CRC errors.	ISPs	11	Al	1
	newline character	terminator	1	uc	1
14	ERROR_ISPS_THRESH=	keyword	18	uc	18
14	Threshold at which number of ISPs containing CRC errors is considered significant.	percent	15	Afl	1
	<%>	units	3	uc	3
	newline character	terminator	1	uc	1
1.5	NUM_MISSING_ISPS=	keyword	17	uc	17
15	Number of missing ISPs.	ISPs	11	Al	1
	newline character	terminator	1	uc	1
16	MISSING_ISPS_THRESH=	keyword	20	uc	20
16	Threshold at which number of ISPs missing is considered significant	percent	15	Afl	1
	<%)>	units	3	uc	3
	newline character	terminator	1	uc	1
17	NUM_DISCARDED_ISPS=	keyword	19	uc	19
17	Number of ISPs discarded by PF-HS.	ISPs	11	Al	1
	newline character	terminator	1	uc	1



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Table 6.1.1-1Level 0 SPH

Field #	Description	units	Byte length	Data Type	Dim.
10	DISCARDED_ISPS_THRESH=	keyword	22	uc	22
18	Threshold at which number of ISPs discarded by PF-HS is considered significant	percent	15	Afl	1
	<%)>	units	3	uc	3
	newline character	terminator	1	uc	1
10	NUM_RS_ISPS=	keyword	12	uc	12
19	Number of ISPs with Reed Solomon corrections	ISPs	11	Al	1
	newline character	terminator	1	uc	1
	RS_THRESH=	keyword	10	uc	10
20	Threshold at which number of ISPs with Reed Solomon corrections is considered significant	percent	15	Afl	1
	<%)>	units	3	uc	3
	newline character	terminator	1	uc	1
21	Spare (blank characters (Ø))	-	100	uc	100
	newline character	terminator	1	uc	1
	ASAR Specific Information				
22	TX_RX_POLAR=	keyword	12	uc	12
22	quotation mark (")	-	1	uc	1
	Polarization (used for ASAR only) HV/HV, H/HVØ, V/VHØ, H/HØØ, H/VØØ, or V/VØØ, or V/HØØ The letter(s) to the left of the '/' indicates the transmitter polarization. The letter(s) to the right of the '/' indicates the receiver polarization. ØØØØØ for non-ASAR products.	ascii	5	uc	5
	quotation mark (")	-	1	uc	1
	newline character	terminator	1	uc	1



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Table 6.1.1-1 Level 0 SPH

Field #	Description	units	Byte length	Data Type	Dim.
22	SWATH=	keyword	6	uc	6
23	quotation mark (")	-	1	uc	1
	Swath Number (used for ASAR only) codes: IS1, IS2, IS3, IS4, IS5, IS6, IS7, WSØ WS is used for WS mode and GM mode. For ASA_EC_OP and ASA_MS_OP, the field is set to EC0 and MC0, respectively. ØØØ for non-ASAR products.	ascii	3	uc	3
	quotation mark (")	-	1	uc	1
	newline character	terminator	1	uc	1
24	Spare (blank characters (Ø))	-	41	uc	41
	newline character	terminator	1	uc	1
	Data Set Descriptors				
25	DSD (M) for MDS Contents as defined in Section 6.1.1.1.	-	280	dsd	1
26	DSD (R) pointing to Configuration file Contents as defined in Section 6.1.1.1	-	280	dsd	1
27	DSD (R) pointing to the Orbit State Vector file used	-	280	dsd	1
28	DSD - Spare (279 blank space characters followed by 1 newline character)	-	280	dsd_sp	1
Total	·	-	1956		

6.1.1.1 Level 0 DSD Format

There will be 4 DSDs in the Level 0 SPH. The first DSD describes the MDS (the source packets) the second is a reference DSD which contains the name of the Level 0 Processor Configuration File used to create the product, and the third is a reference DSD which contains the name of the Orbit State Vector file used to create the product. Finally, the fourth is a spare DSD, reserved to allow future additions to the product if needed.

A general DSD structure has been defined as in Table 5.4.2-1. The fields of the DSD are filled as follows:

DSD for the MDS:

DS_NAME=



one of:

- 1. "ASAR_SOURCE_PACKETSØØØØØØØØØ
- 2. "AATSR_SOURCE_PACKETSØØØØØØØØ"
- 3. "DORIS_SOURCE_PACKETSØØØØØØØØ"
- 4. "GOMOS_SOURCE_PACKETSØØØØØØØØ"
- 5. "MERIS_SOURCE_PACKETSØØØØØØØ"
- 6. "MIPAS_SOURCE_PACKETSØØØØØØØ"
- 7. "MWR_SOURCE_PACKETSØØØØØØØØØ"
- 8. "RA2_SOURCE_PACKETSØØØØØØØØØ"
- 9. "SCIAMACHY_SOURCE_PACKETSØØØØØ"
- 10. "HOUSEKEEPING_PACKETSØØØØØØØØ"

DS_TYPE =M

DS_OFFSET= (MPH length + SPH length including DSDs)
bytes>

DS_SIZE= (data dependent)<bytes>

NUM_DSR=(data dependent)

DSR_SIZE=(data dependent, set to -1 if size is variable)<bytes>

DSD Referencing the Level 0 Config. file, or the Orbit State Vector file:

DS_NAME="LEVEL_0_CONFIGURATION_FILEØØ" or "ORBIT_STATE_VECTOR_FILEØØØØØ"

DS_TYPE=R

FILENAME="(filename)"¹

NUM_DSR=+0000000000

^{1.} Refer to Volume 16 for Auxiliary Data file naming details. Note the filename is left justified within the quotation marks, with any blank spaces added before the closing quote.



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DSR_SIZE=+0000000000ebytes>

DSD - Spare

This DSD is simply 279 ASCII blank space characters followed by 1 ASCII newline character

6.1.2 Level 0 MDS Format

The exact contents of the Level 0 MDSRs is instrument and mode specific, however it will follow a common structure as shown in Table 6.1.2-1. The Level 0 Measurement Data Set (MDS) will consist of a series of annotated Instrument Source Packets (AISPs). The annotation consists of the header added to the ISP by the Front End Processor (FEP) plus the sensing time added by the Level 0 processor (as converted from the Satellite Binary Time counter embedded in each ISP). This stamp allows for later extraction of specific regions of the MDS.

Annotations		Instrument Source Packet				
Level 0 Processor Annotations			Packet Header			t Data eld
ISP Sensing Time (MJD)	FEP Quality Data and reception time stamp ^a	Packet Identification	Packet Sequence Control	Packet Length	Data Field Header	Source Data
12 bytes	20 bytes	2 bytes	2 bytes	2 bytes		UMENT CIFIC ^b

 Table 6.1.2-1
 Level 0 MDSR Structure

a. Ground Segment Reference Time

b. Note that the Data Field Header for all ENVISAT instruments has been standardized such that the first 3 fields are: Data Field Header Length (16 bits), Instrument Mode Definition (16 bits), ICU OBT code (32 bits except for ASAR, RA-2, and GOMOS which are 48 bit codes).

Further description of specific Level 0 products is found in the volumes pertaining to the instrument with which the product is associated. Detailed description of the contents of Instrument Source Packets for all instruments can be found in Document A-1.



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FEP Annotations 6.1.2.1

The FEP annotations describe the quality of the ISP reconstruction process. The FEP Header will follow the structure of Table 6.1.2.1-1:

Field #	Description	Units	Byte length	Data Type
1	MJD 2000 Time Stamp Ground Station Reference Time of reception. Refer to ANNEX A for format information.	MJD 2000	12	s1 2*ul
2	Length of ISP = (length of source packet excluding 6 byte header)- 1^a	bytes	2	us
3	Number of VCDUs in the ISP which contain a CRC error As identified by a failed Cyclic Redundancy Code check.	VCDU	2	us
4	Number of VCDUs in the ISP for which a Reed-Solomon error correction was performed	VCDU	2	us
5	Spare (set to zero)	-	2	2*uc
ТОТА	L		20	

Table 6.1.2.1-1 FEP Header

a. This field uses the same definition as the Packet Length field of the Packet Header.

6.2 LEVEL 0 AUXILIARY DATA FILES

The general format of auxiliary data used to create products will follow the structure described in Volume 16. For Level 0, the only auxiliary data required is the orbit state vectors, the SBT to UTC time conversion parameters, and the Level 0 processor configuration file.

Level 0 Processor Configuration File 6.2.1

The Level 0 processor configuration file is an auxiliary data file used by the Level 0 processor. It contains software configuration information needed by the Level 0 processor. This includes the threshold values used to determine if PCD error messages are produced.

FILE_ID: AUX_CN0_AX

I

USE: Used during level 0 processing

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UPDATED: infrequently

SIZE: MPH (1247 bytes) + SPH (378 bytes) + GADS (176 bytes)

6.2.1.1 Format

1

The MPH and SPH of these files will follow the standard MPH, SPH structure of all ENVISAT auxiliary data as described in Volume 16. The file will consist of a single GADS as shown below:

Table 6.2.1.1-1 Format of (GADS for Level 0 Processor	Configuration File
-----------------------------	----------------------------	--------------------

Description	units	Byte length	Data Type
Time of creation	MJD 2000	12	s1 2*ul
Threshold for percentage of ISPs with CRC errors that causes PCD flag to be set.	%	4	fl
Threshold for percentage of missing ISPs that causes PCD flag to be set.	%	4	fl
Threshold for percentage of ISPs discarded that causes PCD flag to be set.	%	4	fl
Threshold for percentage of ISP with RS corrections which causes PCD flag to be set.	%	4	fl
Spare (set to zero)	-	20	20*uc
Processor Configuration Information (set to zero)	-	128	128*uc
TOTAL		176	

6.2.2 Orbit State Vectors Files

The Orbit State Vectors files as received from the FOS are described in Volume 16, Section 16.3.1. Orbit State Vectors files as received from DORIS are described in Volume 9.

6.2.3 UTC/SBT Time Conversion File

The UTC/SBT Time Conversion file is described in Volume 16.



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