





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 1/30

SALP

F-PAC USER SERVICES

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		10/12/2012
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For	DS2	DS4	DS5	DH2	DPP	DJ1	TP	TP2	SMM	SALP	
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Models		·									

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Issue : 1.9

Date : 10 February 2012

Page : 2/30

Title:F-PAC User Services

SUMMERY

Confidentiality : no Type :

Key words: F-Pac, User Service, dissemination, catalog, products, ftp, media

Summary: This document provide details on the F-PAC user services in term of dissemination.

Both electronic and media dissemination to the users are covered.

Issue **Modifications** Visa Date 0.0 16 April Initial release of the document N. Picot 2003 1.0 27 April Added information on serigraphy following F-Pac progress N. Picot meeting held in April 2006 (SALP-DM-M-382-CN) 2006 1.1 New ftp server implementation. All products (but SGDR one) N. Picot 15 January are maintain forever on the server (SALP-DM-M-429-CN) 2007 Specific needs S-IGDR product and Side B data shall be 1.2 17 January N. Picot disseminated to a dedicated and restricted account (SALP-2008 DM-M-496-CN) Stop of USO correction file distribution to users (SALP-DM-1.3 05 August N. Picot 2008 M-514-CN rev1) 1.4 29 January F Bailly-Poirot Add new directories for 2009 reprocessing- Updates of times of retention of the products 1.5 07 June (SALP-DM-M-7628-CN) F Bailly-Poirot 2010 New organization for GDR / SGDR dissemination since the 2010 reprocessing In case of the Network trouble, a backup solution for the dissemination of the products IGDR and IMAR products is the avisoftp.cnes.fr 1.6 22 october (SALP-DM-M-7828-CN) F Bailly-Poirot 2010 F PAC discontinue systematic DVD generation and dissemination. On line dissemination of RA2_WWV_2P products for entire mission from the upcoming reprocessing RA2 campaign





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 3/30

1.7	16 March	(SALP-DM-M-8046-CN)	F Bailly-Poirot
	2011	New directories are created:	
		Altimetry_dataset_V2.1 has been created to take in account cycles since cycle 93 and all cycles concerning by the reprocessing campaign (IFP V 6.04). gcm2cds/igdr and gcm2cds/gdr for GCM2CDS project	
1.8	26 October 2011	Format change for GCM2CDS GDR exports : a zip per day	F Bailly-Poirot
1.9	10	Due to the end of the reprocessing , new organization	F Bailly-Poirot
	February 2012	altimetry-dataset-V2_0 is deleted	
		All GDR/SGDR products are under directory : altimetry-dataset-V2_1	
		2) VOR_2009 is renamed : vor_gdr_c	
		 New directory vor_gdr_d for the new POE in gdr_d standard 	





Issue : 1.9

Date : 10 February 2012

Page : 4/30

Title:F-PAC User Services

ABBREVIATIONS

Sigle	Definition		
ADS	Auxiliary Data Suppliers		
CMA	Centre Multi-missions Altimétriques		
CMC	Control and Monitoring Centre		
CNES	Centre National d'Etudes Spatiales		
COTS	Commercial Of the Shelves		
CSF	Common Services Facility		
DF	Dissemination Facility		
DORIS	Détermination d'Orbite et Radiopositionnement Intégré par Satellite		
F-DAC	French Distribution and Archiving Centre		
F-PAC	French Processing and Archiving Centre		
FTP	File Transfert Protocol		
GDD	Gestionnaire de Données et de Diffusion		
INV	Inventory Facility		
LRAC	Low Rate Archiving Centre		
MWR	Microwave Radiometer		
PAC	Processing and Archiving Centre		
PDCC	Payload Data Control Centre		
PDHS	Payload Data Handling Station		
PDS	Payload Data Segment		
RA2	Radar Altimeter-2		
SD	Serveur de Données (Data Server)		
SIF	Simulateur d'Interfaces		
SSALTO	Segment Sol Multi-missions Altimétrie, Orbitographie et Localisation Précise		
USF	Users Services Facility		





Référence : SALP-NT-P-OP-14794-CN

: 1.9

Date

: 10 February 2012

Page

Issue

: 5/30

Reference		Document title
	DA1.	GSOIP (TO BE ISSUED)
SALP-SP-F-EA-10602-CN	DA2.	SPECIFICATIONS DE BESOIN DU F-PAC

TBC/TBD	Paragraph	Brief description	
		none	





: 1.9

Date

: 10 February 2012

Page : 6/30

1. PURPOSE	7
1.1 GENERAL DESCRIPTION	7
1.1.2 F-PAC	7
1.2 GENERAL ASSUMPTION	8
2. TECHNICAL SPECIFICATIONS OF THE ELECTRONIC DISSEMINATION	9
2.1 FTP SERVER : FUNCTIONAL DESCRIPTION	9
2.2 CONFIGURATION OF THE FILE SERVER OF THE F-PAC	
2.2.1 CONFIGURATION OF SYSTEM, USERS AND DIRECTORIES	15
2.3 OPERATIONAL PROCESSES TO UPDATE THE CONFIGURATION	15
3. TECHNICAL SPECIFICATIONS OF THE MEDIA DISSEMINATION	16
3.1 MEDIA DISSEMINATION: FUNCTIONAL DESCRIPTION	16
3.2 OPERATIONAL PROCESSES TO UPDATE THE CONFIGURATION	17
3.3 SERIGRAPHY	18
ANNEXE A: PRODUCT SHEET	21





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 7/30

Title:F-PAC User Services

1. PURPOSE

This document provides details on the user services set up in place in F-Pac center to insure data dissemination services.

Both electronic and media dissemination are covered by this document

1.1 GENERAL DESCRIPTION

1.1.1 ENVISAT GROUND SEGMENT OVERVIEW

The ENVISAT ground segment is divided in two parts:

- the Flying Operational Segment (FOS),
- the Payload Data Segment (PDS).

The PDS contains:

- the PDCC (Payload Data Control Centre) which controls all the other Centres/Stations of the PDS,
- the PDHS (Payload Data Handling Station) in charge of the real-time processing,
- the LRAC (Low Rate Archiving Centre) in charge of the off-line processing and archive,
- the ADS server (Auxiliary Data Suppliers) which stores the auxiliary data "near-line" at PDS format,
- the PACs (Processing and Archiving Centres) in charge of the off-line processing, archiving and of the users dissemination.

1.1.2 F-PAC

The F-PAC (French Processing and Archiving Centre) is in charge of the off-line processing of RA2, MWR and Doris instruments on board ENVISAT satellite. It insure archiving and user interfaces for the RA2, MWR and DORIS products and some auxiliary files (orbit files, DOR_CON and DOR_INS). In order to ease operations and user services, ESA has authorized CNES to develop a specific system for the data dissemination. This is therefore not covered by the Generic Elements even if part of the GE hardware configuration is used.





Issue : 1.9

Date : 10 February 2012

Page : 8/30

Title:F-PAC User Services

1.2 GENERAL ASSUMPTION

FPA-GEN-010

Any product must be described either in a Product Handbook or a Product Spec document. Those documents will be archived by the F-PAC User Desk.

FPA-GEN-020

Any reading tool generated either by ESA or by F-PAC will be archived by the F-PAC User Desk.

FPA-GEN-030

Any product characteristics must be specified in a brief Product sheet. Products sheets are available in Annex A and contain:

- File name information
- Applicable document (product spec or handbook)
- Product description
- Product type
- Delay
- Volume
- Dissemination (ftp server, media)
- Reading tools





Issue : 1.9

Date : 10 February 2012

Page : 9/30

Title:F-PAC User Services

2. TECHNICAL SPECIFICATIONS OF THE ELECTRONIC DISSEMINATION

2.1 FTP SERVER: FUNCTIONAL DESCRIPTION

The F-PAC File Server must allow the registered users to retrieve products generated by F-PAC both in near real-time (ie RA2_IGD, RA2_WWV, DOR_POR) or off-line (ie RA2_GDR, RA2_MWS, DOR_VOR, DOR_DOP). This server must also allow to disseminate data to a restricted group, known as 'dpqc' in this document (validation purposes, investigations, ...).

The requirements for this server are the following:

FPA-ARC-010

The FS_FPA is hosted by the diss-nas-fp.eo.esa.int host on HiSeen system.

FPA-ARC-015

In case of the network or system trouble on Hiseen system a backup solution for the dissemination of IGDR and IMAR products is in place.

Products are put on the avisoftp.cnes.fr (login anonymous) under following directories

/AVISO/pub/envisat/igdr /AVISO/pub/envisat/imar with a purge set to 1 month.

FPA-ARC-020

For the nominal data circulation, the FS_FPA directory structure is : doris

```
aux (no subdirectory)
      dop
              <aaaa><mm>
             latest data
      por
              <aaaa><mm>
             latest data
      vor gdr c
              <aaaa><mm>
             latest data
      vor_gdr_d
              <aaaa><mm>
             latest data
igdr
       <aaaa><mm>
      latest data
igdr ous corr (no subdirectory)
imar
```





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 10/30

Title:F-PAC User Services

<aaaa><mm>
lastest data

FPA-ARC-025

For the DORIS in gdr_c standard data circulation, the FS_FPA directory structure is :

doris

vor_version_gdr_c <aaaa><mm>

For the DORIS in gdr_d standard data circulation, the FS_FPA directory structure is :

doris

vor_version_gdr_d <aaaa><mm>

Quality of product was improved with new software version, so new directory was created. Structure is:

altimetry_dataset_V2.1
gdr/ cycle_<ccc>
sgdr/ cycle_<ccc>
gdr validation report

FPA-ARC-030

For the restricted data circulation, the FS_FPA directory structure is : dpqc

FPA-ARC-035

Data circulation for GCM2CDS project , the FS_FPA directory structure is :

gcm2cds/

igdr

gdr To optimize the space a zip file is done per day, named gdr_cycle_xxx_AAAAMMJJ.zip

GCM2CDS project must delete the files after retrieving





Service

Altimetrie

&
Localisation

PRECISE

Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 11/30

Title:F-PAC User Services

FPA-ARC-040

There is a directory for each product type to disseminate.

6 different product types are to be disseminated using this server:

-	RA2_IGD_2P	(directory/igdr)	systematic
-	RA2_WWV_2P	(directory/imar)	systematic
-	RA2_GDR_2P	(directory/gdr)	systematic
-	RA2_MWS_2P	(directory/sgdr)	upon request
-	RA2_MWI_2P	(directory/dpqc	systematic
-	DOR_DOP_1P	(directory/doris/dop)	systematic

Each IGDR product is disseminated in:

- 1. a directory named .../igdr/<aaaa><mm> with no purge applied
- 2. a directory named .../igdr/lastest_data with a purge set to 10 days Each WWV product is disseminated in :
 - 1. a directory named .../imar/<aaaa><mm> with no purge applied
 - 2. a directory named .../imar/lastest data with a purge set to 30 days

Each GDR product is disseminated in a directory named .../gdr/cycle_<cc>/ with no purge applied

To optimize the space a zip file is done per day, named gdr_cycle_xxx AAAAMMJJ.zip

MWS products are disseminated in a directory named $.../sgdr/cycle_<cc>/$ with no purge applied

To optimize the space a zip file is done per day, named Sgdr_cycle_xxx_AAAAMMJJ.zip

Each MWI product is disseminated in the directory named .../sigdr (no subdirectory) with a purge set to 1 day

Each DOP product is disseminated in:

- 1. a directory named .../doris/dop/<aaaa><mm> with no purge applied
- 2. a directory named .../doris/dop/lastest data with a purge set to 100 days

FPA-ARC-041

There is a directory for each main auxiliary type to disseminate.

4 different auxiliary types are to be disseminated using this server:

-	DOR_VOR_AX	(directory/doris/vor)	systematic
-	DOR_POR_AX	(directory/doris/por)	systematic
-	DOR_INS_AX	(directory/doris/aux)	systematic
-	DOR_CON_AX	(directory/doris/aux)	systematic

Each VOR product is disseminated in:

For the gdr-c DORIS standard, each VOR product is disseminated in :

1. a directory named .../doris/vor gdr c/<aaaa><mm> with no purge applied





Issue : 1.9

Date : 10 February 2012

Page : 12/30

Title: F-PAC User Services

2. a directory named .../doris/vor_gdr_c/lastest_data with a purge set to 30 days

For the gdr-d DORIS standard, each VOR product is disseminated in :

- 1. a directory named .../doris/vor gdr d/<aaaa><mm> with no purge applied
- 2. a directory named .../doris/vor_gdr_d/lastest_data with a purge set to 30 days

Each POR product is disseminated in:

- 1. a directory named .../doris/por/<aaaa><mm> with no purge applied
- 2. a directory named .../doris/por/lastest_data with a purge set to 30 days Each INS product is disseminated in the directory named .../doris/aux (no subdirectory) with no purge applied

Each CON product is disseminated in the directory named .../doris/aux (no subdirectory) with no purge applied

FPA-ARC-042

There is a directory for GDR validation reports (ocean surfaces):

- BilanCalval_EN_Cycle_<ccc>.pdf (directory .../gdr_validation_report) systematic

FPA-ARC-043

There is a directory for GDR OUS correction files:

 RA2_USO_clock_C-GDR-<ccc>.txt.gz (directory .../gdr_ous_corr) systematic

Note: with the inclusion of USO correction in IPF level1 processing, those files have not to be disseminated any more on the ftp server.

As the reprocessing is ended, the directory doesn't not exist any more.

FPA-ARC-044

There is a directory for IGDR OUS correction files:

- RA2_USO_clock_D-IGDR-<aaaa><mm><dd>.txt (directory

.../igdr_ous_corr)

systematic

Note: with the inclusion of USO correction in IPF level1 processing, those files have not to be disseminated any more on the ftp server. We however keep the existing files for safe of consistency to users.

FPA-ARC-045

The 'dpqc' directory is used for dissemination of specific data sets to dpqc group. This group has no access to the nominal data circulation directories.

FPA-ARC-050

There is 2 profiles types: one "read only" for users, one "read/write" for the entity in charge of the data circulation.

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Service
ALTIMETRIE
&
LOCALISATION

Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 13/30

Title:F-PAC User Services

FPA-ARC-060

Each user must be declared and has a login and a password. A user account may be a user group upon ESA decision. This solution was used for the CalVal phase with the unique login: *ccvt*.

FPA-ARC-070

The SSALTO SD component is the entity in charge of the data circulation from the SD disks to the DF-FS.

FPA-ARC-080

The SSALTO SD component manages the life duration of the files on the server, except for GCM2CDS project.

FPA-ARC-090

Scientific users allowed to access to RA2 data are able to access to all product types (meaning that they have access to Doris data) but the one in 'dpqc' directory.

FPA-ARC-091

Scientific users allowed to access to DORIS data are **NOT** able to access to all product types (meaning that they do **NOT** have access to RA2 data).





Issue : 1.9

Date : 10 February 2012

Page : 14/30

Title:F-PAC User Services

FPA-ARC-100

All IP transfers will be logged to allow for any on request analysis. Systematic analysis of IP traffics will be added to the F-Pac monthly reports. Those statistics will cover:

- list of incoming IP
- number of products retrieved by the users with an history login
- number of bytes transferred

FPA-DIM-010

All products, but /MWI ones, are permanently available on the server.

FPA-DIM-060

The dimension of the file system(s) will be computed so that it shall never be more than 90% used. As the SD component is not able to monitor the disk space used, a tool based on standard "df -k" and "du -sk" unix commands will be developed and the outputs sent to ssalto@cls.fr on a regular basis.

FPA-DIM-070

Two months of IGDR represent 11,760 GBytes and two months of WWV represent 1,68 GBytes.

FPA-DIM-080

Six cycles of GDR represent 40 GBytes.

FPA-DIM-090

5 years of Doris data represent less than 1.5 GBytes (1 Mbytes per day).





Issue : 1.9

Date : 10 February 2012

Page : 15/30

Title:F-PAC User Services

2.2 CONFIGURATION OF THE FILE SERVER OF THE F-PAC

2.2.1 CONFIGURATION OF SYSTEM, USERS AND DIRECTORIES

The file system dedicated to the File Server is a file system of 4 TBytes size. The name of the directory on which the file system is mounted is /data ftp.

Two UNIX users groups are defined: "writers" and "readers".

Two users accounts are allowed to write into the directories: SSALTO Data Server SD and the ftp_adm account (used for maintenance purposes)

SSALTO Data Server SD login name is **sd** . It belongs to the 2 UNIX groups "writers" and "readers". The SD is able to create directories under the directory structure presented in the document (see below). This will allow for example to automatically generate a directory named /data_ftp/sd/gdr/cycle_015 were the users will found all GDR level2 products on cycle 15.

The users allowed to read on these directories can connect from any hosts. The registered login names are provided by ESA and managed by ESA. CNES open, modify or close user account according to ESA requests coming eohelp by email.

They belong to the UNIX group "readers". For these users, the home directory must be /data ftp/sd.

2.3 OPERATIONAL PROCESSES TO UPDATE THE CONFIGURATION

The registered login names are provided by ESA and managed by ESA. CNES open, modify or close user account according to ESA requests coming eohelp by email.





Issue : 1.9

Date : 10 February 2012

Page : 16/30

Title: F-PAC User Services

3. TECHNICAL SPECIFICATIONS OF THE MEDIA DISSEMINATION

3.1 Media Dissemination: Functional Description

The systematic generation and delivery of the Envisat RA2 GDR and SGDR data on DVD has been discontinued at F-PAC. The data is accessible to users on-line from the F-PAC dissemination server. On request from EOHELP, the F-PAC media dissemination system must sent to users the products generated by the F-PAC off-line (ie RA2_GDR, RA2_MWS). For the Doris orbit files and Doris level 1B files, the USF and AVISO catalogues will fill the service. For all altimeter level 2 products generated by the verification chain (non official PDS products), the service will be fill also by the AVISO catalogue.

The requirements for this server are the following:

FPA-SYS-010

The GDD component manages the media generation activity for the radar altimeter PDS products. Media generated shall be inline with "Envisat1 Media Naming Scheme" document (PO-TN-CSF-GS-0549).

FPA-SYS-015

The AVISO or GDD component manages the media generation activity for the Doris orbit files, the Doris level1B products and the added value products generated by the verification chain.

FPA-SYS-020

The SEM (Service d'Echange de Media) is in charge of the media master generation. Depending on the number of copies necessary an external company might be used for media duplication.

FPA-SYS-030

During the operational phase, only RA2_GDR and RA2_MWS products are circulated on media on request since cycle 91.

FPA-SYS-035

During the operational phase, any user may access to

- the AVISO catalogue (http://www-aviso.cnes.fr/) to order Doris products or any radar altimeter verification product.
- An TBD ESA catalogue to order RA2 or Doris products.

FPA-SYS-040

During the verification phase, all RA2 level2 products might be circulated on media.

FPA-SYS-050

The radar altimeter user list is provided by ESA.

FPA-SYS-060

Both CD-ROM and DVD-ROM will be generated depending on user choice





Issue : 1.9

: 10 February 2012

Page : 17/30

Title:F-PAC User Services

FPA-SYS-070

All RA2_GDR products must be validated before media generation. A validation report is issued for all GDR cycle. This report has to be included to the media.

Date

FPA-SYS-080

The AVISO user service (aviso@cls.fr) is in charge of the packaging and user interface regarding the media. Any question related to the products themselves will be sent to ESA help desk.

FPA-DIM-110

During the CalVal phase, the level2 products are circulated on a weekly basis.

FPA-DIM-120

During the operational phase, the RA2_GDR_2P data are circulated on a cycle basis.

FPA-DIM-130

During the operational phase, the RA2_MWS_2P data are circulated on a cycle basis. Those products will be compressed (zip) on media.

FPA-DIM-140

One cycle of GDR represents 7 GBytes.

FPA-DIM-150

One cycle of MWS represents 35 GBytes. After compression, volume size is about 15 GBytes

3.2 OPERATIONAL PROCESSES TO UPDATE THE CONFIGURATION

For any request, ESA will sent a mail to ssalto@cls.fr F-PAC project manager.





Issue : 1.9

Date : 10 February 2012

Page : 18/30

Title:F-PAC User Services

3.3 SERIGRAPHY

Taking into account ESA requests and CNES internal constraints (F-Pac is using a generic CNES system for all media dissemination, this allowing to reduce largely cost of operations), the following serigraphy was agreed between both parties







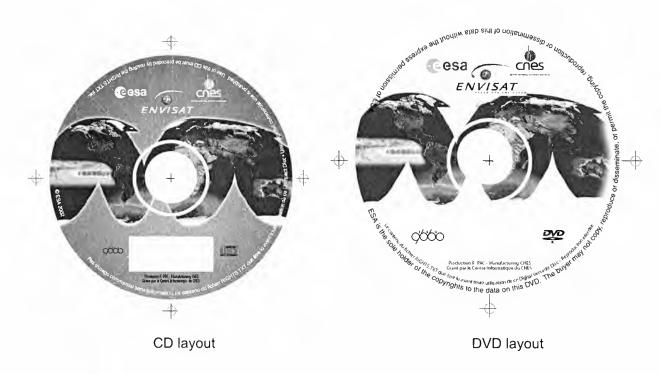


Issue : 1.9

Date : 10 February 2012

Page : 19/30

Title:F-PAC User Services



FPA-SER-010

This serigraphy shall be used for any CD/DVD media generated by F-PAC

FPA-SER-020

The following information is printed on CD/DVD: media volume name and CNES Volume Serial Number (VSN)

FPA-SER-030

The following information is printed on leaflet 1st page: media volume name and Media Creation Date

FPA-SER-035

The following information is printed on leaflet 4st page: media content (first product name + last product name). This allow to have access to:

Product ID (and so to the Product Name)

Start Time and Stop time

Orbit N Range

Cycle number

Rel Orbit Range

FPA-SER-040

The following information is printed on box side: media volume name





Service

ALTIMETRIE

&
Localisation

Precise

Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 20/30

Title:F-PAC User Services

FPA-SER-050

Media volume name is defined as follow: FPA_GDR_<ccc>_P_<nn>_<mm> where FPA is the processing center

GDR is the product type

ccc is the cycle number (very useful information for RA2 users)

P is the consolidation flag of the products

nn is the delivery number inside the cycle (nominaly = 01)

mm is the CD number inside the delivery (from 01 to 10 for a complete GDR cycle)





Issue : 1.9

Date : 10 February 2012

Page : 21/30

Title:F-PAC User Services

ANNEXE A: PRODUCT SHEET

FILE NAME	RA2_IGD_2POF-PStDay_StTime_DurACyc_RelOr_AbsOr_Count.N1		
	le: RA2_IGD_2POF-P20020828_125825_00003017A009_00024_02004_0036.N1		
Applicable	Envisat-1 Product specifications		
document	PO-RS-MDA-GS-2009 Volume 5		
	PO-RS-MDA-GS-2009 Volume 14		
	ENVISAT Product Handbook : http://envisat.esa.int/dataproducts		
Product description	Level 2 products combining altimeter and radiometer data under the ground track. Those products are generated with the Doris Preliminary Orbit (DOR_POR). They are split into half orbits (pole to pole).		
Product type	Binary		
Delay	Generated in 2 to 5 working days after data sensing on a daily basis		
Volume	7 Mbytes per file		
Dissemination	Available on the F-Pac ftp server (no purge applied)		
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools_table.html		





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 22/30

FILE NAME	RA2_GDR_2POF- PStDay_StTime_DurACyc_RelOr_AbsOr_Count.N1		
	le: RA2_GDR_2POF-P20020828_125825_00003017A009_00024_02004_0036.N1		
Applicable document	Envisat-1 Product specifications		
document	PO-RS-MDA-GS-2009 Volume 5		
	PO-RS-MDA-GS-2009 Volume 14		
	ENVISAT Product Handbook : http://envisat.esa.int/dataproducts		
Product description	Level 2 products combining altimeter and radiometer data under the ground track. Those products are generated with the Doris Precise Orbit (DOR_VOR). They are split into half orbits (pole to pole).		
Product type	Binary		
Delay	Generated 50 days after the end of the cycle on a cycle basis. Those products are widely validated before dissemination of the full cycle		
Volume	7 Mbytes per file		
Dissemination	Available on the F-Pac ftp server (no purge applied)		
	Sent on media on a cycle basis		
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools-table.html		





Issue : 1.9

Date : 10 February 2012

Page : 23/30

FILE NAME	RA2_MWS_2POF- PStDay_StTime_DurACyc_RelOr_AbsOr_Count.N1	
	le: RA2_MWS_2POF-P20020828_125825_00003017A009_00024_02004_0036.N1	
Applicable	Envisat-1 Product specifications	
document	PO-RS-MDA-GS-2009 Volume 5	
	PO-RS-MDA-GS-2009 Volume 14	
	ENVISAT Product Handbook : http://envisat.esa.int/dataproducts	
Product description	Level 2 products combining altimeter and radiometer data under the ground track and waveforms. Those products are generated with the Doris Precise Orbit (DOR_VOR). They are split into half orbits (pole to pole).	
Product type	Binary	
Delay	Generated 50 days after the end of the cycle on a cycle basis. Those products are widely validated before dissemination of the full cycle. They contain the waveforms information to allow users to perform their own retracking algorithms.	
Volume	35 Mbytes per file	
Dissemination	Available on the F-Pac ftp server upon request only for a small set of passes	
	Sent on media on a cycle basis	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools_table.html	





Issue : 1.9

Date : 10 February 2012

Page : 24/30

FILE NAME	RA2_WWV_2POF- PStDay_StTime_DurACyc_RelOr_AbsOr_Count.N1 le: RA2 wwv 2POF-P20020828 125825 00003017A009 00024 02004 0036.N1	
Applicable	Envisat-1 Product specifications	
document	PO-RS-MDA-GS-2009 Volume 5	
	PO-RS-MDA-GS-2009 Volume 14	
	ENVISAT Product Handbook : http://envisat.esa.int/dataproducts	
Product description	Level 2 products combining altimeter and radiometer data under the ground track. Those products are generated with the Doris Preliminary Orbit (DOR_POR). They are split into half orbits (pole to pole). They contain only the ocean1 retraking information.	
Product type	Binary	
Delay	Generated in 3 to 5 working days after data sensing on a daily basis	
Volume	1 Mbytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV http://envisat.esa.int/services/tools_table.html	





Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 25/30

FILE NAME	DOR_POR_AXVF- PProcessingDay_ProcessingTime_StDay_StTime_EndDay_EndTime	
	le: DOR_POR_AXVF-P20030416_013100_20030308_215528_20030310_002328	
Applicable document	Envisat-1 Product specifications	
	PO-RS-MDA-GS-2009 Volume 5	
	PO-RS-MDA-GS-2009 Volume 16	
	ENVISAT Product Handbook : none	
Product description	Doris Preliminary orbit computed in Near Real Time using only Doris data. Each file covers one day with a time span of 1 minute.	
Product type	Ascii	
Delay	Generated in 3 to 5 working days after data sensing on a daily basis	
Volume	200 kBytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools_table.html	





ALTIMETRIE

&
LOCALISATION

Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 26/30

FILE NAME	DOR_VOR_AXVF- PProcessingDay_ProcessingTime_StDay_StTime_EndDay_EndTime	
	le: DOR_VOR_AXVF-P20030416_013100_20030308_215528_20030310_002328	
Applicable	Envisat-1 Product specifications	
document	PO-RS-MDA-GS-2009 Volume 5	
	PO-RS-MDA-GS-2009 Volume 16	
	ENVISAT Product Handbook : none	
Product description	Doris Precise orbit computed off line using Doris and laser data. Each file covers one day with a time span of 1 minute.	
Product type	Ascii	
Delay	Generated 35 days after data sensing on a weekly basis	
Volume	200 kBytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools-table.html	





Service
Altimetrie
&
Localisation
Precise

Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 27/30

FILE NAME	DOR_DOP_1POF- PStDay_StTime_DurACyc_RelOr_AbsOr_Count.N1	
	le: DOR_DOP_1POF-P20030210_000352_000857402013_00389_04951_0326.N1	
Applicable	Envisat-1 Product specifications :	
document	PO-RS-MDA-GS-2009 Volume 5	
	PO-RS-MDA-GS-2009 Volume 9	
	ENVISAT Product Handbook : none	
Product description	Doris Doppler data associated to the Precise orbit. Each file covers one day and includes all Doris measurements available on the period.	
Product type	Binary	
Delay	Generated 35 days after data sensing on a weekly basis	
Volume	500 kBytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools_table.html	





Issue : 1.9

Date : 10 February 2012

Page : 28/30

FILE NAME	DOR_INS_AXVF- PprocessingDay_ProcessingTime_StDay_StTime_EndDay_EndTime_ Location and the state of the state	
	le : DOR_INS_AXVF-P20030605_115000_20030320_224322_20030325_002142	
Applicable	Envisat-1 Product specifications	
document	FPA-ST-052-EA-10446-ESA Volume 5	
	FPA-ST-052-EA-10457-ESA Volume 16	
	ENVISAT Product Handbook : none	
Product description	Doris instrument characterisation file	
Product type	Ascii	
Delay	Generated 35 days after data sensing on a weekly basis	
Volume	2 kBytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools-table.html	





ALTIMETRIE LOCALISATION

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Référence : SALP-NT-P-OP-14794-CN

Issue : 1.9

Date : 10 February 2012

Page : 29/30

FILE NAME	DOR_CON_AXVF- PprocessingDay_ProcessingTime_StDay_StTime_EndDay_EndTime	
	le: DOR_CON_AXVF-P20030605_115100_20030320_224322_20030325_002142	
Applicable document	Envisat-1 Product specifications	
	FPA-ST-052-EA-10446-ESA Volume 5	
	FPA-ST-052-EA-10457-ESA Volume 16	
	ENVISAT Product Handbook : none	
Product description	Doris instrument configuration file	
Product type	Ascii	
Delay	Generated 35 days after data sensing on a weekly basis	
Volume	20 kBytes per file	
Dissemination	Available on the F-Pac ftp server (no purge applied)	
Reading tools	Enviview and Reading tool package provided by ESA ESOV : http://envisat.esa.int/services/tools-table.html	





Issue : 1.9

Date : 10 February 2012

Page : 30/30

Title:F-PAC User Services

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