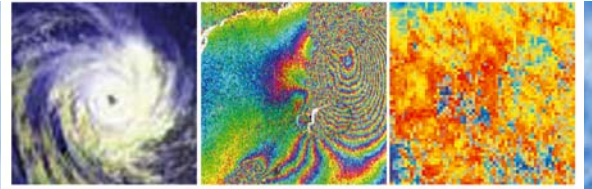


DIAPASON V4.1 newsletter

The tool of reference for the scientific community



Release: June 2006

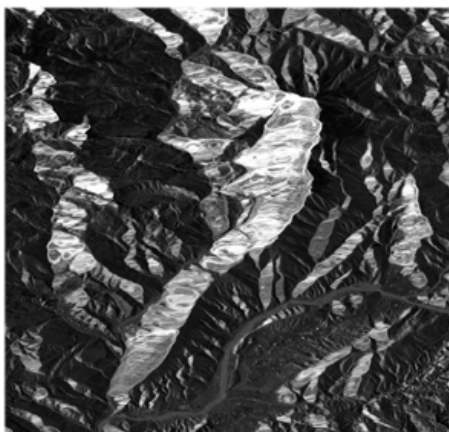
With respect to the previous DIAPASON release V4.0 issued in early 2006, notable improvements have been issued that will be made available in the next DIAPASON V4.1.

Among others, DIAPASON V4.1 will present the following new features:

- DIAPASON FAQ on ALTAMIRA INFORMATION web site www.altamira-information.com
- Data Extraction routine enhancements
- SWST changes handling for ERS RAW data
- Orthorectification improvement
- ASAR Image mode RAW data processing by PRISME
- Better template scripts
- GUI evolution

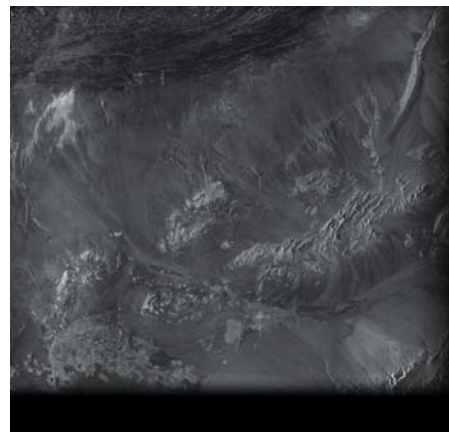
Improved orthorectification

French Alps orthorectified image with a 6m DEM with holes filled on strong layover areas.
ERS-2 Image © ESA 1999

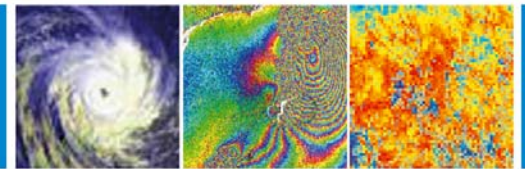


ASAR Raw data processing

Bam, Iran 03/12/2003
Envisat ASAR imagery processed by PRISME ENVISAT image © ESA 2003



DIAPASON V4.1 New Features



DIAPASON FAQ

More than simply the DIAPASON provider, ALTAMIRA INFORMATION also supports the user in the DIAPASON daily usage. Following this philosophy a FAQ has been created to help the new customers in getting started. Please visit the DIAPASON FAQ at:

www.altamira-information.com/330-Diapason_FAQ.html

The FAQ is continuously evolving and new questions will be added in function of the user feedback.

DIAPASON : Technical parameters

Input data:

- Raw Data (Raw) and Complex Data (SLC)

Satellites:

- ERS-1/2, JERS-1, RADARSAT, ENVISAT

General products:

- Single & Differential phase image
- Coherence image
- Coregistered amplitude images

Geometry of outputs:

- Radar & Orthorectified geometry

System requirements:

- PC (Pentium minimum, 128Mb RAM recommended)
- Windows 95, 98, NT, 2000, XP
- Linux

Manual in English

ASAR processing

In DIAPASON previous releases, ASAR level 0 data (RAW data) was not handled by the PRISME SAR processor. Further work has been achieved and PRISME is now able to process ASAR RAW data for IS2 but also for the other swaths. Further tests are on-going to assess the phase quality achieved.

SWST changes handled in ERS RAW data

The data extraction program has been updated to handle the change of SWST in ERS RAW data. As consequence two new fields have been added in the GEOSAR: FIRST SWST and LAST SWST. At data extraction level the size of the RAW file created (C5B) is automatically adjusted and source packets are re-aligned to handle the SWST changes.

Orthorectification improvements

Geocoding enhancements have been made to allow orthorectification on very high resolution DEM (<12m). Ortho images can be rapidly exported in common GIS softwares with an increased accuracy. In addition a new option has been added in the ortho (calmnt) utility in order to fill the holes in layover areas.

Template scripts

Template scripts have been improved for a better use of DIAPASON .

GUI

The GUI simplifies the user interaction by taking into account the information already available in the GEOSARs.



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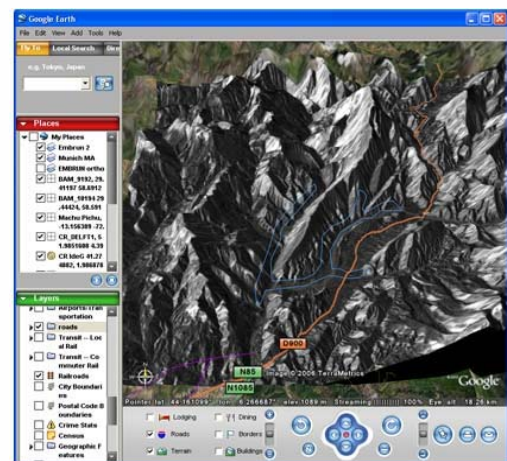
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DIAPASON Imagery imported into Google Earth
Free GIS © Google

The DIAPASON interferometric processing chain has been developed by the CNES. It is commercialised and maintained by ALTAMIRA INFORMATION.