



ASAR ENVISAT (ESA) Extract Data

Description:

This Application is used to import and convert **ASAR AP (Alternating Polarisation mode)** data to **Real (Intensity) Raw Binary data** corresponding to one of the six partial polarimetric (PP) combinations.

It is possible to extract the full image or a sub-part of it, and to apply or not a sub-sampling or multilooking operation. This program converts polarimetric data sets encoded using the Asar specific data format (ASAR AP) to PolSARpro compatible raw binary data.

Comments:

Parameters written in Red can be modified directly by the user from the keyboard.

Input/Output Arguments:

Input Directory Indicates the location of the considered **Main Directory (MD)** containing the ASAR-AP data file to be converted.

Output Directory Indicates the location of the converted data output directory.

Output Image Number of Rows/Columns:

The output image numbers of rows and columns are initialised to the input data set

dimensions.

Users wishing to process a sub-part of the initial image can modify the **Init** and **End** values of the converted images rows and columns.

Note: init and end values have to remain within the range defined by the input image dimensions.

Processing Parameters:

- Full Resolution** This is the default selection.
This corresponds to a one-to-one conversion without applying any data processing.
The extracted image has the same format than the source data.
- Sub Sampling** This selection offers the possibility to perform a sub-sampling operation during the conversion of any kind of ASAR-AP source data.
- Multi Look** This selection offers the possibility to perform an incoherent multilooking operation during the conversion of any kind of ASAR-AP source data.

Partial Polartimetry Data Formats (PPx)

A Partial Polarimetry [**PPx**] representation (with X equal to 1,2,3,5,6 or 7) consists of two polarimetric channels acquired in a reduced polarimetry configuration.

PPx binary data files have to be located in a **PPx directory** located at the same level than a **MD directory** and described by a text configuration file, as follows.

Input Directory (PP1, PP2, PP3, PP5, PP6 or PP5 type)

- MD /.
 - MD / config.txt
 - MD / Ixx.bin
 - MD / Ixy.bin
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