

RADARSAT-2 Input Data File



The screenshot shows the 'RADARSAT2 Input Data File' dialog box. It contains several fields for configuring the input and output of the conversion process. The 'Input Directory' and 'Output Directory' fields are both set to 'C:/RS2/RS2_OK2081_PK24834_DK25416_FQ10_20080720_132612_HH_VV_HV_VH_SLC'. The 'SAR Product File' field is set to 'C:/RS2/RS2_OK2081_PK24834_DK25416_FQ10_20080720_132612_HH_VV_HV_VH_SLC/pr'. The 'Output Scaling Look-Up-Table (LUT)' section has three radio buttons: 'Beta-Nought', 'Gamma-Nought', and 'Sigma-Nought', with 'Sigma-Nought' selected. Below this are buttons for 'Read Header' and 'Edit Header', and a 'Polarisation Mode' dropdown set to 'full'. There are four 'Input Data File' fields, each with a file path and a folder icon button. The 'Initial Number of Rows' is set to 6562 and the 'Initial Number of Cols' is set to 2918. At the bottom are 'OK', 'Cancel', and a help icon button.

Description:

This program sets and configures the main characteristics of the Input Data Files in order to convert polarimetric data sets encoded using the RADARSAT-2 specific data format to PolSARpro compatible 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 RADARSAT 2 data file to be converted.

Output Directory Indicates the location of the converted data output directory

SAR Product File

Correspond to the RADARSAT 2 product File (product.xml)

Output Scaling Look-Up-Table

Three output scaling Look-up Tables (LUTs) are included with every product and allow one to convert the digital numbers found in the output product to sigma-nought, beta-nought, or gamma-nought values (depending on which LUT is used) by applying a range dependent gain to the SAR imagery.

Read/Edit Header:

Read Header

Input RADARSAT 2 Product file contains header blocks describing the polarimetric data characteristics

The output header ascii file is:

- Product_header.txt
- Product_lut.txt

Edit Header

Users have the possibility to edit the product header file.

Polarisation Mode

Correspond to the RADARSAT-2 encoded data format used. [Full](#) for quad-pol data or [PP1](#), [PP2](#), [PP3](#) for dual-pol data according to the polarimetric channel combination.



If [Google Earth application](#) is installed on the machine, users have the possibility to visualize the footprint of the measured scene

Input Data Files

Correspond to the input polarimetric channel data files, encoded using the RADARSAT-2 format, to be processed.

Initial Number of Rows/Columns:

Users have to provide the considered image **Initial Number of Rows and Columns**.
