

SIRC Input Data File



The screenshot shows the 'SIRC Input Data File' dialog box. It features a header image of a satellite. Below the header, there are fields for 'Input Directory' (C:/pr17310) and 'Output Directory' (C:/pr17310). A 'SIRC Processing Run Number' field contains the value 17310. There are 'Read Header' and 'Edit Header' buttons. Below these, there are three dropdown menus: 'SIRC Data Format' (COMPRESSED SCATTERING MATRIX), 'SIRC Data Type' (10 byte singlelook quad pol complex (SLC)), and 'SIRC Polarization Mode' (Quad Pol). At the bottom, there are fields for 'Initial Number of Rows' (11176) and 'Initial Number of Cols' (1320). The dialog box has 'OK', 'Cancel', and a help icon button at the bottom.

Description:

This program sets and configures the main characteristics of the Input Data Files in order to convert polarimetric data sets encoded using the **SIR-C CEOS** 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 SIRC data file to be converted.

Output Directory Indicates the location of the converted data output directory

SIRC Processing Run Number Correspond to the SIR-C Processing Run Number (XXXXX). The four input SIR-C data files to be processed are:

- prXXXXXX.fgdr
- prXXXXXX_ldr_ceos
- prXXXXXX_img_ceos
- prXXXXXX_tlr_ceos

Read/Edit Header:

Read Header Input SIR-C data files contain a header block describing the polarimetric data characteristics and particularly the number of rows and columns which will be automatically initialised.

The output header ascii files are:

- prXXXXXX.fgdr.hdr
- prXXXXXX_leader_ceos.hdr
- prXXXXXX_image_ceos.hdr
- prXXXXXX_trailer_ceos.hdr

Edit Header Users have the possibility to edit the different header files.

SIRC Data Format Correspond to the SIR-C CEOS Data Format:

SIRC Data Type Correspond to the SIR-C CEOS Data Type:

SIRC Polarization Mode Correspond to the SIR-C CEOS Data Polarization Mode:

Initial Number of Rows/Columns:

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