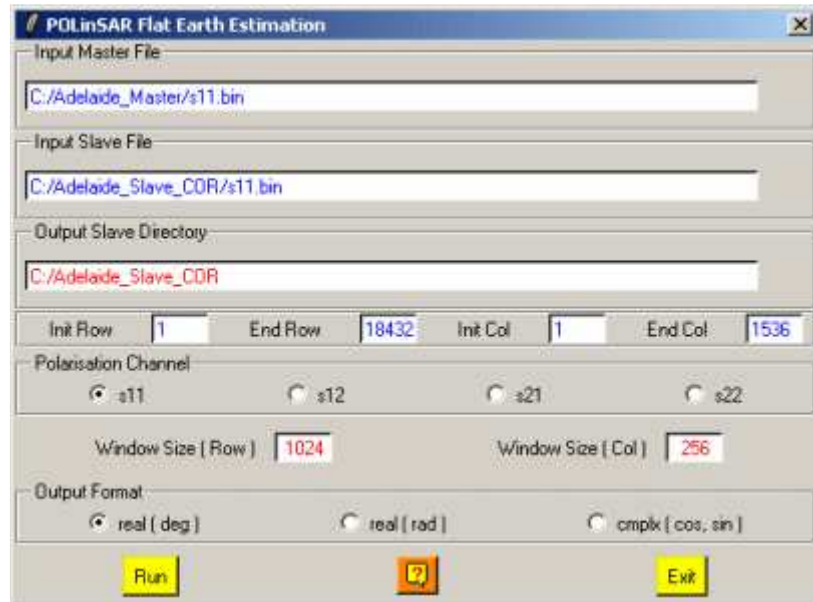


Flat Earth Estimation



The screenshot shows the 'POLinSAR Flat Earth Estimation' dialog box. It contains the following fields and controls:

- Input Master File:** A text box containing 'C:/Adelaide_Master/s11.bin'.
- Input Slave File:** A text box containing 'C:/Adelaide_Slave_COR/s11.bin'.
- Output Slave Directory:** A text box containing 'C:/Adelaide_Slave_COR'.
- Init Row:** A text box containing '1'.
- End Row:** A text box containing '18432'.
- Init Col:** A text box containing '1'.
- End Col:** A text box containing '1536'.
- Polarisation Channel:** Four radio buttons labeled 's11', 's12', 's21', and 's22'. 's11' is selected.
- Window Size (Row):** A text box containing '1024'.
- Window Size (Col):** A text box containing '256'.
- Output Format:** Three radio buttons labeled 'real (deg)', 'real (rad)', and 'cmplx (cos, sin)'. 'real (deg)' is selected.
- Buttons:** 'Run', a help icon, and 'Exit'.

Description:

This function applies a spectral analysis to estimate the flat Earth from the **2 x (2x2)** complex Sinclair [S2] raw binary data elements.

The Flat Earth estimation is based on a spectral analysis of the interferogram phase over a patch located at the image centre.

Comments:

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

Input/Output Arguments:

- | | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Master Directory | Indicates the location of the considered Master Main Directory (M-MD) containing the polarimetric data sets to be processed. |
| Input Slave Directory | Indicates the location of the considered Slave Main Directory (S-MD) containing the polarimetric data sets to be processed. |
| Output Slave Directory | Indicates the location of the processed data output directory.
The default value is set automatically to :
Slave-Main Directory (S-MD) . |

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.

Polarization Channels:

Users have to select the polarisation channel on which will be applied the flat Earth estimation procedure

Window size:

Window Size Row Users have to set the size of the analysis window along the **Row direction** used to compute the flat Earth estimation.
The default value is set to **1024**.

Window Size Col Users have to set the size of the analysis window along the **Col direction** used to compute the flat Earth estimation.
The default value is set to **256**.

Output Format:

Data Format Indicates the type of output data.

- **Real (deg)** : 4 bytes real data in degrees.
- **Real (rad)** : 4 bytes real data in radians.
- **Cmplx (cos,sin)** : 4 bytes interlaced real and imaginary parts.
