Information on the FTP site

The information on the FTP site was originally developed for a teaching workshop on Hyperion data. It is now freely available.

The FTP Site under "Hyperion" has the following directory structure:

Hyperion	Minimal_Set	Ancillary_Data	Binning_Weight_Matrices
			Calibration files
			Gain-offset files
			Hyperion_Smile
			User Defined Filter Functions
		Documents	
		Install	Labeller
			Save_Add
			Test_Spl

In the folder "Hyperion" there is an 18 MB file called:
EOC_EO1_report_Final.pdf

This contains reports on the Australian work for the NASA Science Validation Team. There are many useful accounts of experience here.

The folder "Minimal_Set" has three sub-folders called "Ancillary_Data", "Documents" and "Install"

Ancillary_Data are used in the processing as described in the processing notes. It is best to refer to these for the information in this area.

"**Documents**" contains the following documents:

Document Name	Description
CHW_Introduction_to_ Hyperion.pdf	TRW Powerpoint presentation on Hyperion.
EO1HyperionScienceDataUsersGuide_ public_L1_B1.pdf	Official Science Data Users Guide from TRW delivered to NASA.
Datt_etal_2003.pdf	PDF of paper in IEEE by Bisun Datt and others on pre-processing methods
Col_SPIE_Hangzhou_4898-18_Final.pdf	Discussion of spectral smile from Hanzhou Conference
Hyp_Wsn.pdf	Workshop Notes (detailed outline of Hyperion data)
Heading.xls	Spreadsheet to calculate Hyperion heading.
Smile_Interpolation_notes.pdf	Added notes about smile correction by interpolation

Hyperion Data Processing Instructions.pdf	Workshop notes about pre-processing Hyperion data
proc_doc.pdf	Brief outline of the software used in the Workshop.
Notes on the use of Splib.pdf	Discussion of a new program to cluster spectra.

The yellow highlighted documents contain the most general information about Hyperion data and are recommended to be read.

The sub-folder "**Install**" has four sub-folders:

"**Labeller**" contains some software that is freeware and allows Excel to label data in a plot. It is useful to compare and cross-plot data as described in the notes about Splib.

"**Save_Add**" contains a SAV file and an EXE file. If you put both of these in the ENVI Save_add folder the software becomes available in the main ENVI menu. The use of the software is described in the Hyperion Data Processing Instructions.pdf file.

"**Test_spl**" contains some files to test the Splib software as described in the Notes on the use of Splib.pdf file.

"**Source**" has the IDL source code for the software and also Fortran for Cluster.

Suggested Path

1. Download and read Hyp_Wsn.pdf, Datt_etal_2003.pdf, and Col_SPIE_Hangzhou_4898-18_Final.pdf

2. Look at CHW_Introduction_to_Hyperion.pdf

3. Look at EO1HyperionScienceDataUsersGuide_public_L1_B1.pdf

4. Install the software by adding the SAV file to the ENVI Save_Add folder and make change to ENVI settings as described below

5. Go through Hyperion Data Processing Instructions.pdf to see how the pre-processing is done.

If there are questions do not hesitate to email me at:

David.Jupp@csiro.au

[NOTE: Change to ENVI settings. It is best to change File/Preferences/Miscellaneous settings for Cache Size and Image Tile Size to at least 50 mb each and (better) 100 mb each. If you have questions contact David Jupp]