

# Polar/HYDRA Resident Archive

## Design Goals:

- Located at the University of Iowa.[1]
  - Commodity Hardware x86 PCs w/RHEL5/Apache.[3]
  - Internet User will have access to all Daily Spectrogram Images.[2,4,5]
  - Internet User will have access to Electron and Ion Moments at full 13.8 second resolution (n, U, TrP, Anisotropy), or statement of Instrument Status.[2,4,5]
  - HYDRA moment data made available will be calibrated.[5,10]
  - Plots of Moments and Spectrogram data via Web Form.[3,6]
  - ASCII download of Moment data via Web Form.[3,6,7]
  - Hydra Summary files and Key Parameter files available from NSSDC.[3,4,5,6]
  - Links to spacecraft archive of Orbit/Attitude Information Provided.[8]
  - Description and Links to other Instruments Archives Provided.[9]
  - Documented Calibration Procedure available.[10]
- \*Bracket numbers refer to Polar Mission Resident Archive Guiding Principles

## Hardware:

- 2 x86 32bit PCs w/RHEL5/Apache for redundancy

# Polar/HYDRA Resident Archive Completion Schedule

	Completion Date
-Acquire Hardware & Configure PC/RHEL/Apache	Jan 31, 2008
-Code Spectrogram Image File Procedure.	Feb 8, 2008
-Create Web-Form for Spectrogram Plots	Feb 21, 2008
-Demonstrate Web-access to Spectrogram Images.	Feb 22, 2008
-Create Web-Form for Moment Plots.	Feb 29, 2008
-Demonstrate Web-access to Moment-Plots.	Mar 3, 2008
-Create Web-Form code for ASCII downloads.	Mar 7, 2008
-Demonstrate Web-access to Moment-ASCII data.	Mar 10, 2008
-Create Calendar of Intervals, identifying Maneuver, PSI, Cal-Modes, Science-Mode. Links to explanations.	Mar 21, 2008
-Create Links to KP, Summary NSSDC archive.	Mar 25, 2008
-Create Links to S/C Orbit/Attitude Information at Polar/VIS.	Mar 28, 2008
-Create Explanations/Links to other Polar Instruments.	Mar 31, 2008
-Create Explanation of DDEIS data calibration procedure.	Mar 31, 2008