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March 14, 2007

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To: VSRT Group
From: Alan E.E. Rogers
Subject: Sample srt.cat file for VSRT

The srt.cat file controls the operation of the software. This is a text which file contains keywords to set the various options and parameters needed by the software. If a line starts with an "*" or "#" it is taken as a comment.

* sample srt.cat file fro VSRT tests
*SIMULATE RECEIVER - for SRT this line (with * removed) forces
* simulation of the USB interface to the frame grabber
*SIMULATE RECEIVER
*SIMULATE ANTENNA - simulate RS232 interface to antenna motors
*SIMULATE ANTENNA -4 - simulates with time 4 hours ahead
*SIMULATE ANTENNA 10 - simulates with a factor of 10 speed-up in time
SIMULATE ANTENNA
*VSRT 2 1000 400 - VSRT mode with frame grabber 2 stations
* detector_gain_scale=1000 plot_scale=400
* these parameters should be O.K. for lab demonstrations
VSRT 2 1000 400
*SG2100MOUNT - specifies the 2-axis mount with 2 SG2100 drives
SG2100MOUNT
*AZFEEDOFFSET 9 - specifies the feed offset of 9 degrees
AZFEEDOFFSET 9
*STATION 42.5 71.5 Haystack - antenna_location latitude longitude_west name
STATION 42.5 71.5 Haystack
* source coords epoch 1950 unless specified
* right ascension hr mn sc declination deg mn sec name epoch
SOU 05 31 30 21 58 00 Crab
SOU 05 32 48 -5 27 00 Orion
SOU 23 21 12 58 44 00 Cass
SOU 00 00 00 00 00 00 Sun
SOU 17 42 54 -28 50 00 SgrA
SOU 06 29 12 04 57 00 Rosett
SOU 18 17 30 -16 18 00 M17
SOU 20 27 00 41 00 00 CygEMN
SOU 00 00 00 00 00 00 Moon
SOU 00 39 00 40 30 00 Androm
* synchronous satellite degrees_west name
* every entry will be plotted on the screen at its

* current azimuth and elevation
* any plotted source can be selected by clicking on it
SSAT 10 10
SSAT 20 20
SSAT 30 30
SSAT 40 40
SSAT 50 50
SSAT 60 60
SSAT 70 70
SSAT 80 80
SSAT 90 90
SSAT A0 100
SSAT B0 110
SSAT C0 120
SSAT D0 130
SSAT E0 140
SSAT F0 150
ELLIMITS -1.0 80.0 // sg2100 - limits of antenna motion
* stow position at -1 degrees elevation
AZLIMITS 99.0 259.0 // sg2100 - limits of azimuth motion
* stow position for SG2100 assumed at $(99 + 259)/2$
* the LIMITS can be adjusted to correct for mount offsets
COMM 1 /* COM 1 */ - serial port for antenna control