

Data Analysis Working Group Links (by T. Kucera)

SUMER Software

There are a number of different packages out there for analyzing SUMER software. Many of these overlap somewhat with respect to basic components such as the radiometric calibration programs

- [Oslo SUMER Reduction Package](#)
- [Lindau Software Cookbook](#) These are available through the [SolarSoft Tree](#).
- [SUMER User's Guide](#) Instructions for using another set of SUMER software available through the SolarSoft Tree

SOHO Data Archive

The new version of the SOHO data archive, in [France](#), the [UK](#), and the [USA](#)

Software Analysis Issues

[Stray Light Code for CDS and SUMER](#)

[CDS NIS1 and NIS2 spatial co-alignment](#). This can now be corrected for using the program `gt_solar_xy`, which calculates the slit coordinates of data from the different bands.

Werner Curdt has just written a program to calculate the effect of the grating focus mechanism and the magnification on the position of the slit image on the detector. This is essential, if you want to compare lines found in different spectral windows. A test version of `delta_pixel.pro` is available through the SUMER software in SolarSoft.

Data Sets

[Brigitte Schmieder's list of prominence and filament campaign observations](#) :

**LIST OF FILAMENTS AND PROMINENCES OBSERVED DURING
SOHO CAMPAIGNS**

Table 1: Campaign times of JOP 17/131 (filament), JOP 12/107(prominence)

year	SUMER lines	MARCH	MAY	JUNE	SEPTEMBER	OCTOBER
1996	Si IV, OV	9-10	1-7 no MSDP	1-9 Bialkov	21-29 VTT	
1997	L4 /NV		27 to Pic du Midi	9 Bialkov	26 to VTT	1
1998	L4 to cont.			18-21 no MSDP	8-13 VTT, no SOHO	
1999	L α to cont.	20,23 no MSDP	28	2		11-17 VTT, THEMIS
2000	Lyman series		3-5 THEMIS			9-15 VTT, THEMIS

1 Filaments

1996 JOP 17:

CDS/DYNAC (6 lines): mainly used for co alignment, few studies for studying the fine structures

SUMER observations : Observations in Si IV lines with a scanning mode used for fine structures studies. Lyman series is a good test for non LTE models (GHV 1993)

Campaign of September with VTT/MSDP from Sept 21 to Sept 29

September 25 1996 fine structures in CDS images (Kuccra et al 1999 Solar Phys. 186,256)

Observations of L4 and L5 lines in Lyman series on September 21 (Schmieder et al 1997)

remarks: Si IV lines are blended by the other order lines so we could not derive any density diagnostics. The filaments are well visible in the L4 line line center

1997 JOP 17 (CDS/DYNAC) and JOP 33

Campaign of 27 May - 1 June with Pic du Midi and Bialkov