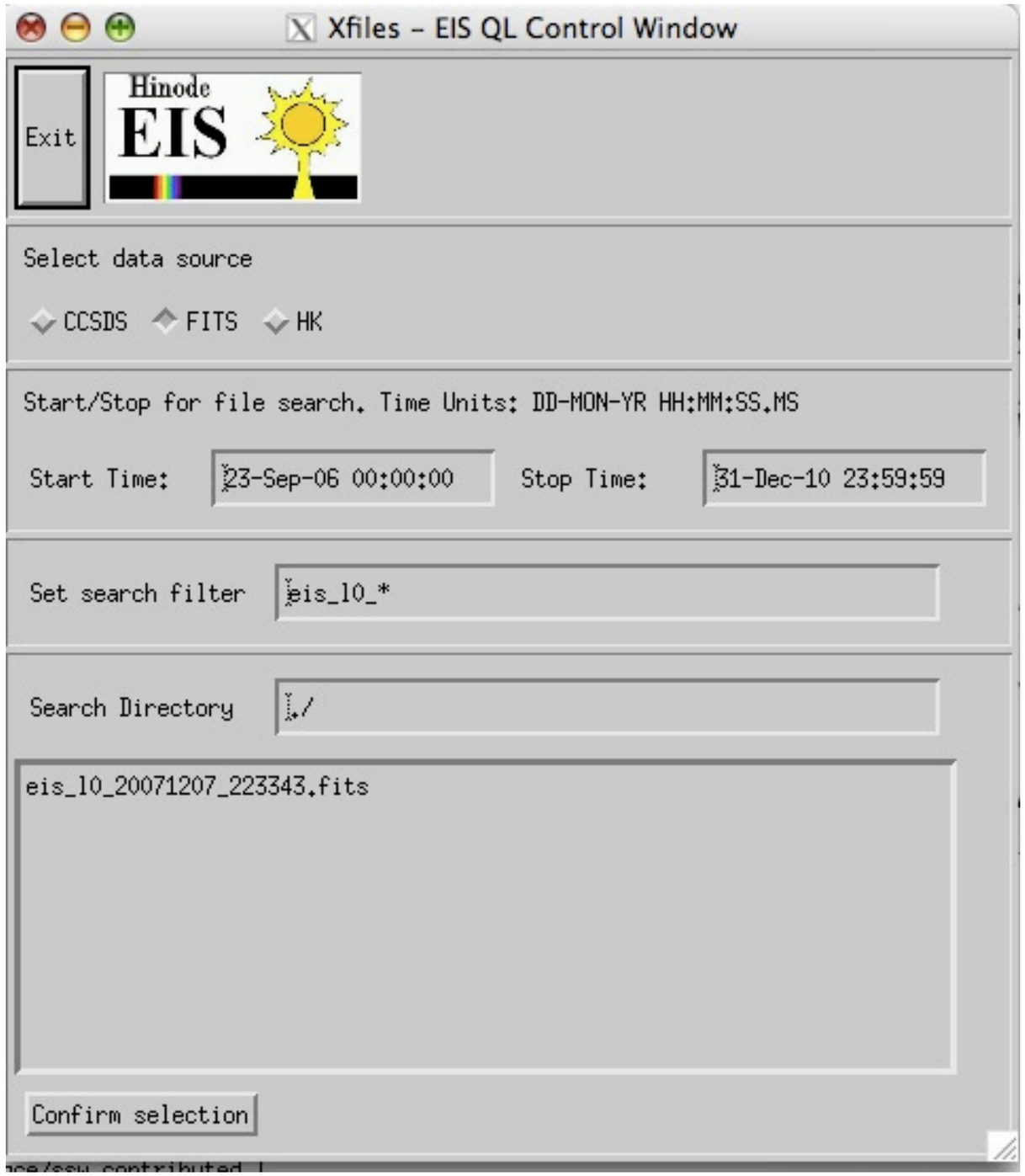
A quick overview over the EIS QL software

Viggo Hansteen, Institute of Theoretical Astrophysics,
University of Oslo

xfiles


Xfiles - EIS QL Control Window
Exit
Hinode
EIS
Select data source
CCSDS
FITS
HK
Start/Stop for file search, Time Units: DD-MON-YR HH:MM:SS.MS
Start Time:
23-Sep-06 00:00:00
Stop Time:
31-Dec-10 23:59:59
Set search filter
eis_l0_*
Search Directory
./
eis_l0_20071207_223343.fits
Confirm selection

xcontrol

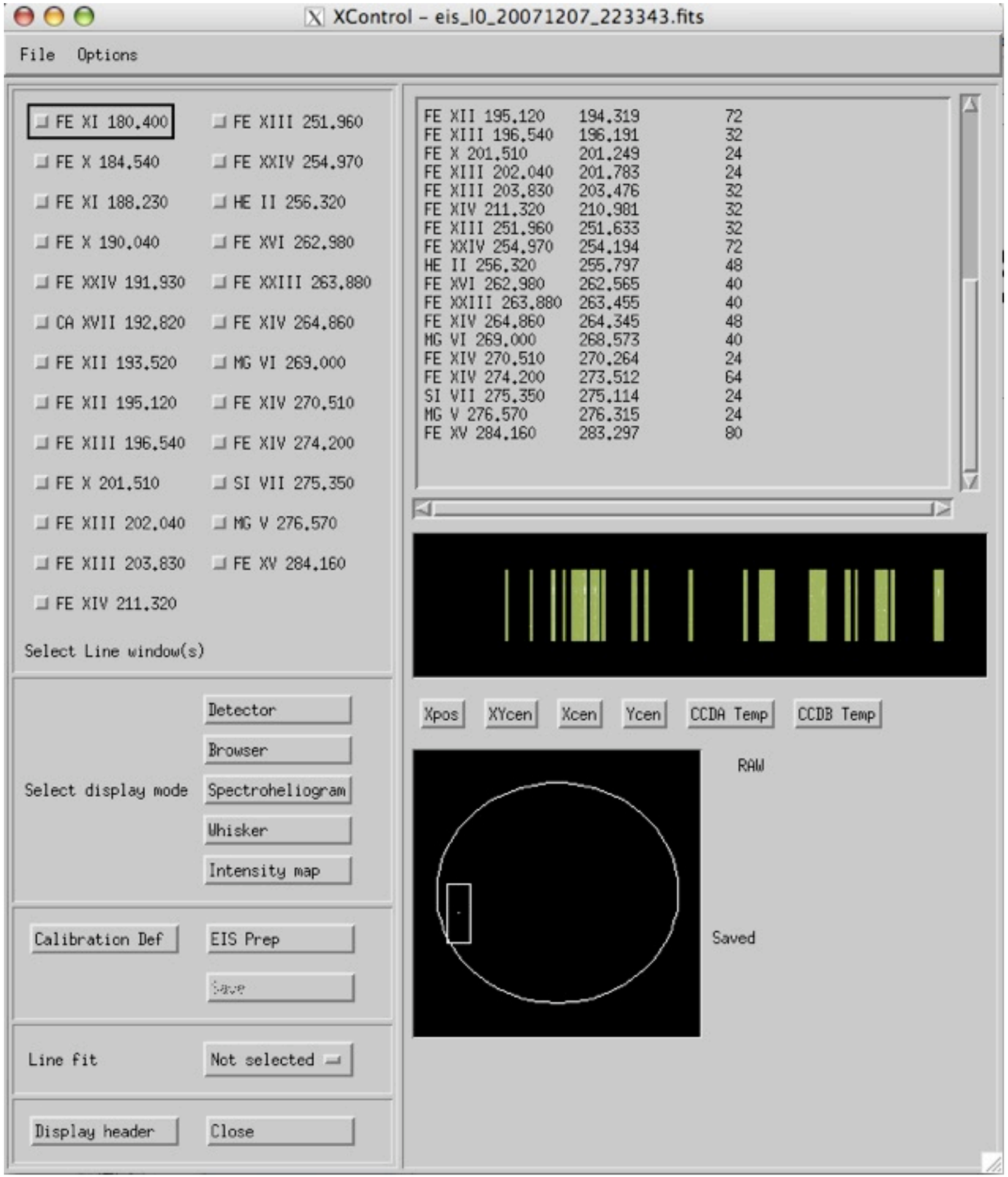
Line selection

Main display mode choice

data set information

EIS_prep

quick calculation of intensity, velocity, width



xcontrol

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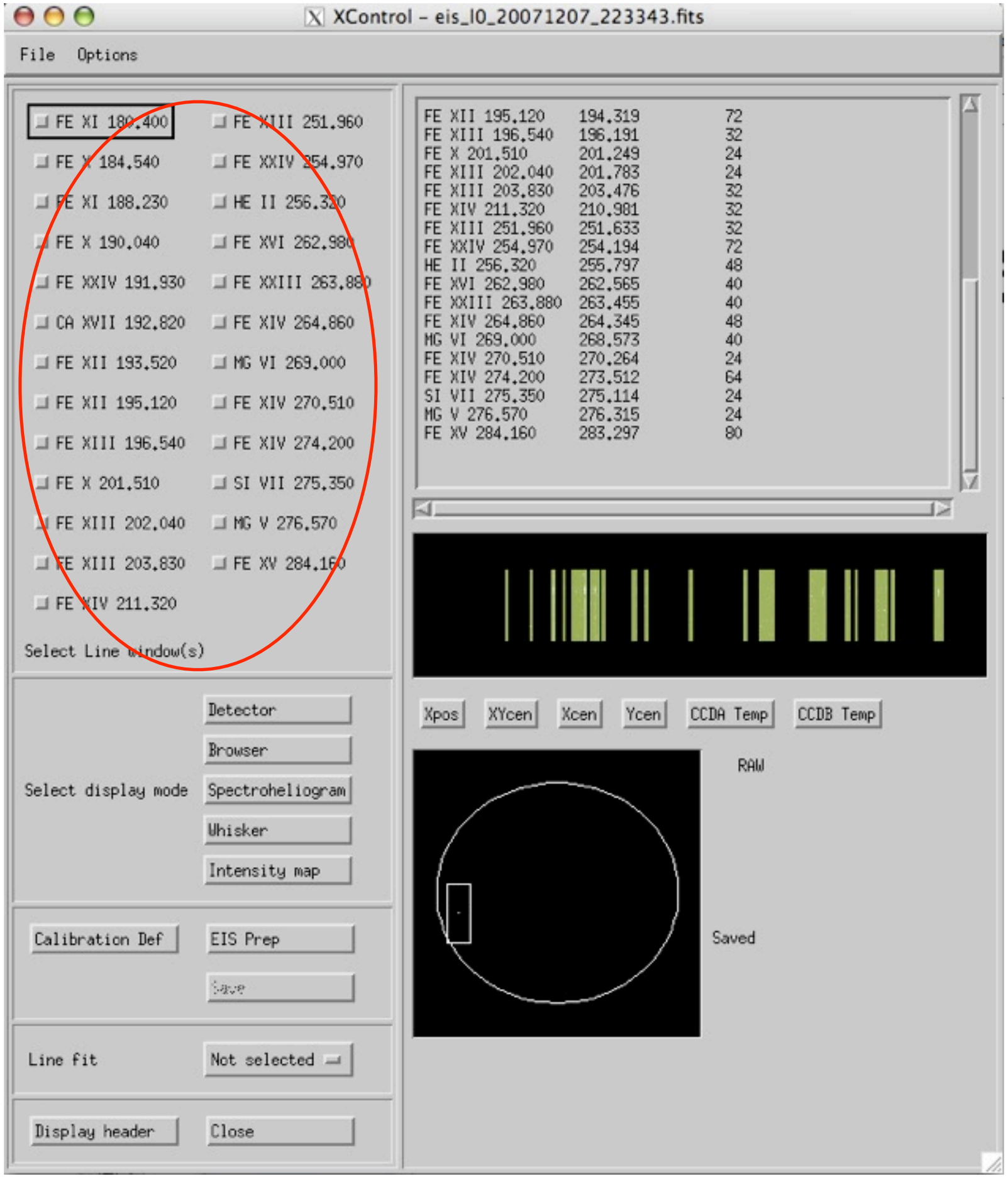

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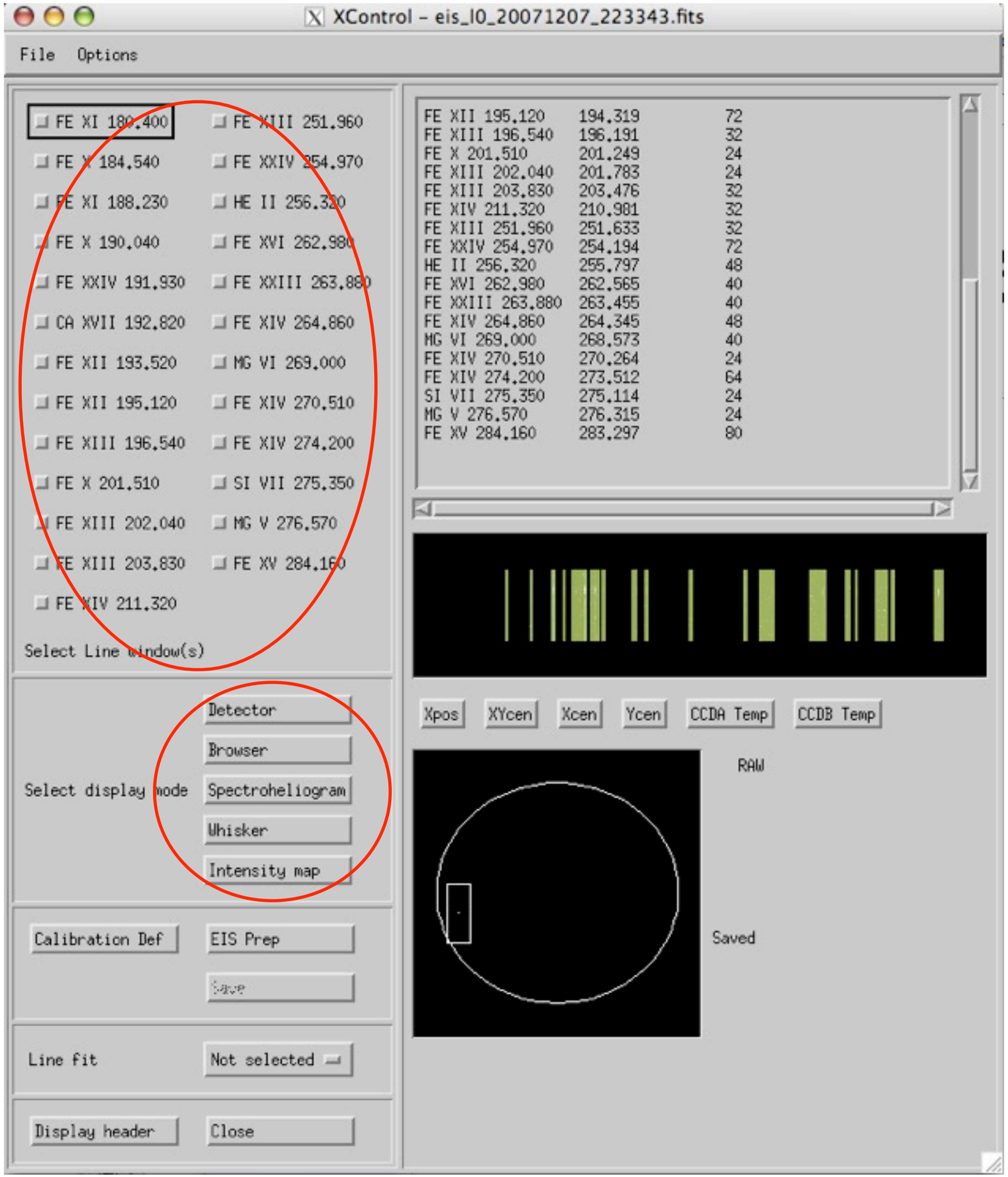

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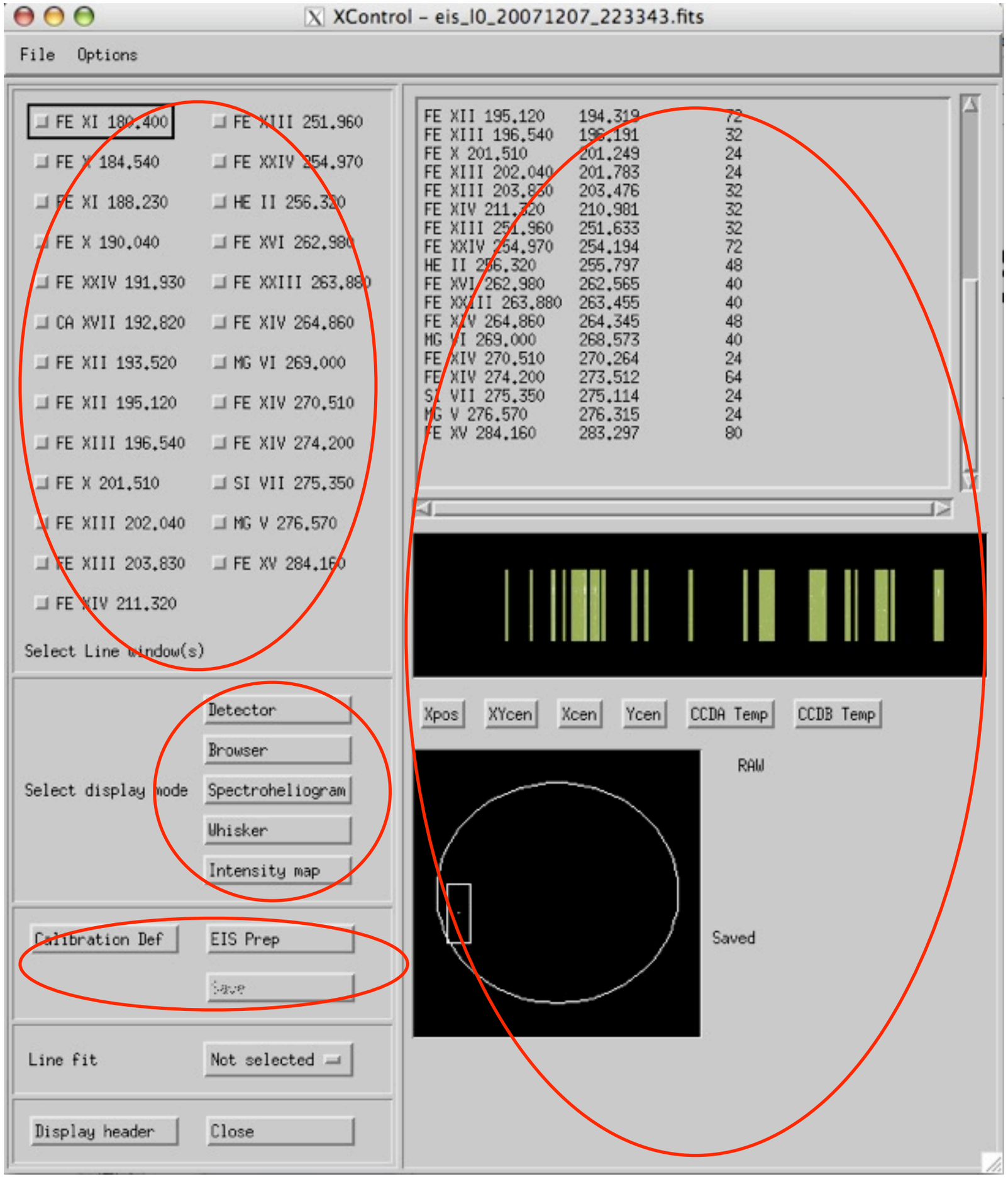

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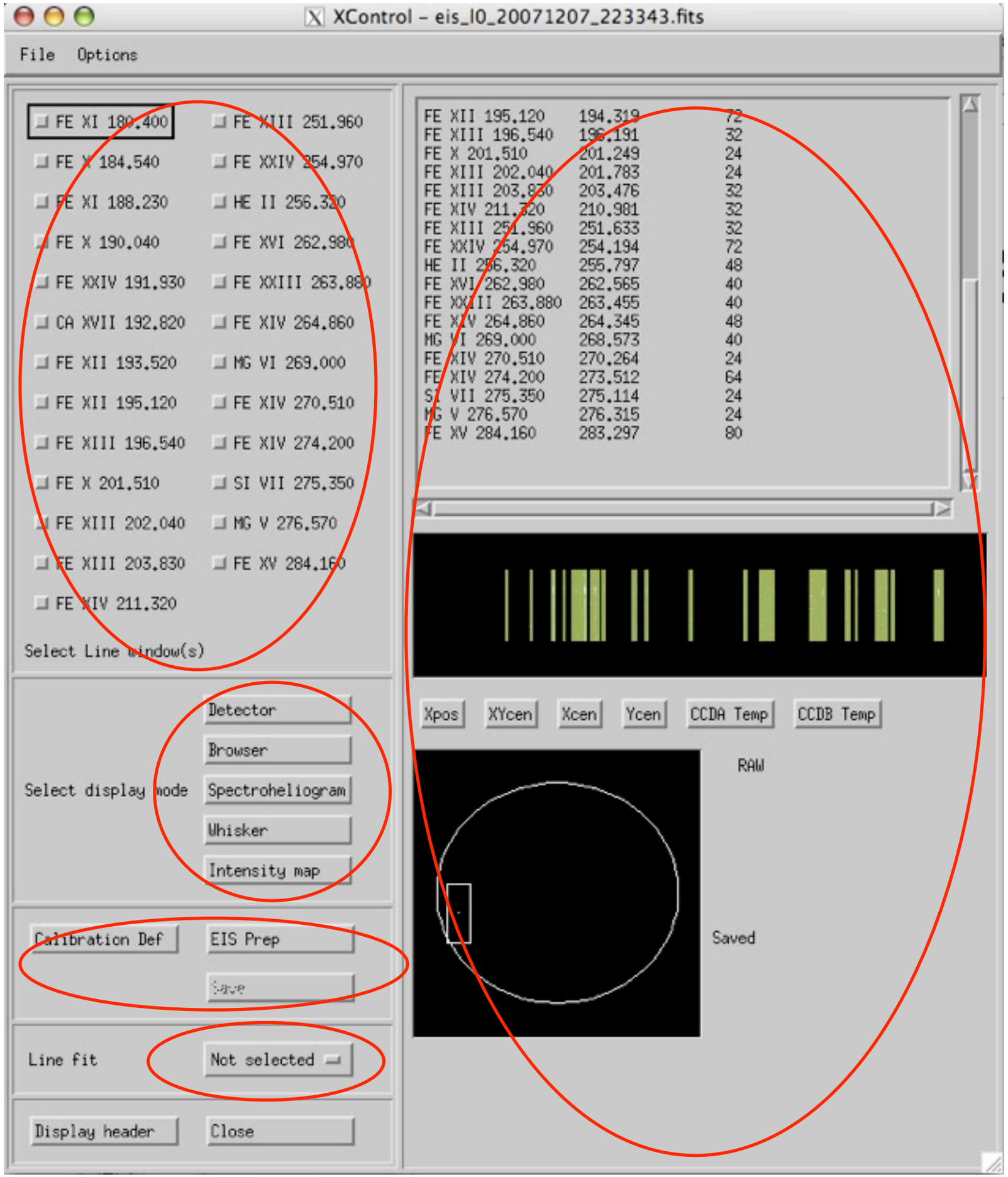
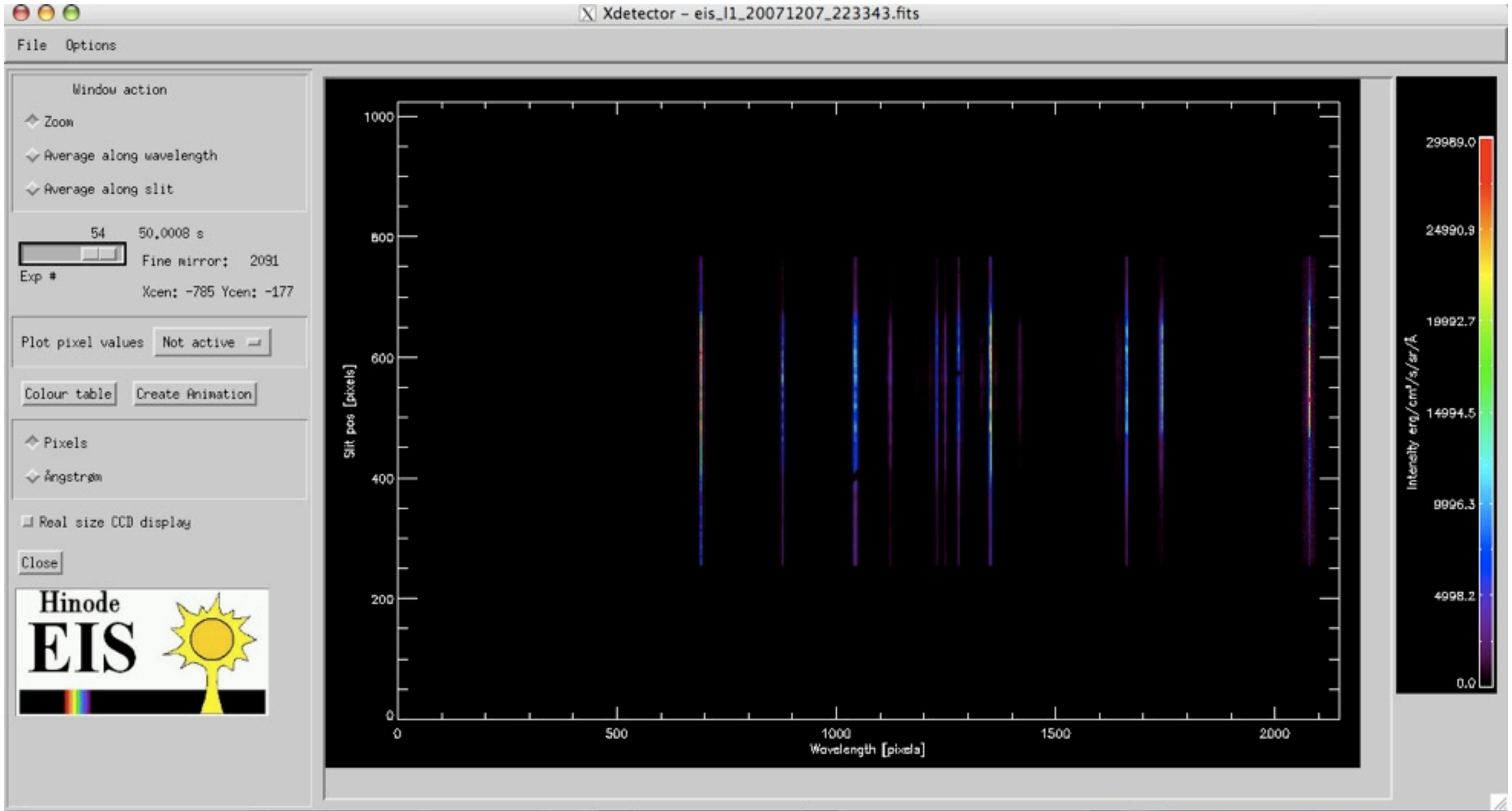
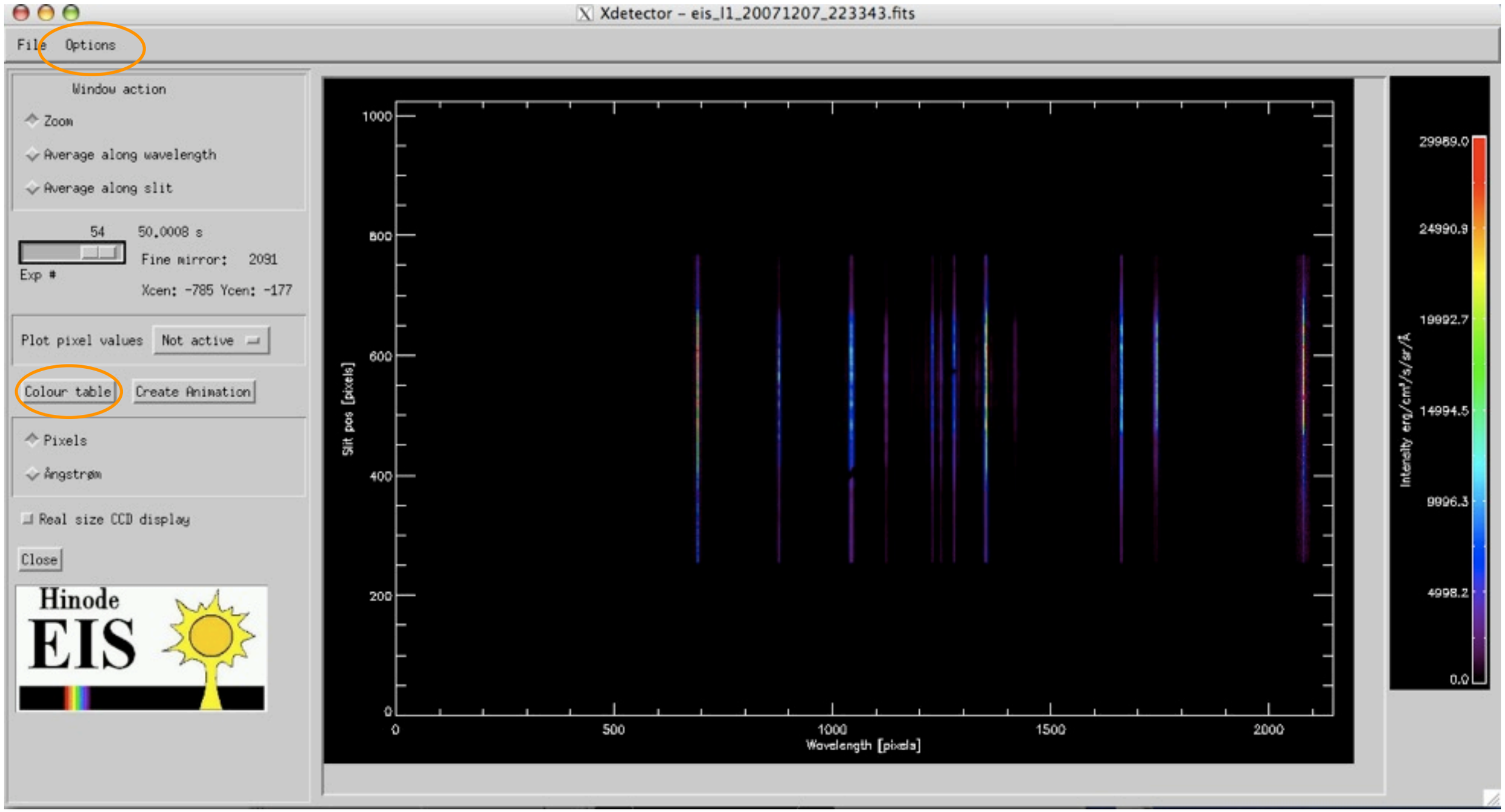


xdetector


Xdetector - eis_l1_20071207_223343.fits
File
Options
Window action
Zoom
Average along wavelength
Average along slit
54
50.0008 s
Exp #
Fine mirror: 2091
Xcen: -785 Ycen: -177
Plot pixel values
Not active
Colour table
Create Animation
Pixels
Ångstrøm
Real size CCD display
Close
Hinode
EIS
Slit pos [pixels]
Wavelength [pixels]
Intensity erg/cm²/s/sr/Å
29989.0
24990.9
19992.7
14994.5
9996.3
4998.2
0.0

xdetector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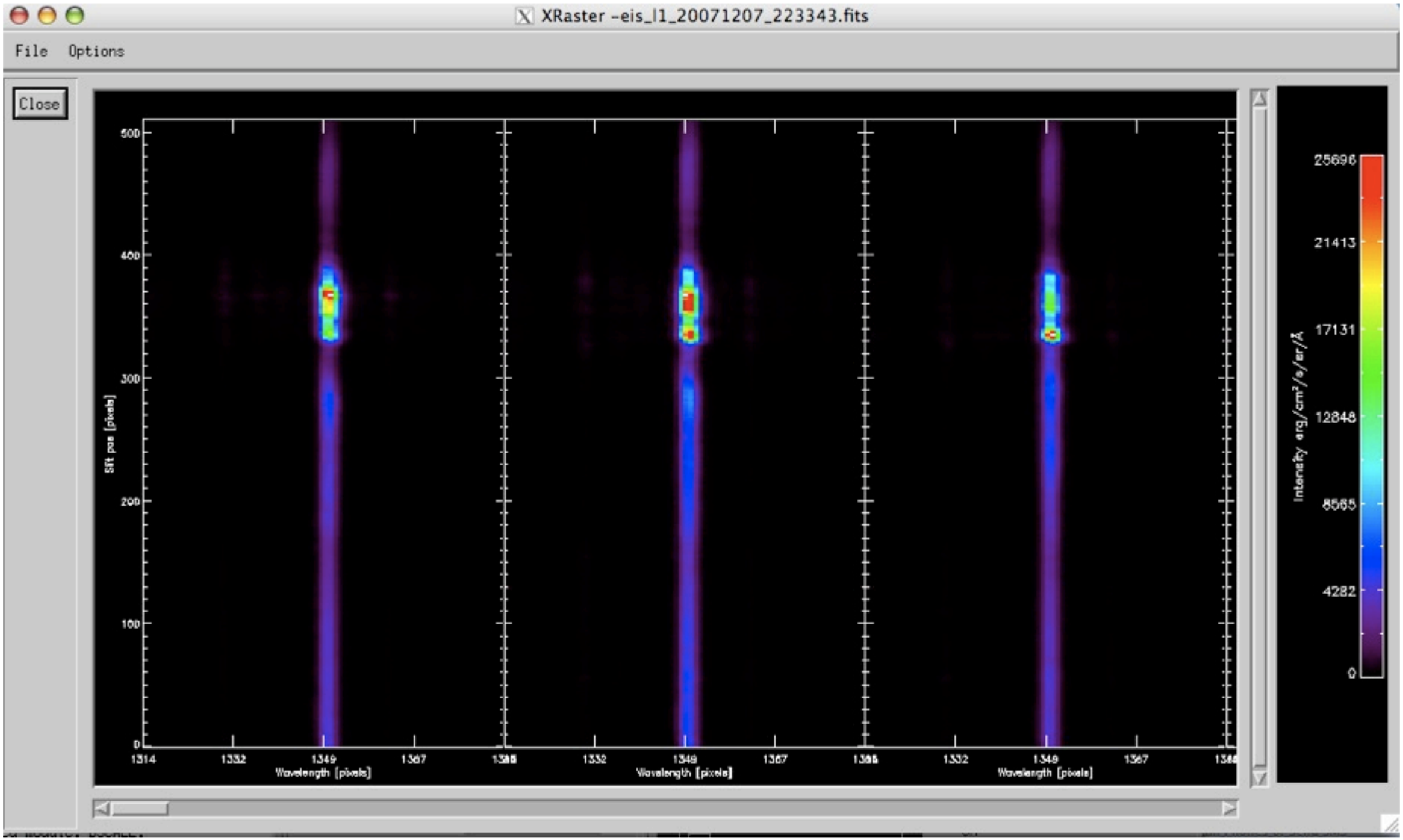
29989.0
24990.9
19992.7
14994.5
9996.3
4998.2
0.0

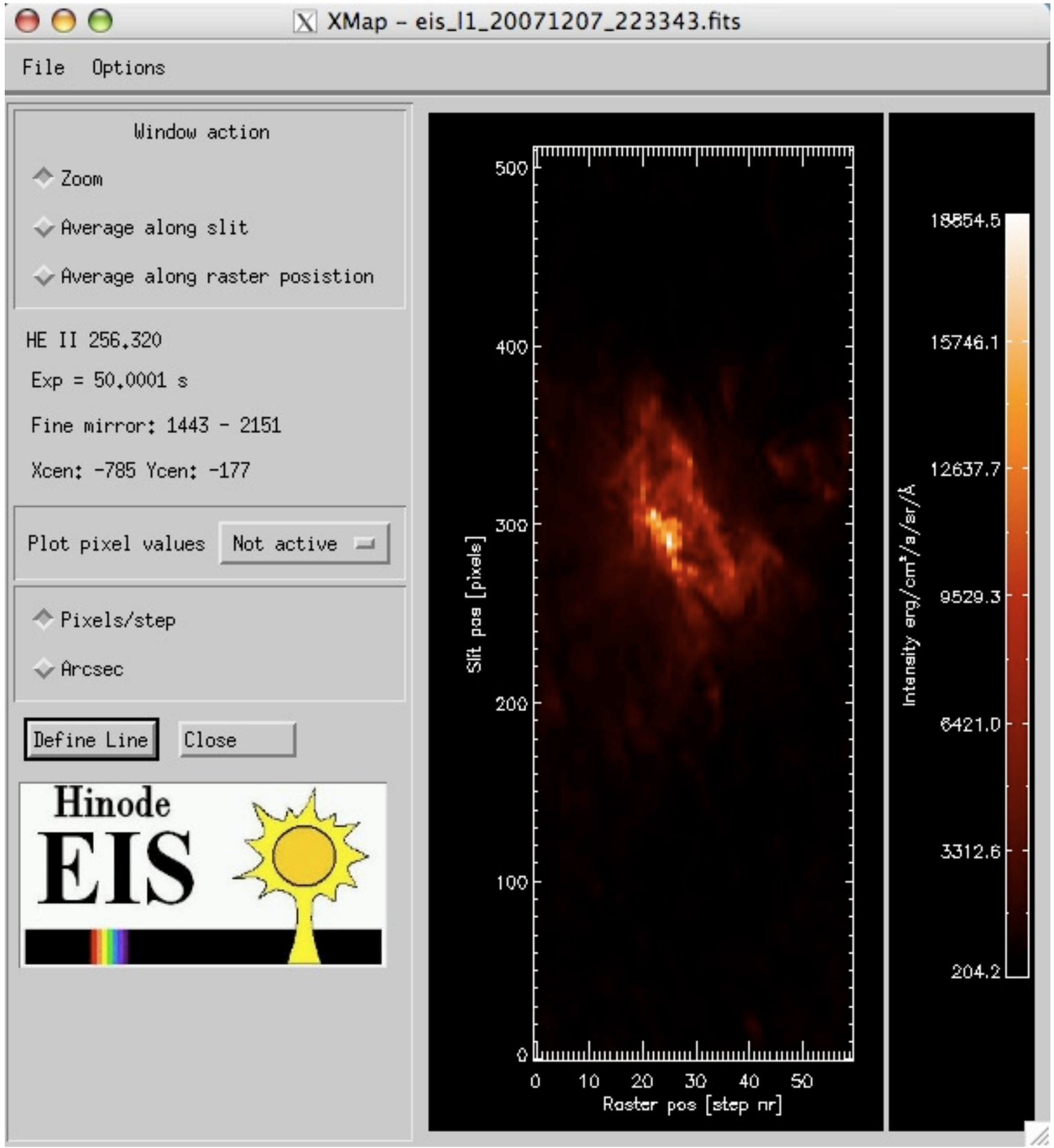
spectroheliogram



xmap

integrates over the line profile and displays resulting map

notice that the integration region and continuum subtraction region can be defined



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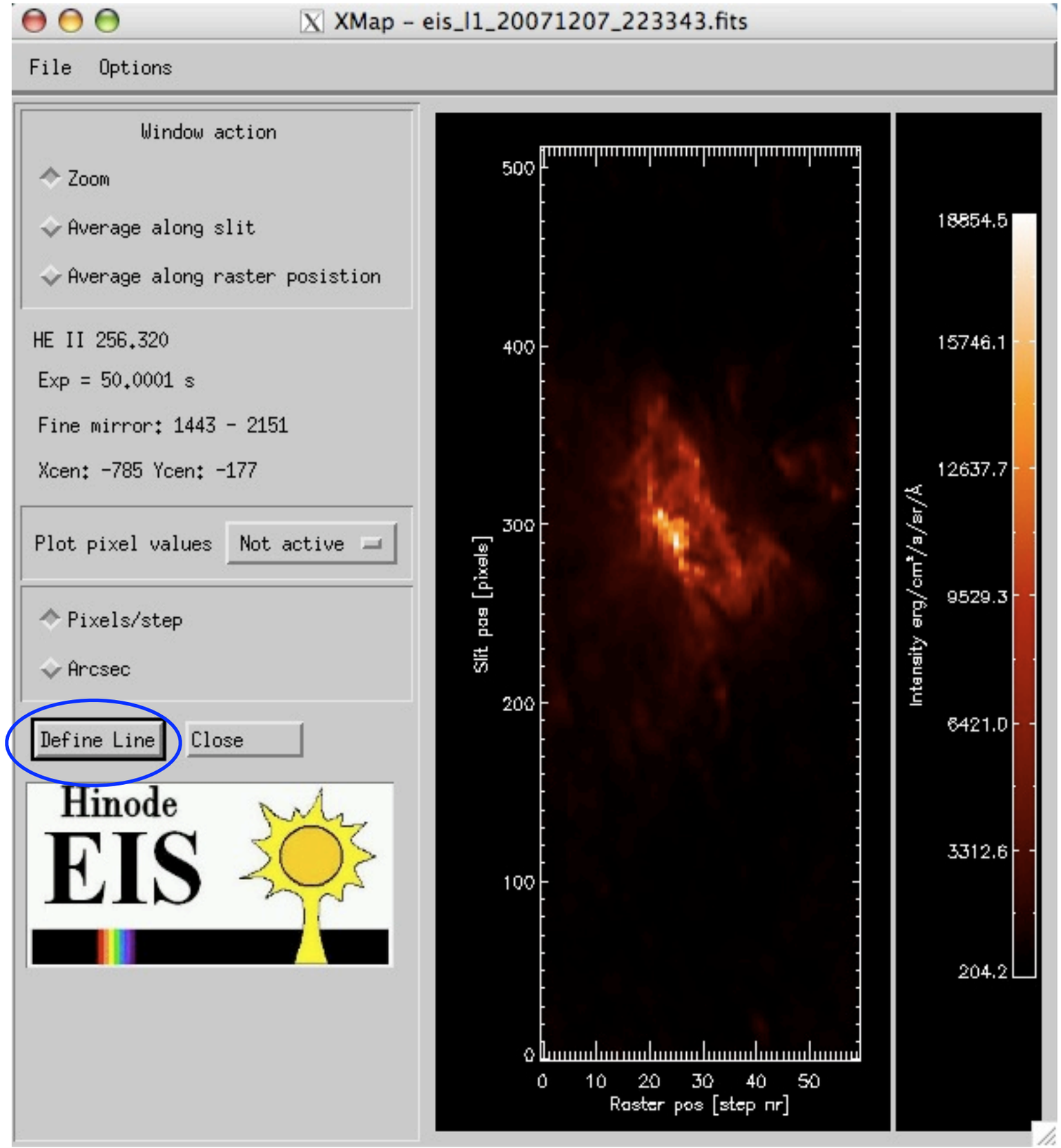
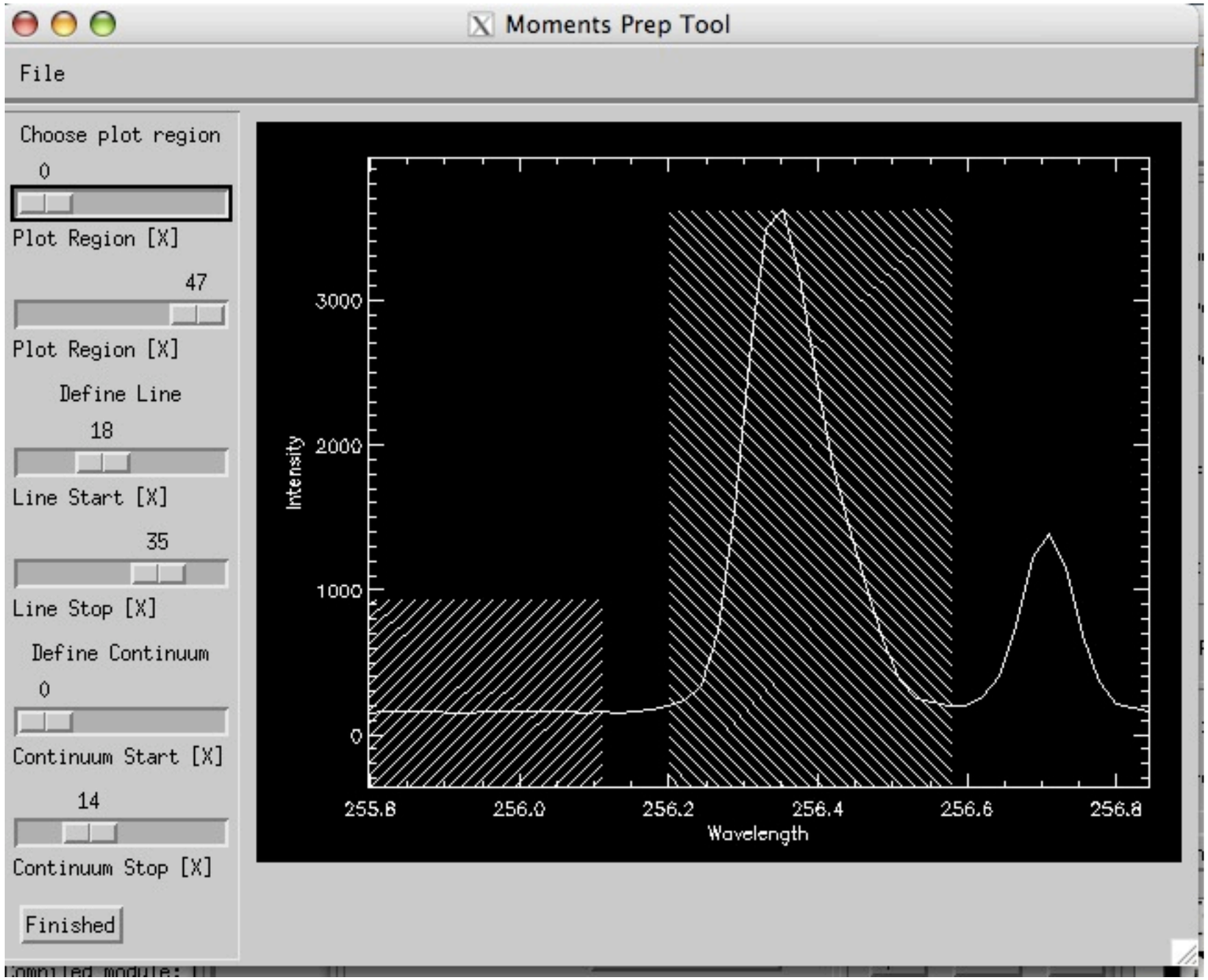
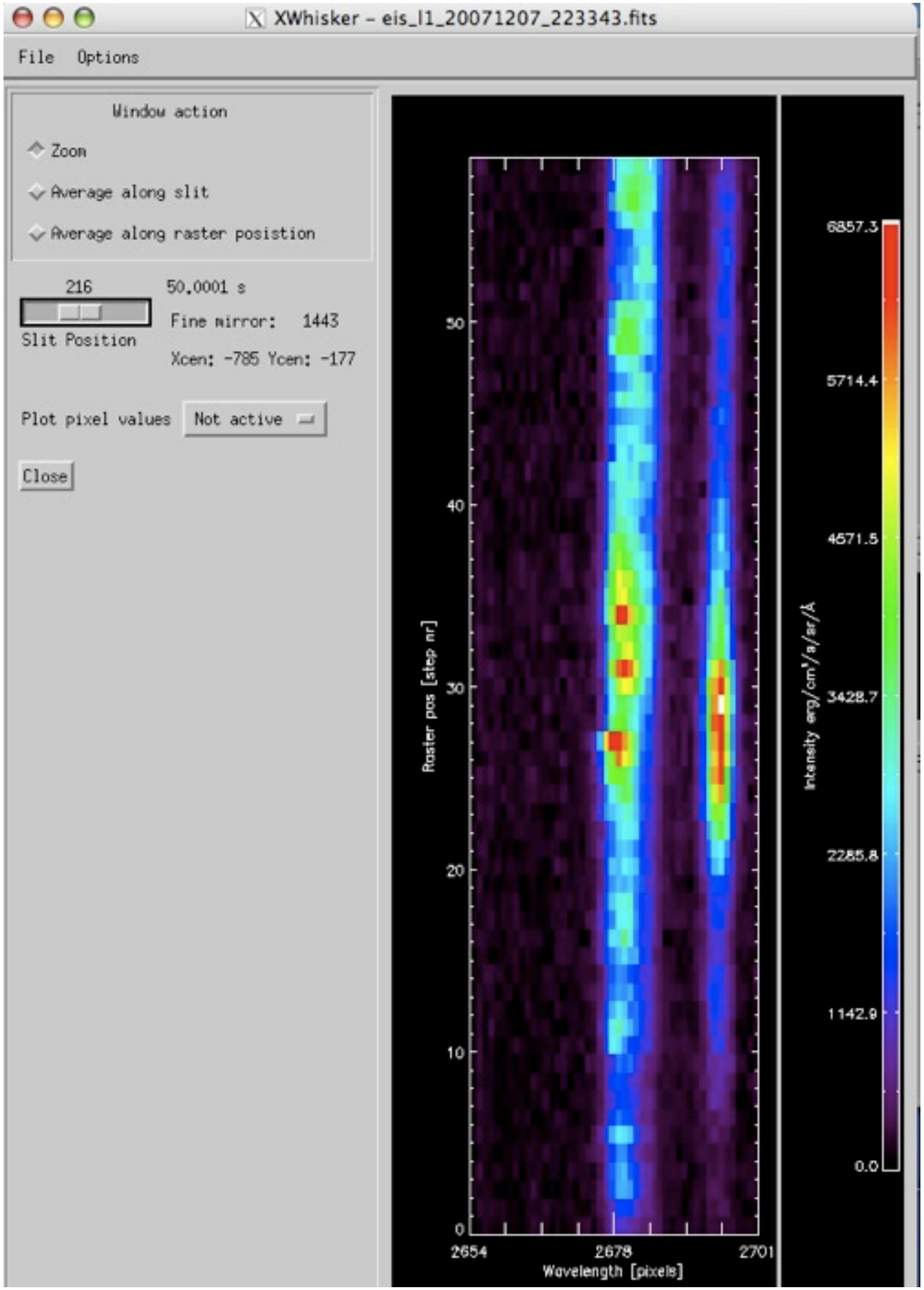


defining the line and continuum positions

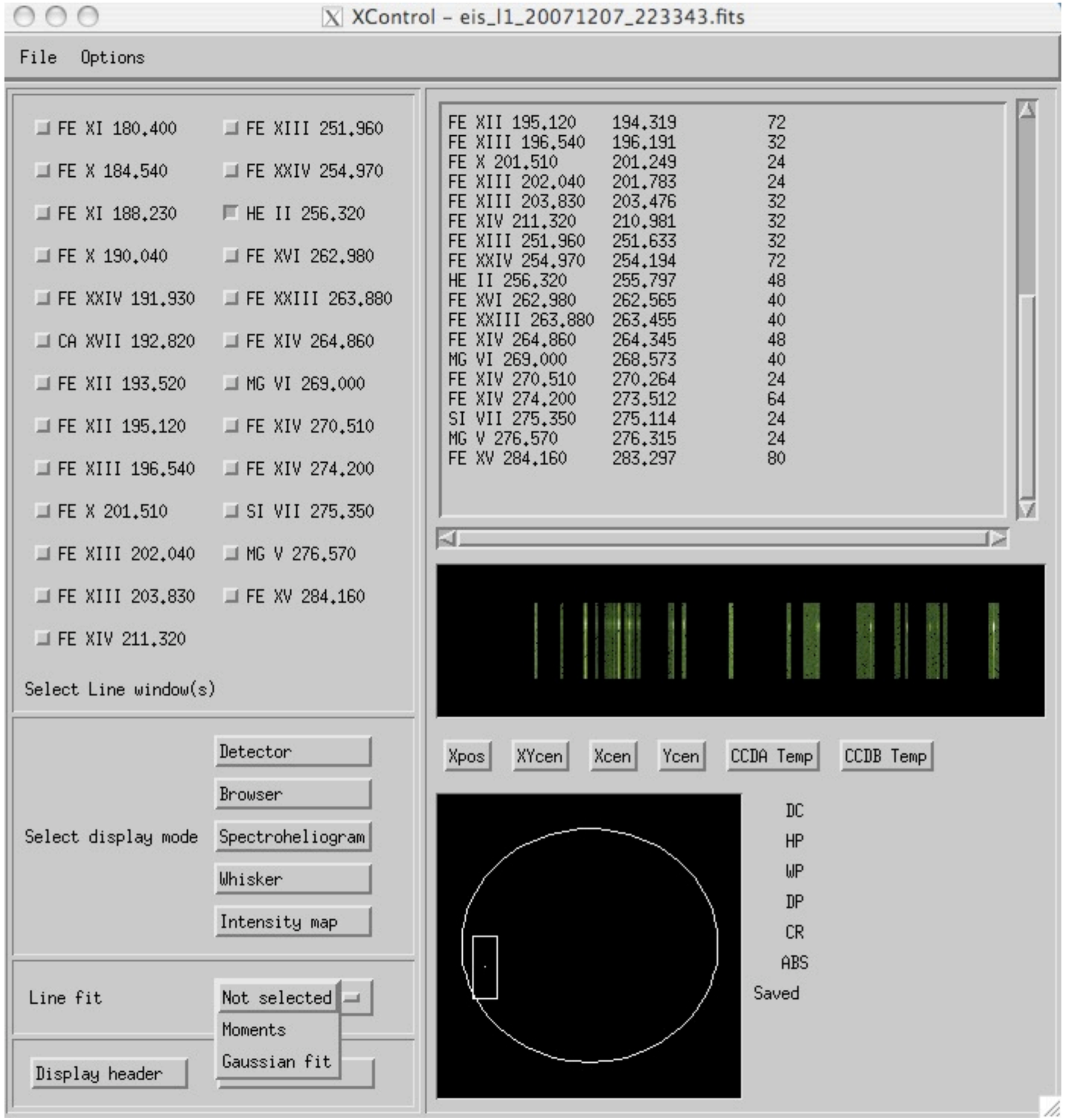


xwhisker

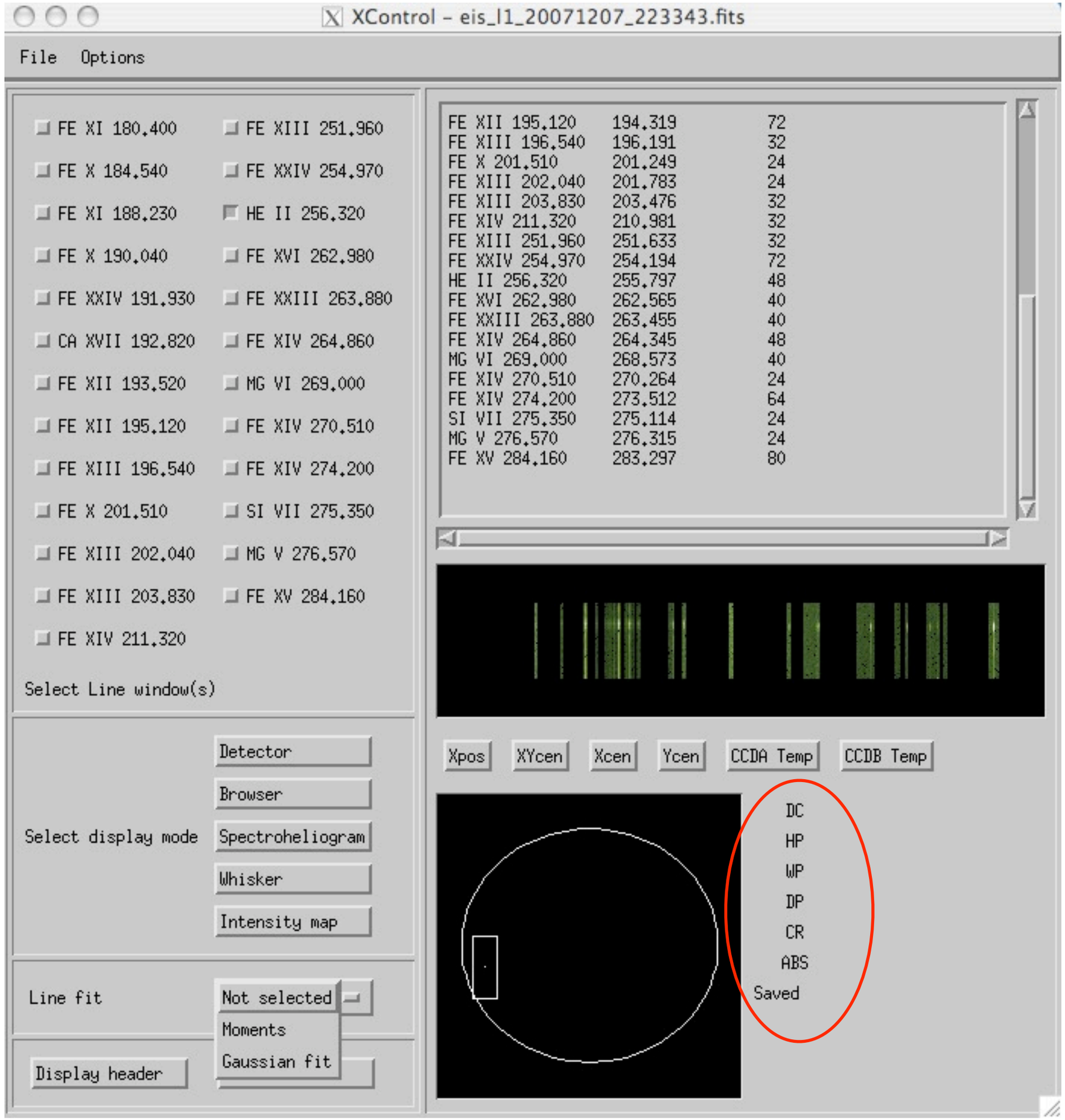
...view line profile at a given slit position as a function of time (or as a function of raster position)



xcontrol after EIS_prep

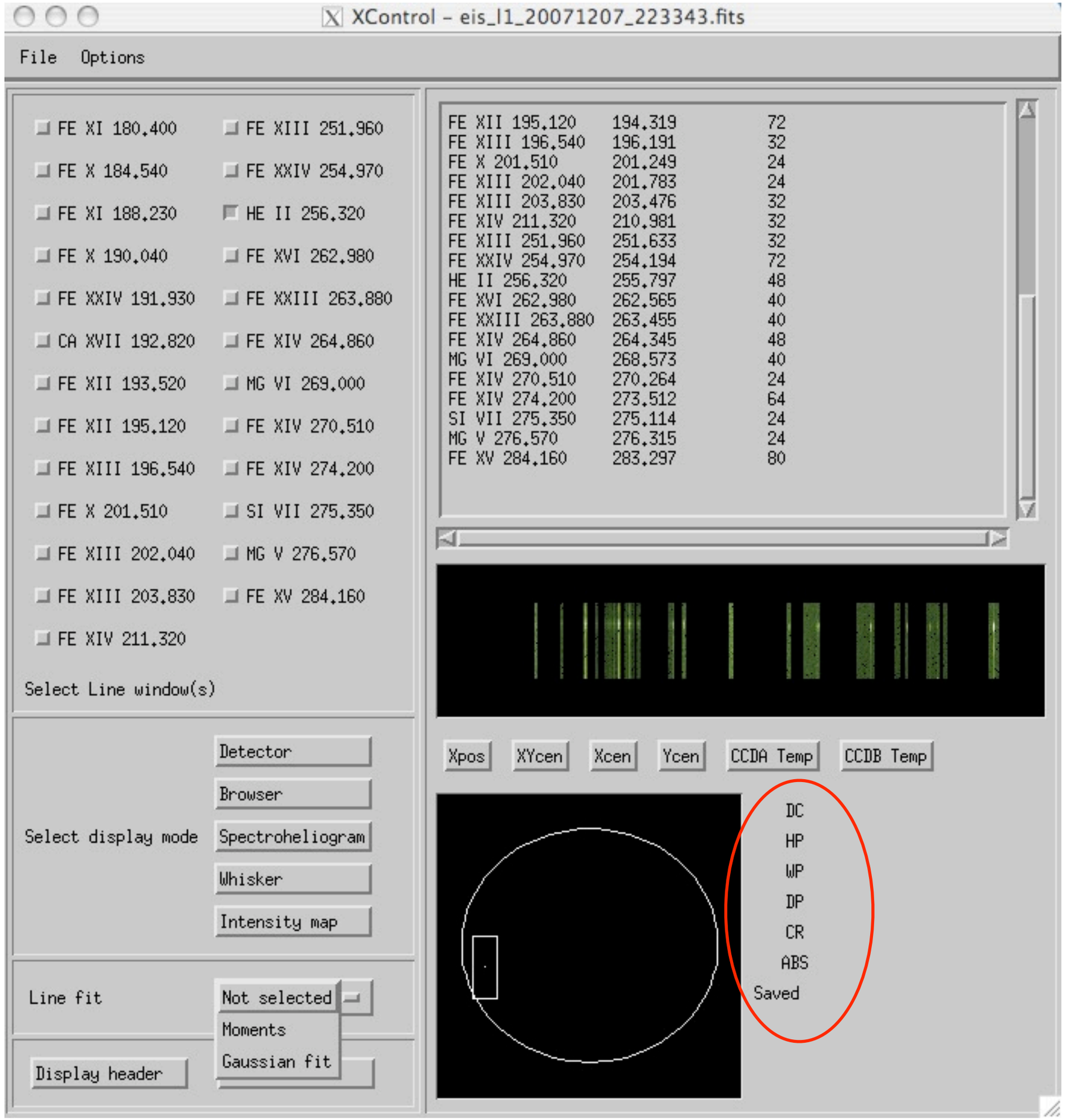


xcontrol after EIS_prep



xcontrol after EIS_prep

possibility of doing line fits with moments or Gaussian algorithm



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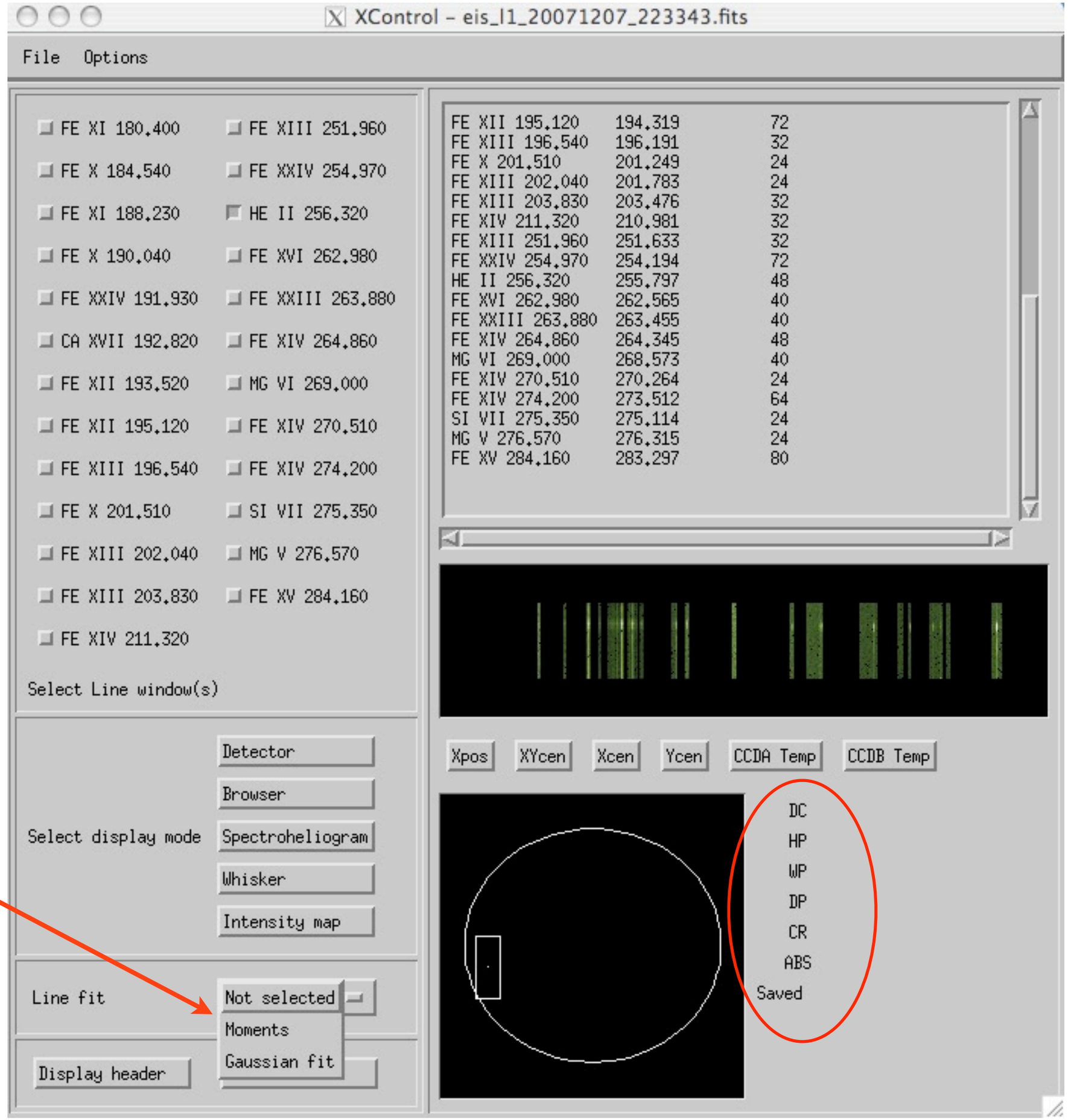

Hinode Science Data Centre Europe –

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Hinode Science Data Centre Europe

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Hinode (Sunrise in Japanese) is a project to study the Sun, led by the Japanese Aerospace Exploration Agency (JAXA) in collaboration with NASA, the Science & Technology Facilities Council (STFC), and the European Space Agency (ESA). Hinode is equipped with three solar telescopes (EIS, SOT and XRT), and was launched from Uchinoura Space Center on 22 September 2006 at 21:36 UT.

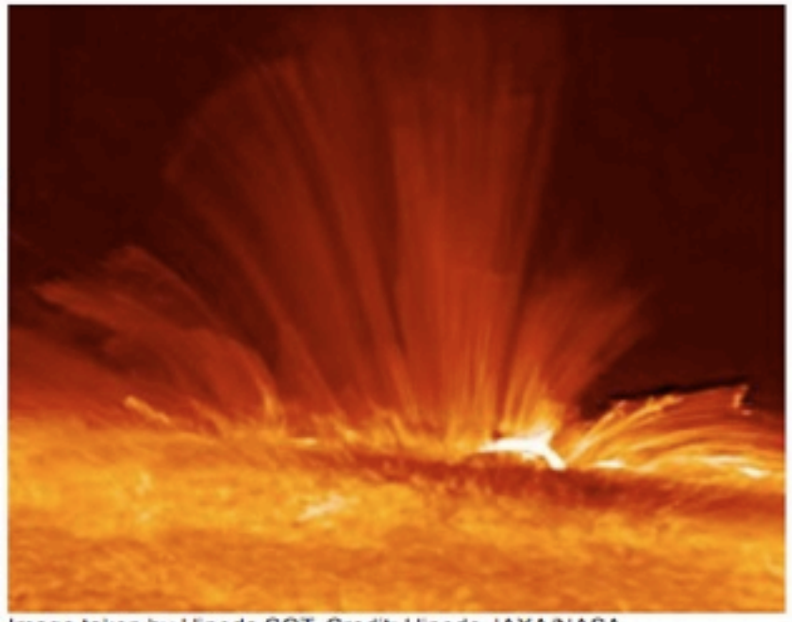

Image taken by Hinode SOT. Credit: Hinode JAXA/NASA

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- Take our user survey
- Read about the release of version 1.9

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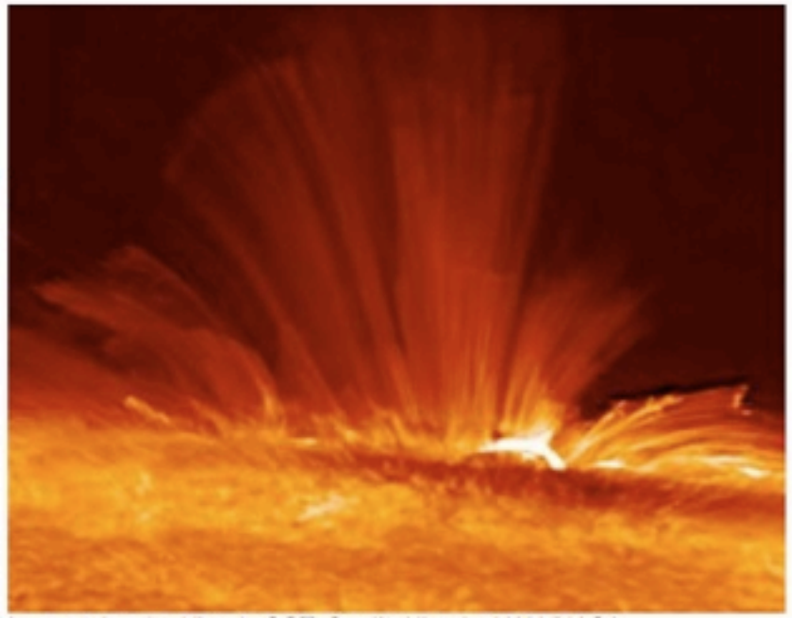

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Relevant links

Hinode SDC Europe – Archive Search – 6.523 million files, 2006/10/18—2009/07/12, v 1.9.2

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Hinode SDC Europe - Archive Search

6.523 million files, 2006/10/18—2009/07/12, v 1.9.2

65620 groups w/4097330 matching files (62.81% of all files) - 0.17 seconds.

Search | Reset | Full reset | TinyURL!

Instruments: ☐EIS ☐XRT ☐SOT(all) ☐SOT/NFI (SOT/NB) ☐SOT/BFI (SOT/WB) ☐SOT/SP

EPOCH_START :
EPOCH_END : +1.0 day
POINT_xy :
CEN_RADIUS :
FOVX :
FOVY :
MAX_RADIUS :
MIN_RADIUS :
XCEN :
YCEN :
EXPTIME :

STATUS:
Quicklook
Level 0

TR_MODE:
FIX
NA
TR1
TR2
TR3
TR4

Show fields:
FILE
INSTRUME
DATE_OBS
DATEPATH
SUBPATH
HOURPATH
FILESZ
GZFILESZ

☑ Auto-include search fields
☑ Show thumbnails

Archive status & news
2008/11/07: SOT/SP level 1/1D images available
2008/10/26: Version 1.9 released
2008/01/17: Quicklook files that have not been superseeded by Level 0 fil
automatically purged after about 20 days.

Quick hints

Each box like this forms a single criterion

- Blank/unfilled criteria are ignored
- There are ***no mandatory criteria***
- It's ***perfectly fine*** to select millions of files
- Used criteria (i.e. all boxes) are combined with AND
- Instrument-specific criteria only rejects among its 'own
- Enable tooltips & hover over a keyword/texbox for mor
- Criterion colour coding after checking w/server:

Blank/ignored | Used, ok | Orthogonal | Empty | Ma

'Orthogonal' criteria reject all files when combined with
criteria. 'Empty' criteria reject all possible files (separate

Examples/recommended searches

SOT/SP level 1/1D options

Show level 1 leads only

Continuum intensity
Long. apparent flux density
Transv. apparent flux density
Velocity (6301.5Å)
Stokes I [lines]/conti

Grouping: Fine
Sort order: DATE_OBS | Descending
Lines/page: 50

EIS line fit thumbs selection

Ca XVII 192.82Å
Fe XII 195.12Å
He II 256.32Å
Fe XI 180.40Å

... or max: 3

Maps: Velocity

More search criteria:

FITS | Plan | Quality | Misc | EIS | XRT | SOT

Save current criteria as: Search 1

Search | Reset | Full reset | Home | User Survey | Hinode Europe

Done