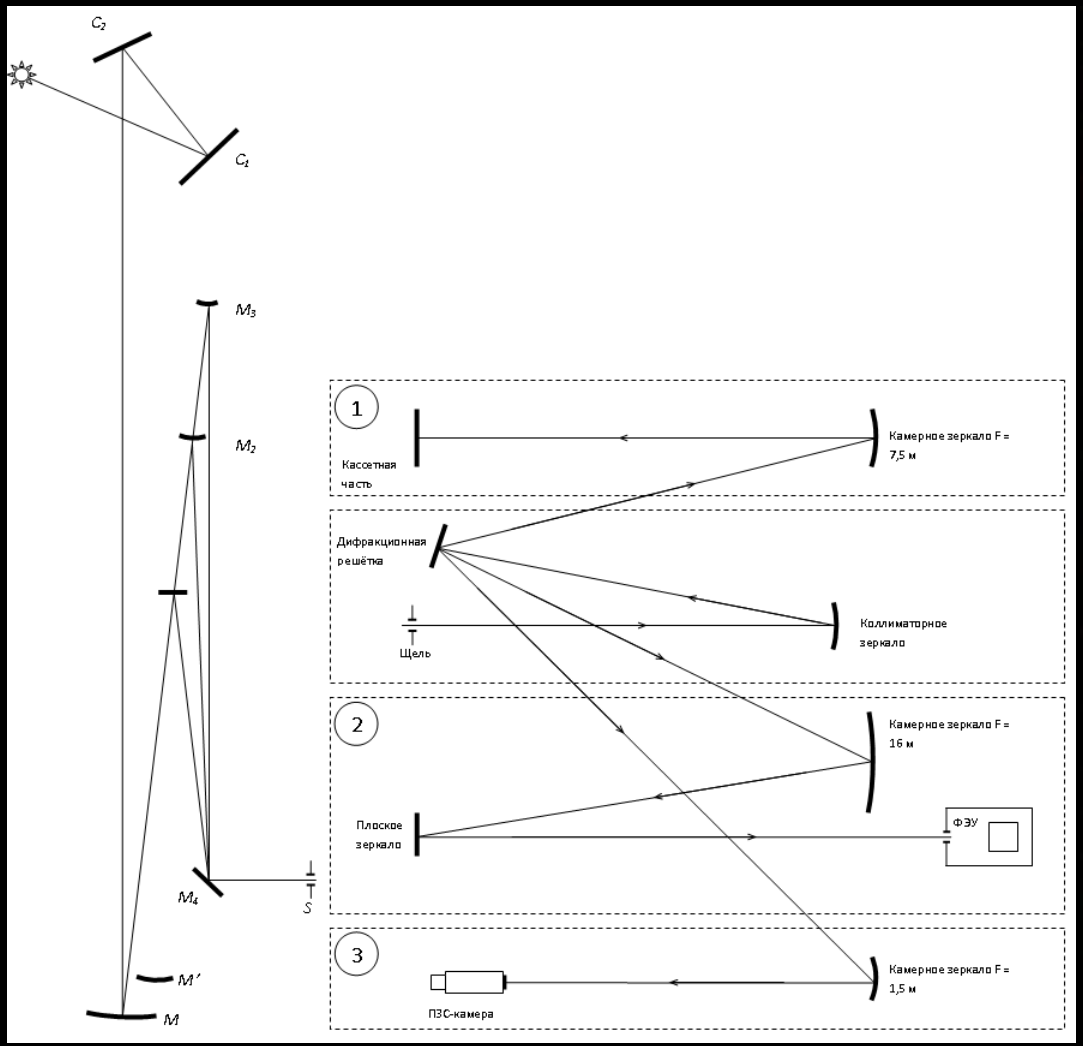
TST Spectra View – online service for solar images and spectra management

Roman K. Zhygalkin

Optical scheme of the telescope and spectrograph



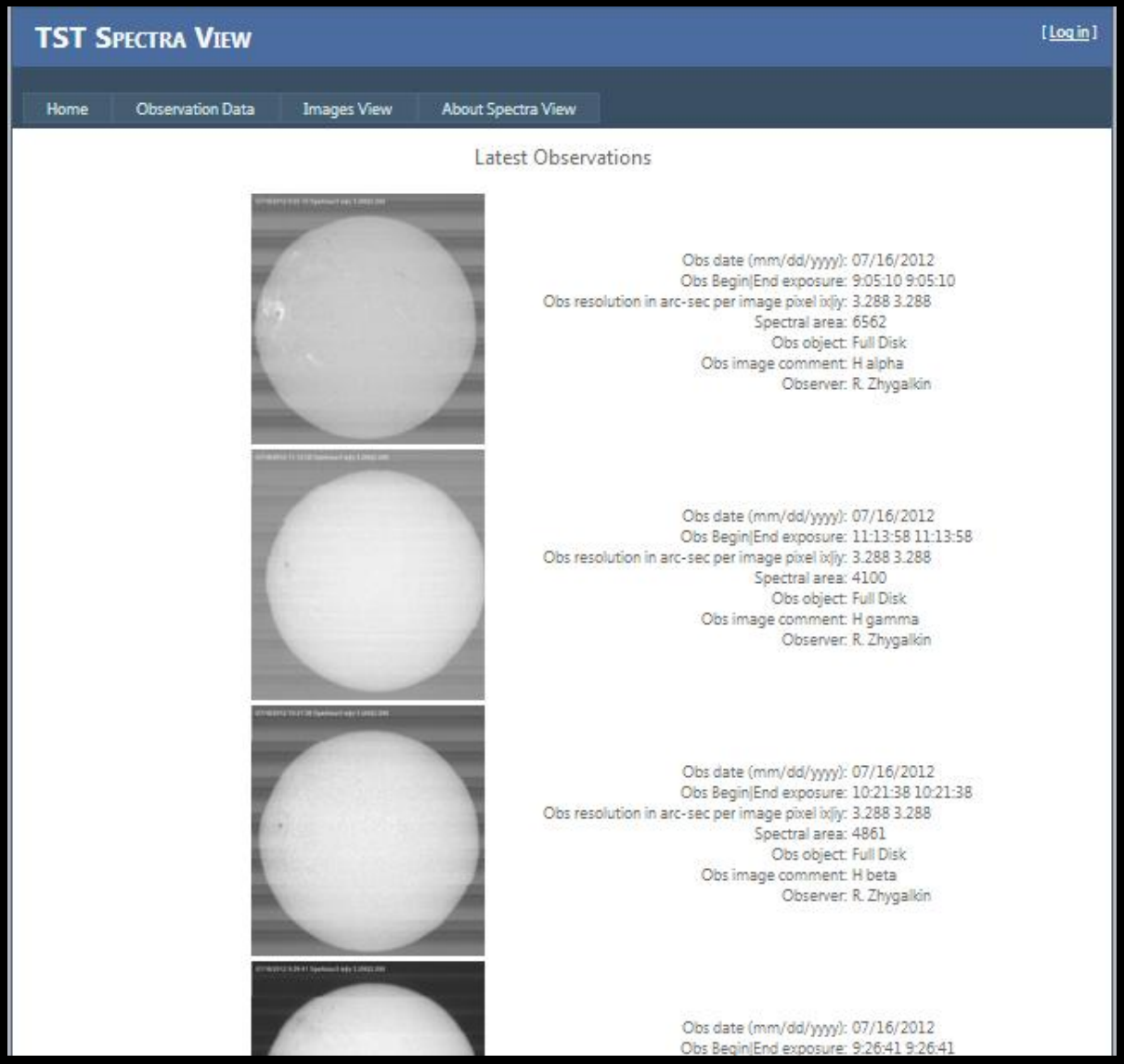
System features

• Primary mirror focal length	8 m
• Diffraction Grating	600 lines/mm
• Focal length of the collimator and camera's mirror	7.5 m and 1.5 m
• CCD	VS-CTT-249-200
• Number of effective pixels	768 (H) × 584 (V)
• Elementary step of the system	1.664 arcsec
• Visible spectrum :	
spectral window	~ 19.5 Å
spectral resolution	0.027 Å/pix
• NIR:	
spectral window	~ 28 Å
spectral resolution	0.039 Å/pix

The solar image in the HeI 10830Å line

Sunspot spectra in the HeI 10830Å area

Main page TSTSpectraView



Observations search page

TST SPECTRA VIEW

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Search Data (mm/dd/yyyy)

From: 06/20/2011 To: 01/27/2013 Search Data

Select	ID	ObsDate	Spectral area	ObsObject	Obs Resol (arc-sec/pix)	Obs begin/end	ImageSize (pix)
☐	30	06/21/2012 00:00:00	10830	Full Disk	4.932 4.932	7:38:01 7:38:01	405 x 441
☐	31	07/16/2012 00:00:00	6562	Full Disk	3.288 3.288	9:05:10 9:05:10	609 x 658
☐	32	07/16/2012 00:00:00	4100	Full Disk	3.288 3.288	11:13:58 11:13:58	609 x 658
☐	33	07/16/2012 00:00:00	4861	Full Disk	3.288 3.288	10:21:38 10:21:38	609 x 658
☐	34	07/16/2012 00:00:00	10830	Full Disk	3.288 3.288	9:26:41 9:26:41	609 x 658
☐	36	07/12/2012 00:00:00	10830	Full Disk	9.864 9.864	10:34:36 10:34:36	203 x 217
☐	37	07/12/2012 00:00:00	10830	Full Disk	6.576 6.576	10:44:31 10:44:31	303 x 329
☐	38	06/26/2012 00:00:00	6562	Full Disk	3.288 3.288	7:53:23 7:53:23	608 x 658

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Designed and developed by Roman K. Zhygalkin (c) 2013

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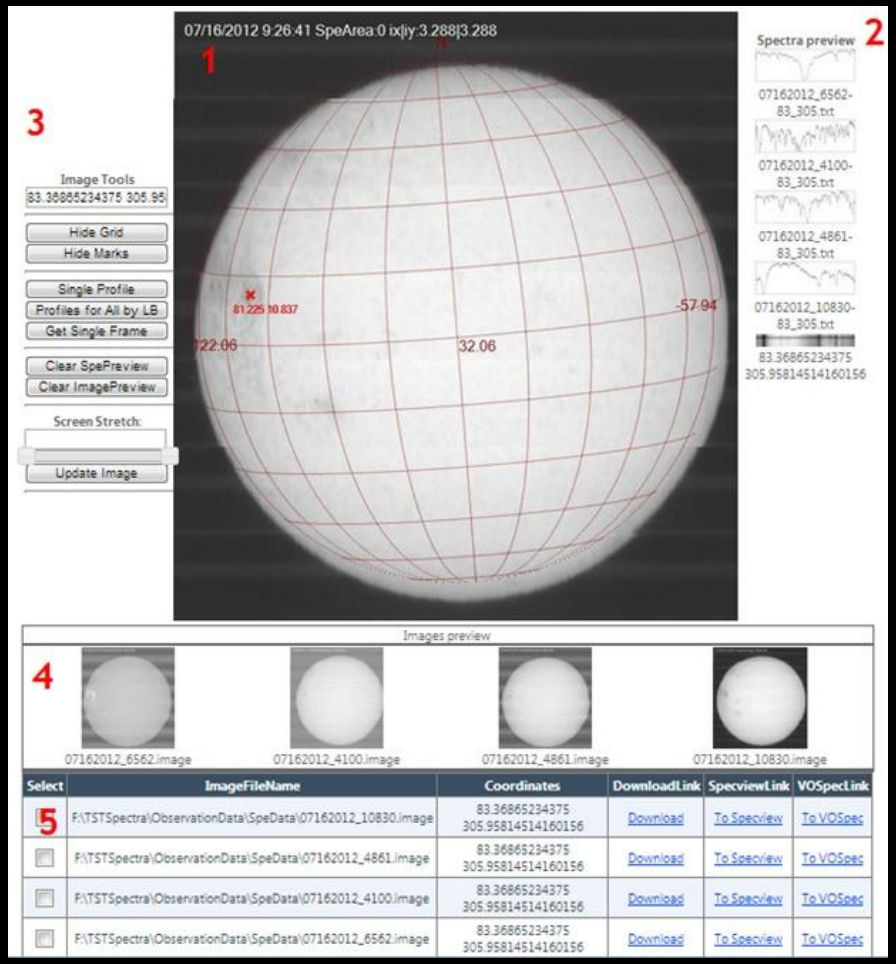
TST Spectra View service



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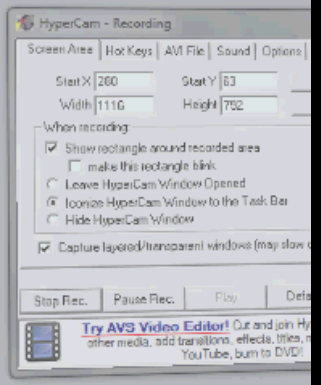
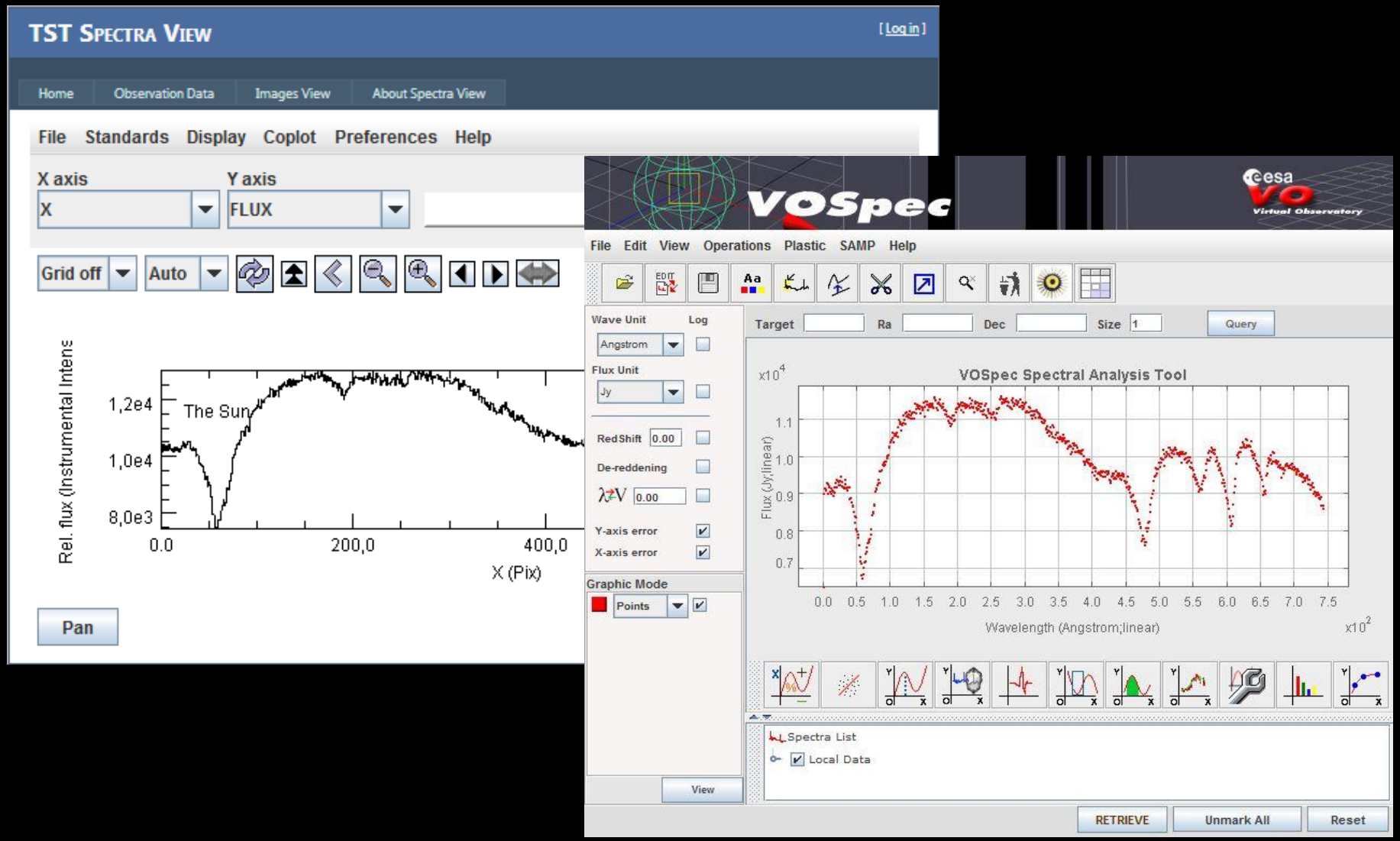


Redirecting data into the other applications (Specview, VOSpec)



Further development of the service

- Using another solar images in our service
- Creating a time series of various parameters for the selected solar formations using heliographic coordinates
- Online construction of the solar images (distribution of radial velocities, equivalent widths, etc.)

Thank you for your attention!