

Hvar Observatory



Faculty of Geodesy
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Double Solar Telescope at Hvar



Double Solar Telescope at Hvar

- Consists of two Carl Zeiss refractors (photospheric telescope $d=217\text{mm}$, chromospheric telescope $d=130\text{mm}$) mounted as one unit on a German parallax mounting
- Aim to produce high resolution images of active regions on the Sun
- Pullnix TM-4200GE 12-bit CCD cameras allow time series with a cadence up to 30 images per minute (valuable tool to study rapid changes of chromospheric and photospheric features)



Double Solar Telescope at Hvar



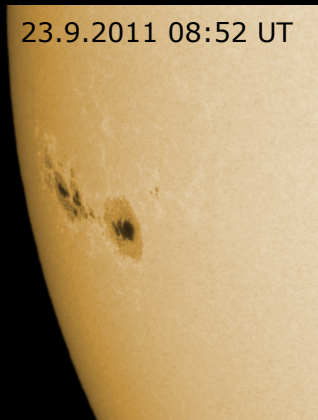
Telescope control room



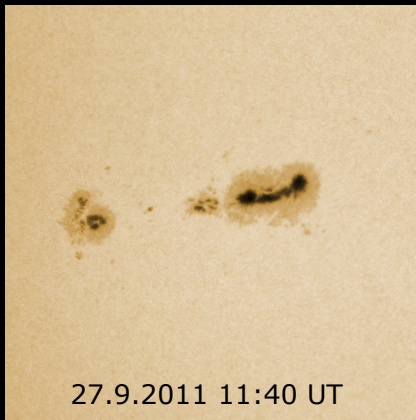
New acquisition system

Hvar Solar Telescope

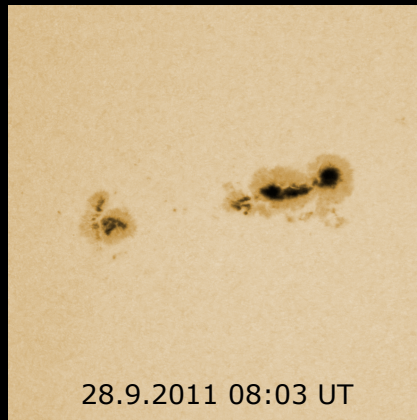
23.9.2011 08:52 UT



27.9.2011 11:40 UT



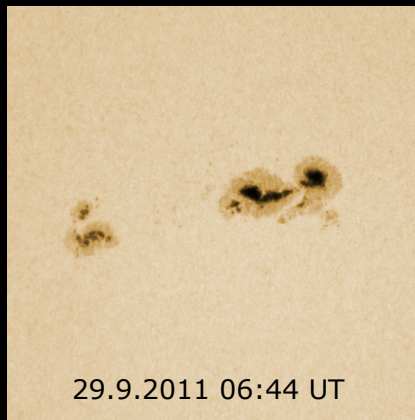
28.9.2011 08:03 UT



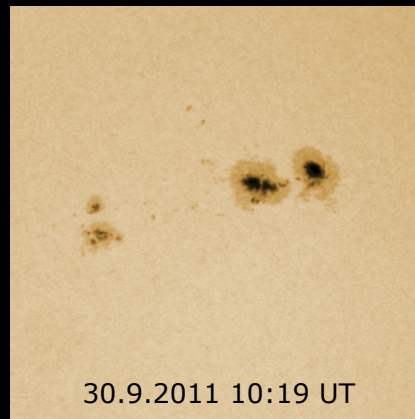
**Photospheric
observations
(white light)**

**Evolution of
Sunspot group
11302**

29.9.2011 06:44 UT



30.9.2011 10:19 UT

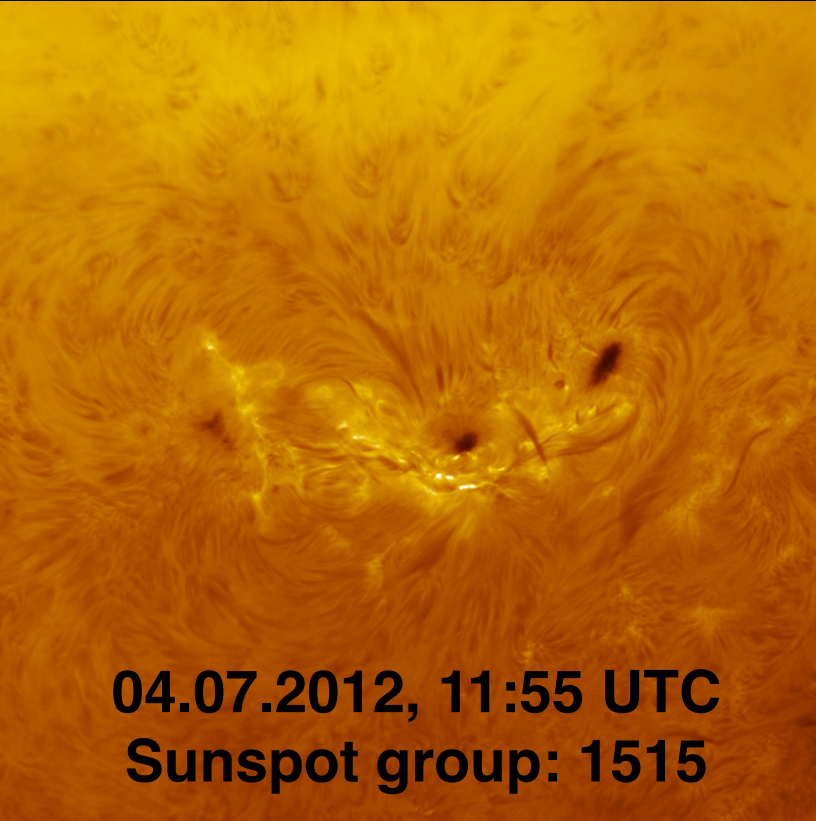


03.10.2011 07:39 UT



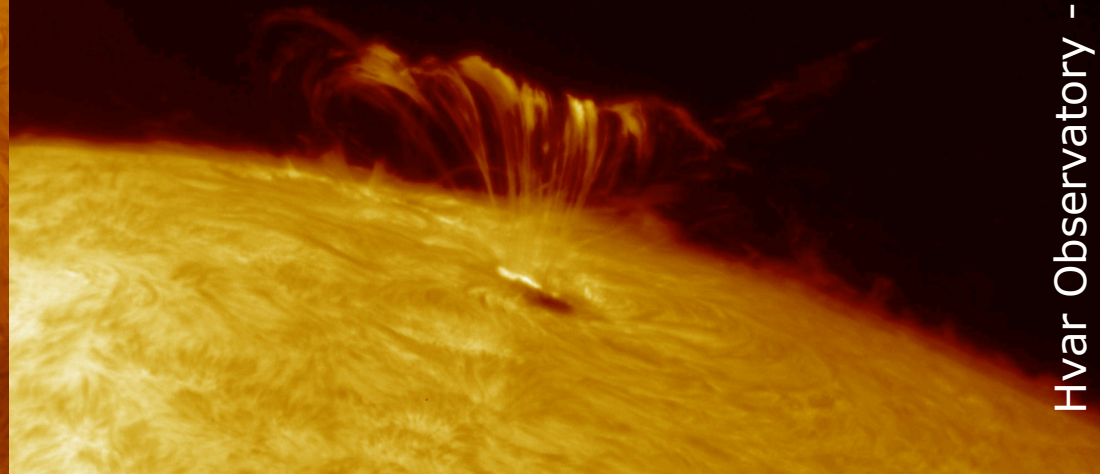
Hvar Solar Telescope

Chromospheric observations ($H\alpha$)



04.07.2012, 11:55 UTC
Sunspot group: 1515

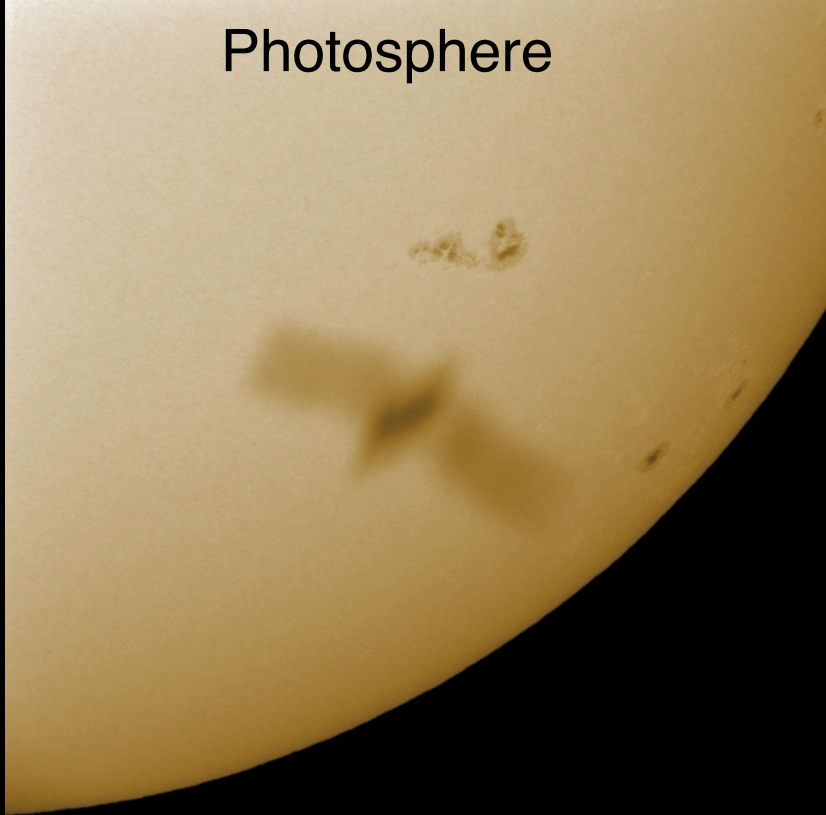
22.09.2011, Solar flare (X1.4),
sunspot group 11302



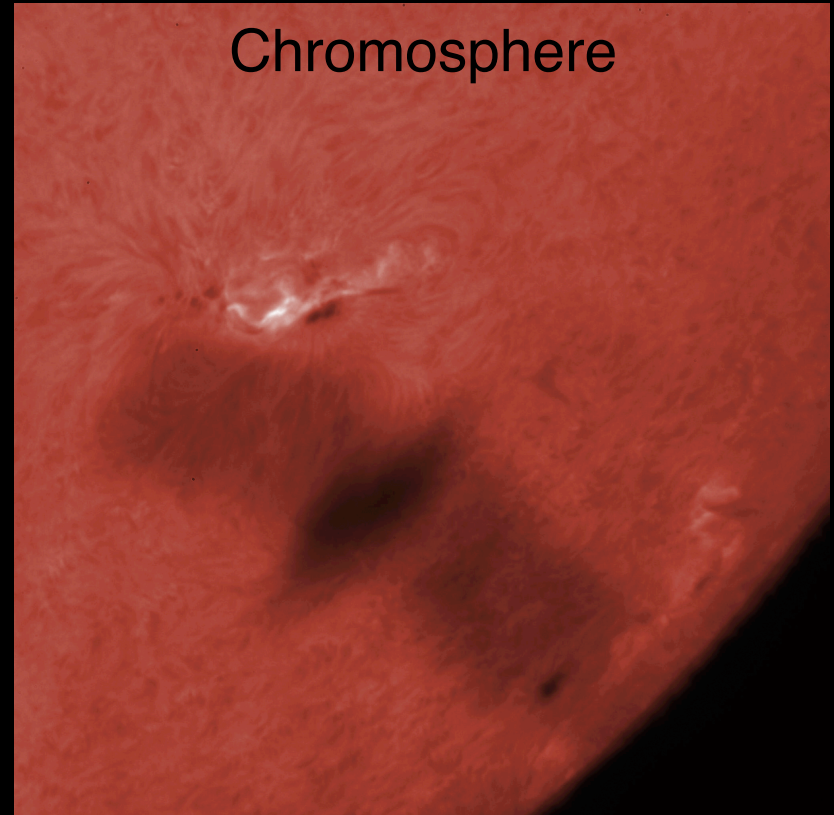
Hvar Solar Telescope

27.10.2013, 12:02 UTC

Photosphere

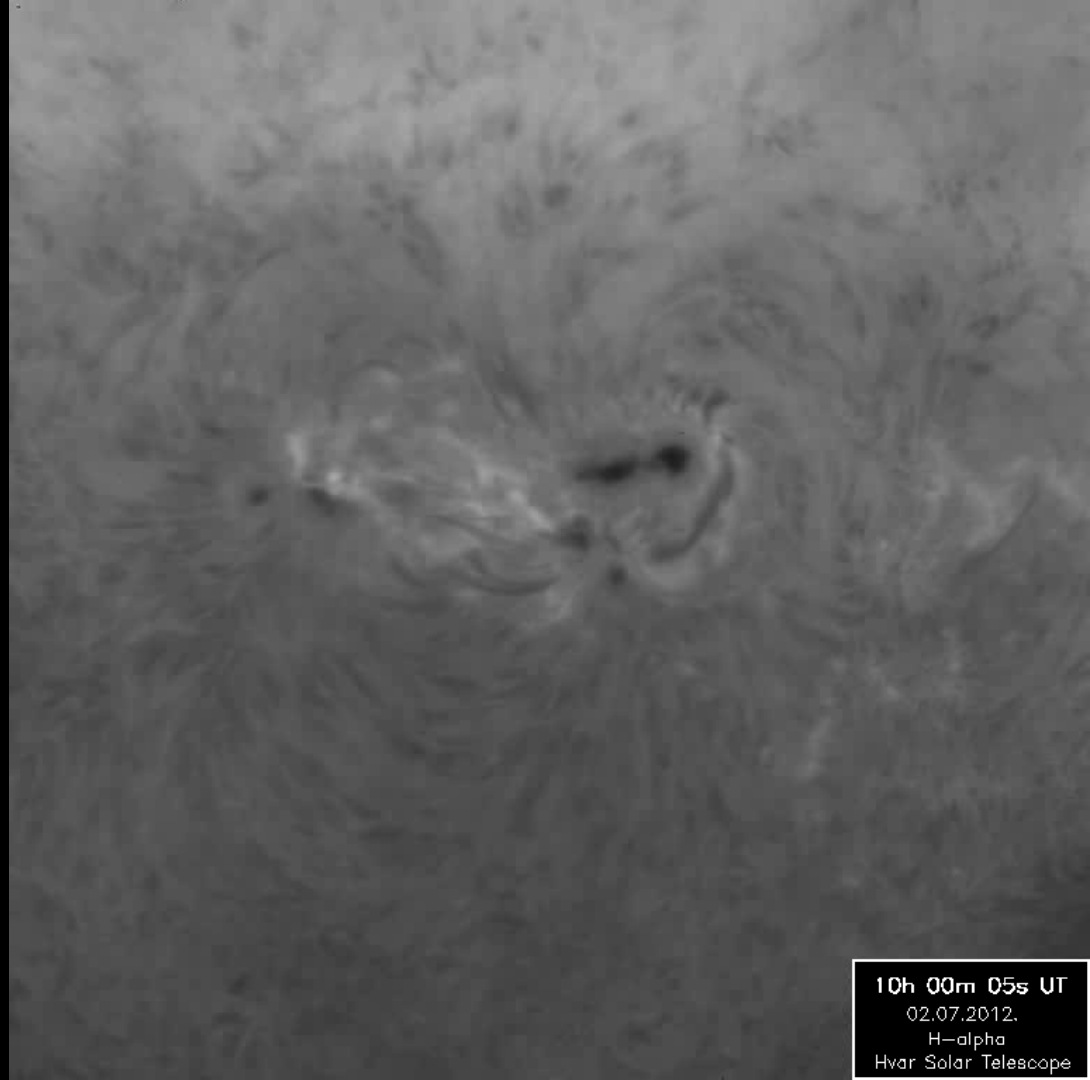


Chromosphere



Hvar Solar Telescope

Solar flare (M5),
02.07.2012
Chromospheric
observations



10h 00m 05s UT
02.07.2012.
H-alpha
Hvar Solar Telescope

Hvar Solar Telescope

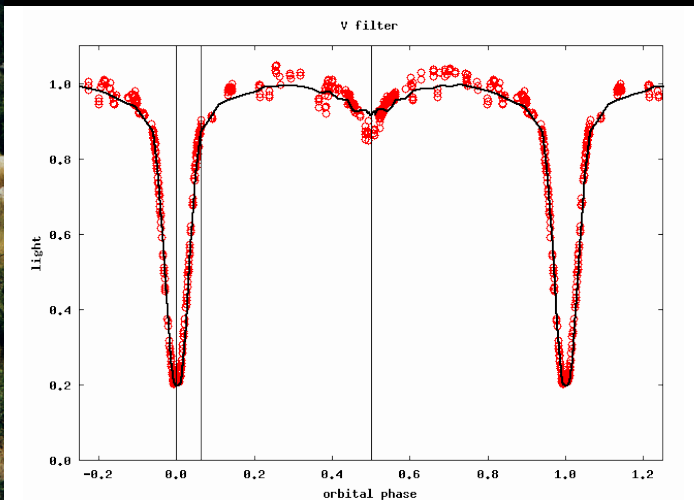
Venus transit,
06.06.2012
Chromospheric
observations



03h 44m 31s UT
06.06.2012.
H-alpha
Hvar Solar Telescope

65-cm Stellar Telescope at Hvar

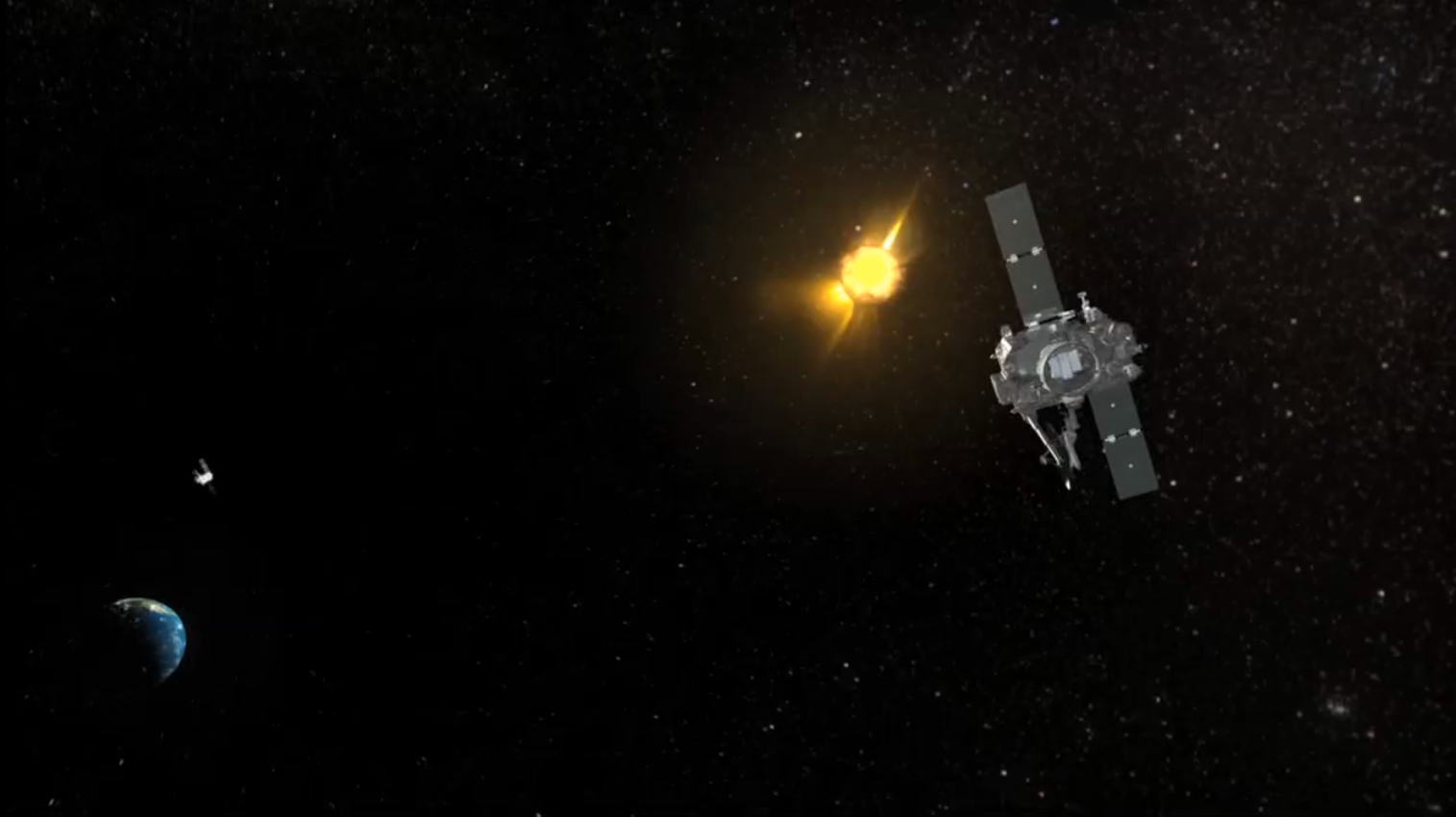
- Photometric monitoring program of variable stars



1-m Austro-Croatian Telescope (ACT)

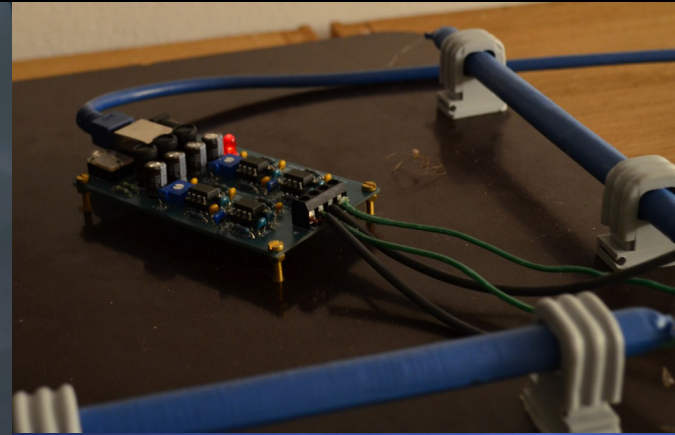


Solar activity and its influence on the heliosphere and geospace (solar storms)



Influence of solar variability on Earth's climate

Lightning radar station Hvar
<http://www.blitzortung.org>



Hvar Observatory - <http://oh.geof.unizg.hr>



For more information about Hvar Observatory visit us:

<http://oh.geof.unizg.hr>