

HVAR SOLAR TELESCOPE

Observer logbook

2014

Notes:

- All observation times are in local time (Hvar)
 - from **30.3.2014** summer time: UTC **+2h**
 - from **26.10.2014** winter time: UTC **+1h**

Final mark consists of weather conditions (picture quality) and the size / extent (e.g. flare level) of events observed. Marks are between 1 and 5: e.g. **1 bad picture quality and no solar activity** (flares) and **5 best picture quality and high solar activity**.

- **24.2.2014**: CCD cameras mounted on the telescope.

Date: 25.2.2014			
Obs. start	10:40	Obs. end	16:30
Observed regions		Remarks	
11990 11986		Loops, filaments and some small activity on the limb region C5.7 (11986) 15:10 UT imaged after the flare	
Weather	Small clouds from time to time		
Note	Observer: JC		
Final mark	3		

Date: 26.2.2014			
Obs. start	11:00	Obs. end	16:30
Observed regions		Remarks	
11990/11991 11981/11982/11984		Small filament activity C1.5 (11991) 12:52 UT M1.1 (11982) 15:01 UT imaged after the flare	
Weather	High clouds, foggy, after 13h clear		
Note	Observer: JC		
Final mark	3		

Date: 28.2.2014			
Obs. start	12:00	Obs. end	16:20
Observed regions		Remarks	
11990/11991 11981/11982/1984		No stronger activity, bright points	
Weather	Clouds from time to time, stable atmosphere		
Note	Observer: JC		
Final mark	2-3		

Date: 12.03.2014			
Obs. start	10:00	Obs. end	14:30
Observed regions		Remarks	
12002		Bright spots, small flares (B)	
Weather	Foggy		
Note			
Final mark	3		

Date: 13.03.2014			
Obs. start	10:15	Obs. end	14:00
Observed regions		Remarks	
11996, 12002		Bright spots	
Weather	Foggy		
Note			
Final mark	2-3		

Date: 14.03.2014			
Obs. start	10:00	Obs. end	13:15
Observed regions		Remarks	
12005		No activity, larger filament	
Weather	Foggy		
Note			
Final mark	2-3		

Date: 17.03.2014			
Obs. start	09:15	Obs. end	13:40
Observed regions		Remarks	
12008		Small flare with eruption, bright spots	
Weather	foggy		
Note			
Final mark	3		

Date: 18.03.2014			
Obs. start	10:30	Obs. end	13:15
Observed regions		Remarks	
12008, 12010		No activity, filaments on the limb	
Weather	Bad visibility, foggy, turbulences		
Note			
Final mark	2		

Date: 10.04.2014			
Obs. start	08:00	Obs. end	14:00
Observed regions		Remarks	
12032, 12033		Small flare/bright spot, eruptions on the limb	

Weather	Strong wind, turbulences
Note	No electricity for short time
Final mark	3

Date: 06.05.2014			
Obs. start	09:30	Obs. end	13:50
Observed regions		Remarks	
12055, 12047/12051		M1.8 (12051) 09:03 UT	
Weather			
Note			
Final mark	4		

Date: 09.05.2014			
Obs. start	08:45	Obs. end	14:00
Observed regions		Remarks	
12055/12056, 12058		C1.6 (12058) 11:19 UT (beginning not imaged)	
Weather			
Note			
Final mark	3-4		

Date: 22.05.2014			
Obs. start	10:10	Obs. end	13:45
Observed regions		Remarks	
12071/12073		Bright spots, filaments	
Weather	Foggy		
Note			
Final mark	2-3		

Date: 28.05.2014			
Obs. start	09:00	Obs. end	13:30
Observed regions		Remarks	
12073		No activity, filaments	
Weather			
Note			
Final mark	1-2		

Date: 04.06.2014			
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Obs. start	08:15	Obs. end	12:10
Observed regions		Remarks	
12077		Small flares, evolution of filaments	
Weather			
Note			
Final mark	3		

Date: 05.06.2014			
Obs. start	09:00	Obs. end	14:00
Observed regions		Remarks	
12080		No activity, larger filament	
Weather	Foggy, cloudy in the afternoon		
Note			
Final mark	2		

Date: 06.06.2014			
Obs. start	08:40	Obs. end	13:45
Observed regions		Remarks	
12080		C1.1 (12080) 10:24 UT filaments, small flares	
Weather			
Note			
Final mark	3		

Date: 09.06.2014			
Obs. start	09:45	Obs. end	17:35
Observed regions		Remarks	
12080/12085		C9.0 (12085) 12:29 UT, small eruptions	
Weather	Foggy, very hot, cloudy in the afternoon		
Note			
Final mark	4		

Date: 10.06.2014			
Obs. start	9:00	Obs. end	17:45
Observed regions		Remarks	
12080/12085, 12087		X2.2 (12087) 11:42 UT (beginning is missing)	

	X1.5 (12087) 12:52 UT
Weather	
Note	
Final mark	5

Date: 11.06.2014			
Obs. start	09:40	Obs. end	17:30
Observed regions		Remarks	
12087		M3.0 (12087) 08:09 UT X1.0 (12087) 09:06 UT C2.3 (12087) 11:42 UT	
Weather	Cloudy late in the afternoon		
Note			
Final mark	5		

Date: 12.06.2014			
Obs. start	08:45	Obs. end	17:40
Observed regions		Remarks	
12087		M2.7 (12087) 10:21 UT Smaller flares	
Weather	Clouds from time to time in the morning		
Note			
Final mark	4-5		

Date: 13.06.2014			
Obs. start	09:30	Obs. end	17:35
Observed regions		Remarks	
12087/12092, 12080/12085/12088		M2.6 (12087) 07:56 UT (beginning is missing) C3.8 (12087) 09:18 UT C3.7 (12087) 10:51 UT C2.4 (12087) 15:24 UT	
Weather	Cloudy in the morning		
Note			
Final mark	4		

Date: 20.06.2014			
Obs. start	08:10	Obs. end	15:50
Observed regions		Remarks	

12087/12092, 12093/12094		C5.0 (12093) 11:20 UT
Weather	Fuzzy picture, occasionally clouds	
Note		
Final mark	3	

Date: 02.07.2014			
Obs. start	08:50	Obs. end	17:36
Observed regions		Remarks	
12104/12107/12108		Small bright spots, filaments, big sunspot region	
Weather			
Note			
Final mark	2-3		

Date: 03.07.2014			
Obs. start	07:45	Obs. end	15:36
Observed regions		Remarks	
12104/12107		C1.9 (12107) 07:00 UT, small flare (12104) 09:43 UT Bright spots	
Weather	Occasionally small clouds (morning), strong NW wind		
Note			
Final mark	2-3		

Date: 04.07.2014			
Obs. start	07:45	Obs. end	17:02
Observed regions		Remarks	
12104 /12107, 12108/12109/12110		Bright spots	
Weather	Turbulence - fuzzy picture		
Note			
Final mark	2-3		

Date: 06.07.2014			
Obs. start	09:45	Obs. end	17:40
Observed regions		Remarks	
12108/12109/12010		C2.9 (12109) 08:16 UT Mini flares, bright spots	
Weather			
Note			

Final mark	3
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Date: 07.07.2014			
Obs. start	08:10	Obs. end	17:40
Observed regions		Remarks	
12108/12110/12109		C4.3 (12109) 08:02 UT Bright spots	
Weather	Turbulence (fuzzy picture from time to time)		
Note			
Final mark	2-3		

Date: 09.07.2014			
Obs. start	09:30	Obs. end	16:45
Observed regions		Remarks	
12114, 12108		Bright spots, small flare	
Weather	In the morning strong NW wind		
Note			
Final mark	2-3		

Date: 23.07.2014			
Obs. start	08:15	Obs. end	13:45
Observed regions		Remarks	
12121		No activity	
Weather	Cloudy from time to time		
Note			
Final mark	1-2		

Date: 24.07.2014			
Obs. start	09:30	Obs. end	13:50
Observed regions		Remarks	
12121		Big filament, bright spots	
Weather			
Note			
Final mark	2-3		

Date: 25.07.2014			
Obs. start	08:45	Obs. end	13:40
Observed regions		Remarks	

12121	C2.2 (12121) 07:02 UT small flare 11:20 UT		
Weather	Cloudy		
Note			
Final mark	3-4		

Date: 01.08.2014			
Obs. start	09:50	Obs. end	13:45
Observed regions		Remarks	
12130/12131/12127		Small flare 11:41 UT	
Weather	Cloudy in the morning		
Note	Turbulence, bad image		
Final mark	2-3		

Date: 06.08.2014			
Obs. start	08:00	Obs. end	12:20
Observed regions		Remarks	
12132		Bright spots	
Weather	Cloudy, strong wind, strong turbulences		
Note	Only one WL image		
Final mark	2		

Date: 07.08.2014			
Obs. start	08:00	Obs. end	12:20
Observed regions		Remarks	
12132		Small flare 06:17 UT Bright spots.	
Weather	Cloudy from time to time, turbulence		
Note			
Final mark	2-3		

Date: 12.08.2014			
Obs. start	08:30	Obs. end	13:50
Observed regions		Remarks	
12135		No activity	
Weather	High humidity		
Note			
Final mark	1-2		

Date: 18.08.2014			
Obs. start	08:10	Obs. end	14:00
Observed regions		Remarks	
12139		Bright spots, no activity	
Weather	Foggy		
Note			
Final mark	2		

Date: 19.08.2014			
Obs. start	07:20	Obs. end	10:05
Observed regions		Remarks	
12147		No activity	
Weather	South wind		
Note			
Final mark	1-2		

Date: 25.08.2014			
Obs. start	08:40	Obs. end	14:00
Observed regions		Remarks	
12151/12150		B7.8 (12150) 11:18 UT Bright dots, moving filaments	
Weather	Clouds in the morning		
Note			
Final mark	3		

Date: 28.08.2014			
Obs. start	10:00	Obs. end	14:00
Observed regions		Remarks	
12152		Bright dots, no activity	
Weather	Strong turbulences in the afternoon		
Note			
Final mark	2-3		

Date: 04.09.2014			
Obs. start	09:30	Obs. end	13:20
Observed regions		Remarks	
12155		Small dots and prominences on the edge of Sun	
Weather	Clouds from time to time		

Note	
Final mark	2-3

Date: 07.09.2014			
Obs. start	11:05	Obs. end	15:40
Observed regions		Remarks	
12157/12159		C2.2 (12157) 10:09 UT C1.8 (12157) 10:28 UT C2.2 (12157) 12:10 UT	
Weather	Turbulence, clouds from time to time		
Note	Observer: JC		
Final mark	3-4		

Date: 08.09.2014			
Obs. start	08:00	Obs. end	13:30
Observed regions		Remarks	
12157/12159		Small flares / bright spots	
Weather	High humidity, bad visibility, clouds.		
Note			
Final mark	2-3		

Date: 09.09.2014			
Obs. start	07:50	Obs. end	16:35
Observed regions		Remarks	
12158		Small flares / bright spots	
Weather	Few clouds in the morning		
Note			
Final mark	3		

Date: 10.09.2014			
Obs. start	10:00	Obs. end	16:35
Observed regions		Remarks	
12158		C1.5 (12158) 14:08 UT	
Weather	Thin high clouds, turbulence		
Note			
Final mark	2-3		

Date: 12.09.2014			
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Obs. start	09:30	Obs. end	12:00
Observed regions		Remarks	
12158		C1.2 (12158) 08:15 UT C3.2 (12158) 09:55 UT	
Weather	Thin clouds occasionally, bad image quality		
Note			
Final mark	3		

Date: 15.09.2014			
Obs. start	10:00	Obs. end	15:03
Observed regions		Remarks	
12157, 12158		No activity	
Weather			
Note			
Final mark	1		

Date: 16.09.2014			
Obs. start	08:10	Obs. end	16:15
Observed regions		Remarks	
12158		Bright spot, no activity	
Weather	Turbulence		
Note			
Final mark	1-2		

Date: 17.09.2014			
Obs. start	10:00	Obs. end	15:40
Observed regions		Remarks	
12158		Bright spots, eruptions on the edge of the disc	
Weather			
Note			
Final mark	2-3		

Date: 23.09.2014			
Obs. start	09:30	Obs. end	13:20
Observed regions		Remarks	
12172		No activity	
Weather	Strong wind (bora), turbulence, blurry picture		
Note			

Final mark	2
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Date: 26.10.2014			
Obs. start	08:20	Obs. end	15:00
Observed regions		Remarks	
12192		X2.0 (12192) 10:56 UT	
Weather	Foggy, turbulence, wind...		
Note	Bad picture quality		
Final mark	4		

Date: 27.10.2014			
Obs. start	10:15	Obs. end	13:50
Observed regions		Remarks	
12192		M6.7 (12192) 10:09 UT	
Weather	Foggy		
Note	Bad picture quality, no photosphere observations.		
Final mark	3-4		

Date: 31.10.2014			
Obs. start	11:45	Obs. end	16:20
Observed regions		Remarks	
12201		Prominence on the edge, no activity	
Weather	Turbulence		
Note	Bad picture quality		
Final mark	2		

Date: 01.11.2014			
Obs. start	11:10	Obs. end	15:40
Observed regions		Remarks	
12201		C4.1 (12201) 10:24 UT (beginning is missing) C2.6 (12201) 13:50 UT	
Weather	Foggy		
Note	Bad picture quality		
Final mark	3		

Date: 02.11.2014			
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Obs. start	11:10	Obs. end	15:10
Observed regions		Remarks	
12202/12203		No activity, few bright spots	
Weather	Turbulence		
Note	Bad picture quality		
Final mark	1-2		

Date: 09.11.2014			
Obs. start	10:00	Obs. end	14:40
Observed regions		Remarks	
12205		C2.5 (12205) 12:24 UT Bright spots	
Weather	South wind, clouds after 13h		
Note			
Final mark	2-3		