27 March - 4 April 2017 Campaign Observation Report

IRIS
http://www.lmsal.com/hek/hcr?cmd=view-recent-events&instrument=iris
(you have to go back in time to findmost images and spectra)
Contact
Wei Liu, weiliu@lmsal.com

SUMER
Contact
Curdt Dr., Werner <curdt@mps.mpg.de>

HINODE
http://hinode.nao.ac.jp/en/for-researchers/analysis-guide/

NVSTspectrograph and imaging system
Location: FuxianSolar Lake observatory
Observers: Xu, Zhi. Cai, Yunfang
xuzhi@ynao.ac.cn, cyf2012@ynao.ac.cn
Whom to contact: xuzhi@ynao.ac.cn

ONSET
Location: FSO,YunNanProvince,China
Observers: FangCheng, ZhangXiaoYu, Lizhen
Fangc@nju.edu.cn,xyz@ynao.ac.cn, YYY@nju.edu.cn
Whom to contact: lizhen@nju.edu.cn.

INAF – CataniaAstrophysicalObservatory

Location: Catania (Italy)
Observers: Pierfrancesco Costa, Mariachiara Falco
pcosta@oact.inaf.it, mfalco@oact.inaf.it
Linesobserved: Halpha (656.28 nm), Continuum (656.78 nm)
Whom to contact: Paolo Romano (paolo.romano@oact.inaf.it)

KSO: KanzelhöhePatrol Instrument
Location: KanzelhöheObservatory for Solar and EnvironmentalResearch, Kanzelhöhe 19, 9521 TreffenAustria, N46.6783 E13.9016
Observers: Werner Pötzi (werner.poetzi@uni-graz.at), Heinz Strutzmann (heinz.strutzmann@uni-graz.at), Dietmar Baumgartner (dietmar.baumgartner@uni-graz.at)
Linesobserved: H-alpha (656.28nm, FWHM=0.07nm, Lyot), Whitelight (546nm, FWHM=10nm), CaIIK (393.37nm, FWHM=0.3nm)
Whom to contact: werner.poetzi@uni-graz.at

KanzelhöhePatrol Instrument comprises four telescopes on a commonequatorialmounting:

1. H-alpha telescope: d/f = 100/2000mm, Lyot Band passfilterat 656.28 nm with a FWHM of 0.07 nm, 10 images/minute
2. CaIIKtelescope: d/f = 110/1650mm, LuntCaIIKfilterat 393.37 nm with a FWHM of 0.3 nm, 10 images/minute
3. Whitelighttelescope: d/f = 130/1950 mm, bandpassfilterat 546 nm with FWHM of 10nm, 3 images/minute
4. Projection telescope for sunspotdrawings: d/f = 110/1650, sundiameter of 25 cm, 1 drawing/day

Data availability:

H-alpha:	http://cesar.kso.ac.at/halpha3a
	ftp://download:9521treffen@ftp.kso.ac.at/Ha4M
	http://kanzelhohe.uni-graz.at/halpha.php
	http://swe.ssa.esa.int/web/guest/kso-federated
Whitelight:	http://cesar.kso.ac.at/phokada
	ftp://download:9521treffen@ftp.kso.ac.at/Phoka
	http://kanzelhohe.uni-graz.at/wl.php
	http://swe.ssa.esa.int/web/guest/kso-federated
Whitelight:	http://cesar.kso.ac.at/caiia
	ftp://download:9521treffen@ftp.kso.ac.at/CaII

http://kanzelhohe.uni-graz.at/caii.php

Ondrejov (HSFA 2)

Location: Astronomical Institute of the Academy of Sciences of the CzechRepublic,
Ondřejovobservatory : 49.90914 N, 14.78134 E
Dates: 27.03.2017 – 5.04.2017
Observers: MaciejZapior, YurijKupryakov
maciej.zapior@asu.cas.cz, kupry@ asu.cas.cz
Linesobserved: CaII K, Hβ, MgI(5167.327, 5172.698 Å), Hα, CaIR 8542 Å
Whom to contact: maciej.zapior@asu.cas.cz, kupry@ asu.cas.cz
Data availability: http://helios.asu.cas.cz/spectra/?year=2017&date=170328&camera=sj&size=80&sort=a

USET

Instrument: Uccle Solar Equatorial Table (see details: http://www.sidc.be/uset/usetpres.php)
Location: Uccle (Brussels), Belgium
Dates: 27-03-2017 to 04-04-2017
Contact: frederic.clette@oma.be, laurent.dolla@oma.be, emil.kraaikamp@observatoire.be

Filter channels

Filter	Bandpass
White light	415-573 nm (BWHM)
H□ lpha	656.2808 ± 0.05 nm
Ca II K	393.37 ± 0.27 nm

Summary of the data

Two parallel acquisitions were made (covering the full Sun):

- Synoptic (minimum 4 images/hour in conditions of “good” sky quality): all 3 channels (data available in the archive: http://www.sidc.be/data/uset/ or with http://sidc.be/uset/searchForm.php)
- Ludicrous Mode (≈3.7 images/s): H□ and Ca II K (6 TB of compressed data available athttp://www.sidc.be/usetHOP0334/; a calibrated subset at 10-s cadence will be provided as soon as possible)
- Observers
- AYD: AydinErgen BAB: BaudouinBukasa OPO: OlenaPodlachikova

- EMK: Emil Kraaikamp FCE: FrédéricClette OLB: Olivier Boulvin OLM: Olivier Lemaître
- Quality
- 0: no obs. 1: poor 2: fair 3: good 4: very good 5:exceptionnal
- AM – PM
- AM: from 08h00 until 13h00 (CET)
- PM: from 13h00 until 18h00 (CET)

RADIO (Belgium) ARCAS and HSRS radio spectrometers
Location: Humain (Belgium)
Observers: Automated daily observations (07:30 – 16:00 UT)
Lines observed: Frequency range: 45 – 450 MHz (ARCAS); 275 – 1495 MHz (HSRS)
Whom to contact: christophe.marque@oma.be; Website: http://sidc.be/humain

PROBA2
Instrument #1: **SWAP**
Location: Royal Observatory (ROB), Brussels, Belgium
Dates: 2017-Mar-28 to 2017-April-04 (returned to normal observations with nominal cadence after 4th April)
Linesobserved: EUV17.4 nm
Whom to contact:elke.dhuys@oma.be, matthew.west@observatory.be, david.berghmans@oma.be

Instrument #2: **LYRA**
Location: Royal Observatory (ROB), Brussels, Belgium
Dates: 2017-Mar-28 to 2017-April-05
Linesobserved: Lyman-alpha 120-123 nm, Herzberg 190-222 nm, Aluminium (17-80 nm + a contribution below 5 nm), Zirconium (6-20 nm + a contribution below 2 nm),
Whom to contact: marie.dominique@oma.be, matthew.west@observatory.be, david.berghmans@oma.be

The times of individualobservingcampaigns (given in UT) are givenwith the specified cadence and off-pointing. Note that the full diskremains in the field of viewat all times.

Meudon: MSDP
Location: Tour solaire, Meudon, France
Dates: 28-31 March, 3-4 April
Observers: RegisLecocguen, Daniel Crussaire, Brigitte Schmieder
Regis.lecocguen@obspm.fr, daniel.crussaire@obspm.fr,brigitte.schmieder@obspm.fr
Linesobserved: Halpha and Ca II 8542
Whom to contact: brigitte.schmieder@obspm.fr, pierre.mein@obspm.fr

Pic-du-Midi CLIMSO
https://climso.fr/
Location:, Pic du midi de Bigorre, France
N 42° 56′ 11″ ; E 0° 08′ 34″ Altitude 2876 m
Dates: 2017-03-28 ; 2017-03-29 ; 2017-03-30 ; 2017-03-31 ; 2017-04-03
Observersatthose dates: Joël Guignard, Maurice Audejean, Sylvain Rondi, Isabelle Rondi, Laurent Koechlin
joel.guignard@wanadoo.fr, m-audejean@wanadoo.fr, sylvain.rondi@gmail.com
Linesobserved:

λ= 393.3 Δλ=0.25 instrument L2 - solardisk in Ca II
λ= 656.28 Δλ=0.25 instrument C1 -prominences in H-α, solarcirconference, from 1.0 to 1.2 r0, coronagraph, aperture 20 cm
λ= 656.28 Δλ=0.05 instrument L1 - solardisk in H-α
λ=1083.0 Δλ=0.25 instrument C2 - prominences in He I solarcirconference, from 1.0 to 1.2 r0, coronagraph, aperture 20 cm

Contact persons: Laurent.koechlin@irap.omp.eu, Arturo.Lopezariste@irap.omp.eu

SST (Canary Island)
CHROMIS and CRISP
david.buhler@astro.su.se

GREGOR (Canary Island)
Location : ObservaqtoriodelTeide, Tenerife
N 28°18' 7" W16° 30' 39" Altitude 2390 m
Dates : 2017-03-28, 2017-03-29, 2017-04-02, 2017-04-03, 2017-04-04
Observer atthosedays : Horst Balthasar, Carsten Denker
Instruments : GRIS atλ= 1083 nm, HiFI G-band and blue continuum at 450 nm
contactperson : Horst Balthasar <hbalthasar@aip.de>

Instrument/Mission/Ground-Based Observatory	**Observing Day**	**Beginning Time (UTC)**	**End Time (UTC)**	**Lines (nm)**	**Pointing (arcsec) X= Y=**	**Number of observations**	**Comments**
INAF - OACt paolo.romano@oact.inaf.it	27 March	06:43	10:50	656.28 (Ha)	Full disk	26	Weather: clear Seeing: good Eruption:-
INAF - OACt paolo.romano@oact.inaf.it	27 March	07:02	11:02	656.78 (continuum)	Full disk	5	Weather: clear Seeing: good Eruption:-
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**
27-03-2017	White light	06:42:10	16:30:00	46	AM : BAB PM: OLB	3	
	H	07:37:57	16:39:43	116601			
	Ca II K	07:37:14	16:38:45	74449			

Instrument/Mission/Ground-Based Observatory	Observing Day	Beginning Time (UTC)	End Time (UTC)	Lines (nm)	Pointing (arcsec) X= Y=	Number of observations	Comments
NVST xuzhi@ynao.ac.cn cyf2012@ynao.ac.cn	28-Mar	3:47	4:20	Halphaspectrum	target:12644 (raster 90″) old scanning system		Weather cloudy – rain
		4:25	7:16	Ha spectrum	target:12644 (raster 90″) old scanning system		Weather cloudy – rain
		7:43	8:20	Imaging system: Ha center 、 TiO	target:12644		Weather cloudy – rain
ONSET lizhen@nju.edu.cn	28 March	01:27	07:10	656.3 (0,±0.05) 360 425	AR12644	600	Weather: cloudy – rain Seeing: bad Eruption in active region
KSO **H-alpha Full Disc** **2048x2048@12bit**	28 March	05: 37	16:56	656.3	0 0	6390	Clear Sky, 12 hours sunshine Seeing: excellent Subflare 7:33, AR 2645
KSO	28 March	05: 37	16:30	393.3	0 0	616	Clear Sky, 12 hours sunshine

CaIIK Full Disk **2048x2048@12bit**							Seeing: excellent Subflare 7:33, AR 2645
KSO **Whitelight Full Disk** **2048x2048@12bit**	28 March	05: 37	16:56	546	0 0	862	Clear Sky, 12 hours sunshine Seeing: excellent Subflare 7:33, AR 2645
GREGOR **GRIS**	28 March	08:40	09:10	1083	-730 -105 NOAA 12645 p	1 scan	R_0< 10 cm
GREGOR **HiFI**	28 March	08:40	09:13	450 G-band	-730 -105 NOAA b12645 p	100	
Ondrejov HSFA 2 HOP 334 program A2 (b): Filament on-disc in AR 12644	28 March	07:19	07 :48	393.4 486.1 517.3 656.3	-254" 320"	1039	Weather Seeing 2-4” Eruption
Ondrejov HSFA 2 HOP 334 program A1 (a,b,c,d): Prominenceat NE limb	28 March	08 :54	13 :38	393.4 486.1 517.3 656.3	-693" 716"	7455	Weather Seeing 2-4” Eruption

Ondrejov HSFA 2 HOP 329 ALMA coordination	28 March	14 :19	14 :24	393.4 486.1 517.3 656.3 854.2	-196" 346"	166	Weather Seeing 2-4” Eruption
USET							
Date	Filter	Obs. begin	Obs. end	Number of images	Observers	Quality	Remarks
28-03-2017	White light	07:34:20	17:00:00	37	AM: BAB PM: EMK	AM:2 PM:3	
	H	07:42:50	17:00:15	84638			
	Ca II K	07:42:46	17:00:14	98671			
Instrument/Mission/Ground-Based Observatory	**Observing Day**	**Beginning Time (UTC)**	**End Time (UTC)**	**Lines (nm)**	**Pointing (arcsec) X= Y=**	**Number of observations**	**Comments**
ARCAS/HSRS	28 March	All day	All day	N/A	Full Sun		Noise storm, intensifies after 11:30 UT
SWAP	28 March	00: 00	07: 00	17.4	0 0	Cadence 110s	
LYRA Unit 2	**28 Mar – 05 Apr**	**continuous**	**continuous**	**17- 80 + <5,** **6- 20 + <2,**	**(off pointed as for SWAP times**	**Cadence 50ms**	**Observingcontinuously, observed all M-Flares in Aluminium and**

					above)		**Zirconium (significant spectral degradation)**
MSDP/Tour Solaire de Meudon (France)	28 March	07:44		854.2	AR 12644	30	Weather fine Seeing normal
	28 March	08:20		854.2	Filament	30	Weather fine Seeing normal Clouds
	28 March	08:40		656.3	Prominence E44	30	fine
	28 March	14:00		656.3	AR 12644	30 x 2	fine
	28 March	15:37		656.3	Filament N25 and S15	30	Fine
CLIMSO-L2	28 March	10:04	15:06	393.3 Ca II	whole disk	229	1 image per minute, weather permitting
CLIMSO-C1	28 March	10:04	15:53	656.3	prominences, 360°	179	1 image per minute, weather permitting
CLIMSO-L1	28 March	10:04	15:06	656.3	whole disk	228	1 image per minute, weather permitting
CLIMSO-C2	28 March	10:04	15:06	He I 1083.0	prominences, 360°	203	1 image per minute, weather permitting

INAF - OACt paolo.romano@oact.inaf.it	29 March	06:10	11:00	656.28	Full disk	27	Weather: clear Seeing: good Eruption:-
INAF - OACt paolo.romano@oact.inaf.it	29 March	07:02	11:03	656.78	Full disk	5	Weather: clear Seeing: good Eruption:-
KSO H-alpha **Full Disc** **2048x2048@12bit**	29 March	05:57	13:34	656.3	0 0	3766	Sunny/Cloudy, 10 hours sunshine Seeing: good Subflare 6:01, 6:56, AR 2645
KSO CaIIK **Full Disk** **2048x2048@12bit**	29 March	05:57	14:15	393.3	0 0	306	Sunny/Cloudy, 10 hours sunshine Seeing: good Subflare 6:01, 6:56, AR 2645
KSO Whitelight **Full Disk** **2048x2048@12bit**	29 March	05:58	14:15	546	0 0	520	Sunny/Cloudy, 10 hours sunshine Seeing: good Subflare 6:01, 6:56, AR 2645

Ondrejov HSFA 2 HOP 334 AR 12645 monitoring	29 March	08 :50	09 :09	393.4 486.1 517.3 656.3 854.2	-606" -82"	270	Weather Seeing 2-4” Eruption
USET							
Date	Filter	Obs. begin	Obs. end	Number of images	Observers	Quality	Remarks
29-03-2017	White light	06:36:41	06:36:45	3	AM:OLM PM:OPO	2	Bad weather
		13:43:30	13:43:36	3			
	H	06:37:07	06:44:33	1604			
	Ca II K	06:37:02	06:44:45	1671			
Instrument/Mission/Ground-Based Observatory	**Observing Day**	**Beginning Time (UTC)**	**End Time (UTC)**	**Lines (nm)**	**Pointing (arcsec)** **X= Y=**	**Number of observations**	**Comments**
SWAP	29 Mar	00: 00	07: 00	17.4	0 0	Cadence 110s	
LYRA Unit 3	**29March – 02Ap**	**10:14** **29 Mar**	**18:30** **02 Apr**	**17- 80 + <5,** **6- 20 + <2,**	**(off pointed as for SWAP times above)**	**Cadence 50ms**	

MSDP/Tour Solaire de Meudon (France)	29 March	11:34		656.3	AR 12645	30	fine on-going analysis with IRIS
	29 March	13:26- 14:47		656.3	filament	30 x 3	fine
	29 March	15/00		656.3	AR 12644	30	With clouds
CLIMSO-L2	29 March	06:51	17:16	393.3	whole disk	544	1 image per minute, weather permitting
CLIMSO-C1	29 March	08:31	13:53	656.3	prominences, 360°	120	1 image per minute, weather permitting
CLIMSO-L1	29 March	06:51	17:16	656.3	whole disk	535	1 image per minute, weather permitting
CLIMSO-C2	29 March	07:11	13:53	393.3	prominences, 360°	87	1 image per minute, weather permitting
GREGOR GRIS	29 March	08:40	09:11	1083	-637 -85 NOAA 12645 f	1 scan	R_0 = 5 – 10 cm
GREGOR HiFI	29 March	08:40	09:12	450 G-band	-637 -85 NOAA 12645 f	100	

INAF - OACt	30 March	05:50	10:50	656.28	Full disk	22	Weather: clear Seeing: good Eruption:-
INAF - OACt	30 March	06:04	10:04	656.78	Full disk	4	Weather: clear Seeing: good Eruption:-
KSO H-alpha **Full Disc** **2048x2048@12bit**	30 March	06:46	16:40	656.3	0 0	4807	Clear Sky, 10 hours sunshine Seeing: good no flare
KSO CaIIK **Full Disk** **2048x2048@12bit**	30 March	06:46	16:30	393.3	0 0	490	Clear Sky, 10 hours sunshine Seeing: good no flare
KSO Whitelight **Full Disk** **2048x2048@12bit**	30 March	06:44	16:40	546	0 0	672	Clear Sky, 10 hours sunshine Seeing: good no flare
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**

30-03-2017	White light	09:05:01	15:45:00	28	AM:OLM PM:EMK	3	
	H	09:03:22	15:57:40	91254			
	Ca II K	09:03:19	15:57:42	73550			
Instrument/Mission/Ground-Based Observatory	**Observing Day**	**Beginning Time (UTC)**	**End Time (UTC)**	**Lines (nm)**	**Pointing (arcsec) X= Y=**	**Number of observations**	**Comments**
ARCAS/HSRS	30 March	07:30	08:05	N/A	Full Sun		Several Type III bursts
ARCAS/HSRS	30 March	08:55	09:00	N/A	Full Sun		Several Type III bursts
SWAP	30 Mar	00: 00	07: 00	17.4	0 0	Cadence 110s	
SWAP	30 Mar	07: 00	09: 00	17.4	-495 495	Cadence 30s	
SWAP	30 Mar	09: 00	19: 15	17.4	0 0	Cadence 110s	
SWAP	30 Mar	19:15	21: 00	17.4	0 495	Cadence 30s	
MSDP/Tour Solaire de Meudon (France)	30 March	07:29_08:30		656.3	Prominence NW40	100	fine
	30 March	09:05-13:00		656.3	AR 12644	100	fine

	30 March	13:30-14:30		656.3	AR 12645	1000	fine
	30 March	14:40-15:05		656.3	Prominence NW 40	30	fine
	30 March	15:23-15:30		656.3	AR 11644	10	clouds
CLIMSO-L2	30 March	07:11	11:58	393.3	whole disk	263	1 image per minute, weather permitting
CLIMSO-C1	30 March					0	cirrus clouds
CLIMSO-L1	30 March	07:11	11:58	656.3	whole disk	263	1 image per minute, weather permitting
CLIMSO-C2	30 March	07:10	07:14	393.3	prominences, 360°	4	cirrus clouds

INAF - OACt	31 March	05: 54	11:00	656.28	Full disk	32	Weather: clear Seeing: good Eruption:-
INAF - OACt	31 March	06:04	11:04	656.78	Full disk	6	Weather: clear Seeing: good Eruption:-
KSO H-alpha **Full Disc** **2048x2048@12bit**	31 March	05:59	16:00	656.3	0 0	5786	Sunny, 12 hours sunshine Seeing: good Subflare 6:08, 6:19, AR 2645
KSO CaIIK **Full Disk** **2048x2048@12bit**	31 March	05:59	16:00	393.3	0 0	485	Sunny, 12 hours sunshine Seeing: good Subflare 6:08, 6:19, AR 2645
KSO Whitelight **Full Disk** **2048x2048@12bit**	31 March	05:59	16:00	546	0 0	793	Sunny, 12 hours sunshine Seeing: good Subflare 6:08, 6:19, AR 2645

Ondrejov HSFA 2 HOP 334 program A1 (a): Prominenceat NW limb	31 March	07 :08	08 :04	393.4 486.1 517.3 656.3	765" 626"	1316	Weather Seeing 2-4 “ Eruption
Ondrejov HSFA 2 HOP 334 AR 12645 filament monitoring	31 March	08 :22	10 :34	393.4 486.1 517.3 656.3	-178" -59"	3475	Weather Seeing 2-4” Eruption
Ondrejov HSFA 2 HOP 334 AR 12645 filament monitoring	31 March	10 :43	13 :41	393.4 486.1 517.3 656.3 854.2	-178" -59"	5787	Weather Seeing 2-4” Eruption
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**
31-03-2017	White light	06:58:28	11:30:00	13	AM: OLB PM:OLM	AM :3	
	H	07:01:03	13:18:56	36274			
	Ca II K	07:00:45	13:18:40	47406			

Instrument/Mission/Ground-Based Observatory	Observing Day	Beginning Time (UTC)	End Time (UTC)	Lines (nm)	Pointing (arcsec) X= Y=	Number of observations	Comments
ARCAS/HSRS	31 March	08:20	08:25	N/A	Full Sun		Type III burst
SWAP	30 – 31 Mar	21: 00 30 Mar	07: 00 31 Mar	17.4	0 0	Cadence 110s	
SWAP	31 Mar	07: 00	09: 00	17.4	-495 -495	Cadence 30s	
SWAP	31 Mar	09: 00	14: 00	17.4	0 0	Cadence 110s	
SWAP	31 Mar	14:00	19: 00	17.4	-495 -495	Cadence 110s	
MSDP/Tour Solaire de Meudon (France)	31 March	15:13-15:58		656.3	Prominence NW 40	60	fine
	31 March	16:05-16:10		656.3	AR 12644	10	clouds
CLIMSO-L2	31 March	12:45	13:11	393.3	whole disk	20	1 image per minute, weather permitting
CLIMSO-C1	31 March	12:45	13:07	656.3	prominences, 360°	4	cirrus clouds
CLIMSO-L1	31 March	12:45	13:11	656.3	whole disk	19	1 image per minute, weather

							permitting
CLIMSO-C2	31 March	12:44	12:48	393.3	prominences, 360°	3	cirrus clouds

INAF - OACt	1 April	06: 30	11:10	656.28	Full disk	29	Weather: clear Seeing: good Eruption:-
INAF - OACt	1 April	07:15	11:15	656.78	Full disk	5	Weather: clear Seeing: good Eruption:-
KSO H-alpha **Full Disc** **2048x2048@12bit**	1 April	05:52	16:15	656.3	0 0	4165	Sunny/Cloudy, 10 hours sunshine Seeing: good no flare
KSO CaIIK **Full Disk** **2048x2048@12bit**	1 April	05:52	16:11	393.3	0 0	390	Sunny/Cloudy, 10 hours sunshine Seeing: good no flare
KSO Whitelight **Full Disk** **2048x2048@12bit**	1 April	05:53	16:14	546	0 0	616	Sunny/Cloudy, 10 hours sunshine Seeing: good no flare

Ondrejov HSFA 2 HOP 334 AR 12645 filament monitoring	01 April	10 :12	10 :43	393.4 486.1 517.3 656.3 854.2	57" -41"	1188	Weather Seeing 2-4” Eruption
Ondrejov HSFA 2 HOP 334 AR 12645 filament	01 April	10 :52	11 :55	393.4 486.1 517.3 656.3 854.2	58" -48"	1447	Weather Seeing 2-4” Eruption
Ondrejov HSFA 2 HOP 334 AR 12645 filament	01 April	12:04	12 :54	393.4 486.1 517.3 656.3 854.2	69" -48"	1475	Weather Seeing 2-4” Eruption
Ondrejov HSFA 2 HOP 334 A1: Prominence NW limb	01 April	13 :06	13 :12	393.4 486.1 517.3 656.3	942" 351"	172	Weather Seeing 2-4” Eruption

USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**
01-04-2017	White light	-	-	-	AM:OLM PM:OLB	0	No data due to bad weather
	Hα	-	-	-			
	Ca II K	-	-	-			
Instrument/Mission/Ground-Based Observatory	Observing Day	Beginning Time (UTC)	End Time (UTC)	Lines (nm)	Pointing (arcsec) X= Y=	Number of observations	Comments
ARCAS/HSRS	01 April	All day	All day	N/A	Full Sun		Noise storm
ARCAS/HSRS	01 April	10:30	10:50	N/A	Full Sun		Intense group of Type III bursts
SWAP	31 Mar – 01 Apr	19:00 31 Mar	04:00 01 Apr	17.4	0 0	Cadence 110s	
SWAP	01 Apr	04:00	09:00	17.4	0 -495	Cadence 110s	
SWAP	01 Apr	09:00	13:00	17.4	0 0	Cadence 110s	
SWAP	01 Apr	13:00	17:00	17.4	0 -495	Cadence 110s	

SWAP	01 Apr	17: 00	21: 00	17.4	0 0	Cadence 110s	
SWAP	01 – 02 Apr	21:00 01 Apr	08: 00 02 Apr	17.4	0 -495	Cadence 110s	**M4.4 flare and eruptionnearwestlimb** on 2017-Apr-01 with the flare maximum givenat 21:48 UT, **while off-pointed to the west.**
LYRA Unit 3	01- Apr	10:14 29 Mar	18:30 02 Apr	17- 80 + <5, 6- 20 + <2,	(off pointed as for SWAP times above)	Cadence 50ms	M4.4 flare on 2017-Apr-01 (flare max givenat 21:48 UT).

KSO H-alpha **Full Disc** **2048x2048@12bit**	2 April	05:53	16:28	656.3	0 0	3559	Sunny/Cloudy, 11 hours sunshine Seeing: good Subflare 08:02, AR 2644
KSO CallK **Full Disk** **2048x2048@12bit**	2 April	05:54	16:27	393.3	0 0	456	Sunny/Cloudy, 11 hours sunshine Seeing: good Subflare 08:02, AR 2644
KSO Whitelight **Full Disk** **2048x2048@12bit**	2 April	05:53	16:28	546	0 0	661	Sunny/Cloudy, 11 hours sunshine Seeing: good Subflare 08:02, AR 2644
Ondrejov HSFA 2 HOP 334 AR 12645 filament monitoring	02 April	09 :55	10 :44	393.4 486.1 517.3 656.3 854.2	260" -56"	1064	Weather Seeing 2-4” Eruption
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**

02-04-2017	White light	06:58:44	17:00:00	43	AM: FCE PM:AYD	2-3	
	Hα	07:20:37	17:09:03	104649			
	Ca II K	07:20:32	17:08:57	81284			
Instrument/Mission/Ground-Based Observatory	Observing Day	Beginning Time (UTC)	End Time (UTC)	Lines (nm)	Pointing (arcsec) X= Y=	Number of observations	Comments
ARCAS/HSRS	02 April	All day	All day	N/A	Full Sun		Noise storm
ARCAS/HSRS	02 April	07:50	~09:00	N/A	Full Sun		Type IIIs, high frequency continuum, Type II and Type IV bursts
ARCAS/HSRS	02 April	11:40	11:45	N/A	Full Sun		High frequency type III bursts
ARCAS/HSRS	02 April	12:55	13:00	N/A	Full Sun		High frequency continuum
SWAP	02 Apr	08: 00	12: 00	17.4	0 0	Cadence 110s	**M5.3 flare and eruption**nearwestlimb on 2017-Apr-02 with the flaregivenfrom 7.50 to 08:13 UT, (initially off-pointed and thenchanged to suncenteredduringflare)

SWAP	02 Apr	12:00	19: 00	17.4	0 -495	Cadence 110s	**M2.3 flare** (max. at 13:00 UT) **on the solarwest-limb,while off-pointed to the west.** **M2.1 flare** (max. at 18:38 UT) **on the solarwest-limb,while off-pointed to the west.**
SWAP	02 – 03 Apr	19: 00 02 Apr	04: 00 03 Apr	17.4	0 0	Cadence 110s	**M5.7 flare and eruption** in western hemisphere on 2017-Apr-02 at 20:33 UT. M1.2 flare on 2017-Apr-03 at 01:05 UT.
LYRA Unit 3	02 April	10:14	18:30	17- 80 + <5, 6- 20 + <2,	(off pointed as for SWAP times above)	Cadence 50ms	**M5.3 flare** on 2017-Apr-02 (flare max at 08.02 UT) M2.3 flare on 2017-Apr-02 (maximum at 13:00 UT)
LYRA Unit 1	02 Apr	18:40	19:30, 05 April	120-123, 190-222	(off pointed as for SWAP times	Cadence 50ms	**M5.7 flare and eruption** in western hemisphere on 2017-Apr-02 at 20:33 UT.

				17- 80 + <5, 6- 20 + <2,	above)		**Observed a Lyman-alpha contribution in thisflare**.
GREGOR **GRIS**	02 Apr	08:18	09:30	1083	284 -69 NOAA 12645	2 scans	Seeingratherpoor

NVST	3-April	4:20	4:50	Ha spectrum	target:12645 (raster 67" , AR filament)		Weather cloudy
		8:21	8:46	Ha spectrum	target:12645 (raster 90", East part of the AR)		Weather cloudy
ONSET	03April	05:22	07:38	656.3 (0,±0.05) 360 425	AR12645	244	Weather:cloudy Seeing:bad Eruption:active region
INAF - OACt	3 April	06: 33	09:31	656.28	Full disk	13	Weather: partially cloudy Seeing: bad Eruption:-
INAF - OACt	3 April	06:31	08:02	656.78	Full disk	3	Weather: partially cloudy Seeing: bad Eruption:-
KSO H-alpha Full Disc	3 April	05:50	13:59	656.3	0 0	4133	Sunny/Cloudy, 9 hours sunshine

2048x2048@12bit							Seeing: good Subflare: 06:20, 08:15,11:43, 13:07 , AR 2645
KSO CaIIK **Full Disk** **2048x2048@12bit**	3 April	05:50	13:59	393.3	0 0	435	Sunny/Cloudy, 9 hours sunshine Seeing: good Subflare 06:20, 08:15,11:43, 13:07 , AR 2645
KSO Whitelight **Full Disk** **2048x2048@12bit**	3 April	05:51	13:59	546	0 0	595	Sunny/Cloudy, 9 hours sunshine Seeing: good Subflare 06:20, 08:15,11:43, 13:07 , AR 2645
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**
03-04-2017	White light	09:57:39	16:43:51	25	AM:BAB PM:OLB	AM:2 PM:3	
	H	09:56:10	17:12:43	43281			
	Ca II K	09:57:29	17:12:06	44762			

Instrument/Mission/Ground-Based Observatory	Observing Day	Beginning Time (UTC)	End Time (UTC)	Lines (nm)	Pointing (arcsec) X= Y=	Number observations	Comments
ARCAS/HSRS	03 April	All day	All day	N/A	Full Sun		Weak noise storm
ARCAS/HSRS	03 April	14:20	14:50	N/A	Full Sun		High frequency continuum and intense type II burst
SWAP	03 Apr	04:00	07: 00	17.4	0 -495	Cadence 110s	
SWAP	03 Apr	07: 00	13: 00	17.4	0 0	Cadence 110s	
SWAP	03 Apr	13:00	23: 00	17.4	0 -495	Cadence 110s	**M5.8 flare** (maximum at 14:31 UT) and eruption on the solarwest-limb, **while off-pointed to the west.**
SWAP	03 – 04 Apr	23: 00 03 Apr	04: 00 04 Apr	17.4	0 0	Cadence 110s	
LYRA Unit 1	3 April	00:00	19:30, 05 April	120-123, 190-222 17- 80 + <5, 6- 20 + <2,	(off pointed as for SWAP times above)	Cadence 50ms	M1.2 flare on 2017-Apr-03 at 01:05 UT. M5.8 flare on 2017-Apr-03 14:31 UT. A**clearLyman-alpha**

							flarewasobserved in the beginning of the GOES flare in highquality unit 1.
MSDP/Tour Solaire de Meudon (France)	3 April	07:50-08:56		656.3	AR 12645	60	fine
	3 April	09:28-10:02		656.3	Disk center with ALMA		fine
	3 April	11:00-12:13		854.2	AR 12645	30	fine
	3 April	12:26		854.2	AR 12644	30	fine
	3 April	12:27-12:56		656.2	AR 12644	60	Fine eruption
	3 April	13:29-14:23		656.3	AR 12645	60	fine
	3 April	15:02-15:31		656.3	AR 12644	30	fine
CLIMSO-L2	3 April	07:45	16:13	393.3	whole disk	464	1 image per minute, weather permitting
CLIMSO-C1	3 April	07:45	16:12	656.3	prominences, 360°	441	1 image per minute, weather permitting
CLIMSO-L1	3 April	12:45	13:11	656.3	whole disk	19	1 image per minute, weather permitting
CLIMSO-C2	3 April	07:45	16:12	393.3	prominences, 360°	431	1 image per minute, weather permitting

GREGOR GRIS	03 April	09:40	10:10	1083	-797 -16 NOAA 12648	1 scan	Seeingpoor

NVST	4 April	2:00	5:35	Imaging system: Ha center 、 TiO	target:12645		Weather bad seeing, strong wind
		5:40	7:55	Imaging system: Ha center 、 TiO	target:12645		Weather bad seeing, strong wind
GREGOR GRIS	04 April	08:57	09:39	1083	-682 24 NOAA 12648	1 scan	
GREGOR HiFI	04 April	08:58	09:28	450 G-band	-682 24 NOAA 12648	90	

ONSET	4 April	01:23	03:00	656.3 (0,±0.05) 360 425	AR12645	177	Weather: strong wind Seeing: bad Eruption: active region

		03:02	07:35		12644/12647	535	
		07:36	08:37		AR12645	78	
		08:38	09:02		12644/12647	21	
INAF - OACt	4 April	05: 36	05:36	656.28	Full disk	1	Weather: cloudy Seeing: bad Eruption:-
KSO H-alpha **Full Disc** **2048x2048@12bit**	4 April	06:06	13:57	656.3	0 0	195	Mostly Cloudy, 2 hours sunshine Seeing: fair no Flare
KSO CaIIK **Full Disk** **2048x2048@12bit**	4 April	08:28	13:53	393.3	0 0	13	Mostly Cloudy, 2 hours sunshine Seeing: fair
KSO Whitelight **Full Disk** **2048x2048@12bit**	4 April	08:27	13:57	546	0 0	41	Mostly Cloudy, 2 hours sunshine Seeing: fair no Flare
USET							
Date	**Filter**	**Obs. begin**	**Obs. end**	**Number of images**	**Observers**	**Quality**	**Remarks**
04-04-2017	White light	06:42:23	14:54:50	38	AM:FCE,BAB PM:OLM	AM:2 PM:3	
	H	06:36:55	13:09:39	46754			
	Ca II K	06:36:42	13:09:37	44304			