

Total Solar Eclipse of 29 March, 2006: Data Log and Raw Images

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Abstract

During the total solar eclipse of March 29th, 2006, a team of the “INAF-Osservatorio Astronomico di Torino” (OATo) and the “Osservatorio Astronomico della Valle d’Aosta” (OAVdA) carried out a series of observations of the polarized brightness (pB) of the K-corona in the Sahara desert, at Waw-An-Namous (Libya). The instrument used was an Eclipse telescope with a K-corona polarimeter based on Liquid Crystals (E-KPol).

This report includes all the raw polarized images (i.e., with no flat field applied and background removed) taken with the E-KPol during the eclipse. The logbooks of the science and calibration observations are also reported.

PART I

DATA

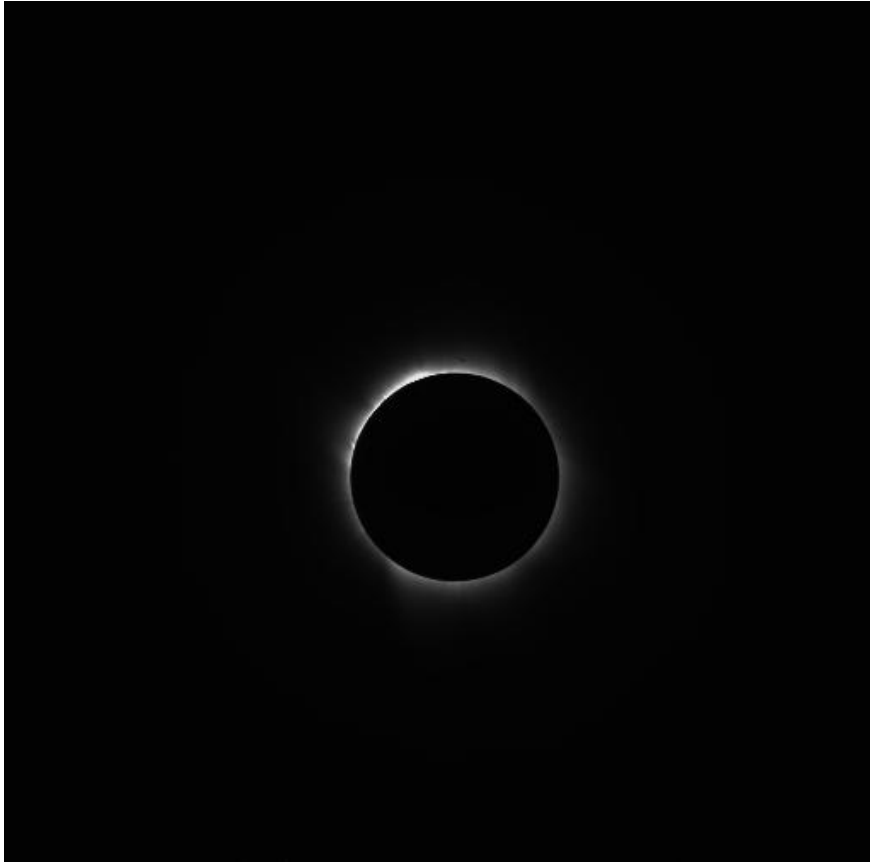


Figure 1 – Sequence #1; $T_{exp} = 250$ ms; $V_{LCVR} = 10$ V (test).



Figure 2– Sequence #1; $T_{exp} = 250$ ms; $V_{LCVR} = 4.5$ V.



Figure 3 - *Sequence #1; $T_{exp} = 250$ ms; $V_{LCVR} = 5.4$ V.*



Figure 4 - *Sequence #1; $T_{exp} = 250$ ms; $V_{LCVR} = 7$ V.*



Figure 5 - Sequence #1; $T_{exp} = 250 \text{ ms}$; $V_{LCVR} = 10 \text{ V}$.



Figure 6 - Sequence #1; $T_{exp} = 1000 \text{ ms}$; $V_{LCVR} = 4.5 \text{ V}$.



Figure 7 - *Sequence #1; $T_{exp} = 1000$ ms; $V_{LCVR} = 5.4$ V.*



Figure 8 - *Sequence #1; $T_{exp} = 1000$ ms; $V_{LCVR} = 7$ V.*



Figure 9 - *Sequence #1; $T_{exp} = 1000$ ms; $V_{LCVR} = 10$ V.*

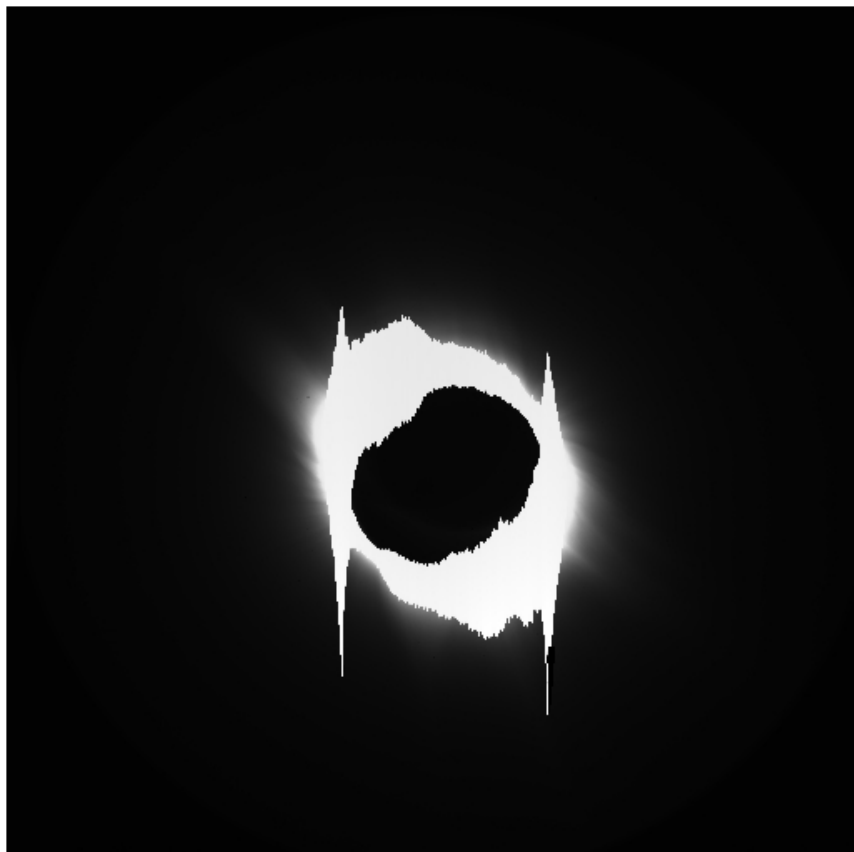


Figure 10 - *Sequence #1; $T_{exp} = 4000$ ms; $V_{LCVR} = 4.5$ V.*

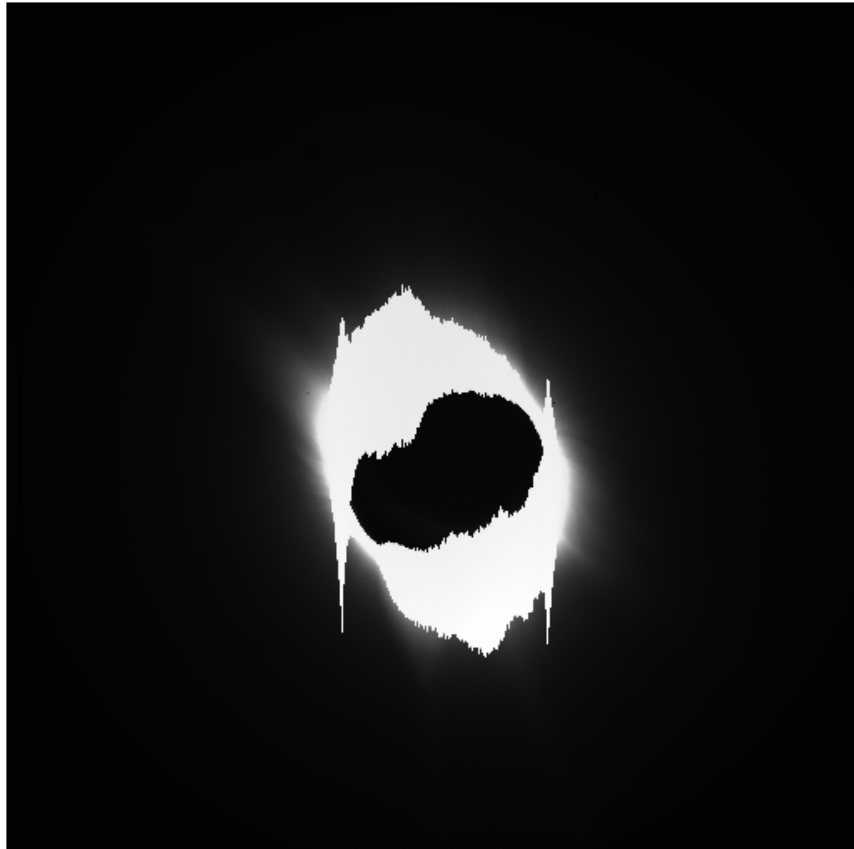


Figure 11 - *Sequence #1; $T_{exp} = 4000$ ms; $V_{LCVR} = 5.4$ V.*

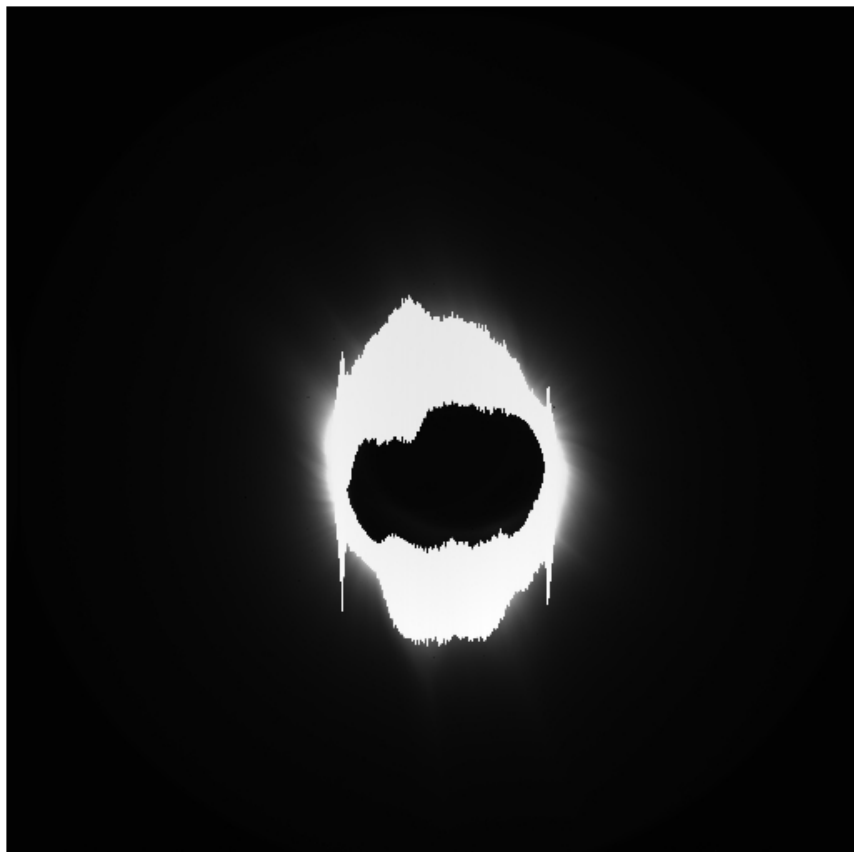


Figure 12 - *Sequence #1; $T_{exp} = 4000$ ms; $V_{LCVR} = 7$ V.*

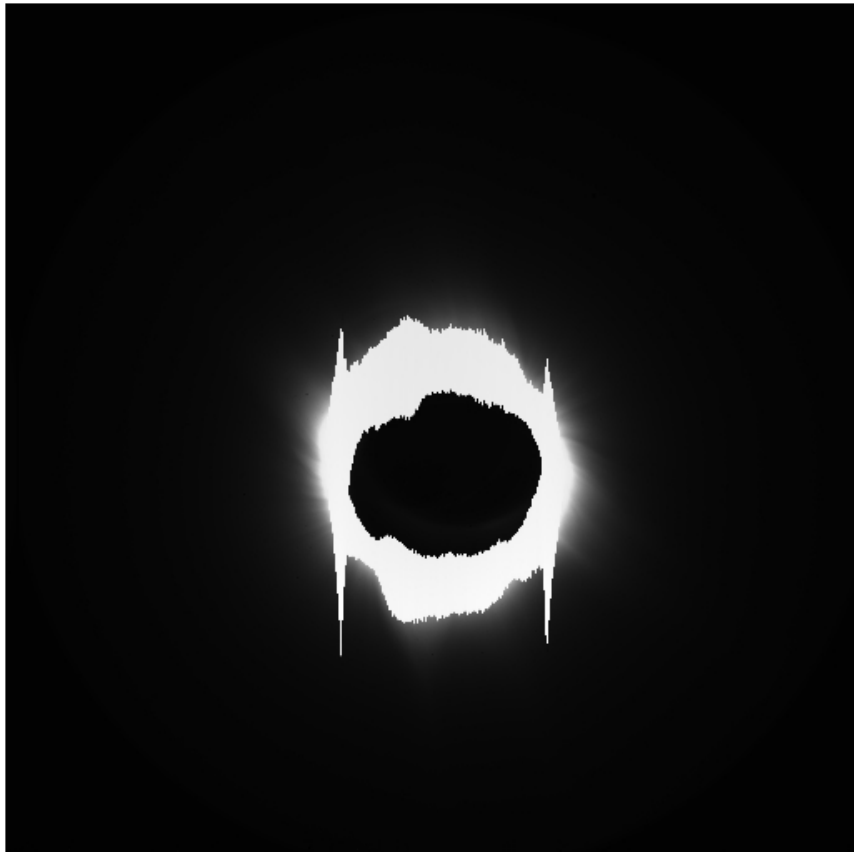


Figure 13 - *Sequence #1; $T_{exp} = 4000$ ms; $V_{LCVR} = 10$ V.*



Figure 14 - *Sequence #2; $T_{exp} = 250$ ms; $V_{LCVR} = 4.5$ V.*



Figure 15 - *Sequence #2; $T_{exp} = 250$ ms; $V_{LCVR} = 5.4$ V.*



Figure 16 - *Sequence #2; $T_{exp} = 250$ ms; $V_{LCVR} = 7$ V.*



Figure 17 - *Sequence #2; $T_{exp} = 250$ ms; $V_{LCVR} = 10$ V.*



Figure 18 - *Sequence #2; $T_{exp} = 1000$ ms; $V_{LCVR} = 4.5$ V.*



Figure 19 - *Sequence #2; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 5.4\text{ V}$.*



Figure 20 - *Sequence #2; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 7\text{ V}$.*



Figure 21 - Sequence #2; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 10\text{ V}$.

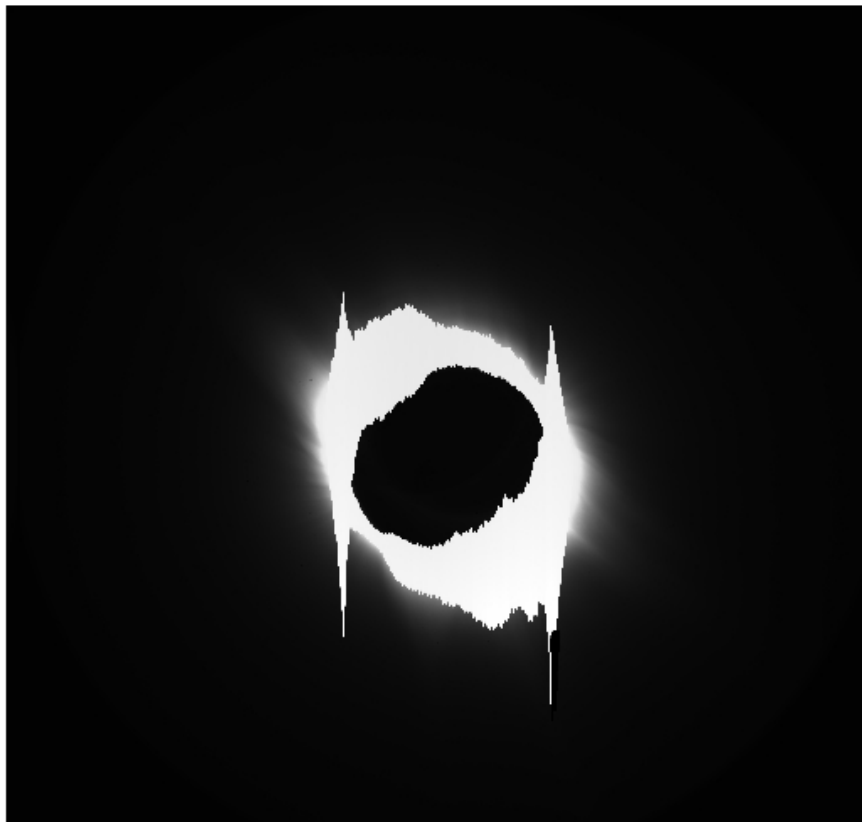


Figure 22 - Sequence #2; $T_{exp} = 4000\text{ ms}$; $V_{LCVR} = 4.5\text{ V}$.

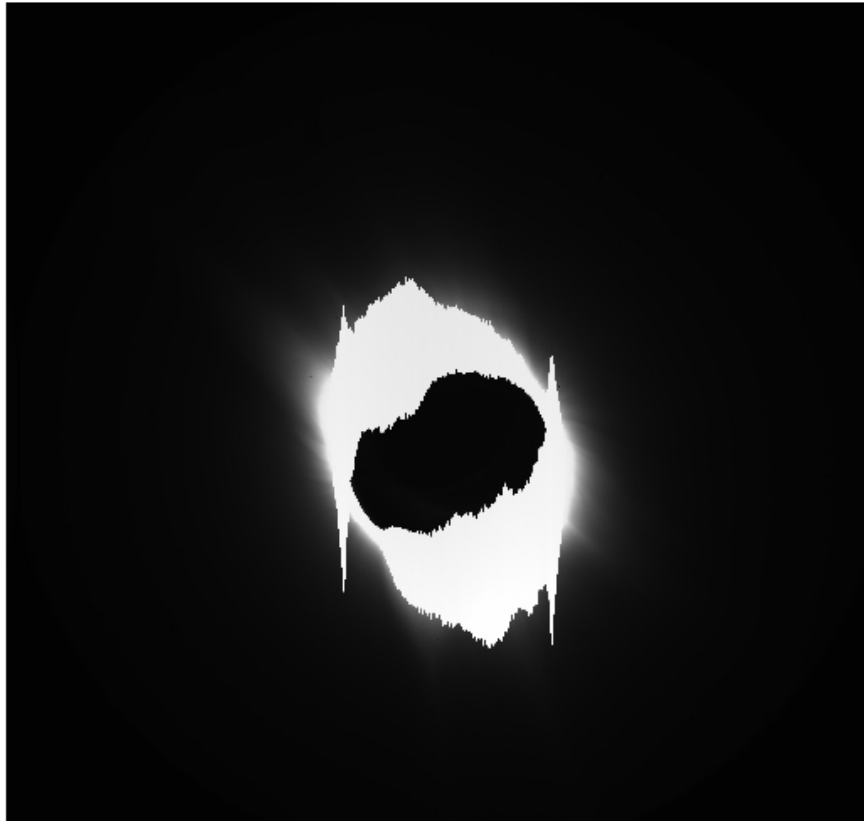


Figure 23 - *Sequence #2; $T_{exp} = 4000$ ms; $V_{LCVR} = 5.4$ V.*

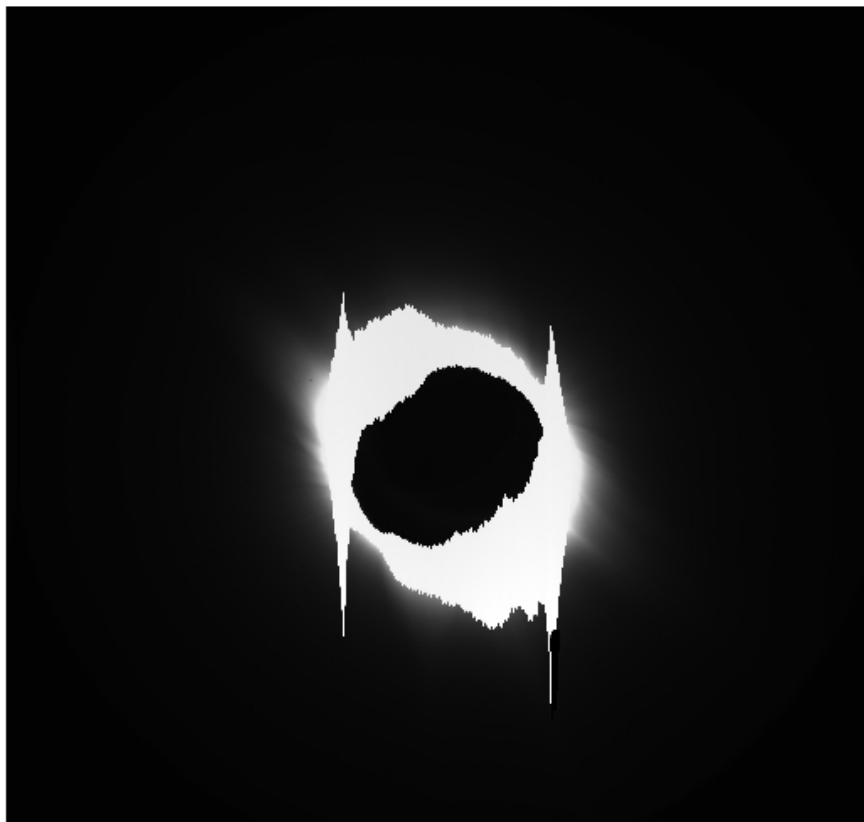


Figure 24 - *Sequence #2; $T_{exp} = 4000$ ms; $V_{LCVR} = 7$ V.*

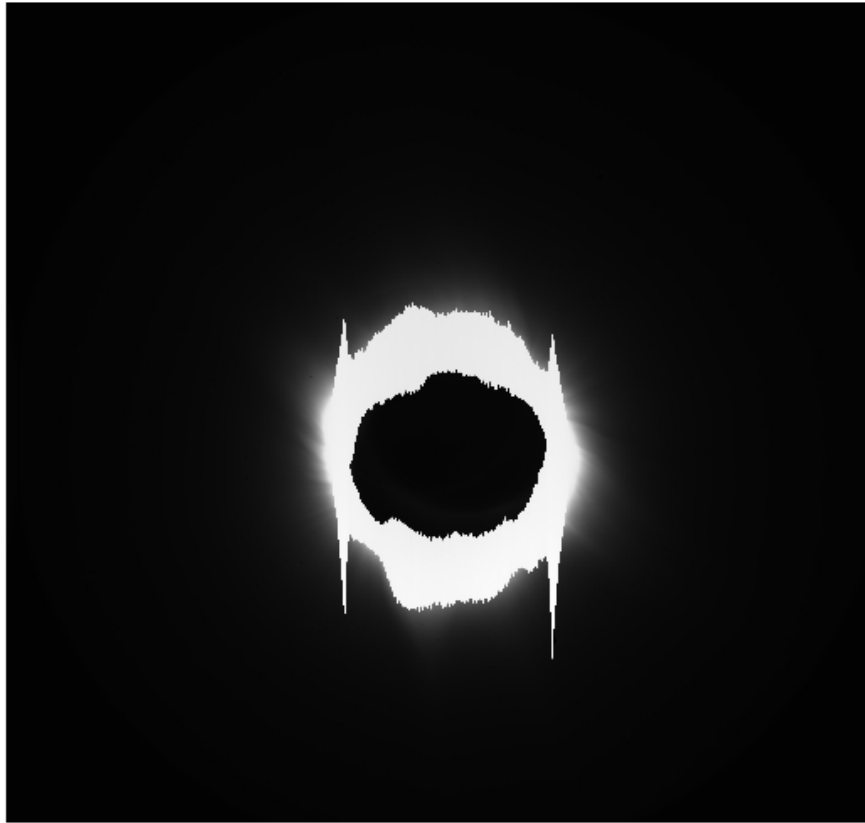


Figure 25 - *Sequence #2; $T_{exp} = 4000$ ms; $V_{LCVR} = 10$ V.*



Figure 26 - *Sequence #3; $T_{exp} = 1000$ ms; $V_{LCVR} = 4.5$ V.*

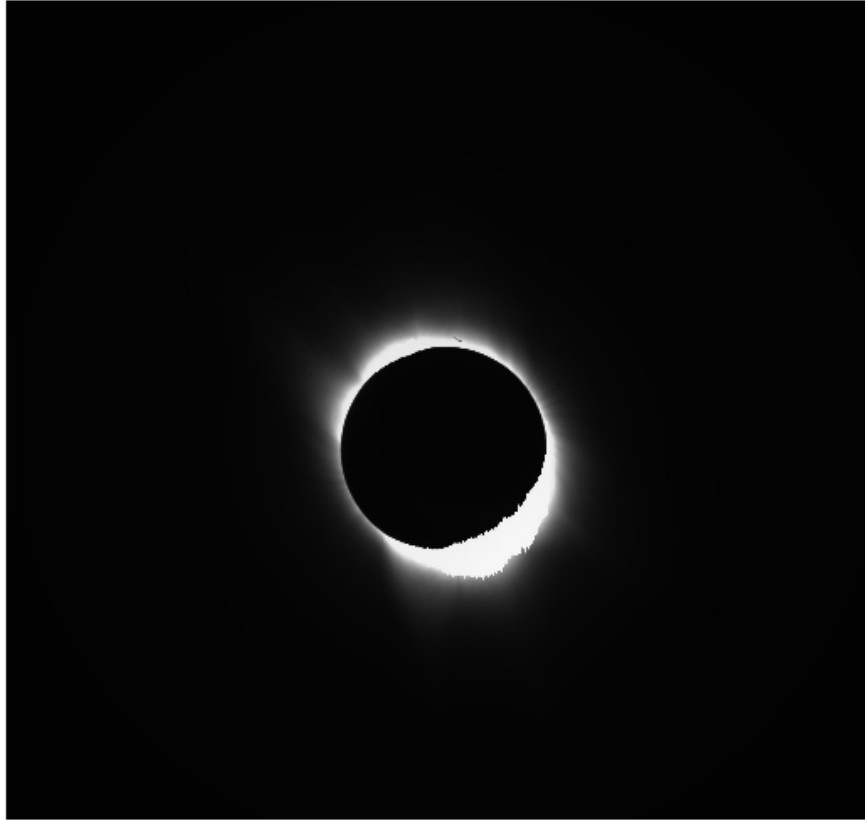


Figure 27 - *Sequence #3; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 5.4\text{ V}$.*



Figure 28 - *Sequence #3; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 7\text{ V}$.*



Figure 29 - Sequence #3; $T_{exp} = 1000\text{ ms}$; $V_{LCVR} = 10\text{ V}$.

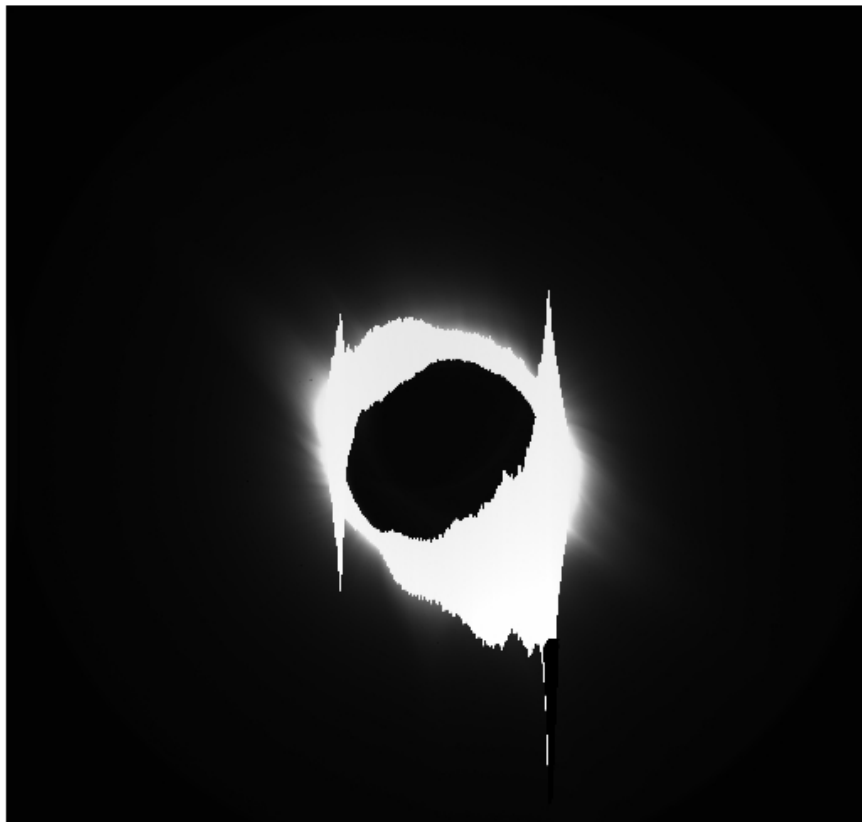


Figure 30 - Sequence #3; $T_{exp} = 4000\text{ ms}$; $V_{LCVR} = 4.5\text{ V}$.

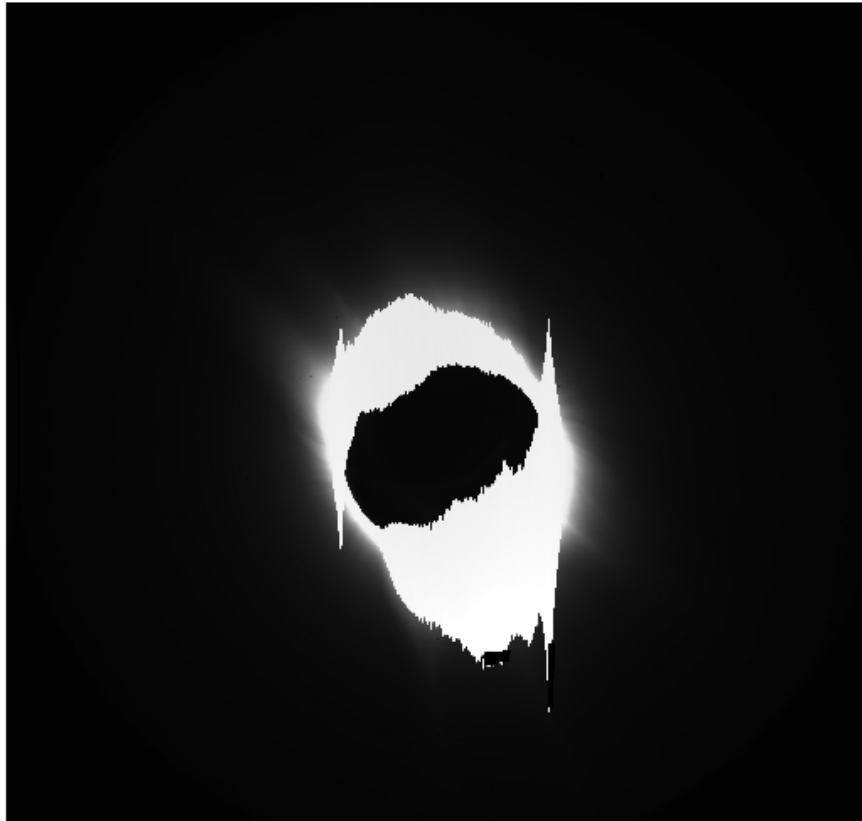


Figure 31 - *Sequence #3; $T_{exp} = 4000$ ms; $V_{LCVR} = 5.4$ V.*

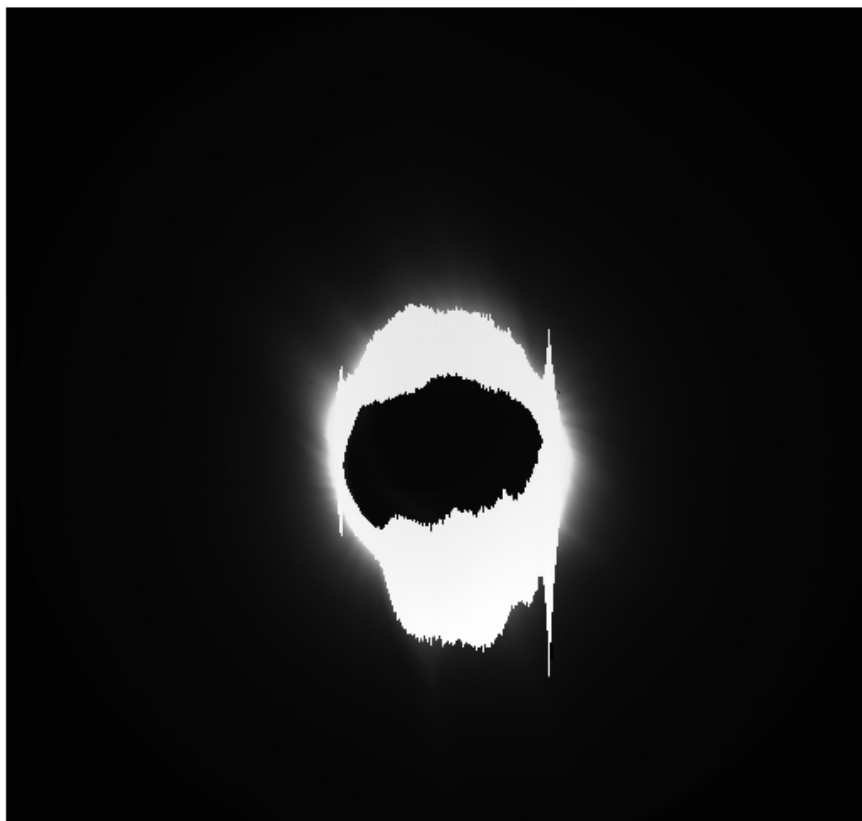


Figure 32 - *Sequence #3; $T_{exp} = 4000$ ms; $V_{LCVR} = 7$ V.*

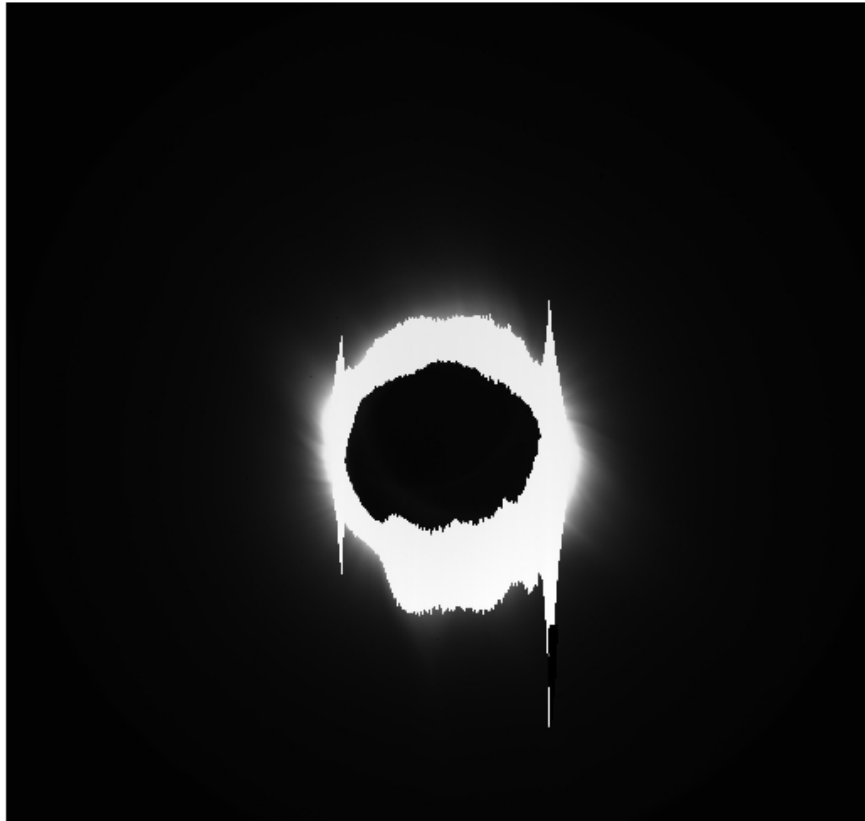


Figure 33 - *Sequence #3; $T_{exp} = 4000$ ms; $V_{LCVR} = 10$ V.*

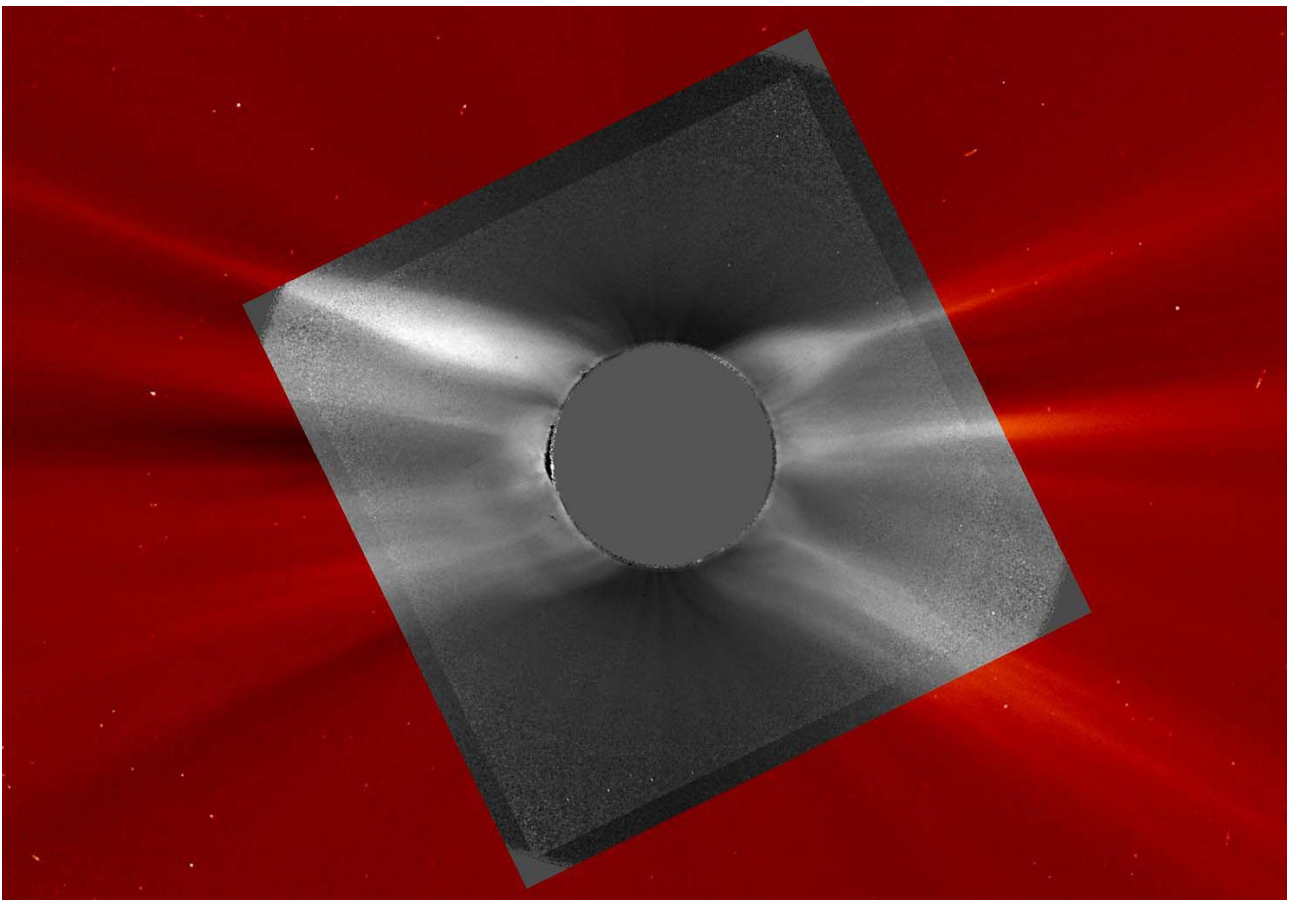


Figure 34 - *E-KPol + LASCO C-2.*

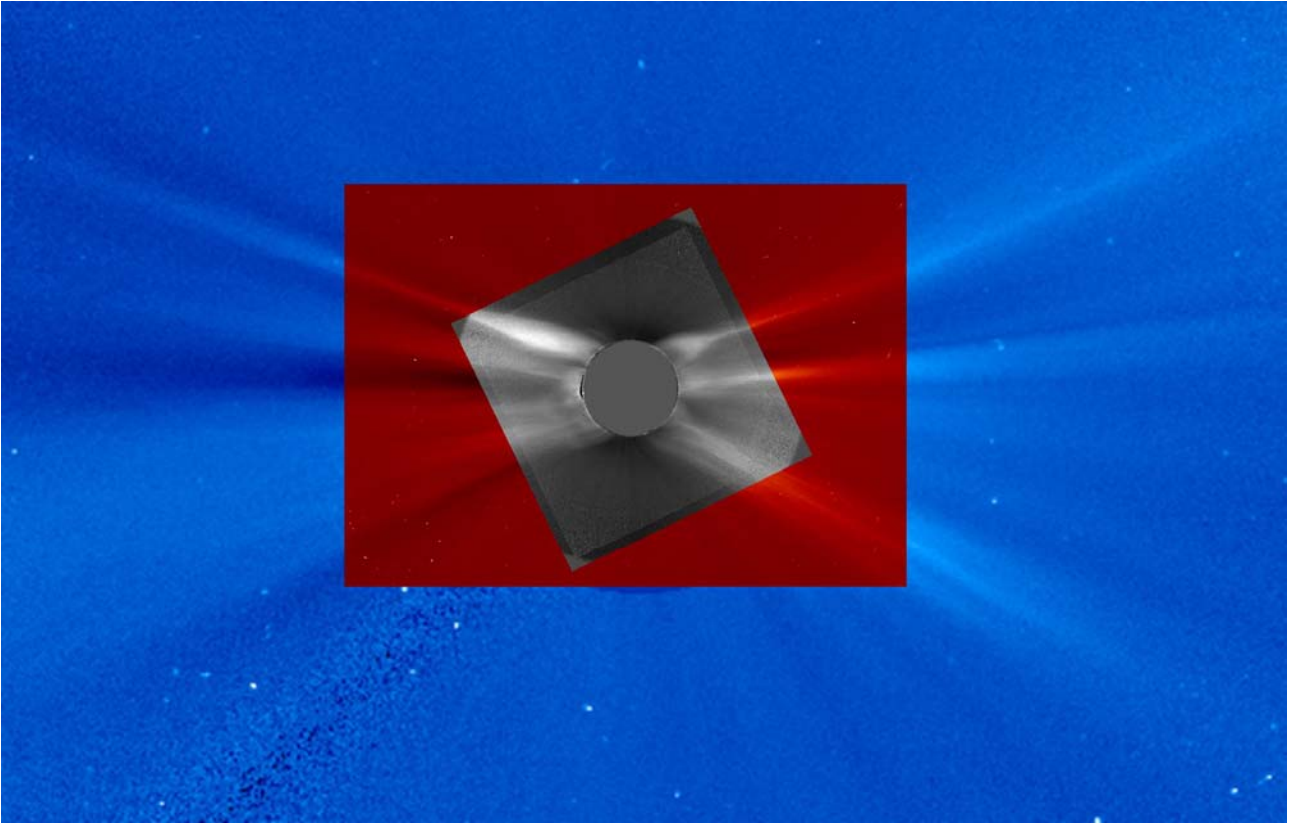


Figure 35 - *E-KPol + LASCO C-2 + LASCO C-3.*

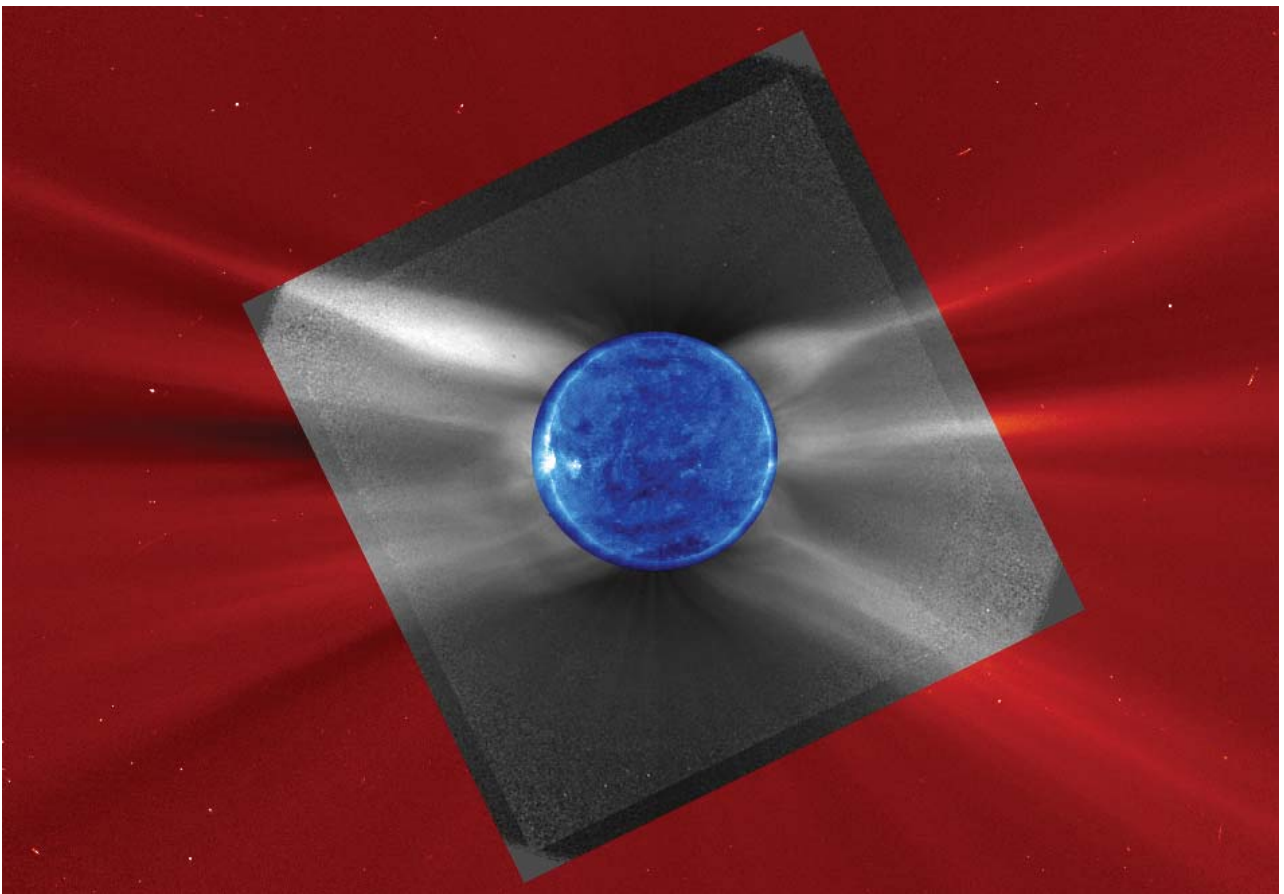


Figure 36- *EIT+E-KPol + LASCO C-2.*

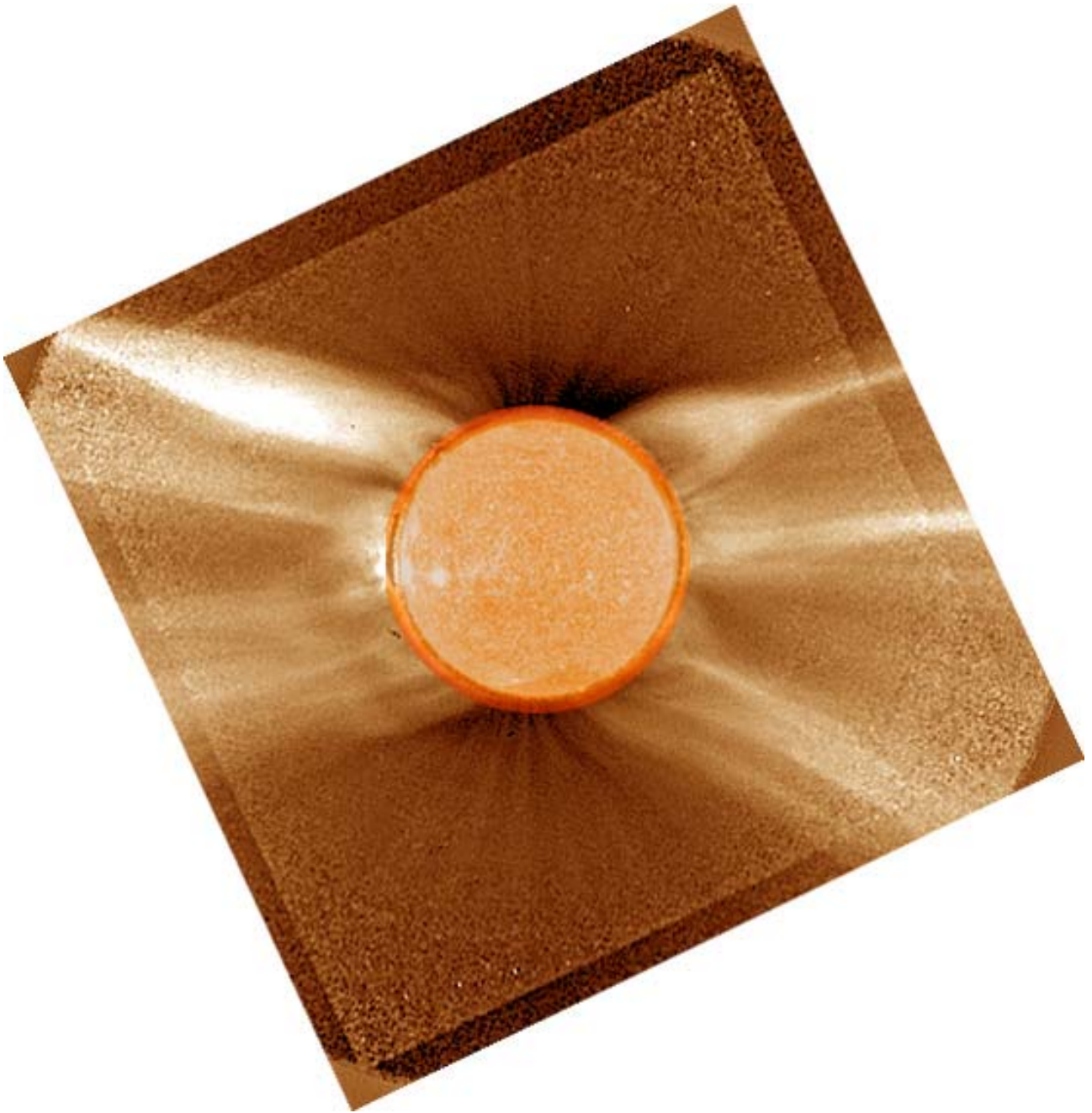


Figure 37 – *EIT + E-KPol.*

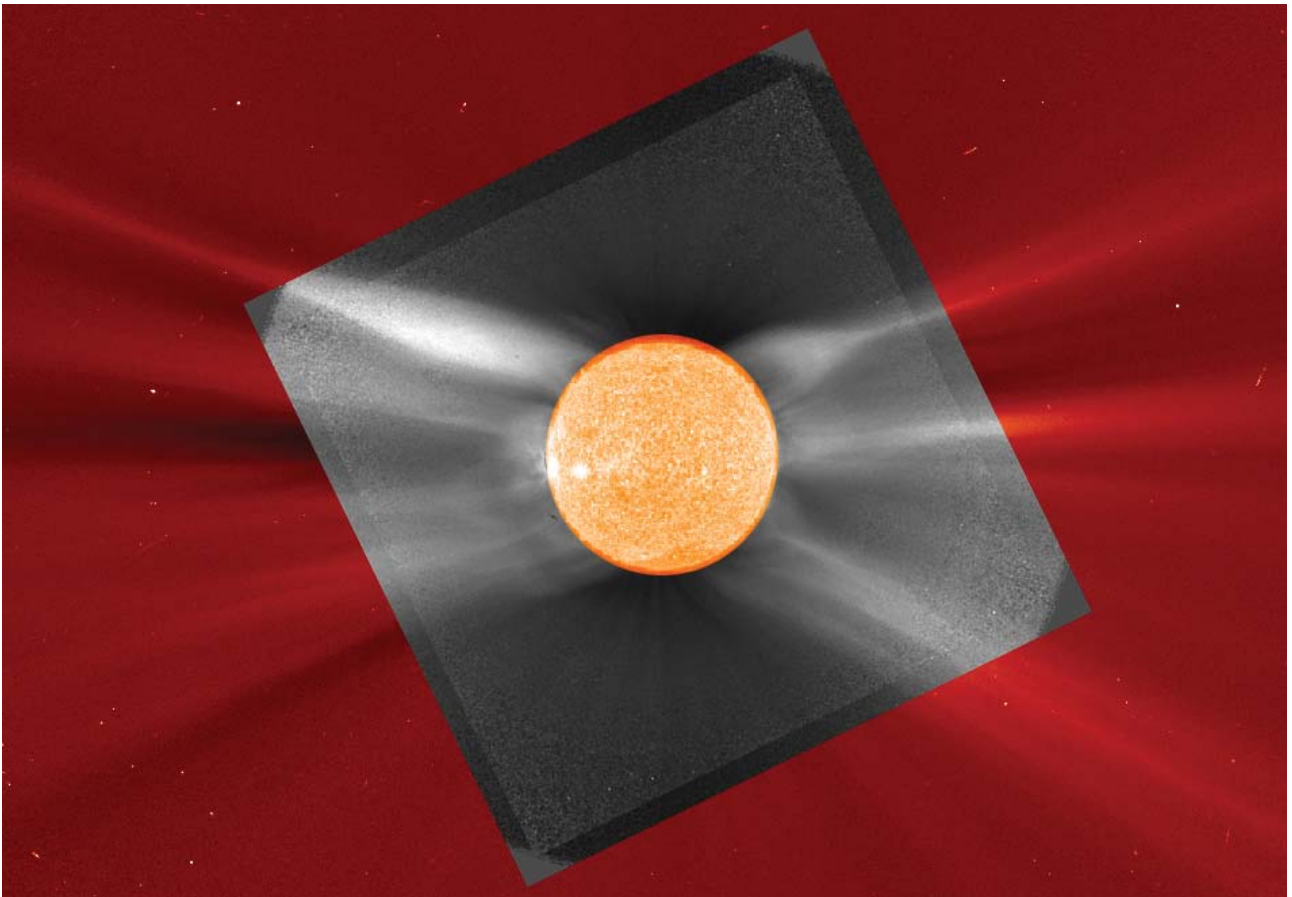


Figure 38 – *EIT + E-KPol + LASCO C-2.*

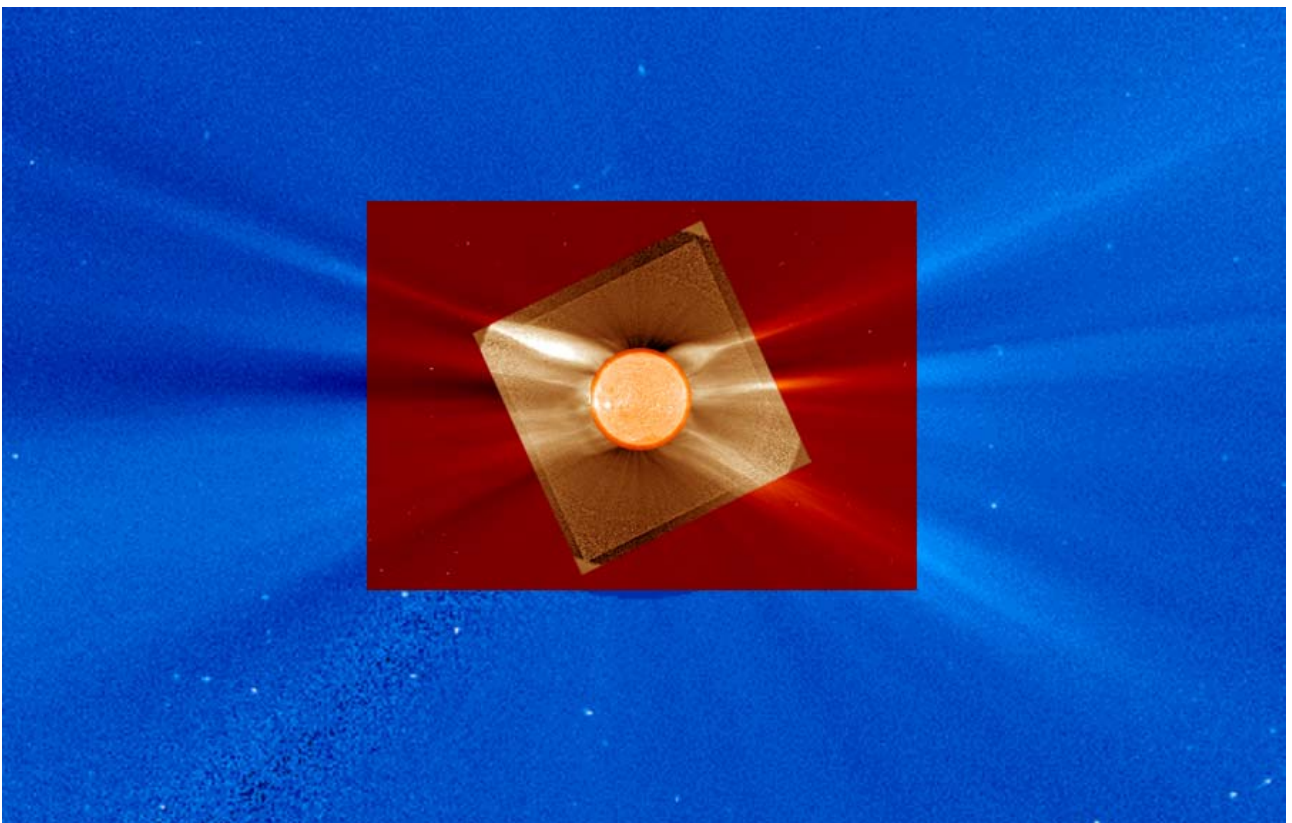


Figure 39 - *EIT + E-KPol + LASCO C-2 + LASCO C-3.*

PART II
LOGBOOK

23 February, 2006

CCD Test

Files:

D:\EKPOL\OAVDA\2006-02-23_provaCCD\flat.FIT

D:\EKPOL\OAVDA\2006-02-23_provaCCD\monte.FIT

D:\EKPOL\OAVDA\2006-02-23_provaCCD\punta_chaligne.FIT

D:\EKPOL\OAVDA\2006-02-23_provaCCD\sun.FIT

D:\EKPOL\OAVDA\2006-02-23_provaCCD\sun2.FIT

D:\EKPOL\OAVDA\2006-02-23_provaCCD\sun3.FIT

This acquisition was executed for image quality monitoring.

14-15-16 March, 2006

Exposures Time Calibration

Folders:

D:\EKPol\OAVDA\2006_03_14

D:\EKPol\OAVDA\2006_03_15

D:\EKPol\OAVDA\2006_03_16

26 March, 2006

h 18:00

H α Tests

Camera setup:

Rate:

- Pixel period: 2.2 μ s
- Parallel state: 70 μ s
- Disking wait: 57.2 μ s
- After exposure: 146.4408 μ s
- Flush mode

Hα Tests					
Setup: filter H α					
#	Time	Exp [ms]	File name	Directory	Note
	18:16	10	H-alpha_2006_03_26_18_16_10ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	H α test
	18:17	40	H-alpha_2006_03_26_18_17_40ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	H α test
	18:18	125	H-alpha_2006_03_26_18_18_125ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	H α test
	18:19	1000	H-alpha_2006_03_26_18_19_1000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	H α test
	18:20	4000	H-alpha_2006_03_26_18_20_4000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	H α test; moved by wind gusts

Broad Band Tests					
Setup: filter broad band					
#	Time	Exp [ms]	File name	Directory	Note
	18:30	125	BroadB_2006_03_26_18_32_10ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad band test; out of focus (set for the STV)
	18:32	500	BroadB_2006_03_26_18_34_500ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad band test; on focus
	18:34	4000	BroadB_2006_03_26_18_34_4000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad band test; not updated
	18:38	8000	BroadB_2006_03_26_18_38_8000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad band test; saturate in low gain
					Control high
	18:40	1000	BroadB_2006_03_26_18_40_H_1000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Saturato
	18:42	250	File missing?	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Counts: 47000 (max)
	18:43	300	BroadB_2006_03_26_18_43_H_300ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Counts: 51000

Broad Band and Polarization Tests						
Setup: filter Broad Band(?); high gain						
#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
	18:49	300	10000	BroadB_2006_03_26_18_49_10V_300ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
	18:50	300	7000	BroadB_2006_03_26_18_50_7V_300ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	18:51	300	5400	BroadB_2006_03_26_18_51_5.4V_300ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	18:53	300	4500	BroadB_2006_03_26_18_53_4.5V_300ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	18:57	600	10000	BroadB_2006_03_26_18_57_10V_600ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	18:58	600	7000	BroadB_2006_03_26_18_58_7V_600ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	18:49	600	5400	BroadB_2006_03_26_18_59_5.4V_600ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
	19:00	600	4500	BroadB_2006_03_26_19_00_4.5V_600ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_26	Broad Band Test
Some modulation observed from sky brightness polarization.						

28 March, 2006

Imaging Tests

Setup:

- Generic prefilters
- LCVR @ 30°C
- CCD gain: high
- S/W: PixelVision

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
	10:46	250	10000	ImaTest_06_03_28_250ms_10aV.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	Imaging Test
		250	10000	ImaTest_06_03_28_250ms_10bV.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	Imaging Test
		250	7000	ImaTest_06_03_28_250ms_7V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	Imaging Test
		250	5400	ImaTest_06_03_28_250ms_5.4V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	Imaging Test; saturated

Exposure Test: 100ms best

Focusing Tests

#	Time	Exp [ms]	LCVR [mV]	Focus	File name	Directory	Note
	11:00	100	10000	57	FocTest_06_03_28_100ms_57.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
	11:01	100	10000	52	FocTest_06_03_28_100ms_52.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
	11:02	100	10000	54	FocTest_06_03_28_100ms_54.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
	11:03	100	10000	56	FocTest_06_03_28_100ms_56.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
	11:04	100	10000	58	FocTest_06_03_28_100ms_58.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
		100	10000	60	FocTest_06_03_28_100ms_60.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
		100	10000	62	FocTest_06_03_28_100ms_62.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests\Focus	Focusing Test
Best focus @ 55 (tentative)							
Refining test							
	11:15	100	10000	52	FocTest_06_03_28_100ms_52b.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test
	11:16	100	10000	53	FocTest_06_03_28_100ms_53.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test
	11:16	100	10000	54	FocTest_06_03_28_100ms_54b.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test
	11:17	100	10000	55	FocTest_06_03_28_100ms_55.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test
	11:18	100	10000	56	FocTest_06_03_28_100ms_56b.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test
	11:19	100	10000	57	FocTest_06_03_28_100ms_57.FIT	D:\2006_03_28\ImaTests\Focus	Focusing Test

Focus @ 55

S/W Tests

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		10	10000	SeqTest_06_03_28_10ms_10V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	S/W PixelVision
2		10	7000	SeqTest_06_03_28_10ms_7V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
3		10	5400	SeqTest_06_03_28_10ms_5.4V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
4		10	4500	SeqTest_06_03_28_10ms_4.5V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
5		30	10000	SeqTest_06_03_28_30ms_10V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
6		30	7000	SeqTest_06_03_28_30ms_7V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
7		30	5400	SeqTest_06_03_28_30ms_5.4V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
8		30	4500	SeqTest_06_03_28_30ms_4.5V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
9		100	10000	SeqTest_06_03_28_100ms_10V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
10		100	7000	SeqTest_06_03_28_100ms_7V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
11		100	5400	SeqTest_06_03_28_100ms_5.4V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
12		100	4500	SeqTest_06_03_28_100ms_4.5V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
13		250	10000	SeqTest_06_03_28_250ms_10V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
14		250	7000	SeqTest_06_03_28_250ms_7V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
15		250	5400	SeqTest_06_03_28_250ms_5.4V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	
16		250	4500	SeqTest_06_03_28_250ms_4.5V.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\ImaTests	

Disk Brightness Calibration

Ore 12.00
Setup: Opal 5B

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		250	10000	DiskCal_06_03_28_250ms_10V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	Opal 5B
2		250	7000	DiskCal_06_03_28_250ms_7V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
3		250	5400	DiskCal_06_03_28_250ms_5.4V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
4		250	4500	DiskCal_06_03_28_250ms_4.5V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
5		1000	10000	DiskCal_06_03_28_1000ms_10V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
6		1000	7000	DiskCal_06_03_28_1000ms_7V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
7		1000	5400	DiskCal_06_03_28_1000ms_5.4V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
8		1000	4500	DiskCal_06_03_28_1000ms_4.5V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
1		250	10000	DiskCal_06_03_28_250ms_10V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
2		250	7000	DiskCal_06_03_28_250ms_7V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
3		250	5400	DiskCal_06_03_28_250ms_5.4V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
4		250	4500	DiskCal_06_03_28_250ms_4.5V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
5		1000	10000	DiskCal_06_03_28_1000ms_10V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
6		1000	7000	DiskCal_06_03_28_1000ms_7V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
7		1000	5400	DiskCal_06_03_28_1000ms_5.4V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
8		1000	4500	DiskCal_06_03_28_1000ms_4.5V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
1		250	10000	DiskCal_06_03_28_250ms_10V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
2		250	7000	DiskCal_06_03_28_250ms_7V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
3		250	5400	DiskCal_06_03_28_250ms_5.4V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
4		250	4500	DiskCal_06_03_28_250ms_4.5V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
5		1000	10000	DiskCal_06_03_28_1000ms_10V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
6		1000	7000	DiskCal_06_03_28_1000ms_7V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
7		1000	5400	DiskCal_06_03_28_1000ms_5.4V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	
8		1000	4500	DiskCal_06_03_28_1000ms_4.5V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5B	

Disk Brightness Calibration

Setup: Opal 5C

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		1000	10000	DiskCal_06_03_28_1000ms_10V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	Opal 5C
2		1000	7000	DiskCal_06_03_28_1000ms_7V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
3		1000	5400	DiskCal_06_03_28_1000ms_5.4V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
4		1000	4500	DiskCal_06_03_28_1000ms_4.5V_a.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
5		1000	10000	DiskCal_06_03_28_1000ms_10V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
6		1000	7000	DiskCal_06_03_28_1000ms_7V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
7		1000	5400	DiskCal_06_03_28_1000ms_5.4V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
8		1000	4500	DiskCal_06_03_28_1000ms_4.5V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
9		4000	10000	DiskCal_06_03_28_4000ms_10V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
10		4000	7000	DiskCal_06_03_28_4000ms_7V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
11		4000	5400	DiskCal_06_03_28_4000ms_5.4V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
12		4000	4500	DiskCal_06_03_28_4000ms_4.5V_b.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
13		1000	10000	DiskCal_06_03_28_1000ms_10V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
14		1000	7000	DiskCal_06_03_28_1000ms_7V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
15		1000	5400	DiskCal_06_03_28_1000ms_5.4V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
16		1000	4500	DiskCal_06_03_28_1000ms_4.5V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
17		4000	10000	DiskCal_06_03_28_4000ms_10V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
18		4000	7000	DiskCal_06_03_28_4000ms_7V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
19		4000	5400	DiskCal_06_03_28_4000ms_5.4V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	
20		4000	4500	DiskCal_06_03_28_4000ms_4.5V_c.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\DiskCal\5C	

Dark

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1	12.54	250		dark_06_03_28_12_54_250ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	
2	12.55	500		dark_06_03_28_12_55_500ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	
3	12.56	1000		dark_06_03_28_12_56_1000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	
4	12.57	2000		dark_06_03_28_12_57_2000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	
5	12.58	4000		dark_06_03_28_12_58_4000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	
6	12.58	8000		dark_06_03_28_12_58_8000ms.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Dark	

Polarization Calibration

Setup: Prepol. + Opal 5B
 LCVR = 30°
 Exp Time = 1000ms

#	Time	LCVR [mV]	Pre.	File name	Directory	Note
1	13.15	10000	-45°	PolCal_06_03_28_10000mV_m45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
2	13.15	10000	0	PolCal_06_03_28_10000mV_0.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
3	13.18	10000	+45°	PolCal_06_03_28_10000mV_p45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
4	13.19	10000	+90°	PolCal_06_03_28_10000mV_p90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
5	13.19	7000	-45°	PolCal_06_03_28_7000mV_m45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
6	13.19	7000	0	PolCal_06_03_28_7000mV_0.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
7	13.20	7000	+45°	PolCal_06_03_28_7000mV_p45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
8	13.20	7000	+90°	PolCal_06_03_28_7000mV_p90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
9	13.20	5400	-45°	PolCal_06_03_28_5400mV_m45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
10	13.21	5400	0	PolCal_06_03_28_5400mV_0.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
11	13.21	5400	+45°	PolCal_06_03_28_5400mV_p45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
12	13.21	5400	+90°	PolCal_06_03_28_5400mV_p90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
13	13.21	4500	-45°	PolCal_06_03_28_4500mV_m45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	

#	Time	LCVR [mV]	Pre.	File name	Directory	Note
14	13.21	4500	0	PolCal_06_03_28_4500mV_0.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
15	13.22	4500	+45°	PolCal_06_03_28_4500mV_p45.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
16	13.22	4500	+90°	PolCal_06_03_28_4500mV_p90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
17	13.23	4500	-90°	PolCal_06_03_28_4500mV_m90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
18	13.23	5400	-90°	PolCal_06_03_28_5400mV_m90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
19	13.23	7000	-90°	PolCal_06_03_28_7000mV_m90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	
20	13.23	10000	-90°	PolCal_06_03_28_10000mV_m90.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\PolCal	

Flat Field Calibration

Setup: LCVR @ 30°C, Telescope @ 20° from Zenith

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1	17.40	125	10000	Flat_06_03_28_125ms_10V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
2	17.42	250	10000	Flat_06_03_28_250ms_10V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
3	17.43	250	10000	Flat_06_03_28_250ms_10V_02.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
4	17.43	250	7000	Flat_06_03_28_250ms_07V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
5	17.44	250	5400	Flat_06_03_28_250ms_05.4V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
6	17.45	250	4500	Flat_06_03_28_250ms_04.5V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
7	17.46	1000	10000	Flat_06_03_28_1000ms_10V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
8		1000	7000	Flat_06_03_28_1000ms_07V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
9		1000	5400	Flat_06_03_28_1000ms_05.4V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
10	18.00	1000	4500	Flat_06_03_28_1000ms_04.5V_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	Sky is polarized!!!!
OPAL 5B						
1	18.01	1000	10000	Flat_06_03_28_1000ms_10V_5B_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
2	18.04	2000	10000	Flat_06_03_28_2000ms_10V_5B_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
3	18.04	2000	7000	Flat_06_03_28_2000ms_07V_5B_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
4	18.05	2000	5400	Flat_06_03_28_2000ms_05.4V_5B_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
5	18.05	2000	4500	Flat_06_03_28_2000ms_04.5V_5B_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
Telescope @ Zenith						
1	18.07	2000	10000	Flat_06_03_28_2000ms_10V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
2		4000	10000	Flat_06_03_28_4000ms_10V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
3		6000	10000	Flat_06_03_28_6000ms_10V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
4	18.11	6000	7000	Flat_06_03_28_6000ms_07V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
5		6000	5400	Flat_06_03_28_6000ms_05.4V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	
6	18.12	6000	4500	Flat_06_03_28_6000ms_04.5V_5B_zenit_01.FIT	D:\EKPOL\ECLIPSE_SITE\2006_03_28\Flat	

Tracking test

h. 21.59

Star: Regolo

Files:

D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2159_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2202_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2206_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2208_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2210_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2212_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2214_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2216_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2218_1000ms.FIT
D:\EKPOL\ECLIPSE_SITE\2006_03_28\Tracking\Regolo06_03_28_h2220_1000ms.FIT

29 March, Eclipse day

Test to be run:

Before first contact

- Polarization calibration
- Disk calibration
- Focus test

CCD configuration:

- Binning: 1
- Channel x: 1024; y:1024
- No ROI
- Gain : High
- Rate:
 - Master clock: 100ms
 - Readout Mode
 - Pixel period: 2.2 μ s
 - Parallel state: 70 μ s
 - Disking wait: 57.2 μ s
 - After exposure: 146.44 μ s
 - Flush mode
 - Pixel period: 2.2 μ s

LCVR configuration:

- Temp.: 28.6°C

Polarization Calibration

Setup: Prepol. + Opal 5B

#	Time	Exp [ms]	LCVR [mV]	Pre .	File name	Directory	Note
1	10:24	1000	10000	-90°	PolCal_06_03_29_10V_m90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ PolCal\PreCal	Pol. Calibration
2	10:25	1000	10000	-45°	PolCal_06_03_29_10V_m45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
3	10:26	1000	10000	0°	PolCal_06_03_29_10V_0.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
4	10:26	1000	10000	45°	PolCal_06_03_29_10V_p45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration.; strange feature
5	10:26	1000	10000	90°	PolCal_06_03_29_10V_p90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
6	10:26	1000	7000	-90°	PolCal_06_03_29_7V_m90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
7	10:27	1000	7000	-45°	PolCal_06_03_29_7V_m45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
8	10:27	1000	7000	0°	PolCal_06_03_29_7V_0.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration.; strange feature
9	10:27	1000	7000	45°	PolCal_06_03_29_7V_p45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
10	10:27	1000	7000	90°	PolCal_06_03_29_7V_p90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
11	10:28	1000	5400	-90°	PolCal_06_03_29_5.4V_m90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
12	10:28	1000	5400	-45°	PolCal_06_03_29_5.4V_m45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
13	10:28	1000	5400	0°	PolCal_06_03_29_5.4V_0.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
14	10:28	1000	5400	45°	PolCal_06_03_29_5.4V_p45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
15	10:29	1000	5400	90°	PolCal_06_03_29_5.4V_p90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
16	10:29	1000	4500	-90°	PolCal_06_03_29_5.4V_m90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Cal.; strange feature
17	10:29	1000	4500	-45°	PolCal_06_03_29_5.4V_m45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
18	10:30	1000	4500	0°	PolCal_06_03_29_5.4V_0.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration
19	10:30	1000	4500	45°	PolCal_06_03_29_5.4V_p45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ \PolCal\PreCal	Pol. Calibration

#	Time	Exp [ms]	LCVR [mV]	Pre .	File name	Directory	Note
20	10:27	1000	4500	90°	PolCal_06_03_29_5.4V_p90.FIT	D:\EKPol\Eclipse_Site\2006_03_29 \PolCal\PreCal	Pol. Cal.; strange feature
21	10:42	1000			Dark_1000.FIT	D:\EKPol\Eclipse_Site\2006_03_29 \PolCal\PreCal	Dark; LCVR temp.: 29.1
22	10:42	10000			Dark_10000.FIT	D:\EKPol\Eclipse_Site\2006_03_29 \PolCal\PreCal	Dark; LCVR temp.: 29.1

Disk Calibration ; Opal : 5B ; LCVR temp. : 29.9 C

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		250	10000	DiskCaI_06_03_29_5b_10V_250ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
2		250	7000	DiskCaI_06_03_29_5b_7V_250ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
3		250	5400	DiskCaI_06_03_29_5b_5.4V_250ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
4		250	4500	DiskCaI_06_03_29_5b_4.5V_250ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
5		1000	10000	DiskCaI_06_03_29_5b_10V_1000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
6		1000	7000	DiskCaI_06_03_29_5b_7V_1000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
7		1000	5400	DiskCaI_06_03_29_5b_5.4V_1000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
8		1000	4500	DiskCaI_06_03_29_5b_4.5V_1000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration

Disk Calibration ; Opal : 5C

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		4000	10000	DiskCaI_06_03_29_5c_10V_4000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
2		4000	7000	DiskCaI_06_03_29_5c_7V_4000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration
3	10 :55	4000	5400	DiskCaI_06_03_29_5c_5.4V_4000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	DC - First contact
4		4000	4500	DiskCaI_06_03_29_5c_4.5V_4000ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PreCal	Disk Calibration

Note:

Verificare se il prepolarizzatore è stato rimosso durante le misure oppure no

Focus Test (with lunar edge on solar disk)

Time: 11:38

Setup: Generic filter

#	Time	Exp [ms]	Pos	File name	Directory	Note
1				FocusTest_06_03_29_11_36_100ms.FIT	D:\EKPol\Eclipse_Site\2006_03_29\Focus	Focus Test
2				FocusTest_06_03_29_11_48_100ms_pos55.FIT	D:\EKPol\Eclipse_Site\2006_03_29\Focus	Focus Test
3				FocusTest_06_03_29_11_48_100ms_pos53.FIT	D:\EKPol\Eclipse_Site\2006_03_29\Focus	Focus Test
4				FocusTest_06_03_29_11_36_100ms_pos56.FIT	D:\EKPol\Eclipse_Site\2006_03_29\Focus	Focus Test

I nomi dei file non corrispondono bene ai nomi del log.

Best focus @ 57mm

Observing sequence

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		250	10000	First_250ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	First image
2		250	10000	Image_06_03_29_250ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
3		250	7000	Image_06_03_29_250ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
4		250	5400	Image_06_03_29_250ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
5		250	4500	Image_06_03_29_250ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
6		1000	10000	Image_06_03_29_1000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
7		1000	7000	Image_06_03_29_1000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
8		1000	5400	Image_06_03_29_1000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
9		1000	4500	Image_06_03_29_1000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
10		4000	10000	Image_06_03_29_4000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
11		4000	7000	Image_06_03_29_4000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
12		4000	5400	Image_06_03_29_4000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
13		4000	4500	Image_06_03_29_4000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq1	Sequence 1
14		4000	10000	Image_06_03_29_4000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
15		4000	7000	Image_06_03_29_4000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
16		4000	5400	Image_06_03_29_4000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
17		4000	4500	Image_06_03_29_4000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
18		1000	10000	Image_06_03_29_1000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
19		1000	7000	Image_06_03_29_1000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
20		1000	5400	Image_06_03_29_1000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
21		1000	4500	Image_06_03_29_1000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2
22		250	10000	Image_06_03_29_250ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\pB\seq2	Sequence 2

23		250	7000	Image_06_03_29_250ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq2	Sequence 2
24		250	5400	Image_06_03_29_250ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq2	Sequence 2
25		250	4500	Image_06_03_29_250ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq2	Sequence 2
26		4000	10000	Image_06_03_29_4000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
27		4000	7000	Image_06_03_29_4000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
28		4000	5400	Image_06_03_29_4000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
29		4000	4500	Image_06_03_29_4000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
30		1000	10000	Image_06_03_29_1000ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
31		1000	7000	Image_06_03_29_1000ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
32		1000	5400	Image_06_03_29_1000ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
33		1000	4500	Image_06_03_29_1000ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
34		250	10000	Image_06_03_29_250ms_10.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
35		250	7000	Image_06_03_29_250ms_7.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
36		250	5400	Image_06_03_29_250ms_5.4.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3
37		250	4500	Image_06_03_29_250ms_4.5.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ pB\seq3	Sequence 3

Disk Brightness Calibration

Setup:
LCVR temp.: 30°C
Opal: 5C
Opal: 5B

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
1		250	10000	DiskCal_06_03_29_5b_250ms_10V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
2		250	7000	DiskCal_06_03_29_5b_250ms_7V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
3		250	5400	DiskCal_06_03_29_5b_250ms_5.4V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
4		250	4500	DiskCal_06_03_29_5b_250ms_4.5V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
5		1000	10000	DiskCal_06_03_29_5b_1000ms_10V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
6		1000	7000	DiskCal_06_03_29_5b_1000ms_7V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	suspect feat.
7		1000	5400	DiskCal_06_03_29_5b_1000ms_5.4V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
8		1000	4500	DiskCal_06_03_29_5b_1000ms_4.5V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
9		1000	10000	DiskCal_06_03_29_5b_1000ms_10V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
10		1000	7000	DiskCal_06_03_29_5b_1000ms_7V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
11		1000	5400	DiskCal_06_03_29_5b_1000ms_5.4V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
12		1000	4500	DiskCal_06_03_29_5b_1000ms_4.5V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
13		4000	10000	DiskCal_06_03_29_5b_4000ms_10V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
14		4000	7000	DiskCal_06_03_29_5b_4000ms_7V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
15		4000	5400	DiskCal_06_03_29_5b_4000ms_5.4V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.
16		4000	4500	DiskCal_06_03_29_5b_4000ms_4.5V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal\PrePol_0_deg	Disk Cal.

The prepolarizer was left in @0°. Measures have to be repeated.

Disk Brightness Calibration

Setup:
 LCVR temp.: 30.1°C
 Opal: 5C
 Opal: 5B

#	Time	Exp [ms]	LCVR [mV]	File name	Directory	Note
Opal 5C						
1	14:20	1000	10000	DiskCal_06_03_29_5b_1000ms_10V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
2		1000	7000	DiskCal_06_03_29_5b_1000ms_7V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
3		1000	5400	DiskCal_06_03_29_5b_1000ms_5.4V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
4		1000	4500	DiskCal_06_03_29_5b_1000ms_4.5V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
5		4000	10000	DiskCal_06_03_29_5b_4000ms_10V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
6		4000	7000	DiskCal_06_03_29_5b_4000ms_7V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	DC; strange feature
7		4000	5400	DiskCal_06_03_29_5b_4000ms_5.4V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
8		4000	4500	DiskCal_06_03_29_5b_4000ms_4.5V_5C.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
	14:28					Opal 5B
9		1000	10000	DiskCal_06_03_29_5b_250ms_10V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
10		1000	7000	DiskCal_06_03_29_5b_250ms_7V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
11		1000	5400	DiskCal_06_03_29_5b_250ms_5.4V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
12		1000	4500	DiskCal_06_03_29_5b_250ms_4.5V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
13		4000	10000	DiskCal_06_03_29_5b_1000ms_10V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
14		4000	7000	DiskCal_06_03_29_5b_1000ms_7V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
15		4000	5400	DiskCal_06_03_29_5b_1000ms_5.4V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration
16		4000	4500	DiskCal_06_03_29_5b_1000ms_4.5V_5B.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ DiskCal\PostCal	Disk Calibration

Polarization Calibration

Setup:
 Opal 5B + Prepolarizer;
 LCVR temp.: 30.2°C

#	Time	Exp [ms]	LCVR [mV]	Pre.	File name	Directory	Note
1	14:37	1000	10000	-90°	PolCal_06_03_29_10V_m90.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ PolCal\PostCal	Pol. Calibration
2	14:40	1000	10000	-45°	PolCal_06_03_29_10V_m45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ PolCal\PostCal	Pol. Calibration
3		1000	10000	0°	PolCal_06_03_29_10V_0.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ PolCal\PostCal	Pol. Calibration
4		1000	10000	45°	PolCal_06_03_29_10V_p45.FIT	D:\EKPol\Eclipse_Site\2006_03_29\ PolCal\PostCal	Pol. Calibration

#	Time	Exp [ms]	LCVR [mV]	Pre.	File name	Directory	Note
5		1000	10000	90°	PolCal_06_03_29_10V_p90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
6		1000	7000	-90°	PolCal_06_03_29_7V_m90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
7		1000	7000	-45°	PolCal_06_03_29_7V_m45.FIT	D:\EKP\Pol\Eclipse_Site\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
8		1000	7000	0°	PolCal_06_03_29_7V_0.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
9		1000	7000	45°	PolCal_06_03_29_7V_p45.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
10		1000	7000	90°	PolCal_06_03_29_7V_p90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
							Power blackout
1	14:55	1000	5400	-90°	PolCal_06_03_29_5.4V_m90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
2		1000	5400	-45°	PolCal_06_03_29_5.4V_m45.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
3		1000	5400	0°	PolCal_06_03_29_5.4V_0.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
4		1000	5400	45°	PolCal_06_03_29_5.4V_p45.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
5		1000	5400	90°	PolCal_06_03_29_5.4V_p90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
6		1000	4500	-90°	PolCal_06_03_29_4.5V_m90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
7		1000	4500	-45°	PolCal_06_03_29_4.5V_m45.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
8		1000	4500	0°	PolCal_06_03_29_4.5V_0.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
9		1000	4500	45°	PolCal_06_03_29_4.5V_p45.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
10	15:00	1000	4500	90°	PolCal_06_03_29_4.5V_p90.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
11		1000	10000	-90°	PolCal_06_03_29_10V_m90_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
12		1000	10000	-45°	PolCal_06_03_29_10V_m45_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
13		1000	10000	0°	PolCal_06_03_29_10V_0_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
14		1000	10000	45°	PolCal_06_03_29_10V_p45_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
15		1000	10000	90°	PolCal_06_03_29_10V_p90_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
16		1000	7000	-90°	PolCal_06_03_29_7V_m90_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
17		1000	7000	-45°	PolCal_06_03_29_7V_m45_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
18		1000	7000	0°	PolCal_06_03_29_7V_0_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
19		1000	7000	45°	PolCal_06_03_29_7V_p45_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
20	15:03	1000	7000	90°	PolCal_06_03_29_7V_p90_b.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Pol. Calibration
							DARK
1	15:03	1000			dark_06_03_29_15_03_1000ms.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark
2	15:04	4000			dark_06_03_29_15_04_4000ms.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark
3	15:05	8000			dark_06_03_29_15_05_8000ms.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark
4	15:05	2000			dark_06_03_29_15_05_2000ms.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark
5	15:05	16000			dark_06_03_29_15_08_16000ms.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark
6		16000			dark_06_03_29_15_08_16000ms_shutterclosed.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark - shutter closed
7		8000			dark_06_03_29_15_11_8000ms_shutterclosed.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark - shutter closed
8	15:13	4000			dark_06_03_29_15_13_4000ms_shutterclosed.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark - shutter closed
9	15:13	2000			dark_06_03_29_15_13_2000ms_shutterclosed.FIT	D:\EKP\Pol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark - shutter closed

#	Time	Exp [ms]	LCVR [mV]	Pre.	File name	Directory	Note
10	15:14	1000			dark_06_03_29_15_14_1000ms_shutterclosed.FIT	D:\EKPol\Eclipse_Site\2006_03_29\PolCal\PostCal	Dark - shutter closed
OBSERVATIONS CLOSED H 15:15							

12 May,2006

Test Ghost

1. Tutte le riflessioni sono interne:

**Immagini: D:\EKPOL\OATo\2006_05_12-
TestGhost\TestGhost_2006_05_12_1000ms_01.FIT;**

**D:\EKPOL\OATo\2006_05_12-
TestGhost\TestGhost_2006_05_12_1000ms_02.FIT;**

**D:\EKPOL\OATo\2006_05_12-
TestGhost\TestGhost_2006_05_12_5000ms_03.FIT.**

**D:\EKPOL\OATo\2006_05_12-
TestGhost\TestGhost_2006_05_12_5000ms_04.FIT**

**immagine realizzata con telecamera inclinata rispetto
all'asse ottico;**

D:\EKPOL\OATo\2006_05_12-

**TestGhost\TestGhost_2006_05_12_1000ms_05.FIT →inclinazione
aumentata rispetto all'immagine precedente**

2. Ricerca dell'elemento che induce la riflessione

3. Rimozione filtro

**4. Notiamo un'aberrazione cromatica tale da non avere immagini di
buona qualità**

5. Inseriamo un nuovo filtro (rosso)

6. Le riflessioni sono quasi tutte sparite:

D:\EKPOL\OATo\2006_05_12-

TestGhost\TestGhost_2006_05_12_5000ms_06.FIT

7. Tiltiamo il filtro di 3.5°

D:\EKPOL\OATo\2006_05_12-

TestGhost\TestGhost_2006_05_12_5000ms_07.FIT