

11- Dec - 2015

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Principal Investigator :- ASOK Kumar Sen

Observer present :- ASOK Kumar Sen

Proposal NO, cycle :- P08, 03

Proposal title :- Photometric observations of Comet G7P
in optical & J, H, K bands.

Email Id :- asoksen@yahoo.com

Instruments :- HFOSC, Keystone & Observatory Server.

Support at IAO :- Anshu

Support at CREST :- Pramod, Lakshmi Prasad

Focus, tip, tilt :-

Tirespec Temp :- ~~Temp~~ Path :-

UT :-

Temp :-

Humidity :-

Wind speed :-

Wind direction :-

Focus :-

Seeing :-

sky :-

Object

α

δ

SKY was ^{partly} cloudy most of the part of night
and later ~~in~~ ^{the} telescope SKY rather earlier got problem
(after 10 am). Observations was not possible through
out the night.

ASOK *ASOK*

12-Dec-2015

Principal investigator :- Asoke Kumar Sen
 Observer present :- Asoke Kumar Sen
 Proposal no, cycle :- P08, 03
 Proposal title :- photometric observations of comets 67P in optical and J.H.K bands
 Email Id :- asokesen@yahoo.com
 Instruments :- HFOSC, Keck II & observing server
 Support at IAO :- Anchuck
 Support at CREST :- Pramod, Lekshmi Prasad.
 Focus, tip, tilt :- -0.230/30/10 0 0 0
 Fwhm temp :- data path :-

UT :-	12:52	19:18	20:15	00:17
Temp :-	8	-10.4	-12.0	-13.2
Humidity :-	20.1	23.2	24.4	28.1
Wind speed :-	1.0	2.5	1.0	2.1
Wind direction :-	238	202	132	234
	(keystr)			
Focus :-	-0.130	-0.130	-0.150	-0.140
Seeing :-	1.9	1.8	2.23	2.8
Sky :-	clear	clear	clear	clear

Object	α	δ
2013 X1 - Panstarrs	00:54:31.58	32:19:15.1
93424	01:55:26.36	00:56:42.58
CB26-A	05:00:27	52:05:00
CB26-B	04:59:47	52:05:00
96235	04:53:28.8	-00:05:04
CB44-A	06:07:28.4	19:28:04
Comet 67P	07:25:44.8	32:05:19.3
CB44-A	06:07:28.4	19:28:04
Comet 67P	12:01:31.35	8:17:15.2

Evening flats

01 - Bias
02-04 - B
05-07 - V
08-10 - R
11-13 - I
14 - Bias

Morning flats

81 - Bias
82-84 - I
85-87 - R
88-90 - V
91-93 - B
94 - Bias

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Y1120015	2013X1 - Panstony	I	300	12:50
16	— 11 —	R	300	12:57
17	— 11 —	I	300	13:05
18	— 11 —	R	300	13:12
19	— 11 —	I	300	13:19
20	— 11 —	R	300	13:27
X21	— 11 —	I	300	13:34
21	Bias - ing			13:41
22	93424	I	3sec	13:52
23	— 11 —	R	3sec	13:55
24	— 11 —	V	6sec	13:56
25	— 11 —	B	15sec	14:03
26	Bias - ing			14:06
27	CB26 - A	R	600sec	14:09
28	"	I	500	14:28
29	"	V	600	14:39
30	"	B	600	14:52
31	Bias - ing			15:04
32	CB26 - B	R	600	15:08
33	"	I	500	15:20
34	"	V	600	15:30
35	Bias - ing			15:42
X36	2013X1 - Panstony	I	300	15:46
36	CB26 - B	B	600	15:58
37	Bias - ing			16:11
38	2013X1 - Panstony	R	500	16:18
39	— 11 —	I	500	16:28
40	— 11 —	V	500	16:43
41	— 11 —	B	500	16:53
42	— 11 —	R	500	17:04
43	— 11 —	I	500	17:14
44	— 11 —	R	500	17:25

45	2013X1 - Penstemon	I	500sec	17:35
46	— " —	R	500sec	17:46
47	— " —	I	500sec	17:56
48	— " —	R	500sec	18:07
49	— " —	I	500sec	18:17
50	— " —	R	500sec	18:28
51	— " —	I	500sec	18:38
52	— " —	R	500sec	18:49 (f = -0.145)
53	96235	R	5sec	19:03
54	— " —	I	5sec	19:05
55	— " —	V	10sec	19:07
56	— " —	B	30sec	19:09
57	Bias - mag			19:12
58	CB44A	I	500	19:24
58	Bias - mag			19:34
59	Comet P/2010 V4	V		
59	CB440	I	500	20:13
60	— " —	R	500	20:23
61	— " —	V	600	20:39
62	— " —	B	600	20:52
63	Bias - mag			21:04
64	Comet 67P	R	300	21:21
65	— " —	I	600	21:29
66	— " —	R	600	21:42
67	— " —	I	600	21:55
68	— " —	R	600	22:07
69	— " —	I	600	22:19
70	— " —	R	600	22:31
71	— " —	I	600	22:43
72	— " —	R	600	22:55
73	— " —	I	600	23:07
74	— " —	R	600	23:19

81 - Bias
82-93 - Morning flat
94 - Bias

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75	Bias-imag			23:32
76	Cornel 67P	I	600	23:35
77	— " —	R	600	23:47
X. 78	— " —	I	600	23:59 (Getestop stop transf)
78	Bias-imag			00:13
79	Bias-imag			00:15
80	Bias imag			00:28

Total hours of observation = 12hr

Observations closed at 6:00am

put 