DATE : 19.12/20.12−2017
PROGRAMS : Edge−on disc galaxies, Polarimetry of asteroids
AUTHORS : Kasparova, Afanasiev
OBSERVERS : Oparin
INSTRUMENT : SCORPIO
MODES : Image , Spectra , Image Pol
DETECTOR : EEV CCD42−40
Tmirr : 5.0... 5.3
Tdome : 0.4... 5.2
Tatm : −0.7... 1.0
<Tmir−Tatm>: 4.9
WIND : 0.4... 10.1 m/s
PATH : s171219

FILE	OBJECT	TYPE	START	Texp,s	MODE	DISPERSER	SPERANGE	TILT	FILTERS	RA_apparent	DEC_apparent	SEEING	Z	A	P2	Ptb	COMMENT
S16000101	1x2 high norm	bias	16:37:15	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−34	333.2	134.9	
S16000102	1x2 high norm	bias	16:37:59	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−34	333.3	134.9	
S16000103	1x2 high norm	bias	16:38:42	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−33	333.4	134.9	
S16000104	1x2 high norm	bias	16:39:27	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−33	333.5	134.9	
S16000105	1x2 high norm	bias	16:40:10	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−33	333.6	134.9	
S16000106	1x2 high norm	bias	16:41:53	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−33	333.9	134.9	
S16000107	1x2 high norm	bias	16:42:36	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−33	334.0	134.9	
S16000108	1x2 high norm	bias	16:43:21	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−32	334.1	134.9	
S16000109	1x2 high norm	bias	16:44:05	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−32	334.2	134.9	
S16000110	1x2 high norm	bias	16:44:49	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		73	−32	334.4	134.9	
S16000111	1x2 high norm	bias	16:46:34	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−32	334.6	134.9	
S16000112	1x2 high norm	bias	16:47:18	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−32	334.8	134.9	
S16000113	1x2 high norm	bias	16:48:02	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−31	334.9	134.9	
S16000114	1x2 high norm	bias	16:48:46	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−31	335.0	134.9	
S16000115	1x2 high norm	bias	16:49:30	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−31	335.1	134.9	
S16000116	1x2 high norm	bias	16:51:17	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−31	335.4	134.9	
S16000117	1x2 high norm	bias	16:52:01	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−31	335.5	134.9	
S16000118	1x2 high norm	bias	16:52:45	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−30	335.6	134.9	
S16000119	1x2 high norm	bias	16:53:30	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−30	335.8	134.9	
S16000120	1x2 high norm	bias	16:54:14	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		72	−30	335.9	134.9	
S16000121	2x2 low norm	bias	17:09:55	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−28	338.5	134.9	
S16000122	2x2 low norm	bias	17:10:23	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	338.6	134.9	
S16000123	2x2 low norm	bias	17:10:52	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	338.6	134.9	
S16000124	2x2 low norm	bias	17:11:21	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	338.7	134.9	
S16000125	2x2 low norm	bias	17:11:50	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	338.8	134.9	
S16000126	2x2 low norm	bias	17:12:19	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	338.9	134.9	
S16000127	2x2 low norm	bias	17:12:48	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	339.0	134.9	
S16000128	2x2 low norm	bias	17:13:16	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	339.0	134.9	
S16000129	2x2 low norm	bias	17:13:44	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	339.1	134.9	
S16000130	2x2 low norm	bias	17:14:13	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−27	339.2	134.9	
S16000131	2x2 low norm	bias	17:15:43	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.5	134.9	
S16000132	2x2 low norm	bias	17:16:12	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.6	134.9	
S16000133	2x2 low norm	bias	17:16:41	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.6	134.9	
S16000134	2x2 low norm	bias	17:17:10	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.7	134.9	
S16000135	2x2 low norm	bias	17:17:39	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.8	134.9	
S16000136	2x2 low norm	bias	17:18:07	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−25	339.9	134.9	

S16000137	2x2 low norm	bias	17:18:35	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−26	340.0	134.9	
S16000138	2x2 low norm	bias	17:19:03	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−24	340.0	134.9	
S16000139	2x2 low norm	bias	17:19:31	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		70	−24	340.1	134.9	
S16000140	2x2 low norm	bias	17:20:00	0	Image				slit_1.0	00:43:40.17	−22:06:28.2		69	−24	340.2	134.9	
S16000201	slitpos	neon	16:29:23	2	Image				slit_1.0	00:43:40.17	−22:06:28.2		74	−35	332.0	134.9	
S16000301	BD+28d4211	obj	18:08:45	5	Image					21:51:58.37	+28:57:01.1		27	67	49.7	132.6	
S16000302	BD+28d4211	obj	18:10:21	20	Spectra	VPHG2300G	4800−5570AA		slit_1.0	21:51:58.37	+28:57:01.1		27	67	50.0	132.8	
S16000303	BD+28d4211	obj	18:11:45	20	Spectra	VPHG2300G	4800−5570AA		slit_1.0	21:51:58.37	+28:57:01.1		27	68	50.2	133.0	
S16000304	BD+28d4211	obj	18:12:49	20	Spectra	VPHG2300G	4800−5570AA		slit_1.0	21:51:58.37	+28:57:01.1		28	68	50.3	133.2	
S16000305	BD+28d4211	neon	18:14:20	90	Spectra	VPHG2300G	4800−5570AA		slit_1.0	21:51:58.37	+28:57:01.1		28	69	50.5	133.4	
S16000306	BD+28d4211	obj	18:21:54	10	Spectra	VPHG2300G	4800−5570AA		mask	21:51:58.37	+28:57:01.1		29	71	51.5	134.3	
S16000402	BD+28d4211 (Polar)	obj	18:30:40	5	Image Pol		5470A EW=790	pol 45	V	21:51:58.37	+28:57:01.1		31	73	52.4	135.3	
S16000403	BD+28d4211 (Polar)	obj	18:31:17	5	Image Pol		5470A EW=790	pol 0	V	21:51:58.37	+28:57:01.1		31	73	52.5	135.4	
S16000404	BD+28d4211 (Polar)	obj	18:31:54	5	Image Pol		5470A EW=790	pol 45	V	21:51:58.37	+28:57:01.1		31	73	52.6	135.4	
S16000405	BD+28d4211 (Polar)	obj	18:32:30	5	Image Pol		5470A EW=790	pol 0	V	21:51:58.37	+28:57:01.1		31	73	52.6	135.5	
S16000406	BD+28d4211 (Polar)	obj	18:33:05	5	Image Pol		5470A EW=790	pol 45	V	21:51:58.37	+28:57:01.1		31	74	52.7	135.5	
S16000401	BD+28d4211 (Polar)	obj	18:29:23	5	Image Pol		5470A EW=790	pol 0	V	21:51:58.37	+28:57:01.1		30	73	52.3	135.2	
S16000501	3200Phaethon	obj	18:41:08	60	Image Pol		5470A EW=790	pol 0	V	22:39:44.10	+03:16:18.6		46	36	25.3	136.7	
S16000502	3200Phaethon	obj	18:42:41	60	Image Pol		5470A EW=790	pol 45	V	22:39:42.24	+03:15:50.6		46	36	25.6	137.0	
S16000503	3200Phaethon	obj	18:44:13	60	Image Pol		5470A EW=790	pol 0	V	22:39:40.39	+03:15:22.9		46	37	26.0	137.3	
S16000504	3200Phaethon	obj	18:45:56	60	Image Pol		5470A EW=790	pol 45	V	22:39:38.33	+03:14:52.0		46	37	26.3	137.6	
S16000505	3200Phaethon	obj	18:47:26	60	Image Pol		5470A EW=790	pol 0	V	22:39:36.55	+03:14:25.2		46	38	26.6	137.9	
S16000506	3200Phaethon	obj	18:48:55	60	Image Pol		5470A EW=790	pol 45	V	22:39:34.77	+03:13:58.5		47	38	26.9	138.2	
S16000507	3200Phaethon	obj	18:50:25	60	Image Pol		5470A EW=790	pol 0	V	22:39:32.96	+03:13:31.4		47	39	27.2	138.5	
S16000508	3200Phaethon	obj	18:52:24	60	Image Pol		5470A EW=790	pol 45	V	22:39:30.60	+03:12:56.0		47	39	27.6	138.9	
S16000509	3200Phaethon	obj	18:53:53	60	Image Pol		5470A EW=790	pol 0	V	22:39:28.80	+03:12:28.9		47	40	27.8	139.2	
S16000510	3200Phaethon	obj	18:55:26	60	Image Pol		5470A EW=790	pol 45	V	22:39:26.96	+03:12:01.3		47	40	28.1	139.5	
S16000601	NGC1032 PA248	obj	19:21:34	20	Image		5470A EW=790		V	02:40:19.35	+01:10:06.1		47	−33	335.9	219.9	
S16000602	NGC1032 PA248	obj	19:24:38	20	Image		5470A EW=790		V	02:40:18.48	+01:10:39.4		47	−32	336.5	220.5	
S16000603	NGC1032 PA248	obj	19:42:33	10	Image		5470A EW=790		V	02:40:18.74	+01:10:29.4	5.2	45	−26	340.3	224.3	
S16000604	NGC1032 PA248	neon	19:47:49	90	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.74	+01:10:29.4	5.2	45	−24	341.5	225.5	
S16000605	NGC1032 PA248	obj	19:50:20	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.74	+01:10:29.4	5.2	45	−24	342.1	226.1	
S16000606	NGC1032 PA248	obj	20:16:33	10	Image		5470A EW=790		V	02:40:18.69	+01:10:29.1	3.6	43	−15	348.5	232.5	
S16000607	NGC1032 PA248	obj	20:18:20	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.69	+01:10:29.1	3.6	43	−14	348.9	232.9	
S16000608	NGC1032 PA248	obj	20:45:27	10	Image		5470A EW=790		V	02:40:18.78	+01:10:27.7	3.6	42	−4	356.0	240.0	
S16000609	NGC1032 PA248	obj	20:48:04	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.78	+01:10:27.7	3.6	42	−3	356.7	240.7	= CLOUDS!!
S16000610	NGC1032 PA248	obj	21:11:44	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.79	+01:10:26.7	3.6	42	4	3.0	247.0	
S16000611	NGC1032 PA248	obj	21:34:08	600	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.78	+01:10:25.1	3.6	43	12	9.0	253.0	
S16000612	NGC1032 PA248	obj	21:45:39	600	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.78	+01:10:24.7	3.6	43	16	11.9	255.9	clouds
S16000613	NGC1032 PA248	obj	21:56:31	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.77	+01:10:23.5	3.6	44	20	14.6	258.6	
S16000614	NGC1032 PA248	obj	22:17:27	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.71	+01:10:20.7	3.6	45	27	19.5	263.5	
S16000615	NGC1032 PA248	obj	22:38:14	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.69	+01:10:22.8	3.6	47	34	23.9	267.9	
S16000616	NGC1032 PA248	obj	22:59:08	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.71	+01:10:20.6	3.6	50	40	27.9	271.9	
S16000617	NGC1032 PA248	obj	23:20:02	1200	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.66	+01:10:23.7	3.6	52	46	31.5	275.5	
S16000618	NGC1032 PA248	neon	23:41:07	90	Spectra	VPHG2300G	4800−5570AA		slit_1.0	02:40:18.65	+01:10:22.1	3.6	55	51	34.6	278.6	
S16000619	NGC1032 PA248	flat	23:43:42	180	Spectra	VPHG2300G	4800−5570AA		slit_1.0	07:51:00.85	+33:54:47.1	3.6	29	−82	300.0	278.6	
S16000620	NGC1032 PA248	flat	23:47:26	180	Spectra	VPHG2300G	4800−5570AA		slit_1.0	07:51:00.85	+33:54:47.1	3.6	29	−81	300.1	270.0	
S16000701	IC2207 PA304	obj	00:07:48	10	Image		5470A EW=790		V	07:51:00.04	+33:55:04.0	2.5	25	−77	301.4	129.4	
S16000702	IC2207 PA304	obj	00:11:44	10	Image		5470A EW=790		V	07:51:00.04	+33:55:04.0	3.6	24	−76	301.8	129.8	
S16000703	IC2207 PA304	obj	00:25:26	10	Image		5470A EW=790		V	07:51:00.04	+33:55:05.0	3.6	22	−72	303.4	131.3	

S16000704	IC2207 PA304	neon	00:27:19	90	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:51:00.07	+33:55:05.2	3.6	22	−71	303.6	131.6	
S16000705	IC2207 PA304	obj	00:29:42	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:51:00.07	+33:55:05.2	3.6	21	−72	304.0	131.9	
S16000706	IC2207 PA304	obj	00:53:09	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.89	+33:55:03.8	3.6	17	−62	308.7	136.7	
S16000707	IC2207 PA304	obj	01:13:58	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.90	+33:55:03.5	3.6	14	−52	315.8	143.8	
S16000708	IC2207 PA304	obj	01:34:49	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.83	+33:55:02.4	2.5	11	−37	327.3	155.3	
S16000709	IC2207 PA304	obj	01:55:36	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.73	+33:55:01.8	3.6	10	−16	344.8	172.8	
S16000711	NGC1032 PA248	obj	02:37:15	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.47	+33:54:59.9	3.6	11	30	26.4	214.4	
S16000712	IC2207 PA304	obj	02:58:00	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.35	+33:54:59.9	3.6	13	47	40.2	228.2	
S16000713	IC2207 PA304	obj	03:18:48	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.31	+33:55:01.7	3.6	16	59	48.8	236.8	= DAMN CLOUDS
S16000714	IC2207 PA304	neon	03:39:49	90	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.25	+33:55:02.9	3.6	19	68	54.2	242.1	
S16000715	IC2207 PA304	flat	03:42:10	180	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.25	+33:55:02.9	3.6	20	69	54.6	242.6	
S16000716	IC2207 PA304	flat	03:46:03	180	Spectra	VPHG2300G	4800–5570AA		slit_1.0	11:37:35.24	−09:53:58.9	2.5	61	−36	333.6	147.8	
S16000710	IC2207 PA304	obj	02:16:27	1200	Spectra	VPHG2300G	4800–5570AA		slit_1.0	07:50:59.59	+33:55:00.1	3.6	9	7	6.7	194.6	
S16000801	HR4468	obj	04:00:21	10	Image		5470A EW=790		V	11:37:35.10	−09:53:59.9	2.5	59	−32	336.0	132.5	
S16000802	sunsky	obj	07:04:24	180	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	64	−53	324.0	133.7	
S16000803	sunsky	obj	07:08:24	150	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	63	−52	324.5	134.2	
S16000804	sunsky	obj	07:11:50	90	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	63	−51	324.9	134.6	
S16000805	sunsky	obj	07:14:16	50	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	62	−50	325.2	134.9	
S16000806	sunsky	obj	07:16:11	35	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	62	−50	325.4	135.1	
S16000807	sunsky	obj	07:18:14	25	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	62	−49	325.7	135.4	
S16000808	sunsky	neon	07:19:35	90	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	62	−49	325.9	135.6	
S16000809	sunsky	flat	07:22:27	180	Spectra	VPHG2300G	4800–5570AA		slit_1.0	15:54:25.54	−04:47:27.4	2.5	61	−48	326.2	136.0	
S16000810	sunsky	flat	07:26:12	180	Spectra	VPHG2300G	4800–5570AA		slit_1.0	16:27:17.65	−22:05:50.6	2.5	80	−44	325.8	136.1	