

Apache Point Observatory

3.5-m Telescope Observing Log

Observer NC + MK UT Date 12 Jan 03 pg. 1 of 1
 Data Location: export/images/dec011203 Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
HK 5501	1.36	12:22	300 s.	open	ech011203.0000	seeing ~ 2 arcsec, humidity just below closure limit + falling 12,500
Venus night	2.57	12:47	900	"	 1	guide started @ 21mg0073. fits → SATURATED 0.0068
"	2.28	13:07	300	"		2 21mg169-211 peak ~ 33,000 cnts
Venus day	2.17	13:17	1.0	"		3 21mg213-216 15,000 cnts 
"	2.12	13:22	2.0	"		4 21mg219-222 saturated moved slit
"	2.09		" [forget to ↓ exp time]			5 21mg223-224 "
"	2.06	13:29	1.0			6 226-227 peak ~ 25,000 cnts 
"	2.03	13:33	1.0			7 228-229 moved slit SATURATED
Sky	1.99	13:37	1.0			8 offset + 300" in Dec (obj offsets) NOTHING THERE - NEEDED TO GO LONGER
"	1.95	13:40	300			9 counts ~ 3500
Flat		13:50	7	open		10 white light source
Flat		13:54	200	blue		11
ThAr		14:02	60	blue		12 ThAr source
ThAr		14:06	10	open		13
Bias		14:13	0.	open		14 mirror = calibration filter = open

Apache Point Observatory

3.5-m Telescope Observing Log

Observer NC+PC

UT Date 13 Jan 03

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Data Location: export/images/echo11303

Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
HR5501	1.64	11:22	300	open	echo11303.000	Seems ~ 2" <u>giving 385-443</u>
Venus Day	5.1	11:40	1		echo11303.0001	SATURATED <u>~ 442-468</u>
Day @ Town	4.69	145	1			SAT positioned near <u>460-466</u>
Venus night	3.9		500			Some SAT <u>472-545</u>
Venus Night	3.54	12:08	300			<u>530-592</u>
Venus day	3.20	12:19	1			<u>586-602</u>
Venus night	3.04	12:25	400			<u>607-664</u>
day	2.75	12:37	1			667-680 <u>675-751</u>
NIGHT	2.60	12:46	500			<u>755-763</u>
day	2.39	13:00	1			<u>766-820</u>
NIGHT	2.32	13:04	400			<u>824-833</u>
day	2.20	13:16	1			<u>837-846</u>
HR 7001 Vega	1.82	13:24	3			<u>846-854</u>
HR 7001 Vega	1.78	13:28	1			<u>854-858</u>
NIGHT	2.03	13:34	250			<u>902-908</u>
day	1.96	13:43	1			<u>white light source</u>
Flat		13:47	7	open		

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Data Location: Leopold/images/2004/01/303 Instrument: Echelle

[illegible]

Apache Point Observatory

3.5-m Telescope Observing Log

Observer NC + PC

UT Date 14 Jan 03

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Data Location: export/images/ech011403

Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
HR5501	1.70	11:09	300	open	ech011403.0000	Seeing ~ 0.9" 538- 610
HR5501	1.63	11:19	250	open	.0001	25K 612- 654
HR5501	1.58	11:29	250	open	.0002	25K 655- 696
Venus Day	4.93	11:43	1	open	.0003	15K 708- 706
V. Night	4.58	11:48	400	"	.0004	15K 708- 752
Day	3.97	11:59	1	"	.0005	26K 754- 758
Night	3.77	12:04	600	"	.0006	30K 760- 825
Day	3.27	12:18	1	"	.0007	21K 827- 831
SKY	3.14	12:22	700	"	.0008	13K 833- 904
Day	2.77	12:38	1	"	.0009	17K 905- 910
Night	2.69	12:42	600	"	.0010	54T 912- 982
Night	2.43	12:58	400	"	.0011	35K 986- 0028
Day	2.27	13:10	2	"	.0012	22K 032 37
Night	2.23	13:14	300	"	.0013	27K 40- 77
Day	2.13	13:24	2	"	.0014	23K 81- 85
HR7001 Vega	1.74	13:29	1	"	.0015	22K 88- 92
Night	2.03	13:35	250	"	.0016	26K 95- 124

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Data Location: Export/images/echo11463 Instrument: Echelle

[illegible]

Apache Point Observatory

3.5-m Telescope Observing Log

Observer PC + NC

UT Date 15 Jan. 2003

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Data Location: export/images/ech 011503

Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
ThAr		11:19	7	open	ech011503.0000	Seeing 0.9" hazy clouds towards Venus (SE)
HR5501	1.57	11:26	250	"	.0001	27K ND2 anguider.
HR5501	1.52	11:33	250	"	.0002	28K ND2
Venus Day	4.73	11:47	2	"	.0003	7K ND3
Venus Day	4.48	11:51	5	"	.0004	27K Same hazy
Venus Night	4.18	11:56	600	"	.0005	735K hazy 674
Venus Night	3.48	12:12	500	"	.0006	32K hazy 752
Day	3.10	12:25	4	"	.0007	18K less hazy 828
Night	3.01	12:29	400	"	.0008	25K less hazy 833
Day	2.77	12:39	4	"	.0009	17K " 890
Sky	2.69	12:43	800	"	.0010	20K " 897
Day	2.40	13:01	4	"	.0011	20K " 997
Night	2.34	13:07	300	"	.0012	18K " 1000
Day	2.23	13:16	4	"	.0013	30K " 010
Night	2.19	13:19	300	"	.0014	23K " 047
Day	2.10	13:29	3	"	.0015	10K " 059
Day	2.06	13:34	3	"	.0016	18K " 061

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Data Location: expert/images/ech011503 Instrument: Echelle

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Apache Point Observatory

3.5-m Telescope Observing Log

Observer PC, NC, + KSA UT Date 16 Jan. 2003 pg. 1 of 2

Data Location: export/images/echelle03 Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	focus = 1"	Comments	gcing
<i>Tairn</i>		11:19	7	open	echelle03.0000	5K		
HR5501	1.53	11:27	200	open	.0001	22K NO2 on guider		149-184
HR5501	1.50	11:34	200	"	.0002	20K NO2		185-219
Venus Day	4.81	11:46	4	"	.0003	25K NO3		228-239
Venus Night	4.51	11:51	400	"	.0004	60K ^{intermittent clouds}		241-286
Night	3.97	12:01	150	"	.0005	35K ^{better seeing}		287-308
Night	3.70	12:08	100	"	.0006	5AT ^{clouds}		310-327
SKY	3.48	12:13	700	"	.0007	3K		329-402
Day	2.98	12:31	4	"	.0008	12K		407-414
Night	2.86	12:36	100	"	.0009	>35K		419-438
Night	2.75	12:42	50	"	.0010	7K	"	441-451
Night	2.66	12:47	100	"	.0011	22K	"	452-468
Day	2.56	12:53	6	"	.0012	33K		471-476
Night	2.49	12:57	100	"	.0013	15K ^{better}		479-495
Night	2.41	13:02	100	"	.0014	15K		496-514
Night	2.34	13:07	150	"	.0015	22K		514-535
Day	2.25	13:15	5	"	.0016	16K		539-544

Apache Point Observatory

3.5-m Telescope Observing Log

Observer Petrick & A

UT Date 16 Jan 03

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Data Location: telescope/images/echo1103

Instrument: Echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
Venus NIGHT	2.20	13:20	150	open	.0017	29K  548-567
NIGHT	2.14	13:26	125	"	.0018	23K  568-586
Dug	2.08	13:32	4	"	.0019	25K  589-594
HR 7061 Vega	1.62	13:38	1	i1	.0020	5K 597-603
Vega	1.60	13:41	3	"	.0021	8K 604-609
ThAr	—	13:45	7	"	.0022	
ThAr blue	—	13:48	200	blue	.0023	overexposed
ThAr blue	—	13:55	60	blue	.0024	
Flat blue	—	14:00	200	blue	.0025	29K
Flat blue			200	blue	.0026	30K
Flat		14:13	7	open	.0027	
Flat			7	open	.0028	
Bias		14:19			.0029	
Bias					.0030	
Bias					.0031	

Apache Point Observatory

3.5-m Telescope Observing Log

Observer PJNC + MK

UT Date 17 Jan. 2003

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Data Location: lexport/images/echo11703 Instrument: echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	focus = 0.8"	Comments	much better than last night
Mars	—	11:17	7	open	echo11703.0000			
HR5501	1.53	11:23	200	open	00001	22K	NO2 on guider	NO— 48
HR5501	1.50	11:30	200	"	00002	18K	NO3 on guider	49— 84
Venus Day	5.24	11:42	1	"	00003	23K		91— 97
Venus Night	4.81	11:48	300	"	00004	<u>SAT</u>		100— 138
Night	4.22	11:57	100	"	00005	15K		141— 158
Day	3.86	12:04	1	"	00006	23K		161— 165
Night	3.67	12:09	150	"	00007	18K		168— 191
Night	3.44	12:16	200	"	00008	32K		193— 219
Day	3.20	12:24	1	"	00009	9K		221— 226
Day	3.10	12:27	2	"	00010	13K	Same	227— 233
Sky	2.95	12:33	700	"	00011	Very low	300" declination offset	235— 303
Day	2.60	12:50	2	"	00012	20K		309— 315
Night	2.53	12:55	150	"	00013	15K		317— 337
Night	2.44	13:01	150	"	00014	17K	Same	338— 369
Day	2.35	13:08	2	"	00015	23K		361— 366
Night	2.29	13:13	150	"	00016	22K		368— 386

Apache Point Observatory

3.5-m Telescope Observing Log

Observer PC, NC, MK

UT Date 17 Jan 2003

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Data Location: expert/images/echel1703 Instrument: echelle

Object	Airmass	UT Time	Exp Time	Filter	Filename	Comments
Night	2.23	13:19	150	open	echel1703.0017	19K <u>sun</u> 387-406
Day	2.15	13:26	2	open	.0018	19K 409-413
Night	2.11	13:31	150	open	.0019	27K 415-433
Day	2.06	13:37	2	open	.0020	20K 435-440
HR7001 Vega	1.56	13:43	1	open	.0021	6K 443-447
HR7001 Vega	1.54	13:47	3	open	.0022	54T 448-454
HR7001 Vega	1.52	13:50	2	open	.0023	35K 453-459
HR7001 Vega	1.50	13:54	1	open	.0024	15K 460-464
ThAr		13:58	7	open	.0025	28
ThAr			60	blue	.0026	
Flat blue			200	blue	.0027	29K
Flat blue			200	blue	.0028	30K
Flat		14:18	7	open	.0029	28K
Flat			7	open	.0030	29K
BIAS						31
BIAS						32
BIAS						33