

**Project Name:** U150  
**Observers:** Hsueh; (UCD); Fassnacht; G. Chen  
**Instrument:** OSIRIS  
**SA:** Jim Lyke / Sherry Yeh  
**OA:** Heather  
**Data Directories:** /s/sdata1100/osiris8/171013/SPEC/raw

S/I	Filename	Object	UTC	Airmass	PO	PA	Filter	Scale	Itime	Coadds	WFS Rate	Sky	
spec	s171013_a002002.fits	<none>	00:48:47.90	1.41291034	<udf>	-140.2	Drk	0.100	60000	1	0		
spec	s171013_a002003.fits	<none>	00:50:07.40	1.41291034	ospec	-140.2	Drk	0.100	60000	1	0		
spec	s171013_a002004.fits	<none>	00:51:28.20	1.41291034	ospec	-140.2	Drk	0.100	60000	1	0		
spec	s171013_a002005.fits	<none>	00:52:47.65	1.41291034	ospec	-140.2	Drk	0.100	120000	1	0		
spec	s171013_a002006.fits	<none>	00:55:25.65	1.41291034	ospec	-140.2	Drk	0.100	120000	1	0		
spec	s171013_a002007.fits	<none>	00:58:03.70	1.41291034	ospec	-140.2	Drk	0.100	120000	1	0		
spec	s171013_a002008.fits	<none>	01:00:42.09	1.41291034	ospec	-140.2	Drk	0.100	900000	1	0		
spec	s171013_a002009.fits	<none>	01:16:46.08	1.41291034	ospec	-140.2	Drk	0.100	900000	1	1000		
spec	s171013_a002010.fits	<none>	01:32:49.32	1.41291034	ospec	-140.2	Drk	0.100	900000	1	1000		
spec	s171013_a003002.fits	<none>	02:53:49.55	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003003.fits	<none>	02:58:30.80	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003004.fits	<none>	02:59:45.25	13.37481353	ospec	-312	Kn3	0.050	1476	1	1000		
spec	s171013_a003005.fits	<none>	03:02:05.47	13.37481353	ospec	-312	Kn3	0.050	1476	1	1000		
spec	s171013_a003006.fits	<none>	03:02:52.37	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003007.fits	<none>	03:03:33.97	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003008.fits	<none>	03:04:26.82	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003009.fits	<none>	03:05:14.62	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003010.fits	<none>	03:05:54.07	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003011.fits	<none>	03:07:09.82	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003012.fits	<none>	03:08:08.17	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003013.fits	<none>	03:09:05.92	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003014.fits	<none>	03:10:02.81	13.37481353	ospec	-312	Kn3	0.020	1476	1	1000		
spec	s171013_a003015.fits	<none>	03:40:54.95	13.37481353	ospec	-312	Kn3	0.020	1476	1	438		
spec	s171013_a004002.fits	<none>	03:48:43.80	13.37481353	ospec	-312	Drk	0.020	300000	1	438		
spec	s171013_a004003.fits	<none>	03:54:23.04	13.37481353	ospec	-312	Drk	0.020	300000	1	438		
spec	s171013_a004004.fits	<none>	04:00:03.09	13.37481353	ospec	-312	Drk	0.020	300000	1	438		
spec	s171013_a004005.fits	<none>	04:05:41.63	13.37481353	ospec	-312	Drk	0.020	300000	1	438		
spec	s171013_a004006.fits	<none>	04:11:21.43	13.37481353	ospec	-312	Drk	0.020	300000	1	438		
spec	s171013_a005002.fits	Eng - SnapI	04:58:50.03	1.03909218	ospec	0	Kn3	0.020	5000	1	438		Weather conditions are pretty p
spec	s171013_a005003.fits	Eng - SnapI	04:59:34.33	1.03823175	ospec	0	Kn3	0.020	5000	1	438	sky	
spec	s171013_a006002.fits	Eng - SnapI	06:25:40.23	1.00760295	ospec	-270	Kn3	0.020	5000	1	750		Lost about an hour due to probl
spec	s171013_a006003.fits	Eng - SnapI	06:26:10.63	1.00781186	ospec	-270	Kn3	0.020	5000	1	750	sky	
spec	s171013_a006004.fits	Eng - SnapI	06:27:32.23	1.00839407	ospec	-270	Kn3	0.020	5000	1	750	sky	
spec	s171013_a007002.fits	Eng - SnapI	06:41:19.77	1.59765934	ospec	0	Kn1	0.050	30000	1	750		
spec	s171013_a007003.fits	Eng - SnapI	06:42:19.42	1.59985418	ospec	0	Kn1	0.050	30000	1	750	sky	
spec	s171013_a008002.fits	Eng - SnapI	06:47:47.78	1.61230733	ospec	0	Kn1	0.050	30000	1	750		
spec	s171013_a009002.fits	Eng - SnapI	06:50:17.08	1.61819509	ospec	0	Kn1	0.050	30000	1	750		
spec	s171013_a010002.fits	Eng - SnapI	06:54:13.52	1.62760901	ospec	0	Kn1	0.050	120000	1	750		

spec	s171013_a010003.fits	Eng - SnapI	06:57:00.17	1.63456984	ospec	0	Kn1	0.050	120000	1	750	sky	
spec	s171013_a011002.fits	Eng - SnapI	07:01:51.58	1.64720033	ospec	0	Kn1	0.050	900000	1	750		
spec	s171013_a012002.fits	Eng - SnapI	07:28:41.37	1.12375194	ospec	0	Kn4	0.050	60000	1	1000		
spec	s171013_a012003.fits	Eng - SnapI	07:30:12.82	1.1203624	ospec	0	Kn4	0.050	60000	1	1000	sky	
spec	s171013_a013002.fits	Eng - SnapI	07:35:21.92	1.10933142	ospec	0	Kn4	0.050	120000	1	1000		
spec	s171013_a013003.fits	Eng - SnapI	07:38:18.31	1.10332867	ospec	0	Kn4	0.050	120000	1	1000	sky	
spec	s171013_a014002.fits	Eng - SnapI	07:44:12.21	1.09194992	ospec	0	Kn4	0.050	900000	1	1000		
spec	s171013_a014003.fits	Eng - SnapI	08:00:32.30	1.06464975	ospec	0	Kn4	0.050	900000	1	1000	sky	
spec	s171013_a015002.fits	Eng - SnapI	08:32:30.13	1.02726082	ospec	30	Kn4	0.050	60000	1	440		Lots of clouds coming in, plus 1
spec	s171013_a016002.fits	Eng - SnapI	08:40:11.17	1.02113193	ospec	30	Kn4	0.050	900000	1	440		Useless. AO higher-order correc
spec	s171013_a016003.fits	Eng - SnapI	08:56:49.96	1.0113877	ospec	30	Kn4	0.050	900000	1	440		ditto
spec	s171013_a016004.fits	Eng - SnapI	09:13:04.95	1.00637737	ospec	30	Kn4	0.050	900000	1	440		ditto
spec	s171013_a016005.fits	Eng - SnapI	09:29:25.38	1.00570051	ospec	30	Kn4	0.050	900000	1	440	sky	
spec	s171013_a017002.fits	Eng - SnapI	09:49:27.27	1.01083318	ospec	30	Kn4	0.050	900000	1	440		Useless. Clouds are better but i
spec	s171013_a017003.fits	Eng - SnapI	10:05:44.02	1.01995374	ospec	30	Kn4	0.050	900000	1	440		ditto
spec	s171013_a017004.fits	Eng - SnapI	10:21:58.80	1.03368344	ospec	30	Kn4	0.050	900000	1	440		ditto
spec	s171013_a018002.fits	Eng - SnapI	10:58:14.03	1.08275358	ospec	30	Kn4	0.050	900000	1	1000		
spec	s171013_a018003.fits	Eng - SnapI	11:14:32.52	1.11425885	ospec	30	Kn4	0.050	900000	1	1000		
spec	s171013_a019002.fits	B0631TT	11:55:23.00	1.6308986	ospec	0	Kbb	0.050	45000	1	440		
spec	s171013_a019003.fits	B0631TT	11:56:36.75	1.62431358	ospec	0	Kbb	0.050	45000	1	440	sky	
spec	s171013_a020002.fits	B0631TT	11:59:43.25	1.60796805	ospec	0	Kbb	0.050	45000	1	440		
spec	s171013_a020003.fits	B0631TT	12:00:59.95	1.60137607	ospec	0	Kbb	0.050	45000	1	440	sky	
spec	s171013_a021002.fits	B0631TT	12:04:32.20	1.58359535	ospec	0	Kbb	0.050	45000	1	440		
spec	s171013_a021003.fits	B0631TT	12:05:46.35	1.57753114	ospec	0	Kbb	0.050	45000	1	440	sky	
spec	s171013_a022002.fits	B0631 Kbb	12:09:34.80	1.55936991	ospec	0	Kbb	0.050	120000	1	440		
spec	s171013_a022003.fits	B0631 Kbb	12:12:21.29	1.54648344	ospec	0	Kbb	0.050	120000	1	440	sky	
spec	s171013_a023002.fits	B0631 Kbb	12:22:43.09	1.50126228	ospec	0	Kbb	0.050	900000	1	440		
spec	s171013_a024002.fits	B0631 Kbb	12:45:32.90	1.41630016	ospec	0	Kbb	0.050	900000	1	440		
spec	s171013_a025002.fits	J0742 TT	13:15:51.97	1.44883259	ospec	195	Kn3	0.050	45000	1	440		
spec	s171013_a025003.fits	J0742 TT	13:17:05.12	1.44212151	ospec	195	Kn3	0.050	45000	1	440	sky	
spec	s171013_a026002.fits	J0742 TT	13:25:00.82	1.40093601	ospec	195	Kn3	0.050	45000	1	440		
spec	s171013_a026003.fits	J0742 TT	13:26:21.36	1.39430057	ospec	195	Kn3	0.050	45000	1	440	sky	
spec	s171013_a027002.fits	J0742 TT	13:29:14.31	1.38040408	ospec	195	Kn3	0.050	45000	1	440		
spec	s171013_a027003.fits	J0742 TT	13:30:30.56	1.37441746	ospec	195	Kn3	0.050	45000	1	440	sky	
spec	s171013_a028002.fits	J0742 Kn3	13:36:46.81	1.34595299	ospec	195	Kn3	0.050	120000	1	440		
spec	s171013_a028003.fits	J0742 Kn3	13:39:38.75	1.33362589	ospec	195	Kn3	0.050	120000	1	440	sky	

spec	s171013_a029002.fits	J0742 Kn3	13:48:23.55	1.29826119	ospec	195	Kn3	0.050	900000	1	440		
spec	s171013_a029003.fits	J0742 Kn3	14:04:36.88	1.24087173	ospec	195	Kn3	0.050	900000	1	440	sky	
spec	s171013_a030002.fits	J0742 TT	15:12:03.49	1.08820225	ospec	195	Kn3	0.050	45000	1	750		
spec	s171013_a030003.fits	J0742 TT	15:13:18.29	1.0864017	ospec	195	Kn3	0.050	45000	1	750	sky	
spec	s171013_a031002.fits	J0742 TT	15:18:31.08	1.07923177	ospec	195	Kn3	0.050	30000	1	750		
spec	s171013_a031003.fits	J0742 TT	15:19:31.13	1.07791992	ospec	195	Kn3	0.050	30000	1	750	sky	
spec	s171013_a032002.fits	J0742 TT	15:22:53.08	1.07363312	ospec	195	Kn3	0.050	30000	1	750		
spec	s171013_a032003.fits	J0742 TT	15:23:53.53	1.07239724	ospec	195	Kn3	0.050	30000	1	750	sky	
spec	s171013_a033002.fits	J0742 Kn3	15:27:24.12	1.06814062	ospec	195	Kn3	0.050	900000	1	750		

Log entries:

Sunset	Dusk 12 deg	Dusk 18 deg	Dawn 18 deg	Dawn 12 deg	Sunrise	Dark Frac.
04:11:00 UTC	04:48:00 UTC	05:14:00 UTC	15:03:00 UTC	15:28:00 UTC	16:06:00 UTC	63 %

(UTC) 00:50:35: **Data found in /s/sdata1100/osiris8/171013/SPEC/raw. Now tracking.**

(UTC) 00:50:35: **Warning: OSIRIS not in instrument keyword of s171013\_a002002.fits**

(UTC) 03:11:16: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.7000 C	C	1.6000 C	92.4000 %	617.4800 mBar

(UTC) 04:16:51: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.7000 C	C	-1.7000 C	72.7000 %	618.1200 mBar

(UTC) 05:17:03: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.0000 C	C	-2.5000 C	72.2000 %	618.6800 mBar

(UTC) 06:17:11: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.6000 C	C	-3.6000 C	63.8000 %	619.1900 mBar

(UTC) 07:17:20: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.6000 C	C	-6.1000 C	52.8000 %	619.6800 mBar

(UTC) 08:17:31: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.2000 C	C	-3.0000 C	68.3000 %	619.5300 mBar

(UTC) 09:17:37: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
1.1000 C	C	-3.4000 C	71.9000 %	618.9100 mBar

(UTC) 10:17:42: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
1.8000 C	C	-4.6000 C	62.3000 %	618.2000 mBar

(UTC) 11:17:51: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
1.4000 C	C	-4.1000 C	66.9000 %	617.7600 mBar

(UTC) 12:18:13: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure

0.5000 C	C	-2.9000 C	77.7000 %	617.1500 mBar
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(UTC) 13:18:21: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
0.7000 C	C	-3.4000 C	74.2000 %	617.2000 mBar

(UTC) 14:18:32: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
1.1000 C	C	-2.1000 C	79.2000 %	617.4600 mBar

(UTC) 14:22:24: **Observer comment**

Clouds rolling in and humidity increasing

(UTC) 14:26:16: **Observer comment**

Closing the dome at 14:25 UT due to clouds and high humidity

(UTC) 15:06:35: **Observer comment**

Opening up again at 15:05 UT after humidity has dropped again

(UTC) 15:18:53: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.6000 C	C	-5.6000 C	54.9000 %	617.9600 mBar

(UTC) 16:19:01: **Weather update**

Temperature	Dome temp.	Dew point	Rel. humidity	Pressure
2.4000 C	C	-6.0000 C	53.9000 %	617.8400 mBar