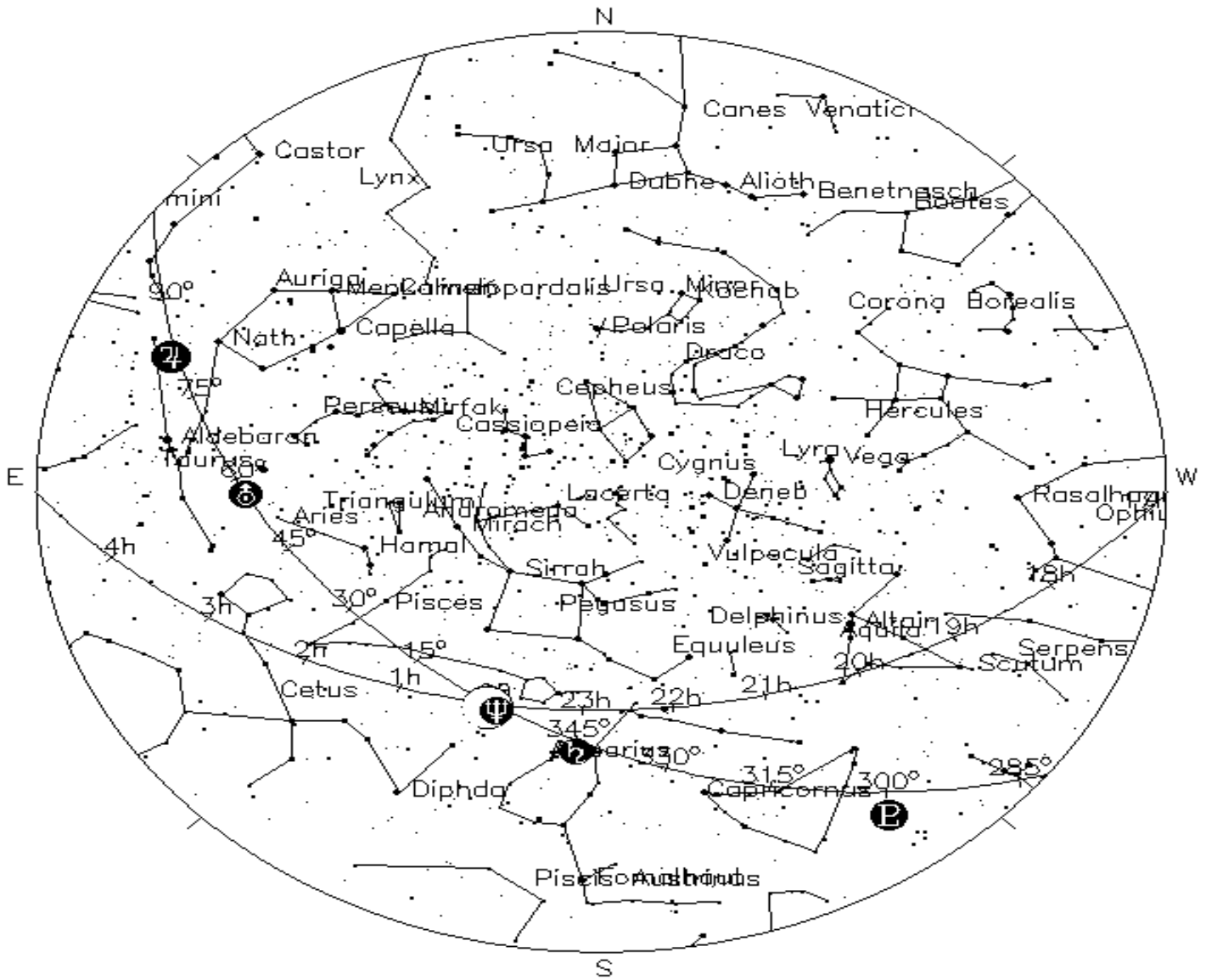


Wessex Sky Notes - 2024 October 15 at 21:00 Vol 18 No.10



Aspect of the sky from 50 45' N : 2 00' W at 21:00 UTC

Chart from www.fourmilab.ch

BST ends at 02:00 on October 27th Clocks go *back* from 02:00 to 01:00.

Lunar Phases: New: Oct. 2nd at 18:49; First Qtr: Oct. 10th at 18:55; Full Oct. 17th at 11:26; Last Qtr: Oct. 24th at 08:03;

Apsides: Apogee (furthest) Oct. 2nd at 19:38, 406516 km (29' 19") & 29th at 22:49, 406161 Km (29' 06"); Perigee (closest) Oct. 17th at 00:50, 357174 Km (33' 32").

Mercury (☿): is at Superior Conjunction on the 1st at 00:00 and reaches 18° east by month's end, but may not be seen as Mercury is below the western horizon at dusk.

Venus (♀): is pulling out in the western sky, mag. -4.0, and 37° east of the Sun, by month's end, an evening star. The Moon is close on the 5th.

Mars (♂): is 30° east of Jupiter during the month, mag. 0.3, visible all night. Moon close on the 24th.

Jupiter (♃): rises at 19:45 by mid-month, mag. -2.5, and is visible all night. Moon close on the 21st. See later for the GRS timings.

Saturn (♄): rises at 16:15, transits, at 21:33 and sets at 02:50, mid-month, mag. 0.7. Moon is near on the 14th. It's the bright 'star' below the right hand side of Pegasus, see chart above. (marked **h**).

Uranus (♅): is 30° west of Jupiter, mag 5.7, just naked eye, and, like Jupiter, visible all night. Moon close on the 19th.

Neptune (♆): is 14° east of Saturn mid-month, transiting at 22:30, mag 7.8, so will need binoculars. Moon near on the 15th.

Meteors: The **Orionids** peak on the night of the 22nd/23rd, (25 meteors/hour HZH) The Moon is approaching last quarter on a high ecliptic (just east of Mars) so may interfere at mag. -9.7

The Southern Taurid meteor shower starts on the 16th and runs till November. It's a minor shower (5 per hour) which sometimes produces bright. Just keep a watching brief if you're out on clear nights!

Sunrise set times: All times in UTC

Date	Rise	Transit	Set	Date	Rise	Transit	Set
01 Oct 2024	06:08:56	11:57:29	17:45:08	21 Oct 2024	06:41:33	11:52:32	17:02:44
06 Oct 2024	06:16:55	11:55:58	17:34:07	26 Oct 2024	06:50:00	11:51:54	16:53:03
11 Oct 2024	06:25:00	11:54:36	17:23:20	31 Oct 2024	06:58:32	11:51:35	16:43:55
16 Oct 2024	06:33:13	11:53:27	17:12:51				

Moonrise set times: All times in UTC

Date	Rise	Transit	Set	Date	Rise	Transit	Set
01 Oct 2024	04:33:40	11:06:54	17:24:44	21 Oct 2024	19:09:21	03:16:31	12:23:26
06 Oct 2024	10:27:06	14:33:24	18:31:10	26 Oct 2024	00:00:21	07:44:59	15:11:12
11 Oct 2024	15:16:12	19:03:53	23:00:14	31 Oct 2024	05:50:20	11:03:58	16:05:28
16 Oct 2024	16:45:14	23:25:14	04:55:14				

B Persei, (Algol) (Mag 2.1 to 3.4) – these timings are provisional but may be ok:

11th at 04:12; 14th at 01:00; 16th at 21:50; 19th at 18:35.

RZ Cassiopeiae (mag 6.2 to 7.7) – the minima are as follows – again provisional only.

8th at 21:27; 10th at 02:08; 14th at 20:53; 16th at 01:34; 20th at 20:18; 22nd at 01:55;
23rd at 05:40; 26th at 19:43; 28th at 00:25 and 29th at 05:06.

Lambda Tauri (mag 3.4 to 3.9) – I have no reliable information at time of writing. Please let me know if you manage to observe either Algol, or RZ Cass.

For observation of the ISS during the month, see page 3. Log-in to <http://www.heavens-above.com>. For those on the web. Also passes for the experimental ACS3 solar sail are given.

The info. on Durlston event is for Nov 9th according to the Wessex website. More info in November's issue the next. Keep an eye out on the emails for any change.

Solar news

There has been some significant activity during September, notably on the 12th (Kp=7) and 17th (Kp=8), with possible aurora activity. Note the proximity to the equinox!

STOP PRESS- there was powerful solar storm (K=9) on the 10/11 giving all sky auroras even in the south!!

Timings for Jupiter's **Great Red Spot (GRS)**: note: these timings are provisional only.

9th at 22:10; 11th at 03:57 and 23:48; 13th at 05:35; 14th at 01:26 and 23:48; 16th at 03:04 and 22:55; 18th at 04:42; 19th at 00:33 and 20:25 low down on E horizon; 21st at 02:12 and 22:03; 23rd at 03:50 and 23:41; 25th at 05:28; 26th at 01:19 and 21:10; 28th at 02:57 and 22:48; 30th at 04:35; 31st at 00:26 and 20:17, low on eastern horizon.

Good Observing R Hatch 11th October 2024. Sorry that this is late

Passes of the ISS for October.

All morning passes.

Date	Brightness (mag)	-----Start-----			---- Highest point--			-----End-----			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
16 Oct	-0.7	06:47:29	10°	SSE	06:48:53	12°	SE	06:50:18	10°	ESE	visible
18 Oct	-1.6	06:43:56	10°	SSW	06:46:41	24°	SE	06:49:28	10°	E	visible
19 Oct	-1.1	05:55:21	10°	S	05:57:33	17°	SE	05:59:45	10°	E	visible
20 Oct	-0.8	05:07:50	10°	SE	05:08:24	11°	SE	05:09:17	10°	ESE	visible
20 Oct	-2.8	06:41:14	10°	SW	06:44:26	45°	SSE	06:47:38	10°	E	visible
21 Oct	-2.3	05:53:39	22°	SSW	05:55:05	32°	SSE	05:58:06	10°	E	visible
22 Oct	-1.4	05:06:26	20°	SE	05:06:26	20°	SE	05:08:23	10°	E	visible
22 Oct	-3.7	06:39:17	14°	WSW	06:42:04	76°	SSE	06:45:24	10°	ENE	visible
23 Oct	-3.4	05:51:55	47°	SSW	05:52:32	57°	SSE	05:55:50	10°	ENE	visible
24 Oct	-1.6	05:04:27	25°	E	05:04:27	25°	E	05:06:10	10°	E	visible
24 Oct	-3.8	06:37:17	19°	W	06:39:34	80°	N	06:42:54	10°	E	visible
25 Oct	-4.0	05:49:43	79°	WSW	05:49:53	88°	S	05:53:14	10°	ENE	visible
26 Oct	-1.4	05:02:03	23°	E	05:02:03	23°	E	05:03:31	10°	ENE	visible
26 Oct	-3.8	06:34:53	22°	W	06:36:52	73°	N	06:40:13	10°	E	visible
27 Oct	-3.8	04:47:09	74°	NNE	04:47:09	74°	NNE	04:50:24	10°	E	visible
28 Oct	-1.1	03:59:22	20°	ENE	03:59:22	20°	ENE	04:00:34	10°	E	visible
28 Oct	-3.8	05:32:11	25°	WNW	05:33:58	84°	N	05:37:18	10°	E	visible
29 Oct	-3.6	04:44:21	68°	NE	04:44:21	68°	NE	04:47:23	10°	E	visible
29 Oct	-3.3	06:17:25	10°	W	06:20:40	51°	SSW	06:23:54	10°	SE	visible
30 Oct	-0.9	03:56:29	17°	E	03:56:29	17°	E	03:57:25	10°	E	visible
30 Oct	-3.8	05:29:18	30°	W	05:30:46	69°	SSW	05:34:04	10°	ESE	visible
31 Oct	-3.2	04:41:25	56°	ESE	04:41:25	56°	ESE	04:44:07	10°	ESE	visible
31 Oct	-2.5	06:14:17	10°	W	06:17:11	28°	SSW	06:20:04	10°	SSE	visible

Passes of the ACS3 (solar sail) for October.

Date	Brightness (mag)	-----Start-----		---- Highest point--			-----End-----			Pass type	
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.		Az.
02 Oct	2.9	19:25:42	10°	ESE	19:30:44	25°	ENE	19:35:44	10°	N	visible
02 Oct	1.9	21:09:50	23°	S	21:14:06	78°	WSW	21:20:30	10°	NNW	visible
02 Oct	4.2	22:55:20	10°	WSW	22:59:05	16°	W	23:02:50	10°	NW	visible
03 Oct	2.4	19:57:24	13°	SE	20:02:39	39°	ENE	20:08:26	10°	N	visible
03 Oct	2.7	21:42:36	22°	SSW	21:46:30	48°	W	21:52:39	10°	NNW	visible
04 Oct	1.9	20:30:10	20°	SE	20:34:43	62°	ENE	20:40:57	10°	N	visible
04 Oct	3.5	22:15:21	17°	SW	22:19:05	29°	W	22:24:32	10°	NNW	visible
05 Oct	3.0	19:18:47	10°	ESE	19:23:38	24°	ENE	19:28:27	10°	N	visible
05 Oct	1.9	21:02:55	25°	S	21:06:56	83°	WSW	21:13:19	10°	NNW	visible
05 Oct	4.1	22:48:07	11°	WSW	22:51:50	17°	W	22:55:52	10°	NW	visible
06 Oct	2.5	19:50:29	13°	SE	19:55:31	36°	ENE	20:01:12	10°	N	visible
06 Oct	2.6	21:35:41	25°	SSW	21:39:19	51°	W	21:45:29	10°	NNW	visible

PTO

Date	Brightness mag)	-----Start-----		---- Highest point--			-----End-----			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	
07 Oct 1.9	20:23:15	21°	SE	20:27:34	58°	ENE	20:33:44	10°	N	visible
07 Oct 3.4	22:08:27	19°	SW	22:11:52	31°	W	22:17:25	10°	NNW	visible
08 Oct 3.1	19:11:51	10°	ESE	19:16:32	22°	NE	19:21:10	10°	N	visible
08 Oct 1.8	20:56:01	27°	SSE	20:59:46	88°	WSW	21:06:07	10°	NNW	visible
08 Oct 4.1	22:41:13	13°	WSW	22:44:36	18°	W	22:48:51	10°	NW	visible
09 Oct 2.5	19:43:35	14°	ESE	19:48:24	34°	ENE	19:53:57	10°	N	visible
09 Oct 2.4	21:28:46	27°	SSW	21:32:08	55°	W	21:38:19	10°	NNW	visible
10 Oct 2.0	20:16:20	22°	SE	20:20:25	54°	ENE	20:26:31	10°	N	visible
10 Oct 3.3	22:01:32	22°	SW	22:04:39	33°	W	22:10:17	10°	NNW	visible
11 Oct 3.1	19:04:57	10°	E	19:09:25	21°	NE	19:13:52	10°	N	visible
11 Oct 1.8	20:49:06	29°	SSE	20:52:35	86°	ENE	20:58:54	10°	NNW	visible
11 Oct 4.0	22:34:18	14°	WSW	22:37:21	20°	W	22:41:48	10°	NW	visible
12 Oct 2.6	19:36:40	14°	ESE	19:41:16	32°	ENE	19:46:41	10°	N	visible
12 Oct 2.3	21:21:52	31°	SSW	21:24:55	59°	W	21:31:08	10°	NNW	visible
12 Oct 4.5	23:08:41	10°	W	23:10:14	11°	WNW	23:11:48	10°	WNW	visible
13 Oct 2.0	20:09:26	23°	SE	20:13:15	50°	ENE	20:19:16	10°	N	visible
13 Oct 3.1	21:54:37	25°	SW	21:57:25	35°	W	22:03:07	10°	NNW	visible
14 Oct 3.2	18:58:02	10°	E	19:02:18	19°	NE	19:06:32	10°	N	visible
14 Oct 1.7	20:42:11	31°	SSE	20:45:25	81°	ENE	20:51:41	10°	NNW	visible
14 Oct 3.9	22:27:23	16°	WSW	22:30:05	21°	W	22:34:44	10°	NW	visible
15 Oct 2.7	19:29:45	14°	ESE	19:34:07	30°	ENE	19:39:23	10°	N	visible
15 Oct 2.2	21:14:57	34°	SSW	21:17:43	63°	W	21:23:56	10°	NNW	visible
15 Oct 4.4	23:00:43	10°	W	23:02:57	12°	W	23:05:10	10°	WNW	visible
16 Oct 2.1	20:02:30	23°	SE	20:06:06	47°	ENE	20:12:00	10°	N	visible
16 Oct 3.0	21:47:42	28°	SW	21:50:11	38°	W	21:55:58	10°	NNW	visible
17 Oct 3.2	18:51:09	10°	E	18:55:11	18°	NE	18:59:10	10°	NNE	visible
17 Oct 1.7	20:35:16	34°	SSE	20:38:14	76°	ENE	20:44:27	10°	N	visible
17 Oct 3.8	22:20:28	18°	WSW	22:22:49	23°	W	22:27:38	10°	NW	visible
18 Oct 2.7	19:22:49	14°	ESE	19:26:59	28°	ENE	19:32:06	10°	N	visible
18 Oct 2.1	21:08:01	38°	S	21:10:30	67°	W	21:16:43	10°	NNW	visible
18 Oct 4.4	22:53:13	11°	WSW	22:55:39	13°	W	22:58:21	10°	NW	visible
19 Oct 2.2	19:55:34	24°	ESE	19:58:55	44°	ENE	20:04:45	10°	N	visible
19 Oct 2.9	21:40:46	31°	SW	21:42:57	40°	W	21:48:46	10°	NNW	visible
20 Oct 3.3	18:44:16	10°	E	18:48:03	17°	NE	18:51:48	10°	NNE	visible
20 Oct 1.7	20:28:19	36°	SE	20:31:02	71°	ENE	20:37:12	10°	N	visible
20 Oct 3.7	22:13:31	21°	WSW	22:15:33	24°	W	22:20:31	10°	NW	visible
21 Oct 2.8	19:15:53	14°	ESE	19:19:49	26°	ENE	19:24:47	10°	N	visible
21 Oct 2.0	21:01:04	42°	S	21:03:17	72°	WSW	21:09:30	10°	NNW	visible
21 Oct 4.3	22:46:16	12°	WSW	22:48:21	14°	W	22:51:27	10°	NW	visible
22 Oct 2.2	19:48:38	25°	ESE	19:51:45	41°	ENE	19:57:28	10°	N	visible
22 Oct 2.8	21:33:49	35°	SW	21:35:42	43°	W	21:41:35	10°	NNW	visible
23 Oct 3.3	18:37:24	10°	E	18:40:55	16°	NE	18:44:24	10°	NNE	visible
23 Oct 1.7	20:21:22	38°	SE	20:23:49	66°	ENE	20:29:57	10°	N	visible
23 Oct 3.6	22:06:34	23°	WSW	22:08:17	26°	W	22:13:22	10°	NNW	visible

24 Oct 2.8	19:08:55	14°	ESE	19:12:40	25°	ENE	19:17:28	10°	N	visible
24 Oct 1.9	20:54:07	47°	S	20:56:04	77°	WSW	21:02:16	10°	NNW	visible
24 Oct 4.2	22:39:19	14°	W	22:41:03	15°	W	22:44:28	10°	NW	visible
25 Oct 2.3	19:41:40	25°	ESE	19:44:34	38°	ENE	19:50:10	10°	N	visible
25 Oct 2.6	21:26:51	39°	SW	21:28:27	46°	W	21:34:23	10°	NNW	visible
26 Oct 3.4	18:30:34	10°	E	18:33:47	15°	NE	18:36:58	10°	NNE	visible
26 Oct 1.8	20:14:24	39°	SE	20:16:37	62°	ENE	20:22:41	10°	N	visible
26 Oct 3.5	21:59:35	25°	WSW	22:01:00	28°	W	22:06:13	10°	NNW	visible
27 Oct 2.9	18:01:56	14°	E	18:05:30	23°	ENE	18:10:07	10°	N	visible
27 Oct 1.8	19:47:08	51°	S	19:48:49	82°	WSW	19:55:01	10°	NNW	visible
27 Oct 4.1	21:32:20	15°	W	21:33:44	16°	W	21:37:27	10°	NW	visible
28 Oct 2.4	18:34:40	25°	ESE	18:37:22	36°	ENE	18:42:51	10°	N	visible
28 Oct 2.5	20:19:52	43°	SW	20:21:11	50°	W	20:27:09	10°	NNW	visible
29 Oct 3.4	17:23:45	10°	ENE	17:26:38	14°	NE	17:29:30	10°	NNE	visible
29 Oct 1.8	19:07:24	40°	SE	19:09:24	58°	ENE	19:15:24	10°	N	visible
29 Oct 3.4	20:52:35	28°	WSW	20:53:43	30°	W	20:59:02	10°	NNW	visible
30 Oct 3.0	17:54:56	14°	E	17:58:19	21°	NE	18:02:46	10°	N	visible
30 Oct 1.7	19:40:07	56°	S	19:41:35	88°	W	19:47:45	10°	NNW	visible
30 Oct 4.0	21:25:19	17°	W	21:26:25	18°	W	21:30:24	10°	NW	visible
31 Oct 2.4	18:27:39	24°	ESE	18:30:10	33°	ENE	18:35:33	10°	N	visible
31 Oct 2.4	20:12:51	48°	SW	20:13:55	53°	W	20:19:56	10°	NNW	visible