

## Observing notes 2010

Times and co-ordinates are from Solihull and are shown as follows

Altitude/Azimuth is shown in curled brackets, e.g. (192/23)

Times are shown in local time, BST in the summer and UT during winter and shown in straight brackets, e.g. [08-17]

### January

	sunrise	sunset	
1	08-17	16-04	Jupiter (192/23) East of Neptune (194/22) at sunset
2	08-17	16-05	Moon right of Mars (105/35) late evening [23-00]
3	08-17	16-06	Moon South of Mars (106/35) late evening [23-00]
4	08-17	16-07	Quadrantids Meteor Shower peak
6	08-16	16-10	Moon near Saturn (209/34) this morning [07-00]
7	08-15	16-11	Moon last quarter
13	08-12	16-20	Uranus (186/34) Jupiter (209/20) Neptune (212/18) in line after sunset [16-30]
15	08-10	16-23	New Moon
18	08-07	16-28	Crescent Moon above Jupiter (212/20) at sunset
23	08-01	16-37	Moon first quarter
27	07-56	16-44	Mercury greatest elongation West (148/8) at sunrise
29	07-53	16-48	Mars at Opposition visible all night left of full Moon [21-00]
30	07-52	16-49	Moon 6 deg South of Mars (109/41) [21-00]

### February

	sunrise	sunset	
1	07-48	16-53	Moon near Saturn (166/37) and Mars (243/46) early morning [03-00]
2	07-47	16-55	Moon West of Saturn (149/34) early morning [02-00]
3	07-45	16-57	Moon South of Saturn (151/34) early morning [02-00]
5	07-42	17-01	Moon last quarter
7	07-38	17-05	Mars (139/55) North of Beehive cluster [22-00]
14	07-25	17-18	New Moon
15	07-23	17-20	Crescent Moon above Venus and Jupiter (244/06) in evening twilight
16	07-21	17-22	Venus and Jupiter (244/06) in conjunction in evening twilight
21	07-11	17-31	Moon clips Pleiades [sunset to 22-00]
22	07-09	17-33	Moon first quarter
25	07-02	17-38	Moon Mars and Pollux make triangle in evening
26	07-00	17-40	Moon (245/40) South of Mars (247/45) [01-00]
28	06-56	17-44	Full Moon

### March

	sunrise	sunset	
1	06-54	17-46	Moon near Saturn all night
2	06-51	17-48	Moon 7deg South Saturn [04-00]
7	06-40	17-57	Moon last quarter
15	06-22	18-11	New moon
17	06-17	18-15	Crescent Moon above Venus in evening twilight
20	06-10	18-20	Vernal Equinox - Moon below Pleiades [22-00]
22	06-05	18-23	Saturn at Opposition
23	06-03	18-25	Moon first quarter
25	05-58	18-29	Moon South of Mars [136/54] at sunset
28	06-51	19-34	BST begins

29 **05-49 18-36** Moon South of Saturn **[98/09]** at sunset  
 30 **06-47 19-37** Full Moon  
 April  
 sunrise sunset  
 1 **06-42 19-41** Mercury right of Venus in evening twilight  
 3 **06-37 19-44** Mercury closest to Venus in evening twilight  
 6 **06-30 19-50** Moon last quarter  
 8 **06-26 19-53** Mercury greatest elongation East  
 14 **06-12 20-03** New moon  
 15 **06-10 20-05** Crescent Moon close to Mercury in evening twilight  
 16 **06-08 20-07** Crescent Moon above Venus in evening twilight  
 Mars close to Beehive cluster tonight  
 21 **05-57 20-16** Moon first quarter near Mars and M44 tonight  
 22 **05-55 20-17** Lyrids Meteor Shower / Moon near Mars tonight  
 25 **05-48 20-23** Moon 9deg South Saturn **[23-00]**  
 28 **05-42 20-28** Full Moon

May  
 sunrise sunset  
 5 **05-29 20-40** Eta Aquarids Meteor Shower.  
 6 **05-27 20-41** Eta Aquarids Meteor Shower. / Moon last quarter  
 7 **05-25 20-43** Moon near Neptune in morning twilight  
 9 **05-20 20-48** Moon near Jupiter in morning twilight  
 12 **05-16 20-51** Moon 7deg North of Mercury at sunrise  
 14 **05-13 20-54** New Moon  
 16 **05-10 20-57** Crescent Moon near M35 and Venus in evening twilight  
 20 **05-04 21-04** Moon first quarter near Mars at sunset  
 22 **05-02 21-06** Moon 7deg South of Saturn **[23-00]**  
 26 **04-57 21-12** Mercury greatest elongation West  
 27 **04-56 21-13** Full Moon

June  
 sunrise sunset  
 2 **04-51 21-19** Ceres (189/12) close to Lagoon Nebula visible with binoculars **[03-00]**  
 4 **04-49 21-21** Moon last quarter / Jupiter (122/20) and Uranus (121/21) close together at sunrise  
 6 **04-48 21-23** Moon 6deg North of Jupiter at sunrise  
 8 **04-47 21-25** Conjunction - Jupiter (124/22) 0.5deg South of Uranus at sunrise  
 12 **04-45 21-29** New Moon  
 14 **04-44 21-30** Crescent Moon near Venus in evening twilight  
 15 **04-44 21-31** Crescent Moon near Venus in evening twilight  
 17 **04-44 21-32** Moon 6deg South East of Mars at sunset  
 18 **04-44 21-32** Moon below Saturn in evening twilight  
 19 **04-44 21-33** Moon first quarter South East of Saturn at sunset  
 21 **04-44 21-33** Summer Solstice  
 26 **04-46 21-33** Full Moon

## July

From about the middle of July, and for the remainder of the month  
Saturn, Mars, Venus and Mercury will be close together low in the West at sunset

	sunrise	sunset	
1	<b>04-49</b>	<b>21-32</b>	Moon above Neptune (155/22) <b>[03-00]</b>
3	<b>04-50</b>	<b>21-32</b>	Moon near Jupiter at sunrise
4	<b>04-51</b>	<b>21-31</b>	Moon last quarter above Jupiter and Uranus at sunrise
8	<b>04-55</b>	<b>21-29</b>	Crescent Moon close to Pleiades in morning twilight
11	<b>04-58</b>	<b>21-26</b>	New Moon
14	<b>05-01</b>	<b>21-23</b>	Crescent Moon below Venus at sunset, Saturn, Mars and Mercury nearby
15	<b>05-03</b>	<b>21-22</b>	Crescent Moon below Mars at sunset, Saturn, Mars and Mercury nearby
16	<b>05-04</b>	<b>21-21</b>	Crescent Moon near Saturn and Mars at sunset, Venus and Mercury nearby
17	<b>05-05</b>	<b>21-20</b>	Saturn, Mars, Venus and Mercury in line at sunset
18	<b>05-06</b>	<b>21-19</b>	Moon first quarter
26	<b>05-18</b>	<b>21-08</b>	Full moon
31	<b>05-25</b>	<b>21-00</b>	Moon above Jupiter and Uranus at sunrise

## August

For all of August, Saturn, Mars and Venus will be close together low in the West at sunset  
Mercury will be with them for the first half of the month

	sunrise	sunset	
3	<b>05-30</b>	<b>20-55</b>	Moon last quarter
7	<b>05-36</b>	<b>20-48</b>	Mercury greatest elongation East
10	<b>05-41</b>	<b>20-42</b>	New moon
12	<b>05-45</b>	<b>20-38</b>	Perseids Meteor Shower / Moon 2deg S Mercury
13	<b>05-46</b>	<b>20-36</b>	Moon South of Saturn, Venus and Mars at sunset
16	<b>05-51</b>	<b>20-30</b>	Moon first quarter
20	<b>05-58</b>	<b>20-22</b>	Neptune at Opposition
24	<b>06-04</b>	<b>20-13</b>	Full moon
26	<b>06-08</b>	<b>20-09</b>	Moon above Uranus and Jupiter in evening

## September

For the first half of September, Saturn, Mars and Venus will be close together low in the West at sunset

	sunrise	sunset	
1	<b>06-18</b>	<b>19-55</b>	Moon last quarter
8	<b>06-29</b>	<b>19-39</b>	New Moon
11	<b>06-34</b>	<b>19-32</b>	Moon, Saturn, Mars and Venus close together at sunset
15	<b>06-41</b>	<b>19-22</b>	Moon first quarter
19	<b>06-48</b>	<b>19-13</b>	Mercury greatest elongation West this morning
22	<b>06-53</b>	<b>19-06</b>	Jupiter (145/30) and Uranus (145/31) in conjunction <b>[23-00]</b>
23	<b>06-54</b>	<b>19-03</b>	Autumnal Equinox / Full moon
28	<b>07-03</b>	<b>18-52</b>	Moon close to Pleiades early morning

## October

	sunrise	sunset	
1	<b>07-08</b>	<b>18-45</b>	Moon last quarter
7	<b>07-18</b>	<b>18-31</b>	New Moon
14	<b>07-30</b>	<b>18-15</b>	Moon first quarter
17	<b>07-35</b>	<b>18-08</b>	Moon above Neptune (133/12) at sunset
20	<b>07-41</b>	<b>18-02</b>	Moon near Jupiter and Uranus at sunset
22	<b>07-44</b>	<b>17-58</b>	Orionids Meteor Shower comet Hartley2 brightest near M38
23	<b>07-46</b>	<b>17-56</b>	Full Moon
30	<b>07-57</b>	<b>17-43</b>	Moon last quarter BST ends

## November

	sunrise	sunset	
3	07-06	16-34	Crescent Moon Right of Saturn in morning twilight
4	07-08	16-32	Crescent Moon below of Saturn in morning twilight
5	07-10	16-30	Crescent Moon near Venus at sunrise
6	07-12	16-29	New Moon
13	07-24	16-17	Moon first quarter
16	07-30	16-13	Moon above Jupiter and Uranus this evening, Neptune nearby
18	07-33	16-10	Leonids Meteor Shower peak
21	07-38	16-07	Full Moon close to Pleiades this evening
28	07-50	16-00	Moon last quarter

## December

	sunrise	sunset	
1	07-54	15-57	Crescent Moon near Saturn and Venus at sunrise Mercury greatest elongation East
2	07-56	15-57	Crescent Moon near Saturn and Venus at sunrise
4	07-58	15-55	Venus greatest brilliance
5	08-00	15-55	New moon
7	08-02	15-54	Crescent Moon near Mercury in evening twilight, Mars nearby
13	08-09	15-53	Moon first quarter close to Jupiter and Uranus this evening
14	08-10	15-53	Geminids Meteor Shower peak
21	08-15	15-55	Full moon / Total Lunar Eclipse as Moon sets in early morning
22	08-15	15-55	Ursid meteor shower peak
28	08-17	16-00	Moon last quarter right of Saturn early morning
31	08-17	16-03	Crescent Moon right of Venus in morning twilight