Observation Plan for the month of June 2017

Moon

New	1st Quarter	Full Moon	Last Quarter
25/6/17	3/6/17	10/6/17	19/6/17

Planets

Planet	Magnitude	Comments
Mercury	N/a	Not visible this month (at greatest Western elongation on 17/6/17)
Venus	-4.3	Rising about 90 minutes before Sunrise
Mars	+1.6	Setting in Taurus by about 23:00
Jupiter	-2.2	Visible all night in Virgo
Saturn	+0.2	Rising at about 23:00 between Sagittarius and Ophiuchus
Uranus	N/a	Not visible this month
Neptune	+7.9	Rising in Aquarius at about 02:30

Comets

Name: C/2015 Johnson	Magnitude	RA	Dec
5th of the month	+6.7	14h 36'	+17º 26'
15th of the month	+6.8	14h 23'	+6º 17'
25th of the month	+6.9	14h 15'	-3º 55'

Name: 71P/Clark	Magnitude	RA	Dec
5th of the month	+11.7	16h 34'	-28º 21'
15th of the month	+11.7	16h 29'	-30º 43'
25th of the month	+11.7	16h 28'	-32º 42'

Name: 41P/ Tuttle-Gia...	Magnitude	RA	Dec
5th of the month	+11.6	18h 27'	+11º 30'
15th of the month	+12.9	18h 21'	+5º 09'
25th of the month	+14.2	18h 15'	-0º 15'

Meteor Showers

Name	Nominal start date	Nominal end date	Peak ZHR	Originating comet	Moon illumination at peak and comments
No showers this	month				

Deep Sky

Constellation	Object	RA	Dec	Mag	Type	Dates seen
Boőtes	NGC5466	14h 05'	+28° 32'	+9.2	Globular Cluster	
Camelopardis	IC342	03h 47'	+68º 06'	+9.1	Galaxy	
Camelopardis	NGC1502	04h 08'	+62° 21'	+4.1	Open Cluster	
Camelopardis	NGC2403	07h 37'	+65° 35'	+8.9	Galaxy	
Canes Venatici	NGC4111	12h 07'	+43º 04'	+10.7	Galaxy	
Canes Venatici	NGC4138	12h 09'	+43º 41'	+11.3	Galaxy	

Canes Venatici	NGC4145	12h 10'	+39º 53'	+11.3	Galaxy	
Canes Venatici	NGC4151	12h 11'	+39º 24'	+11.5	Galaxy	
Canes Venatici	NGC4214	12h 16'	+36º 20'	+10.2	Galaxy	
Canes Venatici	NGC4220	12h 16'	+47º 53'	+11.3	Galaxy	
Canes Venatici	NGC4244	12h 17'	+37º 48'	+10.4	Galaxy	
Canes Venatici	M106	12h 19'	+47° 18'	+9.1	Galaxy	
Canes Venatici	NGC4449	12h 28'	+44° 05'	+10.1	Galaxy	
Canes Venatici	NGC4490	12h 31'	+41º 39'	+9.8	Galaxy	
Canes Venatici	NGC4631	12h 42'	+32° 32'	+9.8	Galaxy	
Canes Venatici	NGC4656	12h 44'	+32º 10'	+11.0	Galaxy	
Canes Venatici	M94	12h 50'	+41° 07	+8.8	Galaxy	
Canes Venatici	NGC5005	13h 11'	+37º 04'	+10.6	Galaxy	
Canes Venatici	NGC5033	13h 13'	+36º 36'	+10.2	Galaxy	
Canes Venatici	M63	13h 16'	+42° 02'	+9.3	Galaxy	
Canes Venatici	M51	13h 30'	+47° 12'	+8.9	Galaxy	
Canes Venatici	NGC5195	13h 30'	+47º 16'	+9.6	Galaxy	
Canes Venatici	M3	13h 42'	+28° 23'	+6.3	Globular Cluster	
Canes Venatici	NGC5377	13h 56'	+47º 14'	+11.3	Galaxy	
Canes Venatici	NGC5383	13h 57'	+41º 51'	+11.5	Galaxy	
Canes Venatici	NGC5273	35h 42'	+35º 39'	+11.6	Galaxy	
Cassiopeia	NGC129	00h 30'	+60° 13'	+9.8	Open Cluster	
Cassiopeia	NGC281	00h 53'	+56° 38'	+7.4	Diffuse Nebula	
Cassiopeia	NGC457	01h 19'	+58° 19'	+5.1	Open Cluster	
Cassiopeia	M103	01h 33'	+60° 42'	+6.9	Open Cluster	

Cassiopeia	M52	23h 24'	+61° 35'	+8.2	Open Cluster	
Cepheus	NGC40	00h 13'	+72º 33'	+10.7	Planetary Nebula	
Cepheus	NGC188	00h 44'	+85º 22'	+9.3	Open Cluster	
Cepheus	NGC7354	22h 40'	+61º 17'	+12.2	Planetary Nebula	
Coma Berenices	NGC4147	12h 10'	+18º 33'	+10.3	Globular Cluster	
Coma Berenices	M98	12h 14'	+14º 24'	+10.9	Galaxy	
Coma Berenices	M99	12h 19'	+14º 55'	+10.4	Galaxy	
Coma Berenices	NGC4293	12h 21'	+18º 23'	+10.4	Galaxy	
Coma Berenices	M100	12h 23'	+15º 49'	+10.1	Galaxy	
Coma Berenices	M85	12h 25'	+18º 11'	+9.2	Galaxy	
Coma Berenices	NGC4414	12h 26'	+31º 13'	+10.1	Galaxy	
Coma Berenices	NGC4450	12h 29'	+17º 05'	+10.1	Galaxy	
Coma Berenices	NGC4473	12h 30'	+13º 26'	+10.2	Galaxy	
Coma Berenices	NGC4477&4459	12h 30'	+13º 38'	+10.4	Galaxy	
Coma Berenices	M88	12h 32'	+14º 25'	+10.3	Galaxy	
Coma Berenices	M91	12h 35'	+14º 30'	+10.9	Galaxy	
Coma Berenices	NGC4565	12h 36'	+25º 59'	+10.6	Galaxy	
Coma Berenices	NGC4559	12h 36'	+27º 57'	+10.5	Galaxy	
Coma Berenices	M64	12h 57'	+21º 41'	+9.3	Galaxy	
Coma Berenices	M53	13h 13'	+18º 10'	+7.7	Globular Cluster	
Draco	NGC5907	15h 15'	+56º 19'	+11.1	Galaxy	
Draco	NGC6543	17h 58'	+66º 37'	+8.8	Planetary Nebula	
Hercules	IC4593	16h 12'	+12º 04'	+10.7	Planetary Nebula	
Hercules	M13	16h 42'	+36° 28'	+5.9	Globular Cluster	

Hercules	NGC6207	16h 43'	+36º 50'	+11.6	Galaxy	
Hercules	NGC6229	16h 46'	+47° 31'	+9.4	Globular Cluster	
Hercules	M92	17h 17'	+43° 08'	+6.5	Globular Cluster	
Lacerta	NGC7209	22h 05'	+46° 29'	+7.8	Open Cluster	
Leo	NGC2903	09h 32'	+21° 30'	+9.6	Galaxy	
Leo	NGC3226	10h 23'	+19º 54'	+11.4	Galaxy	
Leo	NGC3227	10h 24'	+19º 52'	+10.3	Galaxy	
Leo	M95	10h 44'	+11° 42'	+10.5	Galaxy	
Leo	M96	10h 47'	+11° 49'	+10.1	Galaxy	
Leo	M105	10h 48'	+12° 35'	+10.2	Galaxy	
Leo	M65	11h 19'	+13° 05'	+10.2	Galaxy	
Leo	M66	11h 20'	+12° 59'	+9.5	Galaxy	
Leo	NGC3628	11h 21'	+13° 31'	+9.5	Galaxy	
Leo Minor	NGC3432	10h 53'	+36º 37'	+11.2	Galaxy	
Perseus	M76	01h 42'	+51° 34'	+12.2	Planetary Nebula	
Perseus	NGC869	02h 19'	+57° 08'	+4.3	Open Cluster	
Perseus	NGC884	02h 22'	+57° 06'	+4.3	Open Cluster	
Perseus	M34	02h 42'	+42° 47'	+5.8	Open Cluster	
Perseus	NGC1499	04h 03'	+36° 23'	+5.0	Diffuse Nebula	
Perseus	NGC1491	04h 03m	+51º 19'		Emission Nebula	
Perseus	NGC1579	04h 30'	+35º 16'		Emission Nebula	
Ursa Major	M81	09h 56'	+69° 04'	+7.8	Galaxy	
Ursa Major	M82	09h 56'	+69° 41'	+9.2	Galaxy	
Ursa Major	NGC3079	10h 02'	+55º 41'	+10.9	Galaxy	

Ursa Major	NGC3077	10h 03'	+68º 44'	+9.8	Galaxy	
Ursa Major	NGC3198	10h 20'	+45º 33'	+10.3	Galaxy	
Ursa Major	M108	11h 11'	+55° 40'	+10.9	Galaxy	
Ursa Major	M97	11h 15'	+55° 01'	+12.0	Planetary Nebula	
Ursa Major	NGC3675	11h 26'	+43º 35'	+11.0	Galaxy	
Ursa Major	NGC3726	11h 33'	+47° 01'	+10.9	Galaxy	
Ursa Major	NGC3877	11h 46'	+47° 29'	+11.8	Galaxy	
Ursa Major	NGC3893	11h 49'	+48º 43'	+10.5	Galaxy	
Ursa Major	NGC3953	11h 54'	+52º 20'	+10.1	Galaxy	
Ursa Major	M109	11h 58'	+53° 23'	+10.8	Galaxy	
Ursa Major	NGC4026	11h 59'	+50° 57'	+11.7	Galaxy	
Ursa Major	NGC4036	12h 01'	+61º 54'	+10.7	Galaxy	
Ursa Major	NGC4051	12h 03'	+44º 32'	+10.2	Galaxy	
Ursa Major	M40	12h 22'	+58° 50'	+8.0	Double Star	
Ursa Major	M101	14h 03'	+54° 21'	+7.7	Galaxy	
Virgo	NGC4378	12h 25'	+04° 55'	+12.3	Galaxy	
Virgo	M84	12h 25'	+12° 53'	+10.1	Galaxy	
Virgo	M84	12h 25'	+12º 53'	+10.1	Galaxy	
Virgo	M84	12h 26'	+12° 47'	+9.3	Galaxy	
Virgo	NGC4388	12h 26'	+12º 40'	+11.0	Galaxy	
Virgo	M86	12h 26'	+12º 57'	+8.9	Galaxy	
Virgo	NGC4438	12h 28'	+13º 01'	+10.2	Galaxy	
Virgo	NGC4438&4435	12h 28'	+13º 01'	+10.0	Galaxy	
Virgo	3C 273	12h 29'	+02º 03'	+11.7-13.2	Quasar	

Virgo	M87	12h 31'	+12° 24'	+9.5	Galaxy	
Virgo	NGC4564	12h 37'	+11º 20'	+11.1	Galaxy	
Virgo	M90	12h 38'	+13º 04'	+9.5	Galaxy	
Virgo	M104	12h 39'	-11° 37'	+9.1	Galaxy	
Virgo	M58	12h 39'	+11º 43'	+9.8	Galaxy	
Virgo	NGC4636	12h 43'	+02º 41'	+9.5	Galaxy	
Virgo	NGC4665	12h 45'	+03º 03'	+10.5	Galaxy	
Virgo	NGC4753	12h 52'	-01º 12'	+9.9	Galaxy	
Virgo	NGC4762	12h 53'	+11º 04'	+10.3	Galaxy	
Virgo	NGC4461	12h029'	+13º 11'	+11.2	Galaxy	
Virgo	NGC4435	12h28'	+13º 05'	+10.8	Galaxy	
Virgo	NGC5044	13h 16'	-16º 28'	+11.0	Galaxy	
Virgo	NGC5077	13h 20'	-12º 44'	+11.5	Galaxy	
Virgo	NGC5247	13h 29'	-17º 58'	+10.5	Galaxy	
Virgo	NGC5170	13h 31'	-18º 03'	+12.0	Galaxy	
Virgo	NGC5846	15h 06'	+01º 36'	+10.0	Galaxy	