

Observation Plan for the month of September 2019

Moon

New	1st Quarter	Full Moon	Last Quarter
28/9/19	6/9/19	14/9/19	22/9/19

NB – Autumn equinox 23/9/19

Planets

Planet	Magnitude	Comments
Mercury	N/A	Not visible this month
Venus	N/A	Not visible this month
Mars	N/A	Not visible this month
Jupiter	-2.1	Setting at about 22:30
Saturn	+0.4	Setting at about 00:30
Uranus	+5.7	Rising at about 08:30
Neptune	+7.8	Visible throughout the night. At opposition on 10/9/19

Comets

Name: Africano	Magnitude	RA	Dec
5th of the month	+10.8	2h 49'	+52° 59'
15th of the month	+10.1	1h 35'	+43° 01'
25th of the month	+9.7	0h 08'	+19° 15'

Deep Sky

Constellation	Object	RA	Dec	Mag	Type	Dates seen
Andromeda	M110	00h 40'	+41° 23'	+8.9	Galaxy	
Andromeda	M31	00h 43'	+41° 16'	+4.3	Galaxy	
Andromeda	M32	00h 43'	+40° 52'	+8.8	Galaxy	
Andromeda	NGC752	01h 58'	+37° 42'	+6.6	Open Cluster	
Andromeda	NGC691	02h 22'	+42° 20'	+10.8	Galaxy	
Andromeda	NGC891	02h 223'	+42° 21'	+10.8	Galaxy	
Andromeda	NGC7662	23h 26'	+42° 33'	+9.8	Planetary Nebula	
Aquarius	M2	21h 33'	+00° 49'	+6.6	Globular Cluster	
Aquila	NGC6709	18h 51'	+10° 20'	+7.4	Open Cluster	
Aquila	NGC6751	19h 06'	-05° 59'	+11.9	Planetary Nebula	
Aquila	NGC6778	19h 18'	-01° 36'	+11.9	Planetary Nebula	
Aquila	NGC6781	19h 19'	+06° 32'	+11.4	Planetary Nebula	
Aquila	NGC6804	19h 32'	+09° 13'	+12.2	Planetary Nebula	
Camelopardis	IC342	03h 47'	+68° 06'	+9.1	Galaxy	
Camelopardis	NGC1502	04h 08'	+62° 21'	+4.1	Open Cluster	
Camelopardis	NGC2403	07h 37'	+65° 35'	+8.9	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'	+72° 33'	+10.7	Planetary Nebula	

Cepheus	NGC188	00h 44'	+85° 22'	+9.3	Open Cluster	
Cepheus	NGC7023	21h 02'	+68° 10'	+6.8	Reflection Nebula	
Cepheus	NGC7354	22h 40'	+61° 17'	+12.2	Planetary Nebula	
Cygnus	NGC6826	19h 44'	+50° 32'	+9.8	Planetary Nebula	
Cygnus	NGC6894	20h 16'	+30° 34'	+12.3	Planetary Nebula	
Cygnus	NGC6910	20h 23'	+40° 46'	+7.3	Open Cluster	
Cygnus	M29	20h 24'	+38° 32'	+7.5	Open Cluster	
Cygnus	NGC6946	20h 34'	+60° 10'	+9.7	Galaxy	
Cygnus	NGC6960	20h 45'	+30° 43'	+7.0	Supernova remnant	
Cygnus	NGC6992	20h 56'	+31° 43'	+7.0	Supernova remnant	
Cygnus	NGC6995	20h 57'	+31° 13'	+7.0	Supernova remnant	
Cygnus	NGC7000	21h 01'	+44° 12'	+4.0	Diffuse Nebula	
Cygnus	NGC7008	21h 01'	+54° 37'	+13.00	Planetary Nebula	
Cygnus	NGC7026	21h 06'	+47° 51'	+10.9	Planetary Nebula	
Cygnus	NGC7048	21h 14'	+46° 17'	+12.1	Planetary Nebula	
Cygnus	M39	21h 32'	+48° 26'	+5.3	Open Cluster	
Cygnus	NGC7538	23h 14'	+61° 28'		Emission Nebula	
Cygnus	NGC7635	23h 21'	+61° 18'	+10.00	Emission Nebula	
Delphinus	NGC6891	20h 15'	+12° 42'	+11.7	Planetary Nebula	
Delphinus	NGC6905	20h 22'	+20° 06'	+11.1	Planetary Nebula	
Delphinus	NGC6934	20h 34'	+07° 25'	+8.9	Globular Cluster	
Delphinus	NGC7006	21h 01'	+16° 12'	+10.6	Globular Cluster	
Draco	NGC5907	15h 15'	+56° 19'	+11.1	Galaxy	
Draco	NGC6543	17h 58'	+66° 37'	+8.8	Planetary Nebula	
Hercules	IC4593	16h 12'	+12° 04'	+10.7	Planetary Nebula	
Hercules	M13	16h 42'	+36° 28'	+5.9	Globular Cluster	
Hercules	NGC6207	16h 43'	+36° 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	
Lyra	M57	18h 54'	+33° 02'	+9.7	Planetary Nebula	
Lyra	M56	19h 17'	+30° 11'	+8.2	Globular Cluster	
Lyra	NGC6791	19h 20'	+37° 51'	+9.5	Open Cluster	
Ophiuchus	M107	16h 32'	-13° 03'	+7.8	Globular Cluster	
Ophiuchus	M12	16h 47'	-01° 57'	+6.1	Globular Cluster	
Ophiuchus	M10	16h 57'	-04° 06'	+6.6	Globular Cluster	
Ophiuchus	M62	17h 01'	-30° 07'	+6.4	Globular Cluster	
Ophiuchus	M19	17h 02'	-26° 16'	+6.8	Globular Cluster	
Ophiuchus	M9	17h 19'	-18° 31'	+7.8	Globular Cluster	
Ophiuchus	M14	17h 37'	-03° 15'	+7.6	Globular Cluster	
Pegasus	M15	21h 30'	+12° 10'	+6.4	Globular Cluster	
Pegasus	NGC7094	21h 37'	+12° 47'	+13.4	Planetary Nebula	
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	NGC1023	02h 40'	+39° 04'	+10.35	Galaxy	
Perseus	M34	02h 42'	+42° 47'	+5.8	Open Cluster	
Perseus	NGC1499	04h 03'	+36° 23'	+5.0	Diffuse Nebula	
Perseus	NGC1491	04h 03'	+51° 19'		Emission Nebula	
Perseus	NGC1579	04h 30'	+35° 16'		Emission Nebula	
Sagitta	M71	19h 54'	+18° 47'	+8.3	Globular Cluster	
Sagittarius	M23	17h 57'	-19° 01'	+5.5	Open Cluster	
Sagittarius	M20	18h 03'	-23° 02'	+6.3	Diffuse Nebula	
Sagittarius	M8	18h 04'	-24° 23'	+5.0	Diffuse Nebula	

Sagittarius	M21	18h 05'	-22° 30'	+7.2	Open Cluster	
Sagittarius	M18	18h 20'	-17° 08'	+7.5	Open Cluster	
Sagittarius	M17	18h 21'	-16° 11'	+6.0	Diffuse Nebula	
Sagittarius	M28	18h 24'	-24° 52'	+6.9	Globular Cluster	
Sagittarius	M69	18h 31'	-32° 31'	+7.7	Globular Cluster	
Sagittarius	M25	18h 32'	-19° 15'	+6.2	Open Cluster	
Sagittarius	M22	18h 37'	-23° 54'	+5.1	Globular Cluster	
Sagittarius	M70	18h 43'	-32° 18'	+7.8	Globular Cluster	
Sagittarius	M54	18h 55'	-20° 39'	+7.7	Globular Cluster	
Sagittarius	M55	19h 40'	-30° 58'	+6.3	Globular Cluster	
Sagittarius	M75	20h 06'	-21° 55'	+8.6	Globular Cluster	
Scutum	M26	18h 45'	-09° 24'	+9.0	Open Cluster	
Scutum	M11	18h 51'	-06° 16'	+6.1	Open Cluster	
Serpens	Palomar5	15h 16'	-00° 06'	+11.8	Globular Cluster	
Serpens	M5	15h 19'	+02° 05'	+5.7	Globular Cluster	
Serpens	NGC6118	16h 23'	-02° 19'	+12.0	Galaxy	
Serpens	M16	18h 19'	-13° 47'	+6.0	Open Cluster	
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'	+55° 41'	+10.9	Galaxy	
Ursa Major	NGC3077	10h 03'	+68° 44'	+9.8	Galaxy	
Ursa Major	NGC3198	10h 20'	+45° 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'	+43° 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'	+48° 43'	+10.5	Galaxy	
Ursa Major	NGC3953	11h 54'	+52° 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'	+61° 54'	+10.7	Galaxy	
Ursa Major	NGC4051	12h 03'	+44° 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	
Vulpecula	Collinder 399	19h 25'	+20° 11'	+4.8	Open Cluster	
Vulpecula	M27	19h 59'	+22° 43'	+7.6	Planetary Nebula	
Vulpecula	NGC6940	20h 34'	+28° 18'	+7.2	Open Cluster	