

Observation Plan for the month of May 2019

Moon

New	1st Quarter	Full Moon	Last Quarter
4/5/19	12/5/19	18/5/19	26/5/19

Planets

Planet	Magnitude	Comments
Mercury	-1.4	Setting later and later during the month – at about 22:00 by end of May
Venus	-3.9	Rising at about 04:30.
Mars	+1.7	Setting at about midnight.
Jupiter	-2.5	Rising at about 23:00.
Saturn	+0.4	Rising at about 01:00
Uranus	N/A	Hidden by the Sun this month
Neptune	+7.9	Rising at about 03:00

Comets

Name: West-Hartley (123P)	Magnitude	RA	Dec
5th of the month	+13.8	11h 06'	+21° 36'
15th of the month	+14.1	11h 12'	+19°04'
25th of the month	+14.4	11h 20'	+16° 30'

Meteor Showers

Name	Nominal start date	Nominal end date	Peak ZHR	Originating comet	Moon illumination at peak and comments
Eta Aquariid*	24 April	20 May	40	1P/Halley	40%

Deep Sky

Constellation	Object	RA	Dec	Mag	Type	Dates seen
Auriga	IC405	05h 17'	+34°17'		Nebula	
Auriga	IC417	05h 28'	+34° 26'	+8	Emission Nebula	
Auriga	M38	05h 29'	+35° 50'	+6.8	Open Cluster	
Auriga	NGC1931	05h 31'	+34° 15'	+10.1	Emission Nebula	
Auriga	M36	05h 36'	+34° 08'	+6.5	Open Cluster	
Auriga	M37	05h 52'	+32° 33'	+6.2	Open Cluster	
Auriga	IC2149	05h 58'	+46° 07'	+11.0	Planetary Nebula	
Boótes	NGC5466	14h 05'	+28° 32'	+9.2	Globular Cluster	
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	
Cancer	M44	08h 40'	+19° 59'	+3.9	Open Cluster	
Cancer	M67	08h 50'	+11° 49'	+7.3	Open Cluster	
Canes Venatici	NGC4111	12h 07'	+43° 04'	+10.7	Galaxy	
Canes Venatici	NGC4138	12h 09'	+43° 41'	+11.3	Galaxy	
Canes Venatici	NGC4145	12h 10'	+39° 53'	+11.3	Galaxy	
Canes Venatici	NGC4151	12h 11'	+39° 24'	+11.5	Galaxy	

Canes Venatici	NGC4214	12h 16'	+36° 20'	+10.2	Galaxy	
Canes Venatici	NGC4220	12h 16'	+47° 53'	+11.3	Galaxy	
Canes Venatici	NGC4244	12h 17'	+37° 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'	+41° 39'	+9.8	Galaxy	
Canes Venatici	NGC4631	12h 42'	+32° 32'	+9.8	Galaxy	
Canes Venatici	NGC4656	12h 44'	+32° 10'	+11.0	Galaxy	
Canes Venatici	M94	12h 50'	+41° 07'	+8.8	Galaxy	
Canes Venatici	NGC5005	13h 11'	+37° 04'	+10.6	Galaxy	
Canes Venatici	NGC5033	13h 13'	+36° 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'	+47° 16'	+9.6	Galaxy	
Canes Venatici	M3	13h 42'	+28° 23'	+6.3	Globular Cluster	
Canes Venatici	NGC5377	13h 56'	+47° 14'	+11.3	Galaxy	
Canes Venatici	NGC5383	13h 57'	+41° 51'	+11.5	Galaxy	
Canes Venatici	NGC5273	35h 42'	+35° 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'	+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	

Coma Berenices	NGC4147	12h 10'	+18° 33'	+10.3	Globular Cluster	
Coma Berenices	M98	12h 14'	+14° 24'	+10.9	Galaxy	
Coma Berenices	M99	12h 19'	+14° 55'	+10.4	Galaxy	
Coma Berenices	NGC4293	12h 21'	+18° 23'	+10.4	Galaxy	
Coma Berenices	M100	12h 23'	+15° 49'	+10.1	Galaxy	
Coma Berenices	M85	12h 25'	+18° 11'	+9.2	Galaxy	
Coma Berenices	NGC4414	12h 26'	+31° 13'	+10.1	Galaxy	
Coma Berenices	NGC4450	12h 29'	+17° 05'	+10.1	Galaxy	
Coma Berenices	NGC4473	12h 30'	+13° 26'	+10.2	Galaxy	
Coma Berenices	NGC4477&4459	12h 30'	+13° 38'	+10.4	Galaxy	
Coma Berenices	M88	12h 32'	+14° 25'	+10.3	Galaxy	
Coma Berenices	M91	12h 35'	+14° 30'	+10.9	Galaxy	
Coma Berenices	NGC4559	12h 36'	+27° 57'	+10.5	Galaxy	
Coma Berenices	NGC4565	12h 36'	+25° 59'	+10.6	Galaxy	
Coma Berenices	M64	12h 57'	+21° 41'	+9.3	Galaxy	
Coma Berenices	M53	13h 13'	+18° 10'	+7.7	Globular Cluster	
Draco	NGC5907	15h 15'	+56° 19'	+11.1	Galaxy	
Draco	NGC6543	17h 58'	+66° 37'	+8.8	Planetary Nebula	
Gemini	NGC2158	06h 07'	+24° 05'	+12.1	Open Cluster	
Gemini	M35	06h 09'	+24° 20'	+5.6	Open Cluster	
Gemini	IC443	06h 17'	+22° 31'	+12.0	Supernova remnant	
Gemini	NGC2371/2	07h 25'	+29° 29'	+13.0	Planetary Nebula	
Gemini	Abell21	07h 29'	+13° 15'	+16.0	Planetary Nebula	
Gemini	NGC2392	07h 29'	+20° 54'	+9.9	Planetary Nebula	
Hydra	NGC3242	10h 25'	+18° 38'	+8.6	Planetary Nebula	
Lacerta	NGC7209	22h 05'	+46° 29'	+7.8	Open Cluster	
Leo	NGC2903	09h 32'	+21° 30'	+9.6	Galaxy	

Leo	NGC3226	10h 23'	+19° 54'	+11.4	Galaxy	
Leo	NGC3227	10h 24'	+19° 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'	+36° 37'	+11.2	Galaxy	
Lynx	NGC2332	07h 10'	+50° 11'	+12.8	Galaxy	
Lynx	NGC2340	07h 11'	+50° 10'	+11.70	Galaxy	
Lynx	NGC2419	07h 38'	+38° 52'	+10.3	Globular Cluster	
Lynx	NGC2683	08h 53'	+33° 25'	+10.6	Galaxy	
Lynx	NGC2782	09h 14'	+40° 07'	+11.60	Galaxy	
Lynx	NGC2832	09h 20'	+33° 45'	+11.90	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	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	
Sextans	NGC3115	10h 05'	-07° 44'	+10.1	Galaxy	
Sextans	NGC3169	10h 14'	+03° 28'	+10.2	Galaxy	
Sextans	NGC3166	10h 14'	+03° 26'	+10.4	Galaxy	
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	
Virgo	M84	12h 25'	+12° 53'	+10.1	Galaxy	
Virgo	M84	12h 25'	+12° 53'	+10.1	Galaxy	
Virgo	NGC4378	12h 25'	+04° 55'	+12.3	Galaxy	
Virgo	NGC4388	12h 26'	+12° 40'	+11.0	Galaxy	
Virgo	M86	12h 26'	+12° 57'	+8.9	Galaxy	
Virgo	M84	12h 26'	+12° 47'	+9.3	Galaxy	
Virgo	NGC4438&4435	12h 28'	+13° 01'	+10.0	Galaxy	
Virgo	NGC4438	12h 28'	+13° 01'	+10.2	Galaxy	
Virgo	3C 273	12h 29'	+02° 03'	+11.7- 13.2	Quasar	

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