

Observation Plan for the month of December 2017

Moon

New	1st Quarter	Full Moon	Last Quarter
18/12/17	26/12/17	3/12/17	10/12/17

Planets

Planet	Magnitude	Comments
Mercury	-0.1	Rising at about 7am towards the end of the month
Venus	-3.8	Rising just before sunrise
Mars	+1.6	Rising at about 03:30
Jupiter	-1.6	Rising at about 04:30
Saturn	N/a	Nor visible this month
Uranus	+5.7	Setting at about 02:30
Neptune	+7.9	Setting at about 22:30

Comets

Name:ASASSN (C/2017 01)	Magnitude	RA	Dec
5th of the month	+13.2	01H 27'	+86° 43'
15th of the month	+13.5	23H 45'	+86° 26'
25th of the month	+13.9	23H 41'	+85° 54'

Name: PANSTARRS)C/2016 R2)	Magnitude	RA	Dec
5th of the month	+13.5	04H 58'	+6° 51'
15th of the month	+13.4	04H 45'	+9° 28'
25th of the month	+13.3	04h 32'	+12° 20'

Name: Heinze (C/2017 T1)	Magnitude	RA	Dec
5th of the month			
15th of the month			
25th of the month	+11.5	8H 31'	+20° 25'

Meteor Showers

Name	Nominal start date	Nominal end date	Peak ZHR	Originating comet	Moon illumination at peak and comments
Geminid	8/12/2017	17/12/2017	100+	3200 Phaethon	11%

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	
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	
Cetus	NGC246	00h 47'	-11° 52'	+8	Planetary Nebula	
Cetus	NGC936	02h 28'	-01° 09'	+10.2	Galaxy	
Cetus	M77	02h 43'	-00° 01'	+9.5	Galaxy	
Eridanus	NGC1084	02h 47'	-07° 31'	+10.6	Galaxy	
Eridanus	NGC1535	04h 15'	-12° 41'	+10.0	Planetary Nebula	
Eridanus	NGC1637	04h 42'	-02° 49'	+11.5	Galaxy	
Eridanus	IC2118	05h 08'	-07° 12'	+13.0	Nebula	
Lepus	Abell7	05h 03'	-15° 36'	+12.2	Planetary Nebula	
Lepus	M79	05h 25'	-24° 32'	+8.0	Globular Cluster	
Lepus	IC418	05h 28'	-12° 41'	+11.0	Planetary Nebula	
Orion	NGC1662	04h 48'	+10° 56'	+8.0	Open Cluster	
Orion	Jonckheere 320	05h 06'	+10° 42'	+11.8	Planetary Nebula	
Orion	NGC1788	05h 07'	-03° 21'		Reflection	

					Nebula	
Orion	NGC1994	05h 28'	-05° 19'	+13.3	Galaxy	
Orion	Abell10	05h 32'	+06° 56'	+15.2	Planetary Nebula	
Orion	M42	05h 35'	-05° 27'	+4.0	Diffuse Nebula	
Orion	NGC1981	05h 35'	-04° 24'	+4.2	Open Cluster	
Orion	M43	05h 36'	-05° 16'	+9.0	Diffuse Nebula	
Orion	NGC1999	05h 36'	-06° 43'	+9.5	Planetary Nebula	
Orion	Barnard 33	05h 41'	-02° 27'	H/head	Dark nebula	
Orion	NGC2022	05h 42'	+09° 05'	+12.4	Planetary Nebula	
Orion	NGC2024	05h 42'	-01° 51'	Flame Neb	Emission Nebula	
Orion	M78	05h 47'	+00° 05'	+8.0	Reflection Nebula	
Orion	NGC2112	05h 54'	+00° 25'	+9.0	Emission Nebula	
Orion	NGC2169	06h 08'	+13° 57'	+7.0	Open Cluster	
Pegasus	M15	21h 30'	+12° 10'	+6.4	Globular Cluster	
Pegasus	NGC7094	21h 37'	+12° 47'	+13.4	Planetary Nebula	
Pisces	NGC507	01h 23'	+33° 15'	+11.2	Galaxy	
Pisces	M74	01h 37'	+15° 47'	+10.0	Galaxy	
Taurus	M45	03h 47'	+24° 07'	+1.2	Open Cluster	
Taurus	NGC1514	04h 09'	+30° 47'	+10.0	Planetary Nebula	
Taurus	Hyades	04h 26'	+15° 51'	+0.8	Open Cluster	
Taurus	NGC1647	04h 46'	+19° 07'	+6.2	Open Cluster	
Taurus	NGC1746	05h 03'	+23° 49'	+6.1	Open Cluster	

Taurus	M1	05h 34'	+22° 01'	+8.4	Supernova remnant	
Triangulum	M33	01h 34'	+30° 39'	+5.7	Galaxy	
Triangulum	NGC672	01h 47'	+27° 25'	+11.6	Galaxy	
Triangulum	IC1727	01h 47'	+27° 20'	11.4	Galaxy	
Triangulum	NGC925	02h 27'	+33° 34'	+10.9	Galaxy	