

Messier Mid-summer Observing List, evening of 2019 Jul 27 at DARK SITE

Sunset 08:23p, Twilight ends 09:51p, Twilight begins 05:13a, Sunrise 06:42a, Moon rise 03:09a, Moon set 04:16p

Completely dark from 09:51p to 03:09a. Waning Crescent Moon. All times local (CDT).

Listing All Classes visible above 2 air mass or near maximum altitude

Primary ID	Alternate ID	Mag	SBr	Rise	Transit	Set	Begin	Optimum	End	PSA	Difficulty	Optimum EP
M 83	NGC 5236	7.8	21.6	01:54p	06:42p	11:31p	09:29p	09:37p	09:51p	46	challenging	NexStar Plossl 40mm
M 5	NGC 5904	5.7		02:16p	08:23p	02:31a	09:31p	09:53p	11:38p	55	detectable	Scientific 14mm/2.0
M 80	NGC 6093	7.3		04:14p	09:22p	02:30a	09:29p	09:55p	11:24p	57	detectable	NexStar Plossl 40mm
M 4	NGC 6121	5.4		04:30p	09:29p	02:27a	09:32p	09:56p	11:00p	57	detectable	Scientific 14mm/2.0
M 102	NGC 5866	10.7	21.9	10:13a	08:11p	06:05a	09:35p	09:57p	11:48p	53	difficult	NexStar Plossl 40mm
M 107	NGC 6171	7.8		04:04p	09:37p	03:10a	09:34p	09:59p	11:37p	56	difficult	NexStar Plossl 40mm
M 12	NGC 6218	6.1		03:53p	09:52p	03:50a	09:29p	10:04p	12:52a	56	easy	Panoptic 22mm 2.0x
Keystone Cluster	M 13	5.8		02:04p	09:46p	05:28a	09:30p	10:05p	01:37a	52	easy	Panoptic 22mm 2.0x
M 10	NGC 6254	6.6		04:08p	10:02p	03:56a	09:31p	10:08p	12:33a	56	detectable	Panoptic 22mm 2.0x
M 62	NGC 6266	6.4		05:18p	10:06p	02:54a	09:30p	10:08p	10:43p	58	detectable	Nagler Type 5 16mm 2.0x
M 19	NGC 6273	6.8		05:08p	10:07p	03:07a	09:33p	10:10p	11:42p	56	difficult	Pentax XW 10mm
M 92	NGC 6341	6.5		02:09p	10:21p	06:34a	09:31p	10:22p	02:14a	52	detectable	Panoptic 22mm 2.0x
M 9	NGC 6333	7.8		05:04p	10:24p	03:44a	09:34p	10:24p	12:16a	56	difficult	NexStar Plossl 40mm
M 14	NGC 6402	7.6		04:46p	10:42p	04:38a	09:32p	10:42p	01:15a	56	detectable	NexStar Plossl 40mm
Butterfly Cluster	M 6	4.6		06:04p	10:45p	03:26a	09:27p	10:45p	01:05a	58	easy	Nagler Type 5 16mm 2.0x
M 7	NGC 6475	3.3		06:26p	10:59p	03:31a	09:31p	10:58p	12:54a	58	detectable	NexStar Plossl 40mm

