

Messier opnameplanner — Bortle 4–5

Setup: Askar 120APO f/7 + ToupTek ATR2600C AR • uitgangspunt: Bortle 4–5 • locatieberekening: ~52,1° N

Messier	Object	Type	Max hoogte (°)	Beste periode	Filter	Tijd	Uren	Aantal
M1	Krabnevel	Supernovarestant	59,9	nov–jan	SV220	240	6,0	90
M2	M2	Bolhoop	37,1	jul–sep	Baader UV/IR	75	2,0	96
M3	M3	Bolhoop	66,3	mrt–mei	Baader UV/IR	75	2,0	96
M4	M4	Bolhoop	11,4	apr–jun	Baader UV/IR	75	1,5	72
M5	M5	Bolhoop	40,0	apr–jun	Baader UV/IR	75	2,0	96
M6	Butterfly Cluster	Open cluster	5,7	mei–jul	Baader UV/IR	45	1,0	80
M7	Ptolemy Cluster	Open cluster	3,1	mei–jul	Baader UV/IR	45	1,0	80
M8	Lagoonnevel	Emissienevel	13,5	mei–jul	SV220	240	4,0	60
M9	M9	Bolhoop	19,4	mei–jul	Baader UV/IR	75	2,0	96
M10	M10	Bolhoop	33,8	apr–jun	Baader UV/IR	75	2,0	96
M11	Wild Duck Cluster	Open cluster	31,6	mei–jul	Baader UV/IR	60	1,5	90
M12	M12	Bolhoop	35,9	apr–jun	Baader UV/IR	75	2,0	96
M13	Herculesbolhoop	Bolhoop	74,4	apr–jun	Baader UV/IR	60	2,0	120
M14	M14	Bolhoop	34,6	mei–jul	Baader UV/IR	75	2,0	96
M15	M15	Bolhoop	50,1	jul–sep	Baader UV/IR	75	2,0	96
M16	Adelaarsnevel	Emissienevel	24,1	mei–jul	SV220	240	5,0	75
M17	Omeganevel	Emissienevel	21,7	mei–jul	SV220	240	4,0	60
M18	M18	Open cluster	20,8	mei–jul	Baader UV/IR	60	1,0	60
M19	M19	Bolhoop	11,6	mei–jul	Baader UV/IR	75	2,0	96
M20	Trifidnevel	Emissie + reflectie	14,9	mei–jul	Baader UV/IR + SV220	240	6,0	90
M21	M21	Open cluster	15,4	mei–jul	Baader UV/IR	60	1,0	60
M22	M22	Bolhoop	14,0	mei–jul	Baader UV/IR	60	1,5	90
M23	M23	Open cluster	18,9	mei–jul	Baader UV/IR	60	1,0	60
M24	Sagittarius Star Clou	Sterrenveld	19,5	mei–jul	Baader UV/IR	60	1,5	90
M25	M25	Open cluster	18,7	mei–jul	Baader UV/IR	60	1,0	60
M26	M26	Open cluster	28,5	mei–jul	Baader UV/IR	60	1,0	60
M27	Halternevel	Planetaire nevel	60,6	jun–aug	SV220	240	4,0	60
M28	M28	Bolhoop	13,0	mei–jul	Baader UV/IR	75	1,5	72
M29	M29	Open cluster	76,4	jun–aug	Baader UV/IR	60	1,0	60

M30	M30	Bolhoop	14,7	jul-sep	Baader UV/IR	75	2,0	96
M31	Andromedastelsel	Galaxy	79,2	aug-okt	Baader UV/IR	90	6,0	240
M32	M32	Galaxy	78,8	aug-okt	Baader UV/IR	90	3,0	120
M33	Driehoekstelsel	Galaxy	68,5	sep-nov	Baader UV/IR	150	8,0	192
M34	M34	Open cluster	80,7	sep-nov	Baader UV/IR	60	1,0	60
M35	M35	Open cluster	62,2	nov-jan	Baader UV/IR	60	1,0	60
M36	M36	Open cluster	72,0	nov-jan	Baader UV/IR	60	1,0	60
M37	M37	Open cluster	70,4	nov-jan	Baader UV/IR	60	1,5	90
M38	M38	Open cluster	73,7	nov-jan	Baader UV/IR	60	1,0	60
M39	M39	Open cluster	86,3	jul-sep	Baader UV/IR	60	1,0	60
M40	Winnecke 4	Dubbelster	84,0	feb-apr	Baader UV/IR	20	0,5	90
M41	M41	Open cluster	17,2	nov-jan	Baader UV/IR	60	1,0	60
M42	Orionnevel	Emissienevel	32,4	nov-jan	SV220 + Baader UV/IR (HDR)	120	5,0	150
M43	De Mairan's Nebula	Emissienevel	32,6	nov-jan	SV220	240	4,0	60
M44	Praesepe / Beehive	Open cluster	57,9	dec-feb	Baader UV/IR	45	1,0	80
M45	Plejaden	Reflectienevel / open	62,0	okt-dec	Baader UV/IR	150	7,0	168
M46	M46	Open cluster	23,1	dec-feb	Baader UV/IR	60	1,5	90
M47	M47	Open cluster	23,4	dec-feb	Baader UV/IR	60	1,0	60
M48	M48	Open cluster	32,1	dec-feb	Baader UV/IR	60	1,0	60
M49	M49	Galaxy	45,9	feb-apr	Baader UV/IR	150	5,0	120
M50	M50	Open cluster	29,6	dec-feb	Baader UV/IR	60	1,0	60
M51	Whirlpool Galaxy	Galaxy	85,1	mrt-mei	Baader UV/IR	150	6,0	144
M52	M52	Open cluster	80,5	aug-okt	Baader UV/IR	60	1,5	90
M53	M53	Bolhoop	56,1	mrt-mei	Baader UV/IR	75	2,0	96
M54	M54	Bolhoop	7,4	mei-jul	Baader UV/IR	75	2,0	96
M55	M55	Bolhoop	6,9	jun-aug	Baader UV/IR	75	2,0	96
M56	M56	Bolhoop	68,1	jun-aug	Baader UV/IR	75	2,0	96
M57	Ringnevel	Planetaire nevel	70,9	mei-jul	SV220	240	4,0	60
M58	M58	Galaxy	49,7	feb-apr	Baader UV/IR	150	5,0	120
M59	M59	Galaxy	49,5	feb-apr	Baader UV/IR	150	4,0	96
M60	M60	Galaxy	49,5	feb-apr	Baader UV/IR	150	4,0	96
M61	M61	Galaxy	42,4	feb-apr	Baader UV/IR	150	6,0	144
M62	M62	Bolhoop	7,8	mei-jul	Baader UV/IR	75	1,5	72
M63	Sunflower Galaxy	Galaxy	79,9	mrt-mei	Baader UV/IR	150	6,0	144
M64	Black Eye Galaxy	Galaxy	59,6	feb-apr	Baader UV/IR	150	5,0	120

M65	M65	Galaxy	51,0	feb–apr	Baader UV/IR	150	5,0	120
M66	M66	Galaxy	50,9	feb–apr	Baader UV/IR	150	5,0	120
M67	M67	Open cluster	49,7	dec–feb	Baader UV/IR	60	1,0	60
M68	M68	Bolhoop	11,2	feb–apr	Baader UV/IR	75	2,0	96
M69	M69	Bolhoop	5,5	mei–jul	Baader UV/IR	75	2,0	96
M70	M70	Bolhoop	5,6	mei–jul	Baader UV/IR	75	2,0	96
M71	M71	Bolhoop	56,7	jun–aug	Baader UV/IR	75	2,0	96
M72	M72	Bolhoop	25,4	jun–aug	Baader UV/IR	75	2,0	96
M73	M73	Asterisme	25,3	jun–aug	Baader UV/IR	60	1,0	60
M74	Phantom Galaxy	Galaxy	53,7	sep–nov	Baader UV/IR	150	9,0	216
M75	M75	Bolhoop	16,0	jun–aug	Baader UV/IR	75	2,0	96
M76	Little Dumbbell	Planetaire nevel	89,5	sep–nov	SV220	240	5,0	75
M77	Cetus A	Galaxy	37,9	sep–nov	Baader UV/IR	150	5,0	120
M78	M78	Reflectienevel	37,9	nov–jan	Baader UV/IR	150	7,0	168
M79	M79	Bolhoop	13,3	nov–jan	Baader UV/IR	75	2,0	96
M80	M80	Bolhoop	14,9	apr–jun	Baader UV/IR	75	2,0	96
M81	Bode's Galaxy	Galaxy	73,0	jan–mrt	Baader UV/IR	150	6,0	144
M82	Cigar Galaxy	Galaxy	72,4	jan–mrt	Baader UV/IR + SV220	150	7,0	168
M83	Southern Pinwheel	Galaxy	8,0	mrt–mei	Baader UV/IR	150	8,0	192
M84	M84	Galaxy	50,8	feb–apr	Baader UV/IR	150	4,0	96
M85	M85	Galaxy	56,1	feb–apr	Baader UV/IR	150	4,0	96
M86	M86	Galaxy	50,8	feb–apr	Baader UV/IR	150	4,0	96
M87	Virgo A	Galaxy	50,3	feb–apr	Baader UV/IR	150	4,0	96
M88	M88	Galaxy	52,3	feb–apr	Baader UV/IR	150	5,0	120
M89	M89	Galaxy	50,5	feb–apr	Baader UV/IR	150	4,0	96
M90	M90	Galaxy	51,1	feb–apr	Baader UV/IR	150	5,0	120
M91	M91	Galaxy	52,4	feb–apr	Baader UV/IR	150	6,0	144
M92	M92	Bolhoop	81,0	mei–jul	Baader UV/IR	75	2,0	96
M93	M93	Open cluster	14,0	dec–feb	Baader UV/IR	60	1,0	60
M94	M94	Galaxy	79,0	feb–apr	Baader UV/IR	150	4,0	96
M95	M95	Galaxy	49,6	jan–mrt	Baader UV/IR	150	5,0	120
M96	M96	Galaxy	49,7	jan–mrt	Baader UV/IR	150	5,0	120
M97	Uilnevel	Planetaire nevel	87,1	feb–apr	SV220	240	5,0	75
M98	M98	Galaxy	52,8	feb–apr	Baader UV/IR	150	6,0	144
M99	M99	Galaxy	52,3	feb–apr	Baader UV/IR	150	6,0	144

M100	M100	Galaxy	53,7	feb–apr	Baader UV/IR	150	6,0	144
M101	Pinwheel Galaxy	Galaxy	87,8	mrt–mei	Baader UV/IR	150	9,0	216
M102	Spindle Galaxy	Galaxy	86,3	apr–jun	Baader UV/IR	150	5,0	120
M103	M103	Open cluster	81,4	sep–nov	Baader UV/IR	60	1,0	60
M104	Sombrero stelsel	Galaxy	26,3	feb–apr	Baader UV/IR	150	5,0	120
M105	M105	Galaxy	50,5	jan–mrt	Baader UV/IR	150	4,0	96
M106	M106	Galaxy	85,2	feb–apr	Baader UV/IR	150	7,0	168
M107	M107	Bolhoop	24,8	apr–jun	Baader UV/IR	75	2,0	96
M108	Surfboard Galaxy	Galaxy	86,4	feb–apr	Baader UV/IR	150	6,0	144
M109	M109	Galaxy	88,7	feb–apr	Baader UV/IR	150	6,0	144
M110	M110	Galaxy	79,6	aug–okt	Baader UV/IR	150	5,0	120