



# Moon Finder List



  
**Backyard  
Stargazers**

# Lunar 100 Finder List - Sorted 1-100

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#	Name	Description	Lat. (°)	Long. (°)	Diam.(km)	Rükl Chart	Waxing Phase Name	Waxing Phase Days	Waning Phase Name	Waning Phase Days
1	Moon	Large satellite	—	—	3,476	—	All, except New Moon	1-28	—	—
2	Earthshine	Twice reflected sunlight	—	—	—	—	Early Waxing Crescent	1-3	Late Waning Crescent	26-29
3	Mare/highland dichotomy	Two materials with distinct compositions	—	—	—	—	All, except New Moon	1-28	—	—
4	Apennines	Imbrium basin rim	18.9N	3.7W	70	22	First Quarter	7	Last Quarter	22
5	Copernicus	Archetypal large complex crater	9.7N	20.1W	93	31	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
6	Tycho	Large rayed crater with impact melts	43.4S	11.1W	85	64	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
7	Altai Scarp	Nectaris basin rim	24.3S	22.6E	425	57	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
8	Theophilus, Cyrillus, Catharina	Crater sequence illustrating stages of degradation	13.2S	24.0E	—	46, 57	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
9	Clavius	Lacks basin features in spite of its size	58.8S	14.1W	225	72	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
10	Mare Crisium	Mare contained in large circular basin	18.0N	59.0E	540	26, 27, 37, 38	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
11	Aristarchus	Very bright crater with dark bands on its walls	23.7N	47.4W	40	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
12	Proclus	Oblique-impact rays	16.1N	46.8E	28	26	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
13	Gassendi	Floor-fractured crater	17.6S	40.1W	101	52	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
14	Sinus Iridum	Very large crater with missing rim	45.0N	32.0W	260	10	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
15	Straight Wall	Best example of a lunar fault	21.8S	7.8W	110	54	First Quarter	7	Last Quarter	22
16	Petavius	Crater with domed & fractured floor	25.1S	60.4E	177	59	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
17	Schröter's Valley	Giant sinuous rille	26.2N	50.8W	168	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
18	Mare Serenitatis dark edges	Distinct mare areas with different compositions	17.8N	23.0E	N/A	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
19	Alpine Valley	Lunar graben	49.0N	3.0E	165	4	First Quarter	7	Last Quarter	22
20	Posidonius	Floor-fractured crater	31.8N	29.9E	95	14	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
21	Fracastorius	Crater with subsided & fractured floor	21.5S	33.2E	124	58	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
22	Aristarchus Plateau	Mysterious uplifted region mantled with pyroclastics	26.0N	51.0W	150	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
23	Pico	Isolated Imbrium basin-ring fragment	45.7N	8.9W	25	11	First Quarter	7	Last Quarter	22
24	Hyginus Rille	Rille containing rimless collapse pits	7.4N	7.8E	220	34	First Quarter	7	Last Quarter	22
25	Messier & Messier A	Oblique ricochet-impact pair	1.9S	47.6E	11	48	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
26	Mare Frigoris	Arcuate mare of uncertain origin	56.0N	1.4E	1600	2-6	First Quarter	7	Last Quarter	22
27	Archimedes	Large crater lacking central peak	29.7N	4.0W	83	12, 22	First Quarter	7	Last Quarter	22
28	Hipparchus	First drawing of a single crater	5.5S	4.8E	150	44, 45	First Quarter	7	Last Quarter	22
29	Aridaeus Rille	Long, linear graben	6.4N	14.0E	250	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
30	Schiller	Possible oblique impact	51.9S	39.0W	180	71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
31	Taruntius	Young floor-fractured crater	5.6N	46.5E	56	37	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
32	Arago Alpha & Beta	Volcanic domes	6.2N	21.4E	26	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
33	Serpentine Ridge	Basin inner-ring segment	27.3N	25.3E	155	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
34	Lacus Mortis	Strange crater with rille & ridge	45.0N	27.2E	152	14	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
35	Triesnecker Rilles	Rille family	4.3N	4.6E	215	33	First Quarter	7	Last Quarter	22
36	Grimaldi basin	A small two-ring basin	5.5S	68.3W	440	39	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
37	Bailly	Barely discernible basin	66.5S	69.1W	303	71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
38	Sabine & Ritter	Possible twin impacts	1.7N	19.7E	30	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
39	Schickard	Crater floor with Orientale basin ejecta stripe	44.3S	55.3W	227	62	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
40	Janssen Rille	Rare example of a highland rille	45.4S	39.3E	190	67, 68	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21



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41	Bessel ray	Ray of uncertain origin near Bessel	21.8N	17.9E	N/A	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
42	Marius Hills	Complex of volcanic domes & hills	12.5N	54.0W	125	28, 29	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
43	Wargentín	A crater filled to the rim with lava or ejecta	49.6S	60.2W	84	70	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
44	Mersenius	Domed floor cut by secondary craters	21.5S	49.2W	84	51	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
45	Maurolycus	Region of saturation cratering	42.0S	14.0E	114	66	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
46	Regiomontanus central peak	Possible volcanic peak	28.0S	0.6W	124	55	First Quarter	7	Last Quarter	22
47	Alphonsus dark spots	Dark-halo eruptions on crater floor	13.7S	3.2W	119	44	First Quarter	7	Last Quarter	22
48	Cauchy region	Fault, rilles, & domes	10.5N	38.0E	130	36	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
49	Gruithuisen Delta & Gamma	Volcanic domes formed with viscous lavas	36.3N	40.0W	20	9	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
50	Cayley Plains	Light, smooth plains of uncertain origin	4.0N	15.1E	14	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
51	Davy crater chain	Result of comet-fragment impacts	11.1S	6.6W	50	43	First Quarter	7	Last Quarter	22
52	Crüger	Possible volcanic caldera	16.7S	66.8W	45	50	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
53	Lamont	Possible buried basin	4.4N	23.7E	106	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
54	Hippalus Rilles	Rilles concentric to Humorom basin	24.5S	29.0W	240	52, 53	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
55	Baco	Unusually smooth crater floor & surrounding plains	51.0S	19.1E	69	74	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
56	Australe basin	A partially flooded ancient basin	49.8S	84.5E	880	76	New Moon	0-2	—	—
57	Reiner Gamma	Conspicuous swirl & magnetic anomaly	7.7N	59.2W	70	28	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
58	Rheita Valley	Basin secondary-crater chain	42.5S	51.5E	445	68	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
59	Schiller-Zucchi basin	Badly degraded overlooked basin	56.0S	45.0W	335	70, 71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
60	Kies Pi	Volcanic dome	26.9S	24.2W	45	53	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
61	Mösting A	Simple crater close to center of lunar near side	3.2S	5.2W	13	43	First Quarter	7	Last Quarter	22
62	Rümker	Large volcanic dome	40.8N	58.1W	70	8	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
63	Imbrium sculpture	Basin ejecta near & overlying Boscovich & Julius Caesar	11.0N	12.0E	—	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
64	Descartes	Apollo 16 landing site; putative region of highland volcanism	11.7S	15.7E	48	45	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
65	Hortensius domes	Dome field north of Hortensius	7.6N	27.9W	10	30	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
66	Hadley Rille	Lava channel near Apollo 15 landing site	25.0N	3.0E	—	22	First Quarter	7	Last Quarter	22
67	Fra Mauro formation	Apollo 14 landing site on Imbrium ejecta	3.6S	17.5W	—	42	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
68	Flamsteed P	Proposed young volcanic crater & Surveyor 1 landing site	3.0S	44.0W	112	40	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
69	Copernicus secondary craters	Rays & craterlets near Pytheas	19.6N	19.1W	4	20	Early Waxing Gibbous	8-11	Early Waning Crescent	23-26
70	Humboldtianum basin	Multi-ring impact basin	57.0N	80.0E	650	7	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
71	Sulpicius Gallus dark mantle	Ash eruptions northwest of crater	19.6N	11.6E	12	23	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
72	Atlas dark-halo craters	Explosive volcanic pits on the floor of Atlas	46.7N	44.4E	87	15	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
73	Smythii basin	Difficult-to-observe basin scarp & mare	2.0S	87.0E	740	38, 49	New Moon	0-2	—	—
74	Copernicus H	Dark-halo impact crater	6.9N	18.3W	5	31	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
75	Ptolemaeus B	Saucer like depression on the floor of Ptolemaeus	8.0S	0.8W	16	44	First Quarter	7	Last Quarter	22
76	W. Bond	Large crater degraded by Imbrium ejecta	65.3N	3.7E	158	4	First Quarter	7	Last Quarter	22
77	Sirsalis Rille	Procellarum basin radial rilles	15.7S	61.7W	425	39, 50	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
78	Lambert R	A buried "ghost" crater	23.8N	20.6W	54	20	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
79	Sinus Aestuum	Eastern dark-mantle volcanic deposit	12.0N	3.5W	90	33	First Quarter	7	Last Quarter	22
80	Oriente basin	Youngest large impact basin	19.0S	95.0W	930	50	Libration	—	Libration	—



#	Name	Description	Lat. (°)	Long. (°)	Diam.(km)	Rükl Chart	Waxing Phase Name	Waxing Phase Days	Waning Phase Name	Waning Phase Days
81	Hesiodus A	Concentric crater	30.1S	17.0W	15	54	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
82	Linn	Small crater once thought to have disappeared	27.7N	11.8E	2.4	23	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
83	Plato craterlets	Crater pits at limits of detection	51.6N	9.4W	101	3, 4	First Quarter	7	Last Quarter	22
84	Pitatus	Crater with concentric rilles	29.8S	13.5W	97	54	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
85	Langrenus rays	Aged ray system	8.9S	60.9E	132	49	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
86	Prinz Rilles	Rille system near the crater Prinz	27.0N	43.0W	46	19	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
87	Humboldt	Crater with central peaks & dark spots	27.0S	80.9E	207	60	New Moon	0-2	—	—
88	Peary	Difficult-to-observe polar crater	88.6N	33.0E	74	4, II	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
89	Valentine Dome	Volcanic dome	30.5N	10.1E	30	13	First Quarter	7	Last Quarter	22
90	Armstrong, Aldrin & Collins	Small craters near the Apollo 11 landing site	1.3N	23.7E	3	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
91	De Gasparis Rilles	Area with many rilles	25.9S	50.7W	30	51	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
92	Gylden Valley	Part of the Imbrium radial sculpture	5.1S	0.7E	47	44	First Quarter	7	Last Quarter	22
93	Dionysius rays	Unusual & rare dark rays	2.8N	17.3E	18	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
94	Drygalski	Large south-pole region crater	79.3S	84.9W	162	72, VI	Full Moon	14/15	—	—
95	Procellarum basin	The Moon's biggest basin?	23.0N	15.0W	3200	—	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
96	Leibnitz Mountains	Rim of South Pole-Aitken basin	85.0S	30.0E	—	73, V	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
97	Inghirami Valley	Oriental basin ejecta	44.0S	73.0W	140	61	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
98	Imbrium lava flows	Mare lava-flow boundaries	32.8N	22.0W	—	10	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
99	Ina	D-shaped young volcanic caldera	18.6N	5.3E	3	22	First Quarter	7	Last Quarter	22
100	Mare Marginis swirls	Possible magnetic field deposits	18.5N	88.0E	—	27, III	New Moon	0-2	—	—

## Lunar 100 Finder List - Sorted by Phase

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#	Name	Description	Lat. (°)	Long. (°)	Diam.(km)	Rükl Chart	Waxing Phase Name	Waxing Phase Days	Waning Phase Name	Waning Phase Days
56	Australe basin	A partially flooded ancient basin	49.8S	84.5E	880	76	New Moon	0-2	—	—
73	Smythii basin	Difficult-to-observe basin scarp & mare	2.0S	87.0E	740	38, 49	New Moon	0-2	—	—
87	Humboldt	Crater with central peaks & dark spots	27.0S	80.9E	207	60	New Moon	0-2	—	—
100	Mare Marginis swirls	Possible magnetic field deposits	18.5N	88.0E	—	27, III	New Moon	0-2	—	—
1	Moon	Large satellite	—	—	3,476	—	All, except New Moon	1-28	—	—
3	Mare/highland dichotomy	Two materials with distinct compositions	—	—	—	—	All, except New Moon	1-28	—	—
2	Earthshine	Twice reflected sunlight	—	—	—	—	Early Waxing Crescent	1-3	Late Waning Crescent	26-29
10	Mare Crisium	Mare contained in large circular basin	18.0N	59.0E	540	26, 27, 37, 38	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
12	Proclus	Oblique-impact rays	16.1N	46.8E	28	26	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
16	Petavius	Crater with domed & fractured floor	25.1S	60.4E	177	59	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
25	Messier & Messier A	Oblique ricochet-impact pair	1.9S	47.6E	11	48	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
31	Taruntius	Young floor-fractured crater	5.6N	46.5E	56	37	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
58	Rheita Valley	Basin secondary-crater chain	42.5S	51.5E	445	68	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
70	Humboldtianum basin	Multi-ring impact basin	57.0N	80.0E	650	7	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
72	Atlas dark-halo craters	Explosive volcanic pits on the floor of Atlas	46.7N	44.4E	87	15	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18
85	Langrenus rays	Aged ray system	8.9S	60.9E	132	49	Early Waxing Crescent	1-3	Early Waning Gibbous	16-18



7	Altai Scarp	Nectaris basin rim	24.3S	22.6E	425	57	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
8	Theophilus, Cyrillus, Catharina	Crater sequence illustrating stages of degradation	13.2S	24.0E	—	46, 57	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
18	Mare Serenitatis dark edges	Distinct mare areas with different compositions	17.8N	23.0E	N/A	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
20	Posidonius	Floor-fractured crater	31.8N	29.9E	95	14	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
21	Fracastorius	Crater with subsided & fractured floor	21.5S	33.2E	124	58	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
29	Aridaeus Rille	Long, linear graben	6.4N	14.0E	250	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
32	Arago Alpha & Beta	Volcanic domes	6.2N	21.4E	26	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
33	Serpentine Ridge	Basin inner-ring segment	27.3N	25.3E	155	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
34	Lacus Mortis	Strange crater with rille & ridge	45.0N	27.2E	152	14	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
38	Sabine & Ritter	Possible twin impacts	1.7N	19.7E	30	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
40	Janssen Rille	Rare example of a highland rille	45.4S	39.3E	190	67, 68	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
41	Bessel ray	Ray of uncertain origin near Bessel	21.8N	17.9E	N/A	24	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
45	Maurolycus	Region of saturation cratering	42.0S	14.0E	114	66	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
48	Cauchy region	Fault, rilles, & domes	10.5N	38.0E	130	36	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
50	Cayley Plains	Light, smooth plains of uncertain origin	4.0N	15.1E	14	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
53	Lamont	Possible buried basin	4.4N	23.7E	106	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
55	Baco	Unusually smooth crater floor & surrounding plains	51.0S	19.1E	69	74	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
63	Imbrium sculpture	Basin ejecta near & overlying Boscovich & Julius Caesar	11.0N	12.0E	—	34	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
64	Descartes	Apollo 16 landing site; putative region of highland volcanism	11.7S	15.7E	48	45	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
71	Sulpicius Gallus dark mantle	Ash eruptions northwest of crater	19.6N	11.6E	12	23	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
82	Linn	Small crater once thought to have disappeared	27.7N	11.8E	2.4	23	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
88	Peary	Difficult-to-observe polar crater	88.6N	33.0E	74	4, II	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
90	Armstrong, Aldrin & Collins	Small craters near the Apollo 11 landing site	1.3N	23.7E	3	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
93	Dionysius rays	Unusual & rare dark rays	2.8N	17.3E	18	35	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
96	Leibnitz Mountains	Rim of South Pole-Aitken basin	85.0S	30.0E	—	73, V	Late Waxing Crescent	4-6	Late Waning Gibbous	19-21
4	Apennines	Imbrium basin rim	18.9N	3.7W	70	22	First Quarter	7	Last Quarter	22
15	Straight Wall	Best example of a lunar fault	21.8S	7.8W	110	54	First Quarter	7	Last Quarter	22
19	Alpine Valley	Lunar graben	49.0N	3.0E	165	4	First Quarter	7	Last Quarter	22
23	Pico	Isolated Imbrium basin-ring fragment	45.7N	8.9W	25	11	First Quarter	7	Last Quarter	22
24	Hyginus Rille	Rille containing rimless collapse pits	7.4N	7.8E	220	34	First Quarter	7	Last Quarter	22
26	Mare Frigoris	Arcuate mare of uncertain origin	56.0N	1.4E	1600	2-6	First Quarter	7	Last Quarter	22
27	Archimedes	Large crater lacking central peak	29.7N	4.0W	83	12, 22	First Quarter	7	Last Quarter	22
28	Hipparchus	First drawing of a single crater	5.5S	4.8E	150	44, 45	First Quarter	7	Last Quarter	22
35	Triesnecker Rilles	Rille family	4.3N	4.6E	215	33	First Quarter	7	Last Quarter	22
46	Regiomontanus central peak	Possible volcanic peak	28.0S	0.6W	124	55	First Quarter	7	Last Quarter	22
47	Alphonsus dark spots	Dark-halo eruptions on crater floor	13.7S	3.2W	119	44	First Quarter	7	Last Quarter	22
51	Davy crater chain	Result of comet-fragment impacts	11.1S	6.6W	50	43	First Quarter	7	Last Quarter	22
61	Mösting A	Simple crater close to center of lunar near side	3.2S	5.2W	13	43	First Quarter	7	Last Quarter	22
66	Hadley Rille	Lava channel near Apollo 15 landing site	25.0N	3.0E	—	22	First Quarter	7	Last Quarter	22
75	Ptolemaeus B	Saucer like depression on the floor of Ptolemaeus	8.0S	0.8W	16	44	First Quarter	7	Last Quarter	22
76	W. Bond	Large crater degraded by Imbrium ejecta	65.3N	3.7E	158	4	First Quarter	7	Last Quarter	22
79	Sinus Aestuum	Eastern dark-mantle volcanic deposit	12.0N	3.5W	90	33	First Quarter	7	Last Quarter	22
83	Plato craterlets	Crater pits at limits of detection	51.6N	9.4W	101	3, 4	First Quarter	7	Last Quarter	22
89	Valentine Dome	Volcanic dome	30.5N	10.1E	30	13	First Quarter	7	Last Quarter	22
92	Gylden Valley	Part of the Imbrium radial sculpture	5.1S	0.7E	47	44	First Quarter	7	Last Quarter	22
99	Ina	D-shaped young volcanic caldera	18.6N	5.3E	3	22	First Quarter	7	Last Quarter	22



9	Clavius	Lacks basin features in spite of its size	58.8S	14.1W	225	72	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
14	Sinus Iridum	Very large crater with missing rim	45.0N	32.0W	260	10	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
54	Hippalus Rilles	Rilles concentric to Humorum basin	24.5S	29.0W	240	52, 53	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
60	Kies Pi	Volcanic dome	26.9S	24.2W	45	53	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
65	Hortensius domes	Dome field north of Hortensius	7.6N	27.9W	10	30	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
67	Fra Mauro formation	Apollo 14 landing site on Imbrium ejecta	3.6S	17.5W	—	42	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
74	Copernicus H	Dark-halo impact crater	6.9N	18.3W	5	31	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
78	Lambert R	A buried "ghost" crater	23.8N	20.6W	54	20	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
81	Hesiodus A	Concentric crater	30.1S	17.0W	15	54	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
84	Pitatus	Crater with concentric rilles	29.8S	13.5W	97	54	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
95	Procellarum basin	The Moon's biggest basin?	23.0N	15.0W	3200	—	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
98	Imbrium lava flows	Mare lava-flow boundaries	32.8N	22.0W	—	10	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
5	Copernicus	Archetypal large complex crater	9.7N	20.1W	93	31	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
6	Tycho	Large rayed crater with impact melts	43.4S	11.1W	85	64	Early Waxing Gibbous	8-10	Early Waning Crescent	23-25
69	Copernicus secondary craters	Rays & craterlets near Pytheas	19.6N	19.1W	4	20	Early Waxing Gibbous	8-11	Early Waning Crescent	23-26
11	Aristarchus	Very bright crater with dark bands on its walls	23.7N	47.4W	40	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
13	Gassendi	Floor-fractured crater	17.6S	40.1W	101	52	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
17	Schröter's Valley	Giant sinuous rille	26.2N	50.8W	168	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
22	Aristarchus Plateau	Mysterious uplifted region mantled with pyroclastics	26.0N	51.0W	150	18	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
30	Schiller	Possible oblique impact	51.9S	39.0W	180	71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
36	Grimaldi basin	A small two-ring basin	5.5S	68.3W	440	39	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
37	Bailly	Barely discernible basin	66.5S	69.1W	303	71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
39	Schickard	Crater floor with Orientale basin ejecta stripe	44.3S	55.3W	227	62	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
42	Marius Hills	Complex of volcanic domes & hills	12.5N	54.0W	125	28, 29	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
43	Wargentini	A crater filled to the rim with lava or ejecta	49.6S	60.2W	84	70	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
44	Mersenius	Domed floor cut by secondary craters	21.5S	49.2W	84	51	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
49	Gruithuisen Delta & Gamma	Volcanic domes formed with viscous lavas	36.3N	40.0W	20	9	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
52	Crüger	Possible volcanic caldera	16.7S	66.8W	45	50	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
57	Reiner Gamma	Conspicuous swirl & magnetic anomaly	7.7N	59.2W	70	28	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
59	Schiller-Zucchi basin	Badly degraded overlooked basin	56.0S	45.0W	335	70, 71	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
62	Rümker	Large volcanic dome	40.8N	58.1W	70	8	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
68	Flamsteed P	Proposed young volcanic crater & Surveyor 1 landing site	3.0S	44.0W	112	40	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
77	Sirsalis Rille	Procellarum basin radial rilles	15.7S	61.7W	425	39, 50	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
86	Prinz Rilles	Rille system near the crater Prinz	27.0N	43.0W	46	19	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
91	De Gasparis Rilles	Area with many rilles	25.9S	50.7W	30	51	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
97	Inghirami Valley	Orientale basin ejecta	44.0S	73.0W	140	61	Late Waxing Gibbous	11-13	Late Waning Crescent	26-29
94	Drygalski	Large south-pole region crater	79.3S	84.9W	162	72, VI	Full Moon	14/15	—	—
80	Orientale basin	Youngest large impact basin	19.0S	95.0W	930	50	Libration	—	Libration	—

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