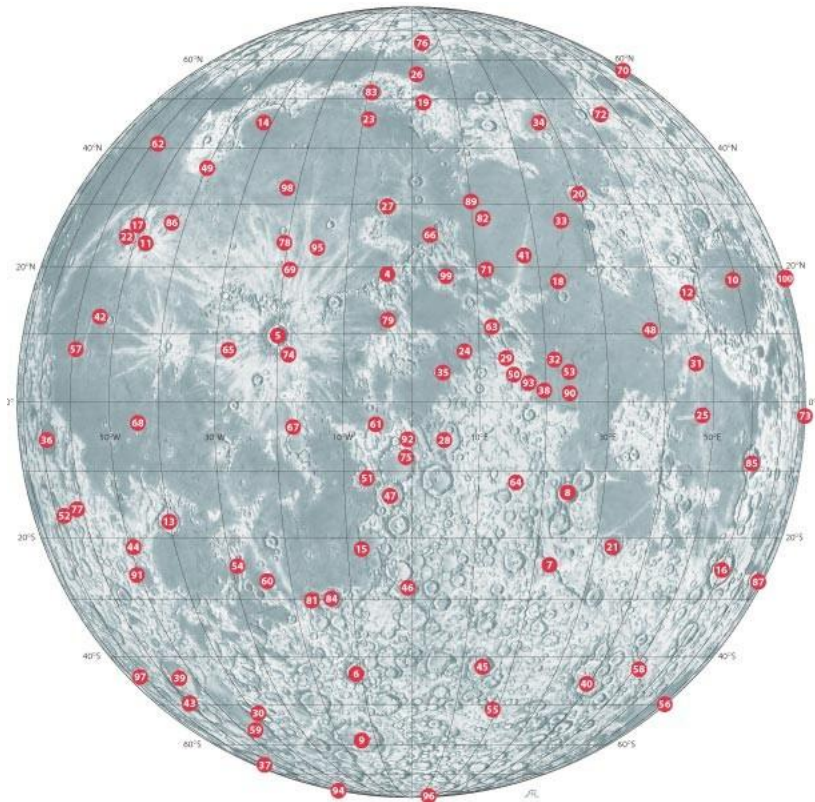




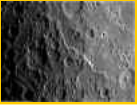












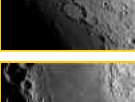
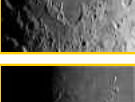





Lunar 100










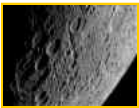

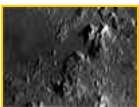
The "Lunar 100" was described by Sky & Telescope in their [April 2004 article](#) by Charles Wood. The objects are arranged in order from the easiest to the most difficult to view. The table below the map describes each object and has image links to the ones which I have observed.




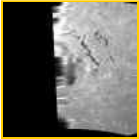




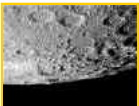


Click on the image thumbnails for the full size image. Full image details will be added to the table at a later date. Many of the pictures of the higher numbered items don't show the actual item just the general area! For other "Lunar 100" sites try [this list](#)



L	Image	Feature Name	Significance	Lat. (°)	Long. (°)	Diam. (km)	Rükl Chart	S&T Issue
1		Moon	Large satellite	—	—	3,476	—	
2		Earthshine	Twice reflected sunlight	—	—	—	—	May 2005
3		Mare/highland dichotomy	Two materials with distinct compositions	—	—	—	—	May 2005
4		Apennines	Imbrium basin rim	18.9N	3.7W	70	22	Feb 2005
5		Copernicus	Archetypal large complex crater	9.7N	20.1W	93	31	Jul 2004 Jan 2006
6		Tycho	Large rayed crater with impact melts	43.4S	11.1W	85	64	Jan 2006
7		Altai Scarp	Nectaris basin rim	24.3S	22.6E	425	57	Jun 2004
8		Theophilus, Cyrillus, Catharina	Crater sequence illustrating stages of degradation	13.2S	24.0E	—	46, 57	Oct 2004
9		Clavius	Lacks basin features in spite of its size	58.8S	14.1W	225	72	April 2005

10		Mare Crisium	Mare contained in large circular basin	18.0N	59.0E	540	26, 27, 37, 38	
11		Aristarchus	Very bright crater with dark bands on its walls	23.7N	47.4W	40	18	March 2005
12		Proclus	Oblique-impact rays	16.1N	46.8E	28	26	Dec 2004
13		Gassendi	Floor-fractured crater	17.6S	40.1W	101	52	
14		Sinus Iridum	Very large crater with missing rim	45.0N	32.0W	260	10	
15		Straight Wall	Best example of a lunar fault	21.8S	7.8W	110	54	Dec 2005
16		Petavius	Crater with domed & fractured floor	25.1S	60.4E	177	59	Dec 2004
17		Schröter's Valley	Giant sinuous rille	26.2N	50.8W	168	18	March 2005
18		Mare Serenitatis dark edges	Distinct mare areas with different compositions	17.8N	23.0E	N/A	24	
19		Alpine Valley	Lunar graben	49.0N	3.0E	165	4	
20		Posidonius	Floor-fractured crater	31.8N	29.9E	95	14	
21		Fracastorius	Crater with subsided & fractured floor	21.5S	33.2E	124	58	
22		Aristarchus Plateau	Mysterious uplifted region mantled with pyroclastics	26.0N	51.0W	150	18	March 2005
23		Pico	Isolated Imbrium basin-ring fragment	45.7N	8.9W	25	11	Feb 2005
24		Hyginus Rille	Rille containing rimless collapse pits	7.4N	7.8E	220	34	
25		Messier & Messier A	Oblique ricochet-impact pair	1.9S	47.6E	11	48	
26		Mare Frigoris	Arcuate mare of uncertain origin	56.0N	1.4E	1600	2–6	Sep 2005
27		Archimedes	Large crater lacking central peak	29.7N	4.0W	83	12, 22	Nov 2004
28		Hipparchus	First drawing of a single crater	5.5S	4.8E	150	44, 45	
29		Aridaeus Rille	Long, linear graben	6.4N	14.0E	250	34	
30		Schiller	Possible oblique impact	51.9S	39.0W	180	71	
31		Taruntius	Young floor-fractured crater	5.6N	46.5E	56	37	
32		Arago Alpha & Beta	Volcanic domes	6.2N	21.4E	26	35	
33		Serpentine Ridge	Basin inner-ring segment	27.3N	25.3E	155	24	
34		Lacus Mortis	Strange crater with rille & ridge	45.0N	27.2E	152	14	

									
35		Triesnecker Rilles	Rille family	4.3N	4.6E	215	33		
36		Grimaldi basin	A small two-ring basin	5.5S	68.3W	440	39	April 2005	
37		Bailly	Barely discernible basin	66.5S	69.1W	303	71	April 2005	
38		Sabine & Ritter	Possible twin impacts	1.7N	19.7E	30	35		
39		Schickard	Crater floor with Orientale basin ejecta stripe	44.3S	55.3W	227	62		
40		Janssen Rille	Rare example of a highland rille	45.4S	39.3E	190	67, 68		
41		Bessel ray	Ray of uncertain origin near Bessel	21.8N	17.9E	N/A	24		
42		Marius Hills	Complex of volcanic domes & hills	12.5N	54.0W	125	28, 29		
43		Wargentin	A crater filled to the rim with lava or ejecta	49.6S	60.2W	84	70		
44		Mersenius	Domed floor cut by secondary craters	21.5S	49.2W	84	51		
45		Maurolycus	Region of saturation cratering	42.0S	14.0E	114	66		
46		Regiomontanus central peak	Possible volcanic peak	28.0S	0.6W	124	55		
47		Alphonsus dark spots	Dark-halo eruptions on crater floor	13.7S	3.2W	119	44	Aug 2005	
48		Cauchy region	Fault, rilles, & domes	10.5N	38.0E	130	36	Dec 2005	
49		Gruithuisen Delta & Gamma	Volcanic domes formed with viscous lavas	36.3N	40.0W	20	9		
50		Cayley Plains	Light, smooth plains of uncertain origin	4.0N	15.1E	14	34	March 2006	
51		Davy crater chain	Result of comet-fragment impacts	11.1S	6.6W	50	43		
52		Crüger	Possible volcanic caldera	16.7S	66.8W	45	50		
53		Lamont	Possible buried basin	4.4N	23.7E	106	35		
54		Hippalus Rilles	Rilles concentric to Humorum basin	24.5S	29.0W	240	52, 53		
55		Baco	Unusually smooth crater floor & surrounding plains	51.0S	19.1E	69	74	March 2006	
56		Australe basin	A partially flooded ancient basin	49.8S	84.5E	880	76		
57		Reiner Gamma	Conspicuous swirl & magnetic anomaly	7.7N	59.2W	70	28		
58		Rheita Valley	Basin secondary-crater chain	42.5S	51.5E	445	68	Jun 2004	
59		Schiller-Zucchi basin	Badly degraded overlooked basin	56.0S	45.0W	335	70, 71	April 2005	
60		Kies Pi	Volcanic dome	26.9S	24.2W	45	53	Jun 2005	
61		Mösting A	Simple crater close to center of lunar near side	3.2S	5.2W	13	43	Jul 2004	
62		Rümker	Large volcanic dome	40.8N	58.1W	70	8		
63		Imbrium sculpture	Basin ejecta near & overlying Boscovich & Julius Caesar	11.0N	12.0E	—	34		
64		Descartes	Apollo 16 landing site; putative region of highland volcanism	11.7S	15.7E	48	45		
65		Hortensius domes	Dome field north of Hortensius	7.6N	27.9W	10	30	Jun 2005	
66		Hadley Rille	Lava channel near Apollo 15 landing site	25.0N	3.0E	—	22	Sep 2004	
67		Fra Mauro formation	Apollo 14 landing site on Imbrium ejecta	3.6S	17.5W	—	42		

68		Flamsteed P	Proposed young volcanic crater & Surveyor 1 landing site	3.0S	44.0W	112	40	Nov 2004
69		Copernicus secondary craters	Rays & craterlets near Pytheas	19.6N	19.1W	4	20	
70		Humboldtianum basin	Multi-ring impact basin	57.0N	80.0E	650	7	
71		Sulpicius Gallus dark mantle	Ash eruptions northwest of crater	19.6N	11.6E	12	23	Aug 2005
72		Atlas dark-halo craters	Explosive volcanic pits on the floor of Atlas	46.7N	44.4E	87	15	
73		Smythii basin	Difficult-to-observe basin scarp & mare	2.0S	87.0E	740	38, 49	Nov 2005
74		Copernicus H	Dark-halo impact crater	6.9N	18.3W	5	31	
75		Ptolemaeus B	Saucerlike depression on the floor of Ptolemaeus	8.0S	0.8W	16	44	
76		W. Bond	Large crater degraded by Imbrium ejecta	65.3N	3.7E	158	4	
77		Sirsalis Rille	Procellarum basin radial rilles	15.7S	61.7W	425	39, 50	Oct 2005
78		Lambert R	A buried "ghost" crater	23.8N	20.6W	54	20	Nov 2004
79		Sinus Aestuum	Eastern dark-mantle volcanic deposit	12.0N	3.5W	90	33	Aug 2005
80		Orientale basin	Youngest large impact basin	19.0S	95.0W	930	50	Aug 2004 Jan 2005
81		Hesiodus A	Concentric crater	30.1S	17.0W	15	54	
82		Linné	Small crater once thought to have disappeared	27.7N	11.8E	2.4	23	
83		Plato craterlets	Crater pits at limits of detection	51.6N	9.4W	101	3, 4	
84		Pitatus	Crater with concentric rilles	29.8S	13.5W	97	54	
85		Langrenus rays	Aged ray system	8.9S	60.9E	132	49	
86		<u>Prinz Rilles</u>	Rille system near the crater Prinz	27.0N	43.0W	46	19	Sep 2004
87		Humboldt	Crater with central peaks & dark spots	27.0S	80.9E	207	60	
88		Peary	Difficult-to-observe polar crater	88.6N	33.0E	74	4, II	July 2005
89		Valentine Dome	Volcanic dome	30.5N	10.1E	30	13	
90		Armstrong, Aldrin & Collins	Small craters near the Apollo 11 landing site	1.3N	23.7E	3	35	
91		De Gasparis Rilles	Area with many rilles	25.9S	50.7W	30	51	
92		Gylden Valley	Part of the Imbrium radial sculpture	5.1S	0.7E	47	44	
93		Dionysius rays	Unusual & rare dark rays	2.8N	17.3E	18	35	
94		Drygalski	Large south-pole region crater	79.3S	84.9W	162	72, VI	July 2005
95		Procellarum basin	The Moon's biggest basin?	23.0N	15.0W	3200	—	Sep 2005
96		Leibnitz Mountains	Rim of South Pole-Aitken basin	85.0S	30.0E	—	73, V	July 2005
97		Inghirami Valley	Orientale basin ejecta	44.0S	73.0W	140	61	Jan 2005
98		Imbrium lava flows	Mare lava-flow boundaries	32.8N	22.0W	—	10	Aug 2004
99		<u>Ina</u>	D-shaped young volcanic caldera	18.6N	5.3E	3	22	
100		Mare Marginis swirls	Possible magnetic field deposits	18.5N	88.0E	—	27, III	Nov 2005

Other Lunar 100 observation sites

<http://www.salzgeber.at/astro/moon/L100.html>

<http://www.cuckney.pwp.blueyonder.co.uk/astronmy/Lunar100.htm>

<http://decaturastronomy.com/lunarbest.htm>

<http://www.shoestringastronomy.com/lunar/lunar100.htm>

<http://www.astronomer.me.uk/logs/by-l100/>

Lunar 100 Observing Club http://www.rtpnet.org/~rac/obsprograms/Lunar%20100%20List_1.2.pdf

Observing log sheets <http://www.eastvalleyastronomy.org/downloads/OTL100.pdf>

Key Lunar imaging links

<http://www.lpod.org>

<http://www.astrosurf.com/cidadao/moon.htm>

[Hitchhiker's Guide to the Moon](#)

[The Full Moon Atlas](#)

[Thierry Legault](#)



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