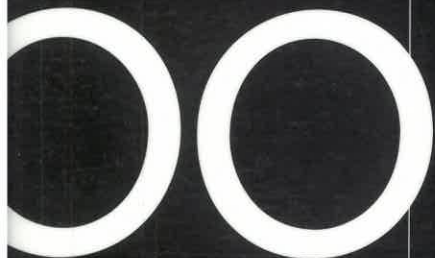


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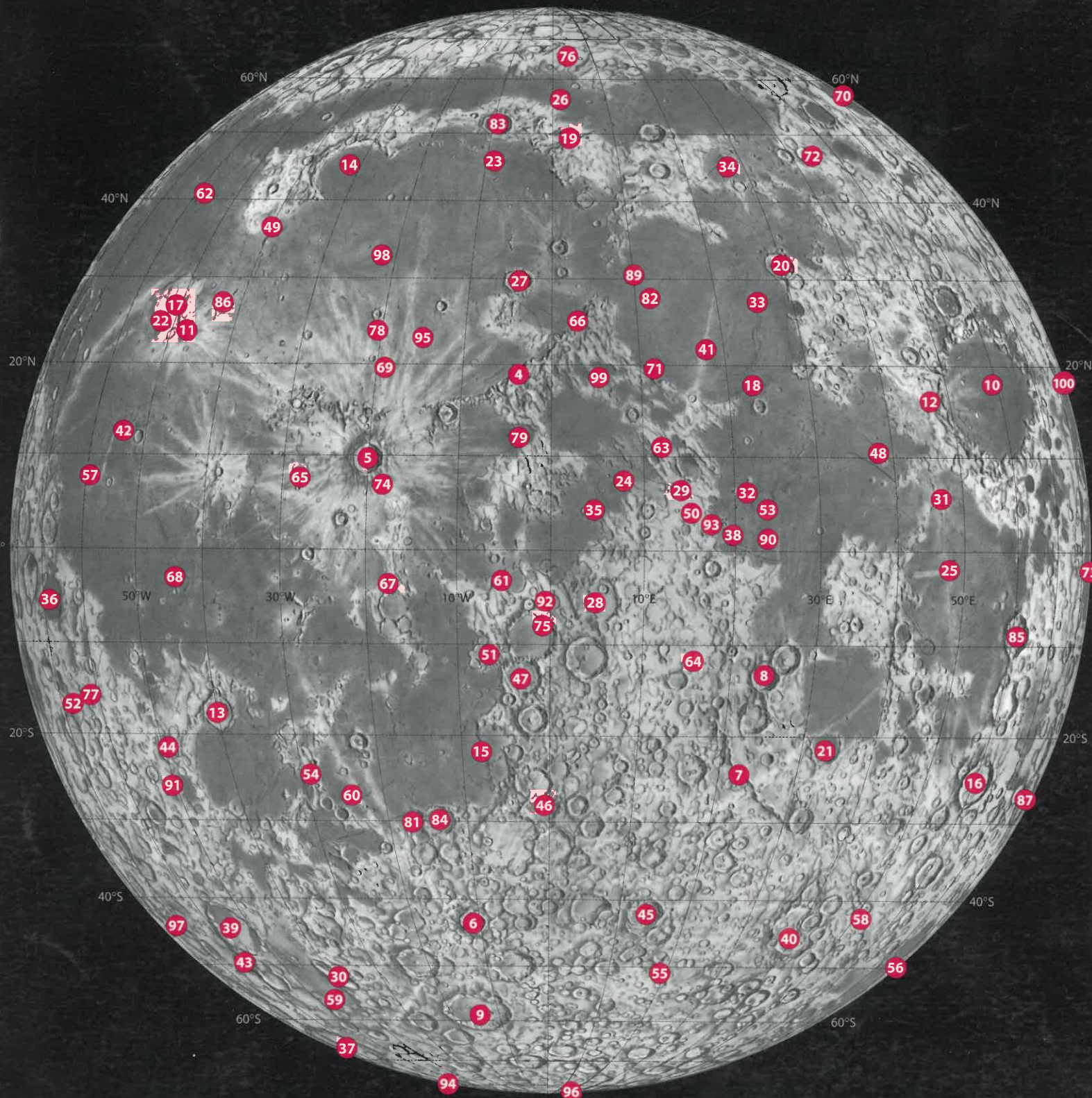
ARD

Exploring the Moon with Charles A. Wood

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L	FEATURE NAME	SIGNIFICANCE	LAT. (°)	LONG. (°)	DIAM. (km)	RÜKL CHART*	L	FEATURE NAME	SIGNIFICANCE	LAT. (°)	LONG. (°)	D
1	Moon	Large satellite	—	—	3,476	—	51	Davy crater chain	Result of comet-fragment impacts	11.1S	6.6W	3
2	Earthshine	Twice reflected sunlight	—	—	—	—	52	Crüger	Possible volcanic caldera	16.7S	66.8W	4
3	Mare/highland dichotomy	Two materials with distinct compositions	—	—	—	—	53	Lamont	Possible buried basin	4.4N	23.7E	1
4	Apennines	Imbrium basin rim	18.9N	3.7W	400	22	54	Hippalus Rilles	Rilles concentric to Humorum basin	24.5S	29.0W	2
5	Copernicus	Archetypal large complex crater	9.7N	20.1W	93	31	55	Baco	Unusually smooth crater floor and surrounding plains	51.0S	19.1E	6
6	Tycho	Large rayed crater with impact melts	43.4S	11.1W	102	64	56	Mare Australe	A partially flooded ancient basin	49.8S	84.5E	1
7	Altai Scarp	Nectaris basin rim	24.3S	22.6E	425	57	57	Reiner Gamma	Conspicuous swirl and magnetic anomaly	7.7N	59.2W	7
8	Theophilus, Cyrillus, Catharina	Crater sequence illustrating stages of degradation	13.2S	24.0E	110	46, 57	58	Rheita Valley	Basin secondary-crater chain	42.5S	51.5E	4
9	Clavius	Lacks basin features in spite of its size	58.8S	14.1W	245	72	59	Schiller-Zucchi basin	Badly degraded overlooked basin	56.0S	45.0W	3
10	Mare Crisium	Mare contained in large circular basin	18.0N	59.0E	540	26, 27, 37, 38	60	Kies Pi	Volcanic dome	26.9S	24.2W	4
11	Aristarchus	Very bright crater with dark bands on its walls	23.7N	47.4W	40	18	61	Mösting A	Simple crater close to center of lunar near side	3.2S	5.2W	1
12	Proclus	Oblique-impact rays	16.1N	46.8E	28	26	62	Rümker Hills	Large volcanic dome	40.8N	58.1W	7
13	Gassendi	Floor-fractured crater	17.6S	40.1W	101	52	63	Imbrium sculpture	Basin ejecta	11.0N	12.0E	—
14	Sinus Iridum	Very large crater with missing rim	45.0N	32.0W	260	10	64	Descartes	Apollo 16 landing site; highland volcanism?	11.7S	15.7E	—
15	Straight Wall	Best example of a lunar fault	21.8S	7.8W	130	54	65	Hortensius domes	Dome field north of Hortensius	7.6N	27.9W	1
16	Petavius	Crater with domed and fractured floor	25.1S	60.4E	188	59	66	Hadley Rille	Lava channel near Apollo 15 landing site	25.0N	3.0E	—
17	Schröter's Valley	Giant sinuous rille	26.2N	50.8W	168	18	67	Fra Mauro formation	Apollo 14 landing site on Imbrium ejecta	3.6S	17.5W	—
18	Mare Serenitatis dark edges	Distinct mare areas with different compositions	17.8N	23.0E	N/A	24	68	Flamsteed P	Proposed young volcanic crater & Surveyor 1 landing site	3.0S	44.0W	—
19	Alpine Valley	Lunar graben	49.0N	3.0E	165	4	69	Copernicus secondary craters	Rays and craterlets near Pytheas	19.6N	19.1W	4
20	Posidonius	Floor-fractured crater	31.8N	29.9E	95	14	70	Humboldtianum basin	Multi-ring impact basin	57.0N	80.0E	6
21	Fracastorius	Crater with subsided and fractured floor	21.5S	33.2E	112	58	71	Sulpicius Gallus dark mantle	Ash eruptions northwest of crater	19.6N	11.6E	1
22	Aristarchus Plateau	Mysterious uplifted region mantled by pyroclastics	26.0N	51.0W	150	18	72	Atlas dark-halo craters	Explosive volcanic pits on the floor of Atlas	46.7N	44.4E	8
23	Pico	Isolated Imbrium basin-ring fragment	45.7N	8.9W	25	11	73	Smythii basin	Difficult-to-observe basin scarp and mare	2.0S	87.0E	7
24	Hyginus Rille	Rille containing rimless collapse pits	7.4N	7.8E	220	34	74	Copernicus H	Dark-halo impact crater	6.9N	18.3W	5
25	Messier & Messier A	Oblique ricochet-impact pair	1.9S	47.6E	11	48	75	Ptolemaeus B	Saucerlike depression on the floor of Ptolemaeus	8.0S	0.8W	1
26	Mare Frigoris	Arcuate mare of uncertain origin	56.0N	1.4E	1,600	2–6	76	W. Bond	Large crater degraded by Imbrium ejecta	65.3N	3.7E	1
27	Archimedes	Large crater lacking central peak	29.7N	4.0W	83	12, 22	77	Sirsalis Rille	Procellarum basin radial rilles	15.7S	61.7W	4
28	Hipparchus	Subject of first drawing of a single crater	5.5S	4.8E	150	44, 45	78	Lambert R	A buried "ghost" crater	23.8N	20.6W	5
29	Aridaeus Rille	Long, linear graben	6.4N	14.0E	250	34	79	Sinus Aestuum	Eastern dark-mantle volcanic deposit	12.0N	3.5W	9
30	Schiller	Possible oblique impact	51.9S	39.0W	180	71	80	Orientalis basin	Youngest large impact basin	19.0S	95.0W	9
31	Taruntius	Young floor-fractured crater	5.6N	46.5E	56	37	81	Hesiodus A	Concentric crater	30.1S	17.0W	1
32	Arago Alpha & Beta	Volcanic domes	6.2N	21.4E	26	35	82	Linné	Small crater once thought to have disappeared	27.7N	11.8E	2
33	Serpentine Ridge	Basin inner-ring segment	27.3N	25.3E	155	24	83	Plato craterlets	Crater pits at limits of detection	51.6N	9.4W	1
34	Lacus Mortis	Strange crater with rille and ridge	45.0N	27.2E	152	14	84	Pitatus	Crater with concentric rilles	29.8S	13.5W	9
35	Triesnecker Rilles	Rille family	4.3N	4.6E	215	33	85	Langrenus rays	Aged ray system	8.9S	60.9E	1
36	Grimaldi basin	A small two-ring basin	5.5S	68.3W	410	39	86	Prinz Rilles	Rille system near the crater Prinz	27.0N	43.0W	4
37	Bailly	Barely discernible basin	66.5S	69.1W	303	71	87	Humboldt	Crater with central peaks and dark spots	27.0S	80.9E	1
38	Sabine & Ritter	Possible twin impacts	1.7N	19.7E	30	35	88	Peary	Difficult-to-observe polar crater	88.6N	95.3E	1
39	Schickard	Crater floor with Orientale basin ejecta stripe	44.3S	55.3W	206	62	89	Valentine Dome	Volcanic dome	30.5N	10.1E	3
40	Janssen Rille	Rare example of a highland rille	45.4S	39.3E	199	67, 68	90	Armstrong, Aldrin, Collins	Small craters near the Apollo 11 landing site	1.3N	23.7E	3
41	Bessel ray	Ray of uncertain origin near Bessel	21.8N	17.9E	N/A	24	91	De Gasparis Rilles	Area with many rilles	25.9S	50.7W	3
42	Marius Hills	Complex of volcanic domes and hills	12.5N	54.0W	125	28, 29	92	Gylden Valley	Part of the Imbrium radial sculpture	5.1S	0.7E	4
43	Wargentini	A crater filled to the rim with lava or ejecta	49.6S	60.2W	84	70	93	Dionysius rays	Unusual and rare dark rays	2.8N	17.3E	1
44	Mersenius	Domed floor cut by secondary craters	21.5S	49.2W	84	51	94	Drygalski	Large South Pole—region crater	79.3S	84.9W	1
45	Maurolycus	Region of saturation cratering	42.0S	14.0E	114	66	95	Procellarum basin	The Moon's biggest basin?	23.0N	15.0W	3
46	Regiomontanus central peak	Possible volcanic peak	28.0S	0.6W	108	55	96	Leibnitz Mountains	Rim of South Pole—Aitken basin	85.0S	30.0E	—
47	Alphonsus dark spots	Dark-halo eruptions on crater floor	13.7S	3.2W	119	44	97	Inghirami Valley	Orientalis basin ejecta	44.0S	73.0W	1
48	Cauchy region	Fault, rilles, and domes	10.5N	38.0E	130	36	98	Imbrium lava flows	Mare lava-flow boundaries	32.8N	22.0W	—
49	Gruithuisen Delta & Gamma	Volcanic domes formed with viscous lavas	36.3N	40.0W	20	9	99	Ina caldera	D-shaped young volcanic caldera	18.6N	5.3E	3
50	Cavley Plains	Light, smooth plains of uncertain origin	4.0N	15.1E	14	34	100	Mare Marainis swirls	Possible magnetic-field deposits	18.5N	88.0E	—