

Table 4.

Examples concentric craters on Earth and Mars.

Crater	Location	Coordinates	D _{out} [m]	D _{in} [m]	D _{in} /D _{out}	H [m]	D _{out} /H	Concentric crater (main cause)
Lockne	Sweden	63° 0' N 14° 49' E	13000 ± 500	7500 ± 200	0.58 ± 0.027	600<H<<800 Most likely 600 ± 50	21.67 ± 1.99	Gravity controlled
CBIS	U.S.A	37° 17' N 76° 1' W	85000 ± 5000	35000 ± 2000	0.41 ± 0.034	400<H<1840 (wedge shaped) Here 1500 ± 500	56.67 ± 19.18	Collapse
Ormö et al. (2013, Fig 6a)	Arcadia Planitia, Mars	44.66 N 158.73 E	890 ± 50	400 ± 40	0.45 ± 0.052	30-80 (55 ± 25)	16.18 ± 7.41	Gravity controlled
Ormö et al. (2013, Fig 6b)	Arcadia Planitia, Mars	44.1 N 158.72 E	850 ± 50	550 ± 50	0.65 ± 0.070	30-80 (55 ± 25)	15.45 ± 7.08	Gravity controlled
Ormö et al. (2013, Fig 6c)	Arcadia Planitia, Mars	46.14 N 158.56 E	700 ± 50	500 ± 50	0.71 ± 0.088	30-80 (55 ± 25)	12.73 ± 5.86	Gravity controlled
Ormö et al. (2013, Fig 6d)	Arcadia Planitia, Mars	46.61 N 160.65 E	130 ± 20	35 ± 5	0.27 ± 0.057	30-80 (55 ± 25)	2.36 ± 1.13	Strength controlled
Ormö et al. (2013, Fig 6e)	Arcadia Planitia, Mars	46.76 N 161.71 E	350 ± 30	170 ± 20	0.49 ± 0.071	30-80 (55 ± 25)	6.36 ± 2.94	Strength controlled
Ormö et al. (2013, Fig 6f, plate with several craters)	Arcadia Planitia, Mars	48.32 N 158.83 E	220 ± 20	110 ± 20	0.50 ± 0.10	30-80 (55 ± 25)	4.0 ± 1.85	Strength controlled
			220 ± 20	90 ± 15	0.41 ± 0.078	30-80 (55 ± 25)	4.0 ± 1.85	Strength controlled
			230 ± 20	110 ± 20	0.48 ± 0.096	30-80 (55 ± 25)	4.18 ± 1.94	Strength controlled
			240 ± 20	120 ± 20	0.50 ± 0.093	30-80 (55 ± 25)	4.36 ± 2.02	Strength controlled
Ormö et al. (2013, Fig 6g)	Arcadia Planitia, Mars	46.58 N 159.01 E	290 ± 30	150 ± 20	0.52 ± 0.087	30-80 (55 ± 25)	5.27 ± 2.46	Strength controlled
Ormö et al. (2013, Fig 6h)	Arcadia Planitia, Mars	46.64 N 158.89 E	240 ± 20	120 ± 20	0.50 ± 0.093	30-80 (55 ± 25)	4.36 ± 2.02	Strength controlled
Ormö et al. (2013, Fig 6i)	Arcadia Planitia, Mars	46.45 N 159.13 E	450 ± 40	210 ± 20	0.47 ± 0.061	30-80 (55 ± 25)	8.18 ± 3.79	Strength controlled
HRSC h0482_0000 (north)	South of Valles Marineris	15°52' S 63°41' W	50000 ± 5000	11400 ± 1000	0.23 ± 0.030	1000 ± 15	50.00 ± 5.06	Collapse?
HRSC h0482_0000 (south)	South of Valles Marineris	17°41' S 63°36' W	46000 ± 5000	14000 ± 1000	0.30 ± 0.040	1000 ± 15	46.00 ± 5.05	Collapse?
Ormö et al. (2013, "Case A")	Arcadia Planitia, Mars	46.58 N 194.84 E	520 ± 50	340 ± 30	0.65 ± 0.085	30 ± 5	17.33 ± 3.34	Gravity controlled
Ormö et al. (2013, "Case B")	Meridiani Planum, Mars	3.05 S 356.8 E	1800 ± 100	1000 ± 50	0.56 ± 0.042	150 ± 5	12.00 ± 0.78	Gravity controlled
Ormö et al. (2013, "Case C")	Utopia Planitia, Mars	40.1 N 125 E	2400 ± 200	1300 ± 70	0.54 ± 0.054	150 ± 5	16.00 ± 1.44	Gravity controlled

