**Table 4.**

*Examples concentric craters on Earth and Mars.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crater** | **Location** | **Coordinates** | **Dout**  **[m]** | **Din**  **[m]** | **Din/Dout** | **H**  **[m]** | **Dout/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  220 ± 20  230 ± 20  240 ± 20 | 110 ± 20  90 ± 15  110 ± 20  120 ± 20 | 0.50 ± 0.10  0.41 ± 0.078  0.48 ± 0.096  0.50 ± 0.093 | 30-80 (55 ± 25)  30-80 (55 ± 25)  30-80 (55 ± 25)  30-80 (55 ± 25) | 4.0 ± 1.85  4.0 ± 1.85  4.18 ± 1.94  4.36 ± 2.02 | Strength controlled  Strength controlled  Strength controlled  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 |
|  |  |  |  |  |  |  |  |  |