

Subject: For those who have never seen near asteroid data

On July 25, 2020 there were **2037** potentially hazardous asteroids.

Recent & Upcoming Earth-asteroid encounters:

| Asteroid | Date(UT) | Miss Distance | Velocity (km/s) | Diameter (m) |
|----------------------------|-------------|---------------|-----------------|--------------|
| 2016 DY30 | 2020-Jul-19 | 9 LD | 15.1 | 3 |
| 2020 OD | 2020-Jul-19 | 8.6 LD | 6.2 | 60 |
| 2020 OM | 2020-Jul-19 | 8.3 LD | 9.5 | 15 |
| 2020 ME3 | 2020-Jul-19 | 14.8 LD | 4.6 | 24 |
| 2020 OB | 2020-Jul-20 | 18.8 LD | 26.5 | 66 |
| 2020 OL1 | 2020-Jul-20 | 7.8 LD | 8 | 36 |
| 2020 OF | 2020-Jul-20 | 8.7 LD | 31.6 | 65 |
| 2002 BF25 | 2020-Jul-21 | 9.4 LD | 6.8 | 129 |
| 2020 NO | 2020-Jul-22 | 2 LD | 7.6 | 17 |
| 2020 OG1 | 2020-Jul-23 | 10.4 LD | 11.5 | 41 |
| 2020 OH3 | 2020-Jul-23 | 5.1 LD | 17.7 | 42 |
| 2020 ON | 2020-Jul-23 | 13.6 LD | 17.4 | 64 |
| 2020 ND | 2020-Jul-24 | 14.5 LD | 13.6 | 178 |
| 2020 NN | 2020-Jul-25 | 16.3 LD | 10.1 | 43 |
| 2020 OO1 | 2020-Jul-27 | 1.7 LD | 7.3 | 18 |
| 2020 NZ | 2020-Jul-28 | 8.2 LD | 7.8 | 29 |
| 2020 OE2 | 2020-Jul-28 | 4.5 LD | 2.9 | 13 |
| 2020 MX3 | 2020-Jul-29 | 9.4 LD | 8.5 | 65 |
| 2018 PY7 | 2020-Jul-31 | 8.9 LD | 9.5 | 16 |
| 2007 RF1 | 2020-Jul-31 | 10.7 LD | 5 | 21 |
| 2020 OC1 | 2020-Jul-31 | 9.6 LD | 4 | 17 |
| 2020 OO2 | 2020-Aug-01 | 14.9 LD | 7.8 | 29 |
| 2018 BD | 2020-Aug-03 | 7.6 LD | 9.4 | 3 |
| 2020 OG3 | 2020-Aug-04 | 7.1 LD | 6 | 17 |
| 2009 PQ1 | 2020-Aug-05 | 10.8 LD | 13.5 | 112 |
| 2020 FA1 | 2020-Aug-23 | 18.4 LD | 1.9 | 20 |
| 2016 AH164 | 2020-Aug-26 | 15.7 LD | 5.6 | 4 |
| 2011 ES4 | 2020-Sep-01 | 0.3 LD | 8.2 | 30 |
| 465824 | 2020-Sep-06 | 19.4 LD | 14 | 162 |
| 2012 RM15 | 2020-Sep-12 | 14.9 LD | 9.8 | 45 |
| 2017 US | 2020-Sep-13 | 17.3 LD | 5.9 | 21 |
| 2014 QJ33 | 2020-Sep-18 | 11.5 LD | 8.3 | 65 |
| 2017 SL16 | 2020-Sep-20 | 8.9 LD | 6.4 | 25 |

Notes: LD means "Lunar Distance." 1 LD = 384,401 km, the distance between Earth and the Moon. 1 LD also equals 0.00256 AU. MAG is the visual magnitude of the asteroid on the date of closest approach.