



Comet Tracking Team Worksheet

| A | B | C | D | E | F | G | H |
|------|---------------------|------------------|-----------------------|-------------------------------|---|----------------------------|----------------|
| UTC | Diameter Of Comet * | Distance to Moon | Speed | Estimate Time of Impact (ETI) | ETI Conversion | Distance Reached by Ejects | Size of Crater |
| | | | | Column C Divided by Column D | Column E Divided by 3600 Seconds Per Hour | Graph 1 | Graph 2 |
| | Meters | Kilometers | Kilometers Per Second | Seconds | Hours | Km | Diameter In Km |
| 0300 | 2000 | 570,600 | 30 | 19,020 | 5.28 | 310 | 36 |
| 0330 | 2000 | 550,000 | 35 | 15,714 | 4.36 | 330 | 39 |
| 0400 | 2000 | 516,600 | 33 | 15,655 | 4.35 | 320 | 38 |
| 0430 | 2000 | 457,200 | 38 | 12,032 | 3.34 | 350 | 41 |
| 0500 | 2000 | 423,400 | 36 | 11,761 | 3.27 | 340 | 40 |
| 0530 | 1500 | 388,800 | 45 | 8,640 | 2.40 | 290 | 35 |
| 0600 | 1500 | 307,800 | 40 | 7,695 | 2.14 | 270 | 33 |
| 0630 | 1500 | 235,800 | 38 | 6,205 | 1.72 | 260 | 32 |
| 0700 | 1500 | 205,200 | 35 | 5,863 | 1.63 | 249 | 31 |
| 0730 | 1500 | 167,400 | 33 | 5,073 | 1.41 | 240 | 30 |
| 0800 | 1000 | 108,000 | 30 | 3,600 | 1 | 150 | 20 |
| 0830 | 1000 | 54,000 | 30 | 1,800 | 0.5 | 150 | 20 |
| 0900 | - NO REPORT - | | | | | | |
| | | | | | | | |

* As the comet progresses toward Earth, telescopes from various locations around the globe will take readings. These readings might vary as a result.



Moon Mapping Team Worksheet

| A | B | C | D | E | D | E | D | E |
|------|--------------------------------|----------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|
| UTC | Zone of Probable Impact (ZOPI) | | Base A | | Base B | | Base C | |
| | Radius | Area | Area of Danger* | Probability of Base Destruction | Area of Danger* | Probability of Base Destruction | Area of Danger* | Probability of Base Destruction |
| | From Data | $3.14 * (\text{Col. B})^2$ | From Online Moon Map | Col D / Col C *95 | From Online Moon Map | Col D / Col C *95 | From Online Moon Map | Col D / Col C *95 |
| | Km | km ² | km ² | % | km ² | % | km ² | % |
| 0300 | 400 | 502,400 | 179,674 | 34 | 50,093 | 9.5 | 19,152 | 3.62 |
| 0330 | 400 | 502,400 | 150,587 | 28.5 | 31,229 | 5.9 | 21,394 | 4 |
| 0400 | 400 | 502,400 | 203,064 | 38.4 | 77,913 | 14.7 | 67,094 | 12.7 |
| 0430 | 375 | 441,563 | 214,942 | 46.2 | 102,205 | 22 | 116,139 | 25 |
| 0500 | 375 | 441,563 | 185,073 | 39.8 | 95,279 | 20.5 | 142,936 | 30.8 |
| 0530 | 375 | 441,563 | 136,643 | 29.4 | 69,595 | 15 | 129,723 | 28 |
| 0600 | 350 | 384,650 | 58,373 | 14.42 | 30,633 | 7.6 | 150,601 | 37 |
| 0630 | 350 | 384,650 | 20,361 | 5.03 | 16,282 | 4.02 | 184,164 | 45.5 |
| 0700 | 325 | 331,663 | 5,602 | 1.6 | 5,965 | 1.71 | 169,853 | 48.6 |
| 0730 | 325 | 331,663 | 892 | 0.26 | 3,220 | 0.92 | 167,449 | 48 |
| 0800 | 325 | 331,663 | 0 | 0 | 0 | 0 | 70,686 | 20.2 |
| 0830 | 300 | 282,600 | 0 | 0 | 0 | 0 | 57,488 | 19.3 |
| 0900 | - NO REPORT - | | | | | | | |
| | | | | | | | | |

* Answers are approximate depending on ejecta distance determined by Comet Tracking Team