

Sentry: Earth Impact Monitoring

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Object Details

The following summary tables includes basic information about the hazard for this object. The maximum Torino and Palermo Scale values are listed, as well as the number of tabulated potential impacts and their corresponding cumulative Palermo Scale value and cumulative impact probability (shown in the the first table). Certain parameter values depend upon the specific impact event in question, but they change little among the various table entries. For this reason we tabulate only mean values for these parameters (shown in the second table). The observation set used for the analysis is also listed.

2018 PZ21 -- Earth Impact Risk Summary [\(orbit details ↗\)](#)

Torino Scale (maximum)	0
Palermo Scale (maximum)	-5.50
Palermo Scale (cumulative)	-5.45
Impact Probability (cumulative)	3.2e-5
Number of Potential Impacts	17
Impact Search Technique	LOV

V _{impact}	12.80 km/s
V _{infinity}	6.30 km/s
H	26.7
Diameter	0.016 km
Mass	5.3e+6 kg
Energy	1.0e-1 Mt
All above are mean values weighted by impact probability	

Analysis based on 18 observations spanning 23.977 days
(2018-Aug-12.36837 to 2018-Sep-05.345076)

Show

10 ▾

entries

Showing 1 to 10 of 17 entries

Impact Table <i>(these results were computed on 2018-Sep-07)</i>										
Date (yyyy-mm-dd.dd)	Distance (r _{Earth})	Width (r _{Earth})	Sigma Impact	Sigma LOV	Stretch LOV (r _{Earth})	Impact Probability	Impact Energy (Mt)	Palermo Scale	Torino Scale	
2045-07-31.43	0.25	4.25e-4	0.000	3.56199	6.92e+3	2.0e-7	1.033e-01	-7.40	0	
2057-07-31.06	0.25	6.93e-4	0.000	-2.99440	7.09e+4	1.2e-7	1.011e-01	-7.77	0	
2064-07-27.83	0.07	8.74e-3	0.000	-1.11033	1.60e+4	2.7e-5	1.026e-01	-5.50	0	
2073-07-27.95	0.73	8.69e-3	0.000	-1.10791	4.39e+6	6.8e-8	1.025e-01	-8.18	0	
2081-07-27.57	0.41	9.35e-3	0.000	-1.10444	1.03e+6	3.8e-7	1.027e-01	-7.48	0	
2081-07-29.71	0.66	1.88e-3	0.000	-0.85469	1.44e+6	2.9e-7	1.021e-01	-7.60	0	
2083-07-28.39	0.69	1.07e-2	0.000	1.27215	9.35e+5	2.7e-7	1.034e-01	-7.64	0	
2087-07-29.28	0.45	5.41e-4	0.000	1.00676	7.42e+5	5.8e-7	1.034e-01	-7.34	0	
2091-07-30.65	0.64	4.62e-4	0.000	2.25010	2.98e+5	1.7e-7	1.032e-01	-7.91	0	
2092-07-29.85	0.73	5.02e-4	0.000	4.46987	3.53e+3	7.3e-9	1.042e-01	-9.27	0	

Print

CSV

Excel

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Next

Use the "Print" button above to print data *contained in this table*. Use the "CSV" or "Excel" buttons to download the data for use in your spreadsheet program. Allow a few seconds for downloads of large datasets.

Machine-readable data are available. See the [API document ↗](#) for details.

Table Column Descriptions | [SHOW LEGEND](#)

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