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.

2015 KA158 -- Earth Impact Risk Summary (orbit details)

Torino Scale (maximum)	0
Palermo Scale (maximum)	-8.48
Palermo Scale (cumulative)	-7.87
Impact Probability (cumulative)	3.2e-8
Number of Potential Impacts	36
Impact Search Technique	LOV

V_{impact}	17.70 km/s
$V_{infinity}$	13.71 km/s
H	26.6
Diameter	0.016 km
Mass	5.9e+6 kg
Energy	2.2e-1 Mt

All above are mean values weighted by impact probability

Analysis based on 9 observations spanning 1.9250 days
(2015-May-22.18953 to 2015-May-24.11452)

Show 10 entries

Showing 1 to 10 of 36 entries

Impact Table (*these results were computed on 2017-Apr-11*)

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
2024-05-10.48	30.84	2.82e+2	0.106	1.12138	5.81e+5	1.6e-9	2.613e-01	-8.58	0
2025-04-12.51	34.90	5.70e+1	0.595	1.26980	1.06e+6	3.1e-9	1.868e-01	-8.48	0
2030-04-13.16	117.58	8.44e+1	1.382	1.26074	7.20e+5	1.4e-9	1.881e-01	-9.02	0
2033-05-10.11	171.17	3.21e+2	0.529	1.14203	1.37e+6	5.1e-10	2.629e-01	-9.44	0
2035-04-15.48	196.75	9.90e+1	1.976	1.25740	1.10e+6	2.9e-10	1.938e-01	-9.84	0
2036-05-06.29	188.94	5.98e+2	0.314	1.34947	1.00e+6	3.2e-10	2.763e-01	-9.70	0
2036-05-07.24	33.35	1.23e+2	0.262	0.99145	1.29e+6	1.9e-9	2.287e-01	-9.00	0
2036-05-11.46	111.13	6.56e+2	0.168	1.74566	7.31e+5	2.2e-10	3.936e-01	-9.73	0
2040-05-09.94	50.73	1.48e+2	0.337	0.98255	2.80e+6	7.0e-10	2.374e-01	-9.49	0
2041-05-03.24	40.93	4.35e+2	0.092	1.33719	4.84e+5	9.7e-10	2.583e-01	-9.34	0

Print | CSV | Excel

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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