



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 HW182 -- Earth Impact Risk Summary (orbit details ↗)

Torino Scale (maximum)	0
Palermo Scale (maximum)	-7.54
Palermo Scale (cumulative)	-6.82
Impact Probability (cumulative)	5.1e-8
Number of Potential Impacts	177
Impact Search Technique	LOV

V _{Impact}	15.56 km/s
V _{Infinity}	10.79 km/s
H	25.2
Diameter	0.031 km
Mass	4.1e+7 kg
Energy	1.2e+0 Mt
All above are mean values weighted by impact probability	

Analysis based on 9 observations spanning .99990 days (2015-Apr-18.31077 to 2015-Apr-19.31067)

Show 100 entries

Showing 1 to 100 of 177 entries

Impact Table (these results were computed on 2017-Apr-14)										
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	
2019-08-30.71	182.65	3.05e+2	0.595	-1.45108	2.19e+5	2.2e-9	9.219e-01	-7.54	0	
2020-09-08.75	70.23	2.81e+2	0.246	-1.69166	5.60e+5	7.4e-10	1.422e+00	-8.02	0	
2020-09-18.23	90.17	2.38e+2	0.374	-2.07749	1.64e+6	1.4e-10	3.102e+00	-8.48	0	
2021-08-29.90	184.54	3.02e+2	0.608	-1.44579	3.00e+5	1.6e-9	9.129e-01	-7.94	0	
2021-09-12.84	10.44	2.64e+2	0.036	-1.82823	9.35e+5	3.8e-10	1.850e+00	-8.33	0	
2022-09-06.88	102.28	2.88e+2	0.351	-1.62336	6.48e+5	6.7e-10	1.252e+00	-8.30	0	
2022-09-15.20	26.55	2.54e+2	0.100	-1.91869	1.41e+6	2.2e-10	2.211e+00	-8.59	0	
2023-08-30.10	186.30	3.00e+2	0.618	-1.44328	3.28e+5	1.5e-9	9.092e-01	-8.14	0	
2023-09-10.81	49.94	2.75e+2	0.178	-1.74030	1.00e+6	3.9e-10	1.553e+00	-8.54	0	
2023-09-16.69	51.18	2.49e+2	0.202	-1.98395	1.92e+6	1.4e-10	2.522e+00	-8.81	0	
2024-09-04.89	121.00	2.92e+2	0.411	-1.58394	7.49e+5	6.0e-10	1.164e+00	-8.52	0	
2024-09-12.25	14.05	2.65e+2	0.049	-1.82472	1.34e+6	2.7e-10	1.831e+00	-8.71	0	
2025-08-29.69	185.19	2.98e+2	0.619	-1.44213	2.28e+5	2.2e-9	9.096e-01	-8.10	0	
2025-09-08.83	72.74	2.80e+2	0.256	-1.68502	1.07e+6	3.9e-10	1.406e+00	-8.69	0	
2025-09-14.26	14.19	2.57e+2	0.051	-1.88923	1.84e+6	1.8e-10	2.083e+00	-8.90	0	
2026-09-04.69	129.89	2.93e+2	0.440	-1.55798	8.55e+5	5.4e-10	1.114e+00	-8.68	0	
2026-09-11.87	33.39	2.69e+2	0.121	-1.76184	1.52e+6	2.6e-10	1.637e+00	-8.87	0	
2026-09-16.37	42.39	2.47e+2	0.167	-1.94047	2.31e+6	1.3e-10	2.341e+00	-9.04	0	
2027-08-30.07	184.92	2.98e+2	0.618	-1.44160	4.68e+5	1.0e-9	9.059e-01	-8.51	0	
2027-09-07.94	90.33	2.84e+2	0.315	-1.64639	1.18e+6	3.7e-10	1.304e+00	-8.84	0	
2027-09-13.41	4.50	2.60e+2	0.013	-1.82246	1.73e+6	2.1e-10	1.828e+00	-8.96	0	
2028-09-03.20	140.44	2.96e+2	0.472	-1.53989	9.93e+5	4.7e-10	1.076e+00	-8.84	0	
2028-09-09.32	60.14	2.77e+2	0.214	-1.71664	1.51e+6	2.7e-10	1.484e+00	-8.97	0	
2028-09-12.46	0.24	2.64e+2	0.000	-1.87254	2.20e+6	1.5e-10	1.972e+00	-9.12	0	
2029-08-29.43	186.16	2.98e+2	0.621	-1.44153	2.10e+6	2.3e-10	9.054e-01	-9.24	0	
2029-09-06.46	103.22	2.87e+2	0.356	-1.61840	1.21e+6	3.6e-10	1.238e+00	-8.93	0	
2029-09-11.83	28.34	2.67e+2	0.102	-1.77395	1.87e+6	2.1e-10	1.674e+00	-9.08	0	
2029-09-14.53	22.42	2.56e+2	0.084	-1.91481	2.63e+6	1.2e-10	2.186e+00	-9.23	0	
2030-09-03.19	146.31	2.96e+2	0.491	-1.52652	1.06e+6	4.4e-10	1.052e+00	-8.94	0	
2030-09-08.72	75.16	2.80e+2	0.265	-1.68256	1.43e+6	2.9e-10	1.394e+00	-9.02	0	
2030-09-13.19	4.53	2.60e+2	0.014	-1.82154	1.88e+6	2.0e-10	1.827e+00	-9.10	0	
2031-09-06.41	111.72	2.89e+2	0.383	-1.59697	1.36e+6	3.3e-10	1.194e+00	-9.05	0	
2031-09-10.98	48.07	2.74e+2	0.172	-1.73631	1.67e+6	2.4e-10	1.548e+00	-9.11	0	
2032-09-02.34	150.33	2.96e+2	0.505	-1.51603	1.16e+6	4.1e-10	1.033e+00	-9.04	0	
2032-09-07.58	85.63	2.82e+2	0.300	-1.65579	1.68e+6	2.6e-10	1.327e+00	-9.16	0	
2032-09-12.12	21.55	2.64e+2	0.078	-1.78189	2.34e+6	1.7e-10	1.707e+00	-9.26	0	
2033-09-05.27	119.53	2.90e+2	0.409	-1.58016	1.36e+6	3.3e-10	1.160e+00	-9.12	0	
2033-09-09.39	63.58	2.77e+2	0.226	-1.70582	1.98e+6	2.1e-10	1.457e+00	-9.24	0	
2033-09-13.07	3.07	2.58e+2	0.008	-1.82084	1.95e+6	1.9e-10	1.826e+00	-9.20	0	
2034-09-02.38	154.75	2.97e+2	0.518	-1.50762	1.30e+6	3.6e-10	1.016e+00	-9.15	0	
2034-09-07.38	94.93	2.84e+2	0.330	-1.63426	1.79e+6	2.4e-10	1.274e+00	-9.25	0	
2034-09-11.26	39.92	2.64e+2	0.147	-1.74944	2.48e+6	1.6e-10	1.590e+00	-9.34	0	
2035-09-05.13	127.01	2.92e+2	0.432	-1.56624	1.59e+6	2.9e-10	1.128e+00	-9.24	0	
2035-09-08.88	75.67	2.79e+2	0.267	-1.68131	1.61e+6	2.6e-10	1.388e+00	-9.21	0	
2035-09-12.88	19.87	2.64e+2	0.072	-1.78743	2.80e+6	1.4e-10	1.720e+00	-9.42	0	
2036-09-01.53	158.51	2.98e+2	0.529	-1.50076	1.37e+6	3.4e-10	1.006e+00	-9.23	0	
2036-09-06.21	103.59	2.85e+2	0.360	-1.61680	1.72e+6	2.6e-10	1.236e+00	-9.28	0	
2036-09-12.60	4.96	2.59e+2	0.015	-1.82046	1.09e+6	3.4e-10	1.818e+00	-9.03	0	
2037-09-04.38	130.22	2.92e+2	0.443	-1.55487	1.53e+6	3.0e-10	1.108e+00	-9.27	0	
2037-09-08.11	82.17	2.81e+2	0.289	-1.66099	2.15e+6	2.0e-10	1.341e+00	-9.38	0	
2038-09-02.07	158.14	2.98e+2	0.528	-1.49520	1.31e+6	3.6e-10	9.970e-01	-9.25	0	
2038-09-06.66	105.86	2.86e+2	0.366	-1.60218	1.87e+6	2.4e-10	1.210e+00	-9.36	0	
2038-09-09.90	60.98	2.75e+2	0.218	-1.69961	2.31e+6	1.8e-10	1.449e+00	-9.42	0	
2038-09-13.63	7.76	2.58e+2	0.026	-1.79156	3.08e+6	1.3e-10	1.756e+00	-9.51	0	
2039-09-04.38	135.58	2.92e+2	0.461	-1.54535	1.80e+6	2.6e-10	1.087e+00	-9.38	0	
2039-09-10.76	47.49	2.71e+2	0.171	-1.73492	2.56e+6	1.6e-10	1.535e+00	-9.48	0	
2039-09-13.45	1.98	2.56e+2	0.004	-1.81963	2.21e+6	1.7e-10	1.811e+00	-9.39	0	
2040-09-01.16	161.66	2.98e+2	0.539	-1.49033	1.43e+6	3.3e-10	9.852e-01	-9.33	0	
2040-09-05.45	113.67	2.90e+2	0.389	-1.58937	1.83e+6	2.5e-10	1.177e+00	-9.39	0	
2040-09-08.22	74.03	2.78e+2	0.262	-1.68063	1.29e+6	3.3e-10	1.387e+00	-9.22	0	
2040-09-11.21	32.30	2.68e+2	0.117	-1.76625	3.30e+6	1.2e-10	1.643e+00	-9.60	0	
2041-09-03.44	139.95	2.94e+2	0.473	-1.53739	1.66e+6	2.8e-10	1.072e+00	-9.39	0	
2041-09-06.97	96.06	2.85e+2	0.333	-1.62851	2.26e+6	1.9e-10	1.262e+00	-9.49	0	
2041-09-13.32	7.11	2.58e+2	0.024	-1.79448	3.61e+6	1.1e-10	1.761e+00	-9.64	0	
2042-09-01.53	162.98	3.00e+2	0.539	-1.48619	1.48e+6	3.2e-10	9.798e-01	-9.38	0	
2042-09-05.50	118.95	2.89e+2	0.408	-1.57902	1.46e+6	3.1e-10	1.156e+00	-9.33	0	
2042-09-08.24	82.35	2.79e+2	0.291	-1.66440	2.81e+6	1.5e-10	1.342e+00	-9.59	0	
2042-09-10.78	44.48	2.71e+2	0.160	-1.74414	2.74e+6	1.5e-10	1.562e+00	-9.57	0	
2043-09-03.85	141.57	2.95e+2	0.476	-1.53075	1.91e+6	2.5e-10	1.059e+00	-9.49	0	
2043-09-07.20	100.05	2.84e+2	0.348	-1.61601	1.20e+6	3.7e-10	1.237e+00	-9.25	0	
2043-09-09.97	61.90	2.91e+2	0.210	-1.69562	1.48e+6	2.7e-10	1.435e+00	-9.34	0	
2044-08-32.00	162.94	3.07e+2	0.527	-1.48244	1.44e+6	3.3e-10	9.754e-01	-9.41	0	
2044-09-04.76	122.88	2.90e+2	0.420	-1.56951	2.10e+6	2.2e-10	1.138e+00	-9.53	0	
2044-09-10.07	49.46	2.72e+2	0.178	-1.72512	3.13e+6	1.3e-10	1.514e+00	-9.65	0	
2045-09-03.00	145.08	2.94e+2	0.490	-1.52438	1.67e+6	2.8e-10	1.047e+00	-9.46	0	
2046-09-01.31	161.98	3.25e+2	0.495	-1.47920	1.64e+6	2.8e-10	9.673e-01	-9.51	0	
2046-09-04.88	126.51	2.95e+2	0.425	-1.56139	1.22e+6	3.8e-10	1.119e+00	-9.33	0	
2046-09-07.50	92.33	2.83e+2	0.322	-1.63680	2.54e+6	1.7e-10	1.280e+00	-9.62	0	
2046-09-10.09	57.09	2.74e+2	0.205	-1.70829	3.28e+					