NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

+ View the NASA Portal

NEA Orbital Elements

Switch to Near-Earth Comet (NEC) table.

NEAs (Near-Earth Asteroids) | no H limit
Sort by object number/name | Ascending Sort
20 rows per page max. | show full table | Display Table

The table below provides J2000 heliocentric ecliptic orbital elements
for 20 of **9881** NEAs (Near-Earth Asteroids) sorted by **object number/name**.

First/Previous/Next/Last Page (rows 1121 to 1140 shown) Column headings described below

Object	a (AU)	e	i (deg)	w (deg)	Node (deg)	M (deg)	q (AU)	Q (AU)	P (yr)	H (mag)	MOID (AU)	ref	class
277830 (2006 HR29)	0.99	0.263	9.5	212.5	232.7	145.3	0.726	1.24	0.98	20.67	0.094435	53	ATE
277958 (2006 SP134)	2.05	0.736	13.0	192.3	16.7	180.4	0.541	3.56	2.94	16.96	0.218066	31	APO
278327 (2007 HA59)	2.51	0.727	54.7	17.5	57.2	270.2	0.686	4.33	3.98	15.41	0.285693	24	APO
278381 (2007 MR)	1.02	0.259	5.8	217.6	172.8	130.7	0.758	1.29	1.03	21.89	0.069253	27	APO
279744 (1998 KM3)	1.67	0.611	4.7	85.0	263.3	282.2	0.650	2.69	2.16	19.52	0.002893	24	APO*
279816 (2000 JE5)	1.24	0.401	50.7	285.2	41.3	77.6	0.742	1.73	1.38	18.66	0.046649	22	APO*
280136 (2002 OM4)	1.50	0.563	55.3	28.1	143.1	27.5	0.654	2.34	1.83	16.89	0.297960	50	APO
280244 (2002 WP11)	2.12	0.442	5.4	56.0	268.1	177.2	1.186	3.06	3.10	18.05	0.192002	59	AMO
280491 (2004 MO7)	1.10	0.484	24.1	61.4	38.6	280.3	0.570	1.64	1.16	18.95	0.055413	13	APO
281070 (2006 OY10)	1.81	0.574	35.6	92.3	234.1	251.0	0.769	2.84	2.43	18.71	0.135604	29	APO
281365 (2008 CM116)	1.63	0.663	18.7	355.7	0.2	298.1	0.549	2.71	2.08	17.46	0.315339	23	APO
281375 (2008 JV19)	0.99	0.248	7.2	310.5	142.1	120.1	0.741	1.23	0.98	20.62	0.041515	51	ATE*
283457 (2001 MQ3)	2.23	0.457	5.6	24.9	313.5	173.5	1.213	3.25	3.33	18.87	0.207304	73	AMO
283460 (2001 PD1)	2.23	0.457	6.0	94.6	282.5	164.0	1.213	3.26	3.34	18.18	0.242481	84	AMO
283729 (2002 UX)	1.47	0.163	20.2	84.3	263.9	341.2	1.233	1.71	1.79	17.82	0.350656	45	AMO
284114 (2005 TZ51)	2.13	0.429	10.8	127.5	280.4	151.8	1.213	3.04	3.10	17.82	0.269289	128	AMO
284422 (2006 YD)	2.62	0.693	7.7	352.1	223.4	157.7	0.805	4.44	4.25	17.39	0.105443	34	APO
285110 (1995 MA1)	2.61	0.586	25.8	265.9	87.7	45.1	1.082	4.14	4.22	17.50	0.370345	21	AMO
285179 (1996 TY11)	1.23	0.535	13.9	158.7	30.7	284.1	0.571	1.89	1.36	19.32	0.197738	27	APO
285263 (1998 QE2)	2.42	0.571	12.9	345.6	250.2	351.6	1.039	3.80	3.77	17.07	0.035030	60	AMO*

First/Previous/Next/Last Page (rows 1121 to 1140 shown)

Column Headings Description

(Elements are with respect to the J2000 heliocentric-ecliptic reference frame.)

a (AU) Semi-major axis of the orbit in AU

e Eccentricity of the orbit

i (deg) Inclination of the orbit with respect to the ecliptic plane and the equinox of J2000 (J2000-Ecliptic) in degrees

w (deg) Argument of perihelion (J2000-Ecliptic) in degrees

Node (deg) Longitude of the ascending node (J2000-Ecliptic) in degrees

M (deg) Mean anomoly at epoch in degrees

q (AU) Perihelion distance of the orbit in AU

Q (AU) Aphelion distance of the orbit in AU

P (yr) Orbital period in Julian years

H (mag) Absolute V-magnitude

MOID (AU) Minimum orbit intersection distance (the minimum distance between the osculating orbits of the NEO and the Earth)

ref Orbital solution reference

class Object classification: NEA="Near-Earth Asteroid", AMO="Amor", APO="Apollo", ATE="Aten", or IEO="Interior Earth Object". A trailing "*" indicates the object is also a potentially hazardous asteroid. (see definitions)

(AU) Astronomical distance Unit: 1.0 AU is about 1.5x10^8 km (*roughly* the average distance between the Earth and the Sun).

Site Manager: Don Yeomans
Webmaster: Ron Baalke
Last Updated: 06/07/2013