

ASTROMETRIC POSITIONS OF MINOR PLANETS

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The following precise astrometric positions have been measured from photographs obtained with a Newtonian reflector of 41 cm aperture, 1.943 meter focal length, and hypersensitized KODAK TP 2415 film. The location of the observatory is: Longitude 4°12'34" E; Latitude 45°22'50" N; Altitude 448 meters.

	UT	RA (1950.0)	Dec
148 Gallia	1989 05 08.050694	15 02 27.953	+18 55 44.87
264 Libussa	1989 10 22.920833	01 36 05.407	+02 16 21.39
264 Libussa	1989 10 23.949305	01 35 06.133	+02 16 30.99
264 Libussa	1989 10 26.987500	01 32 15.541	+02 16 45.07
264 Libussa	1989 11 28.889580	01 11 59.773	+03 39 58.12
264 Libussa	1989 11 29.924305	01 11 48.423	+03 45 02.55
365 Corduba	1989 10 22.872222	00 18 20.347	-01 34 43.66
365 Corduba	1989 10 23.912500	00 17 51.418	-01 43 50.15
365 Corduba	1989 10 25.906250	00 17 05.438	-02 00 33.36
365 Corduba	1989 10 26.960416	00 16 35.981	-02 09 04.99
365 Corduba	1989 11 29.898611	00 17 37.348	-04 21 40.15
433 Eros	1989 01 03.790277	00 55 48.401	+25 13 01.81
433 Eros	1989 01 03.869444	00 56 00.350	+25 12 42.49
433 Eros	1989 01 25.767361	02 04 37.855	+23 38 36.55
433 Eros	1989 01 25.788194	02 04 41.965	+23 38 31.43
433 Eros	1989 01 26.870138	02 08 27.125	+23 34 22.17
433 Eros	1989 01 27.785416	02 11 40.216	+23 30 49.23
433 Eros	1989 01 28.793750	02 15 13.434	+23 26 52.37
433 Eros	1989 02 01.859722	02 29 48.907	+23 10 10.22
1497 Tampere	1990 03 23.926388	10 25 33.968	+08 44 43.84
1497 Tampere	1990 03 23.993750	10 25 31.426	+08 44 59.72
1509 Esclangona	1990 01 21.972222	06 49 16.013	+15 18 49.85
1509 Esclangona	1990 01 21.990972	06 49 09.345	+15 17 43.33
1509 Esclangona	1990 01 22.918750	06 47 50.579	+15 04 09.49
1509 Esclangona	1990 02 17.899305	06 27 09.617	+10 04 18.30

ASTROMETRIC POSITIONS OF MINOR PLANETS

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The following astrometric positions of minor planets are reprinted in the *Minor Planet Bulletin* from the German periodical *KPM*, issues 11-13.

The following observations have been made by Dieter Ewald, Melchow, German Democratic Republic with a visual micrometer attached to a 7.5 cm refractor. Each is averaged from a listed number N of observations made on the night specified. The observatory coordinates are Longitude 13°42'06" East, Latitude 52°46'48" North, Altitude 50 meters.

	UT	RA (1950.0)	Dec
1509 Esclangona	1990 02 19.913194	06 26 55.475	+09 47 48.10
1509 Esclangona	1990 02 20.931944	06 26 52.454	+09 39 48.73
1509 Esclangona	1990 02 23.888888	06 26 59.997	+09 17 40.40
1509 Esclangona	1990 02 24.904861	06 27 07.545	+09 10 26.04
1580 Betulia	1989 05 08.099305	17 04 54.606	+60 59 25.46
1629 Pecker	1989 03 06.069444	11 21 31.292	+15 03 46.37
1629 Pecker	1989 03 07.034027	11 20 40.704	+15 15 24.19
1917 Cuyo	1989 10 04.902777	20 43 23.099	-06 33 22.30
1917 Cuyo	1989 10 04.916666	20 43 26.855	-06 35 32.22
1917 Cuyo	1989 10 05.845949	20 48 10.146	-09 14 23.24
1917 Cuyo	1989 10 05.852893	20 48 12.353	-09 15 35.25
2001 Einstein	1989 02 09.028333	08 53 07.702	+51 21 16.03
2001 Einstein	1989 02 10.072222	08 50 53.918	+51 10 17.04
2001 Einstein	1989 03 05.918750	08 16 19.341	+44 34 49.32
3040 Kozai	1989 03 06.013888	10 29 14.917	+39 55 37.59
3040 Kozai	1989 03 06.979166	10 27 56.351	+40 29 09.52
3043 San Diego	1989 03 06.092361	10 55 08.865	+13 44 36.05
3043 San Diego	1989 03 07.002083	10 53 37.724	+13 40 24.82
3043 San Diego	1989 03 10.036111	10 48 39.600	+13 25 40.63
3119 Dobronravin	1989 02 08.993055	08 38 24.963	+21 15 54.74
3119 Dobronravin	1989 02 10.001666	08 37 36.031	+21 20 23.83
3398 1978 PC	1989 12 27.001388	05 46 35.039	+49 27 03.82
3398 1978 PC	1989 12 27.048611	05 46 29.601	+49 27 58.50
3410 1978 S27	1990 02 24.006944	10 50 14.629	+07 38 03.98
3410 1978 S27	1990 02 24.054861	10 50 11.591	+07 38 11.76
3410 1978 S27	1990 02 24.945139	10 49 15.540	+07 40 40.76
3410 1978 S27	1990 02 24.954861	10 49 14.881	+07 40 42.58
3410 1978 S27	1990 02 25.020833	10 49 10.620	+07 40 53.73
3410 1978 S27	1990 03 23.926388	10 23 40.459	+08 41 17.7
3410 1978 S27	1990 03 23.993750	10 23 37.637	+08 41 22.30
3629 1982 WK	1989 09 24.904166	23 19 05.730	+05 01 18.39
4179 1989 AC	1989 01 25.813194	05 56 10.643	+23 07 02.60
4179 1989 AC	1989 01 26.908333	05 59 56.773	+23 09 18.07
4197 1982 TA	1989 10 04.983333	00 37 30.395	+05 07 44.59
4197 1982 TA	1989 10 04.998263	00 37 28.570	+05 07 39.50
1967 DB	1990 03 23.955555	11 28 03.618	+18 02 35.59
1967 DB	1990 03 24.006250	11 28 01.337	+18 03 01.17
1989 OB	1989 08 25.947916	21 28 53.929	+12 05 31.80
1989 OB	1989 08 25.961805	21 28 53.977	+12 06 07.48
1989 OB	1989 08 30.916666	21 30 45.621	+15 20 52.39
1989 OB	1989 08 30.938888	21 30 46.099	+15 21 40.59
1989 OB	1989 08 30.958333	21 30 46.728	+15 22 30.87
1989 OB	1989 08 30.979166	21 30 46.938	+15 23 07.44
1989 OB	1989 09 04.923611	21 33 41.750	+18 31 32.69
1989 OB	1989 09 04.944444	21 33 42.039	+18 32 08.59
1989 PB	1989 08 23.965280	00 51 34.810	+46 01 57.30

Planet	1989 UT	RA (1950.0)	Dec	N	Mag
3	01 28 23.33	10 ^h 24 ^m 06. ^s	+01°04'19"	4	
6	01 26 21.41	08 20 35.4	+13 37 02	3	
6	02 10 20:57	08 06 50.0	+16 02 39	4	
6	02 20 21:10	08 00 07.4	+17 29 37	1	
6	03 06 20:55	07 55 17.9	+19 08 23	4	
6	03 09 19:32	07 55 02.3	+19 26 05	3	
7	02 04 22:31	09 25 09.9	+06 27 38	4	
7	02 10 21:19	09 18 50.7	+06 50 29	4	
7	03 06 21:13	08 58 42.0	+08 34 10	3	
7	03 07 20:08	08 58 11.8	+08 43 31	3	
7	03 09 18:52	08 57 14.7	+08 45 40	5	
8	02 11 22:12	11 28 37.5	+11 11 46	2	
8	03 07 20:56	11 05 31.6	+14 38 35	2	
8	03 09 20:23	11 04 32.1	+14 45 47	6	
11	09 05 22:17	23 34 40.3	-08 51 39	2	9.3
12	08 25 21:57	22 12 47.7	+07 54 29	3	8.8
12	08 29 21:41	22 09 42.9	+07 28 24	2	8.8
12	09 05 21:40	22 04 40.8	+06 55 53	3	8.9
12	09 07 21:36	22 03 23.4	+06 13 03	3	8.9
12	09 29 20:42	21 56 33.6	+02 58 07	3	9.4
12	10 20 20:33	22 03 51.8	+00 32 08	4	10.0
15	08 25 22:11	22 02 57.6	+02 23 54	3	7.9
15	09 05 21:57	21 52 28.7	+02 15 26	3	8.1
30	09 30 22:47	01 05 10.4	+10 59 12	3	9.8
30	10 20 21:43	00 47 12.8	+09 13 28	3	9.7
51	03 10 22:14	11 41 53.1	+01 01 30	3	
52	03 07 21:31	11 45 03.3	+09 55 17	4	
79	09 05 21:13	23 20 53.6	+01 42 49	3	10.2
79	09 29 21:08	23 02 07.2	-01 23 38	3	10.2
230	09 30 23:49	02 43 36.8	+23 56 13	3	10.6
747	10 27 23:31	04 10 25.8	-13 06 21	3	10.3
980	08 29 21:16	21 12 28.1	+04 19 51	4	10.6
980	08 31 21:37	21 10 46.4	+04 20 03	3	10.7