REDUCTION TO HIPPARCOS AND FK6(LONG TERM) 2025

FOR MEAN EPOCH AND EQUINOX 2025.5

FK6-No.	HIP-No.	Hipparcos – FK6 (SI)				FK6: LTP – SI			
		$\Delta\alpha$	$\Delta\mu_\alpha$	$\Delta\delta$	$\Delta\mu_\delta$	$\Delta\alpha$	$\Delta\mu_\alpha$	$\Delta\delta$	$\Delta\mu_\delta$
10	1599	10.5	0.3	11.3	0.3	-16.4	-0.5	-10.7	-0.3
22	3419	-15.8	-0.5	6.2	0.2	2.0	0.0	-5.0	-0.1
44	5661	4.3	0.1	8.6	0.3	-6.2	-0.1	-13.1	-0.3
80	10642	43.0	1.3	-0.6	0.0	-3.9	-0.1	-0.5	0.1
110	14240	4.5	0.1	14.0	0.4	-20.7	-0.6	-17.7	-0.6
119	15510	-5.9	-0.2	0.2	0.0	20.6	0.4	4.1	0.0
120	15863	-1.5	0.0	-28.7	-0.8	-6.7	-0.2	8.3	0.2
153	19095	-5.6	-0.2	16.7	0.5	8.9	0.2	-0.1	-0.3
173	22361	27.9	0.8	20.1	0.6	-37.7	-0.8	-10.9	-0.3
201	25336	-13.1	-0.4	-37.8	-1.1	-10.2	-0.1	-5.5	0.1
203	25769	12.1	0.4	8.5	0.2	-5.6	-0.2	-2.6	-0.1
210	26311	2.6	0.1	15.6	0.4	0.3	0.0	-2.7	-0.1
223	27628	-1.8	-0.1	4.0	0.1	3.1	0.0	-12.1	-0.2
243	30324	11.0	0.3	-16.8	-0.5	-12.4	-0.2	5.3	0.1
245	30438	23.2	0.7	13.6	0.4	-2.1	-0.3	-4.4	-0.2
254	32246	-50.6	-1.5	-21.0	-0.6	-1.5	0.0	-4.1	-0.1
306	39429	-12.2	-0.4	13.0	0.4	9.2	0.3	-13.8	-0.4
323	42452	-6.8	-0.2	-32.1	-0.9	-1.8	-0.1	16.2	0.5
348	45238	79.9	2.3	27.4	0.8	-69.4	-1.6	-18.1	-0.7
354	46390	13.5	0.4	-15.8	-0.5	12.7	0.1	-10.3	-0.1
363	47594	4.7	0.1	21.7	0.6	11.1	0.2	-9.5	-0.3
422	54872	11.4	0.3	-17.6	-0.5	-21.8	-0.2	3.2	0.1
423	54879	31.0	0.9	-21.5	-0.6	-12.7	-0.2	0.4	0.1
426	55282	-16.5	-0.5	-8.6	-0.2	-5.5	0.0	3.2	0.1
455	59747	-8.8	-0.3	-11.7	-0.3	7.8	0.3	15.2	0.4
464	60823	-10.4	-0.3	-1.0	0.0	17.4	0.4	-5.3	-0.1
468	61084	-1.7	0.0	-11.2	-0.3	-10.3	-0.2	27.4	0.6
479	62131	-28.4	-0.8	3.2	0.1	12.4	0.4	14.6	0.4
509	67301	45.2	1.3	-44.6	-1.3	-17.5	-0.4	36.8	0.4
529	70069	13.3	0.4	-2.0	-0.1	-21.3	-0.7	3.6	0.1
560	74946	13.9	0.4	-6.5	-0.2	-41.4	-1.2	8.8	0.3
564	74785	28.1	0.8	-25.7	-0.7	10.8	0.1	5.2	0.1
588	77622	21.1	0.6	-5.2	-0.1	2.7	0.0	22.9	0.2
603	79593	-16.1	-0.5	30.6	0.9	-2.0	0.0	11.6	0.1
622	81377	22.5	0.7	-4.4	-0.1	-4.7	-0.1	-1.4	0.0
625	82273	-13.1	-0.4	24.5	0.7	4.8	0.2	-14.1	-0.4
635	83613	16.8	0.5	13.5	0.4	-12.8	-0.2	15.6	0.1
660	86670	1.0	0.0	-16.5	-0.5	-2.0	0.0	9.9	0.3
671	87585	25.7	0.7	14.3	0.4	-12.4	-0.3	-7.1	-0.2
691	90422	-0.3	0.0	9.1	0.3	-4.8	-0.1	-5.1	-0.4

Units: $0\overset{s}{.}0001$ for $\Delta\alpha$ $0\overset{s}{.}0001/yr$ for $\Delta\mu_\alpha$

$0\overset{''}{.}001$ for $\Delta\delta$ $0\overset{''}{.}001/yr$ for $\Delta\mu_\delta$

REDUCTION TO HIPPARCOS AND FK6(LONG TERM) 2025

FOR MEAN EPOCH AND EQUINOX 2025.5

FK6-No.	HIP-No.	Hipparcos – FK6 (SI)				FK6: LTP – SI			
		$\Delta\alpha$	$\Delta\mu_\alpha$	$\Delta\delta$	$\Delta\mu_\delta$	$\Delta\alpha$	$\Delta\mu_\alpha$	$\Delta\delta$	$\Delta\mu_\delta$
699	91262	-19.8	-0.6	27.4	0.8	-26.5	-0.2	-47.6	-0.4
700	90647	84.8	2.5	-26.6	-0.8	-38.4	-1.2	9.3	0.3
725	94834	-15.4	-0.4	-19.6	-0.6	-3.3	0.0	2.1	0.1
748	98495	2.3	0.1	9.2	0.3	3.4	-0.3	-12.4	-0.4
777	102098	-6.9	-0.2	14.9	0.4	1.1	0.0	-2.6	-0.1
855	112029	-2.9	-0.1	18.3	0.5	5.5	0.1	-7.7	-0.1
1039	6732	-11.2	-0.3	-6.5	-0.2	-4.5	0.0	-11.1	-0.1
1045	7513	-11.9	-0.4	14.6	0.4	-6.2	0.0	-7.8	-0.3
1116	19513	16.6	0.5	-28.3	-0.8	-4.7	-0.1	4.4	0.2
1166	29134	-1.9	-0.1	0.0	0.0	7.6	0.2	-1.6	0.0
1260	49339	4.4	0.1	54.0	1.6	4.2	0.0	-19.0	-0.5
1275	52098	7.7	0.2	-11.6	-0.3	-0.1	0.0	1.6	0.1
1307	57939	12.3	0.4	14.3	0.4	-21.0	-0.3	24.2	0.1
1357	67057	-6.7	-0.2	-7.9	-0.2	2.4	0.1	1.0	0.1
1396	73996	-4.2	-0.1	10.1	0.3	-5.9	-0.1	-27.8	-0.3
1456	84862	-4.1	-0.1	16.1	0.5	-2.9	0.0	-7.2	-0.2
1517	97290	0.0	0.0	-5.8	-0.2	-1.2	0.0	5.1	0.1
1533	101101	14.6	0.4	-15.0	-0.4	-5.7	-0.1	14.4	0.2
1546	102978	17.7	0.5	-43.9	-1.3	-4.3	-0.1	12.4	0.4
1577	108036	36.1	1.1	25.1	0.7	-3.8	-0.1	-14.3	-0.3
1644	72573	89.2	2.6	-7.5	-0.2	-48.7	-2.2	1.7	0.1
1662	30678	-134.8	-4.0	0.5	0.0	165.7	3.1	1.8	0.0
1666	76996	89.8	2.7	24.1	0.7	-152.7	-4.4	-16.0	-0.5

Units: $0^s.0001$ for $\Delta\alpha$ $0^s.0001/yr$ for $\Delta\mu_\alpha$

$0''.001$ for $\Delta\delta$ $0''.001/yr$ for $\Delta\mu_\delta$

Polaris (FK6 star No. 907) is not included in the list above because it is a double star. In the following table we give for Polaris the corrections from the apparent position based on the FK6 (see p. 26 and 27 of this publication) to the corresponding position based on the HIPPARCOS catalogue for the first day of each month. The corrections for intermediate days may be obtained by interpolation. The HIPPARCOS apparent place is obtained by adding the tabulated data to the FK6-position.

Reduction to HIPPARCOS for Polaris, 2025

Day	Month	Year	$\Delta\alpha[0^s.001]$	$\Delta\delta[0''.001]$
1	1	2025	736	85
1	2	2025	738	86
1	3	2025	736	87
1	4	2025	733	87
1	5	2025	731	87
1	6	2025	731	86
1	7	2025	731	86
1	8	2025	734	86
1	9	2025	740	84
1	10	2025	747	84
1	11	2025	754	83
1	12	2025	760	83
1	1	2026	764	83