REDUCTION TO HIPPARCOS AND FK6(LONG TERM) 2024

FOR MEAN EPOCH AND EQUINOX 2024.5

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	10.2	0.3	11.0	0.3	-15.9	-0.5	-10.4	-0.3
22	3419	-15.3	-0.5	6.0	0.2	2.0	0.0	-5.0	-0.1
44	5661	4.2	0.1	8.4	0.3	-6.1	-0.1	-12.8	-0.3
80	10642	41.7	1.3	-0.6	0.0	-3.8	-0.1	-0.6	0.1
110	14240	4.4	0.1	13.6	0.4	-20.1	-0.6	-17.1	-0.6
119	15510	-5.8	-0.2	0.2	0.0	20.2	0.4	4.1	0.0
120	15863	-1.5	0.0	-27.8	-0.8	-6.6	-0.2	8.1	0.2
153	19095	-5.4	-0.2	16.3	0.5	8.7	0.2	0.2	-0.3
173	22361	27.0	0.8	19.5	0.6	-36.9	-0.8	-10.6	-0.3
201	25336	-12.7	-0.4	-36.8	-1.1	-10.1	-0.1	-5.6	0.1
203	25769	11.8	0.4	8.2	0.2	-5.5	-0.2	-2.5	-0.1
210	26311	2.5	0.1	15.1	0.4	0.3	0.0	-2.6	-0.1
223	27628	-1.7	-0.1	3.9	0.1	3.0	0.0	-11.9	-0.2
243	30324	10.7	0.3	-16.3	-0.5	-12.3	-0.2	5.2	0.1
245	30438	22.5	0.7	13.2	0.4	-1.7	-0.3	-4.2	-0.2
254	32246	-49.1	-1.5	-20.4	-0.6	-1.5	0.0	-4.0	-0.1
306	39429	-11.8	-0.4	12.6	0.4	8.9	0.3	-13.4	-0.4
323	42452	-6.6	-0.2	-31.1	-0.9	-1.7	-0.1	15.7	0.5
348	45238	77.5	2.3	26.6	0.8	-67.7	-1.6	-17.4	-0.7
354	46390	13.1	0.4	-15.3	-0.5	12.6	0.1	-10.2	-0.1
363	47594	4.6	0.1	21.1	0.6	10.9	0.2	-9.3	-0.3
422	54872	11.0	0.3	-17.1	-0.5	-21.6	-0.2	3.1	0.1
423	54879	30.1	0.9	-20.8	-0.6	-12.5	-0.2	0.3	0.1
426	55282	-16.0	-0.5	-8.4	-0.2	-5.5	0.0	3.2	0.1
455	59747	-8.6	-0.3	-11.4	-0.3	7.6	0.3	14.8	0.4
464	60823	-10.1	-0.3	-1.0	0.0	17.0	0.4	-5.2	-0.1
468	61084	-1.6	0.0	-10.9	-0.3	-10.1	-0.2	26.8	0.6
479	62131	-27.6	-0.8	3.1	0.1	12.0	0.4	14.2	0.4
509	67301	43.9	1.3	-43.3	-1.3	-17.1	-0.4	36.4	0.4
529	70069	12.9	0.4	-2.0	-0.1	-20.7	-0.7	3.4	0.1
560	74946	13.5	0.4	-6.3	-0.2	-40.2	-1.2	8.5	0.3
564	74785	27.2	0.8	-25.0	-0.7	10.8	0.1	5.1	0.1
588	77622	20.5	0.6	-5.1	-0.1	2.8	0.0	22.6	0.2
603	79593	-15.6	-0.5	29.7	0.9	-1.9	0.0	11.5	0.1
622	81377	21.8	0.7	-4.3	-0.1	-4.6	-0.1	-1.4	0.0
625	82273	-12.7	-0.4	23.8	0.7	4.6	0.2	-13.7	-0.4
635	83613	16.3	0.5	13.1	0.4	-12.6	-0.2	15.4	0.1
660	86670	1.0	0.0	-16.0	-0.5	-2.0	0.0	9.5	0.3
671	87585	24.9	0.7	13.9	0.4	-12.1	-0.3	-6.9	-0.2
691	90422	-0.3	0.0	8.9	0.3	-4.6	-0.1	-4.7	-0.4

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

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

REDUCTION TO HIPPARCOS AND FK6(LONG TERM) 2024
FOR MEAN EPOCH AND EQUINOX 2024.5

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	-19.3	-0.6	26.6	0.8	-26.3	-0.2	-47.2	-0.4
700	90647	82.3	2.5	-25.8	-0.8	-37.1	-1.2	9.0	0.3
725	94834	-14.9	-0.4	-19.0	-0.6	-3.3	0.0	2.0	0.1
748	98495	2.2	0.1	9.0	0.3	3.6	-0.3	-11.9	-0.4
777	102098	-6.7	-0.2	14.5	0.4	1.0	0.0	-2.5	-0.1
855	112029	-2.8	-0.1	17.7	0.5	5.4	0.1	-7.5	-0.1
1039	6732	-10.9	-0.3	-6.3	-0.2	-4.5	0.0	-11.0	-0.1
1045	7513	-11.5	-0.4	14.1	0.4	-6.3	0.0	-7.5	-0.3
1116	19513	16.1	0.5	-27.5	-0.8	-4.5	-0.1	4.1	0.2
1166	29134	-1.8	-0.1	0.0	0.0	7.4	0.2	-1.6	0.0
1260	49339	4.2	0.1	52.4	1.6	4.2	0.0	-18.5	-0.5
1275	52098	7.5	0.2	-11.2	-0.3	-0.1	0.0	1.5	0.1
1307	57939	11.9	0.4	13.9	0.4	-20.7	-0.3	24.1	0.1
1357	67057	-6.5	-0.2	-7.7	-0.2	2.4	0.1	1.0	0.1
1396	73996	-4.1	-0.1	9.8	0.3	-5.8	-0.1	-27.5	-0.3
1456	84862	-4.0	-0.1	15.6	0.5	-2.9	0.0	-7.1	-0.2
1517	97290	0.0	0.0	-5.6	-0.2	-1.2	0.0	5.0	0.1
1533	101101	14.1	0.4	-14.6	-0.4	-5.6	-0.1	14.1	0.2
1546	102978	17.2	0.5	-42.6	-1.3	-4.1	-0.1	12.0	0.4
1577	108036	35.1	1.1	24.4	0.7	-3.8	-0.1	-14.0	-0.3
1644	72573	86.6	2.6	-7.3	-0.2	-46.5	-2.2	1.7	0.1
1662	30678	-131.0	-4.0	0.5	0.0	162.3	3.1	1.8	0.0
1666	76996	87.3	2.7	23.4	0.7	-148.3	-4.4	-15.5	-0.5

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

$0''.001$ for $\Delta\delta$ $\quad$ $0''.001/yr$ 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, 2024

Day	Month	Year	$\Delta\alpha[0^s.001]$	$\Delta\delta[0''.001]$
1	1	2024	712	87
1	2	2024	712	88
1	3	2024	712	88
1	4	2024	709	88
1	5	2024	706	88
1	6	2024	705	88
1	7	2024	706	88
1	8	2024	709	87
1	9	2024	714	86
1	10	2024	720	86
1	11	2024	726	85
1	12	2024	732	85
1	1	2025	737	85