

Version 2 of the HIPPARCOS Input Catalogue

C. Turon, M. Crézé, D. Egret, A. Gomez, M. Grenon, H. Jahreiss, Y. Requieme, A. N. Argue, A. Bec-Borsenberger, J. Dommanget, et al.

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Version 2 of the Hipparcos Input Catalogue

C. Turon[1], M. Crézé, D. Egret, A. Gómez, M. Grenon, H. Jahreiß, Y. Réquième, A.N. Argue, A. Bec-Borsenberger, J. Dommanget, M.O. Mennessier, F. Arenou, M. Chareton, F. Crifo, J.C. Mermilliod, D. Morin, B. Nicolet, O. Nys, L. Prévot, M. Rousseau, M.A.C. Perryman, *et al.*[2]

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1. Data

1.1 B1950 positions

An error was found in the transformation from positions J2000 to positions B1950, which leads to erroneous B1950 positions for some stars of the Hipparcos Input Catalogue.

Version 2 of the Hipparcos Input Catalogue, now available from the CDS, includes correct B1950 positions.

1.2 Photometry

For 47 stars, B-V were erroneously given as 0.000, with a $\sigma(B-V) = 0.020$. The correct values are included in this version.

1.3 Radial velocities

A few errors in the radial velocities were drawn to our attention by M.A. Flucks, (University of Amsterdam) and K. Ratnatunga (STScI). Their lists are given below:

Dummy velocities were given to 8 stars: HIC 33165, 33953, 75377, 99377, 99525, 99546, 99769, 99982. No radial velocities are available for these stars.

HIC	instead of		read	
	v_R	QS	v_R	QS
3781	+ 9.5	aE	- 9.5	aE
23691	+716.0	E	+72.0	X
24118	+ 0.0	E	+ 9.3	X
25766	+519.0	bE	+51.9	X
43392	+ 0.0	bE	+23.4	X

A quality 'F' was erroneously given to 7 stars: HIC 9960, 18350, 26064, 27896, 42831, 88848, and 101226. No quality is available for the radial velocities of these stars (acknowledgements are due to S. Nishimura, Astronomical Data Center of Japan).

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2. Identifications

2.1 Main catalogue

A few errors in the cross-identifications were drawn to our attention by users (S. Nishimura and M. Rousseau, Observatoire de Bordeaux are specially acknowledged here). Their list is given below:

HIC	for	read	add
21244	BD −23 2011	CD −23 2011	CPD−23 569
67971	CPD−23 11366	CD −23 11366	CPD−23 5812
73727	CPD−53 6212	CPD−53 6233	
77086	CPD−41 7223	CPD−41 7323	CD −41 10245
88245	CD −42 12433	CD −42 12733	CPD−42 8170
95417	BD −22 13916	CD −22 13916	
96107	BD −22 14037	CD −22 14037	CPD−23 7511
96667	BD +17 5699	BD −17 5699	
110101	BD −22 15834	CD −22 15834	CPD−22 8182

In addition: HIC 107156 is not SS Cyg. The correct J2000 coordinates of this star are: 21h 42m 42.6s, +43° 35' 9" (at θ = 75° and ρ = 252 arcsec from the star indicated on the corresponding identification chart).

2.2 Annex on Double and Multiple systems

For 960 components, a 'pseudo-IDS number' (working numbers) was erroneously kept in version 1. All of these have been suppressed from the present version.

This catalogue is available at the CDS under reference 1196.

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