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## The stellar content of the young open cluster Trumpler 37

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With an apparent cluster diameter of  $1.5^\circ$  and an age of  $\sim 4$  Myr, Trumpler 37 is an ideal target for photometric monitoring of young stars as well as for the search of planetary transits, eclipsing binaries and other sources of variability. The YETI consortium has monitored Trumpler 37 throughout 2010 and 2011 to obtain a comprehensive view of variable phenomena in this region. In this first paper we present the cluster properties and membership determination as derived from an extensive investigation of the literature. We also compared the coordinate list to some YETI images. For 1872 stars we found literature data. Among them 774 have high probability of being member and 125 a medium probability. Based on infrared data we re-calculate a cluster extinction of  $0.9 - 1.2$  mag. We can confirm the age and distance to be  $3 - 5$  Myr and  $\sim 870$  pc. Stellar masses are determined from theoretical models and the mass function is fitted with a power-law index of  $\alpha = 1.90$  ( $0.1 - 0.4 M_\odot$ ) and  $\alpha = 1.12$  ( $1 - 10 M_\odot$ ).

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### 1 Introduction: Trumpler 37

Trumpler 37 is a young open cluster in the Cepheus OB2 region. Based on optical spectroscopy and photometry, and main sequence fitting, Contreras et al. (2002) derived a distance of about 870 pc. The latest age estimation yields  $\sim 4$  Myr (Kun, Kiss & Balog 2008, Sicilia-Aguilar 2005), using also optical spectroscopy and photometry for comparison to theoretical isochrones. Thereby the average extinction was measured to be  $A_V = 1.56 \pm 0.55$  mag. Mercer et al. (2009) found an average extinction in the central re-

gion of  $A_V \sim 1.3$  mag. Several studies were devoted to distinguish between members and foreground or background stars.

The first classification as a cluster was done by Trumpler (1930), who used the brightness and spectral types of the stars to derive their distance moduli. This resulted in a cluster distance of 670 to 890 pc. Similar work was done by Simonson (1968), and Garrison & Kormendy (1976), who both obtained a distance of 1000 pc. The stars in young clusters are expected to display common space velocities which surpass their random movements. Therefore, studying the kinematics of a stellar aggregate allows calculating the membership probability. Marschall & van Altena (1987) measured the proper motions while Sicilia-Aguilar et al.

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(2006b) determined the radial velocities to infer members of Trumpler 37.

Young clusters offer additional membership tracers which use particular signs of star formation to discriminate young stellar objects from older field stars. A prominent property of young stars is their photometric variability due to spots or accretion. Giesekeing (1976), Sicilia-Aguilar et al. (2004) and Morales-Calderón et al. (2009) applied this technique to Trumpler 37. The youth of stars and therefore high membership probability can also be derived from lithium absorption (Sicilia-Aguilar et al. 2004, 2005), because most of the primordial lithium is depleted after a few Myr (e.g. Piau & Turck-Chièze 2002). A useful tracer for disk accretion is H $\alpha$  emission. This behavior was employed by Kun (1986), and Kun & Pasztor (1990) to find cluster members. Infrared excess in the spectral energy distribution is a hint for circumstellar disks and therefore another indicator for youth (Sicilia-Aguilar et al. 2006a). The variability of young stars which are still embedded in a dark cloud can be studied in the infrared (Morales-Calderón 2009). Likewise, they show enhanced X-ray emission due to higher activity. This was used by Mercer et al. (2009) to investigate membership in Trumpler 37.

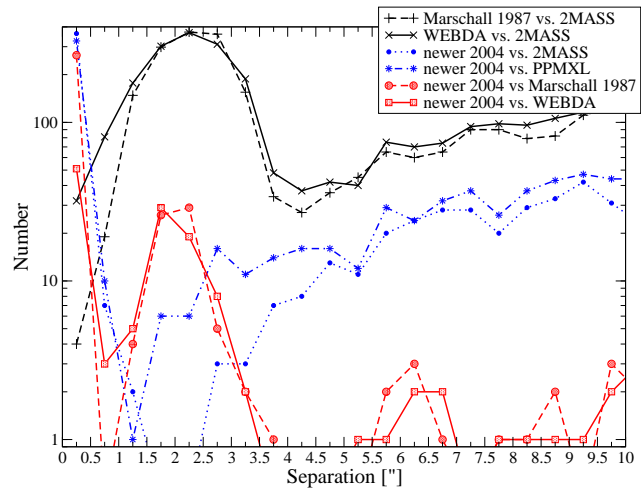
The YETI (*Young Exoplanet Transit Initiative*) consortium was established, to monitor young clusters like Trumpler 37 in a continuous way (see Neuhäuser et al. 2011). The consortium consists of 0.4 to 2 m sized telescopes, which are located at different longitudes all over the world. Data from the Jena 90/60 cm Schmidt telescope, from the Xinglong 90 cm telescope, and from the Rozhen 60 cm telescopes were used for this work. The big fields of view of Jena (53'x53') and Xinglong (94'x94') covered the largest areas of Trumpler 37, while the 2x2 mosaic of the Rozhen 60 cm telescope provides a good resolution (0.53''/px).

The main motivation for this paper is to present a comprehensive view of the properties of Trumpler 37, by collating information scattered throughout the literature, compiling the most complete list available of stars in the field of the cluster from various existing astrometric and photometric sources, assessing their individual membership using a suite of kinematic and astrophysical criteria, and deriving additional properties of the cluster including the mass distribution. This will provide the basic framework for extensive variability studies of members of Trumpler 37 that are currently underway within the YETI project.

## 2 Data collection

We combined the data from several publications and databases: Marschall & van Altena (1987), Contreras et al. (2002), Sicilia-Aguilar et al. (2004, 2005, 2006a, 2006b), Mercer et al. (2009), Morales-Calderón (2009) and the WEBDA<sup>1</sup> database. The WEBDA catalog contains the data on Trumpler 37 from publications before the year 2000. One

<sup>1</sup> <http://www.univie.ac.at/webda/>



**Fig. 1** The measured minimal separation between stars of two catalogs, resulting in bimodal distributions to find the maximum allowable separation. The comparison of the coordinates from literature after 2004 with WEBDA and Marschall & van Altena (1987) (red filled circles and squares) results in an optimized search radius of  $\leq 4.5''$ . This is also the best search radius, when comparing the later positions to 2MASS (black + and x). For the catalogs after 2004 the coordinates are more accurate, which results in optimal search radii of  $\leq 1.5''$  (blue dots and stars).

has to take into account the fact that all observations and publications deal with biased samples, either because only brighter stars are included or because they include only a selected subset of the stars, e.g. late-type stars or those showing photometric variability over limited time scales, band passes, and/or magnitude ranges.

Additional information was added from the Two-Micron All Sky Survey Point Source Catalog (2MASS PSC, Skrutskie et al. 2006). If two 2MASS sources were located next to the star, the literature data were connected to both of the 2MASS sources, resulting in two entries for them. Probably, the other data, like the optical brightness, of the two close stars are unresolved in these cases. Furthermore, the proper motion catalogs UCAC3 (Zacharias et al. 2010), and PPMXL (Roesser, Demleitner & Schilbach 2010) were attached to the 2MASS positions. PPMXL was more complete than UCAC3.

We used the J2000 coordinates as given in the literature for the cross correlation. The B1950 coordinates were transformed in J2000 for WEBDA and Marschall & van Altena (1987), using the proper motion from the latter publication, if available.

The cross correlation of coordinates from two different catalogs results in bimodal distributions (see Fig. 1 for some examples) in the separation (as minimum between two peaks). We therefore used two criteria for identifying stars in different tables: a  $4.5''$  search radius was used if at least one of the coordinate sets was created before 2004; otherwise a  $1.5''$  search radius was used for comparison of

more recently obtained pairs of coordinate measurements. A search radius of  $2.0''$  was used for adding 2MASS, PPMXL and UCAC3 to the catalogs after 2004. Additionally, the identifiers are used to check the correct entries, if available. We also compared brightness measurements from different data sources to check the plausibility of our cross-identifications. But the latter method was limited due to different photometric sources and variability of the stars.

We compared the coordinate lists also with data taken with the telescopes in the YETI network. The used images were taken on 2009 July 25 with the Jena telescope, and on 2010 August 5 and 6 with the Xinglong and Rozhen telescopes, respectively. The images were reduced in a standard way (bias, dark and flat-field correction) and were astrometrically calibrated, using the program *GAIA*<sup>2</sup>. No galaxies were found during the inspection of the images.

We found and corrected a few problems, which are all marked in Table 1:

- Some stars with the same position got two entries: in the WEBDA database and in one case in the Sicilia-Aguilar et al. publications. These data were combined into one entry in our table and marked with footnotes.
- The positions were in some cases imprecise. This was the case for the declination as given by Contreras et al. (2002) and for WEBDA entries. The discrepancy in the first one was up to  $10''$  using the identifiers and magnitudes.
- The star position in the finding chart and the catalog position did not match in some cases for the stars from Marschall & van Altena (1987). In the most cases we were able to fix the catalog entry. In our list they are marked with “new coordinates”. If no star is visible at the new position it is marked with “no star”.
- Additionally, when we plotted the stars from Marschall & van Altena (1987) in the YETI images, we found for some stars no or only a very faint star in our observation. We annotated these ‘missing’ stars in our table as “no/faint star” or “no star”. If these stars are true objects, detected by Marschall & van Altena (1987) on the plates from both 1937 and 1973, they disappeared by becoming much fainter or being very variable. Objects detected on only one epoch (either 1937 or 1973) could also be very fast moving objects, in which case they probably are foreground objects, not cluster members.

The literature data are given in Table 1 and partly in Table 2 (Columns 2 to 10).

<sup>2</sup> <http://star-www.dur.ac.uk/~pdraper/gaia/gaia.html>

**Table 1** Literature data for stars in Trumpler 37

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	<i>A<sub>v</sub></i>	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	Comments
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004	mag	mag	mag	mag	mag	mag	mag	mag		mag	PPMXL	mas/yr	UCAC3	mas/yr	MVA [j]		
1	21:36:46.57	57:11:25.4 <sup>F</sup>	2	3002				14.7 <sup>j</sup>			11.532 (24)	10.787 (28)	10.583 (20) <sup>F</sup>			-3.2 (4.1)	-2.4 (4.1)	-11.3 (6.8)	0.1 (6.8)			
2	21:36:44.78	57:11:53.0 <sup>F</sup>	3	3003				13.9 <sup>j</sup>			12.647 (27)	12.547 (37)	12.452 (29) <sup>F</sup>			-10.4 (4.1)	2.2 (4.1)	-30.9 (6.8)	12.1 (6.8)	-0.17	0.05	
3	21:36:42.64	57:13:01.0 <sup>F</sup>	4	3004				13.3 <sup>j</sup>			11.880 (27)	11.530 ( )	11.445 ( ) <sup>F</sup>							3.15	-4.9	
4	21:36:20.30	57:12:55.9 <sup>F</sup>	5	3005				13.6 <sup>j</sup>			11.562 (26)	11.227 (28)	11.101 (20) <sup>F</sup>			-8.2 (4.1)	1.9 (4.1)	-11.9 (6.8)	6.6 (6.8)	0.13	-0.23	
5	21:36:29.82	57:12:48.0 <sup>j</sup>	6	3006				14.6 <sup>j</sup>														no/faint star
6	21:36:41.77	57:13:40.8 <sup>F</sup>	7	3007				13.9 <sup>j</sup>			10.779 (26)	10.051 (27)	9.849 (23) <sup>F</sup>			-0.3 (5.1)	5.3 (5.1)	-8.2 (7.1)	41.1 (7.2)	0.01	0.75	
7	21:36:40.66	57:13:39.2 <sup>F</sup>	8	3008				15 <sup>j</sup>			12.718 (28)	12.333 (41)	12.227 (29) <sup>F</sup>			-19.4 (4.1)	-6.3 (4.1)	-70.6 (7.1)	-5.5 (7.1)			
8	21:36:46.12	57:12:53.3 <sup>F</sup>	9	3009				14.8 <sup>j</sup>			12.685 (26)	12.395 (30)	12.256 (25) <sup>F</sup>			-3.9 (4.1)	-10.2 (4.1)	-6.6 (6.8)	-29.3 (6.8)	0.1	-0.13	
9	21:36:47.04	57:13:01.7 <sup>F</sup>	10	3010				14.5 <sup>j</sup>			12.718 (26)	12.458 (31)	12.361 (25) <sup>F</sup>			2.7 (4.1)	7.3 (4.1)	5.2 (7.6)	13.9 (7.6)	-0.12	0.26	
10	21:36:50.76	57:12:41.4 <sup>F</sup>	11	3011				14.9 <sup>j</sup>			12.423 (31)	12.017 (32)	11.878 (25) <sup>F</sup>			-13 (4.1)	6.5 (4.1)	-23.2 (6.9)	28.7 (7)			
11	21:36:27.84	57:14:05.7 <sup>F</sup>	12	3012				14.9 <sup>j</sup>			11.658 (24)	11.039 (27)	10.860 (21) <sup>F</sup>			-37.1 (4.1)	-55.6 (4.1)	-32.8 (6.8)	-50.7 (6.8)			
12	21:36:32.90	57:14:20.1 <sup>F</sup>	13	3013				13.6 <sup>j</sup>			12.133 (28)	11.785 (37)	11.716 (28) <sup>F</sup>			-8.9 (4.1)	-18.9 (4.1)	1.6 (7)	-59.8 (7)	0.65	-0.37	
13	21:36:32.90	57:14:52.2 <sup>F</sup>	14	3014				13.4 <sup>j</sup>			11.662 (26)	11.384 (28)	11.279 (23) <sup>F</sup>			-6 (4.1)	0.4 (4.1)	-10.8 (6.8)	17.5 (6.8)	0.22	-0.28	
14	21:36:55.07	57:15:23.6 <sup>F</sup>	15	3015				13.8 <sup>j</sup>			12.213 (22)	11.835 (28)	11.769 (21) <sup>F</sup>			-0.1 (4.1)	11.4 (4.1)	-1.3 (6.8)	11.3 (6.8)	-0.85	1.14	
15	21:36:55.96	57:13:39.7 <sup>F</sup>	16	3016				14.8 <sup>j</sup>			10.627 (24)	9.679 (28)	9.406 (21) <sup>F</sup>			-3.6 (5.1)	-2.3 (5.1)	-13.7 (6.9)	1.6 (6.9)	0.32	0.17	
16	21:36:58.46	57:13:46.6 <sup>F</sup>	17	3017				15 <sup>j</sup>			12.959 (22)	12.565 (28)	12.481 (25) <sup>F</sup>			-3.4 (4.1)	9.5 (4.1)	0 (6.8)	7.7 (6.8)			
17	21:36:46.85	57:17:11.5 <sup>F</sup>	18	3018				15 <sup>j</sup>			12.827 (27)	12.484 (33)	12.370 (28) <sup>F</sup>			-2.6 (4.1)	3 (4.1)	3.6 (6.8)	9.8 (7)			
18	21:36:35.45	57:17:33.0 <sup>F</sup>	19	3019				14.3 <sup>j</sup>			12.236 (24)	11.890 (28)	11.817 (24) <sup>F</sup>			-10.1 (4.1)	2.5 (4.1)	-14.5 (7.4)	8.7 (7.4)	0.74	0.04	
19	21:36:30.67	57:19:25.5 <sup>F</sup>	20	3020				12.6 <sup>j</sup>			11.613 (24)	11.496 (31)	11.367 (23) <sup>F</sup>			-5.8 (4.1)	0.2 (4.1)	-5.1 (2.3)	-5.4 (2.1)	0.05	-0.43	
20	21:36:41.27	57:18:43.6 <sup>F</sup>	22	3022				14.5 <sup>j</sup>	16.13 <sup>l</sup>	14.53 <sup>i</sup>	11.284 (24)	10.614 (28)	10.357 (21) <sup>F</sup>			-6.3 (4.1)	-1.7 (4.1)	-18.3 (6.8)	0.3 (6.8)	0.39	-0.01	
21	21:36:46.24	57:18:47.6 <sup>F</sup>	23	3023		15.66 <sup>l</sup>	15.3 <sup>h</sup>	14.42 <sup>h</sup>	13.9	13.4 <sup>i</sup>	12.685 (26)	12.411 (31)	12.302 (26) <sup>F</sup>	F6 <sup>h</sup>	1.31 <sup>h</sup>	-7.4 (4.1)	-0.5 (4.1)	-0.9 (6.8)	6.8 (6.8)	0.25	0.06	Dec [h] imprec.
22	21:36:50.20	57:19:07.2 <sup>F</sup>	24	3024				14.4 <sup>j</sup>			8.750 (27)	7.551 (42)	7.140 (21) <sup>F</sup>			-4.6 (5.1)	0.9 (5.1)	-18.3 (6.7)	5 (6.7)			
23	21:36:50.49	57:18:15.0 <sup>F</sup>	25	3025				14.55 <sup>l</sup>			8.164 (23)	7.239 (34)	6.914 (31) <sup>F</sup>			-4.7 (13.8)	2.8 (13.8)	-1.8 (7.8)	0.8 (7.8)	-0.32	0.21	
24	21:37:00.18	57:18:27.1 <sup>F</sup>	26	445				11.8 <sup>j</sup>			11.102 (21)	10.989 (28)	10.930 (21) <sup>F</sup>	B8 <sup>q</sup>		-6.5 (13.3)	3.4 (13.3)	-4 (1.2)	-1.3 (1.1)	-0.35	0.32	
25	21:36:55.01	57:19:43.2 <sup>F</sup>	27	3027				14.7 <sup>j</sup>			12.806 (24)	12.394 (32)	12.264 (24) <sup>F</sup>			14.6 (4.1)	-2.7 (4.1)	10.2 (6.8)	-0.8 (6.8)			
26	21:37:01.56	57:19:47.3 <sup>F</sup>	28	3028				13.8 <sup>j</sup>			11.048 (22)	10.404 (28)	10.179 (21) <sup>F</sup>			5.1 (4.1)	9.7 (4.1)	14.7 (6.8)	15.4 (6.8)	-1.43	1.09	
27	21:37:08.60	57:18:03.3 <sup>F</sup>	29	3029				13.7 <sup>j</sup>			12.380 (21)	12.181 (27)	12.113 (24) <sup>F</sup>			-3.5 (4.1)	3.5 (4.1)	20 (6.8)	-8.4 (6.8)	0.12	0.14	
28	21:37:10.54	57:18:39.9 <sup>F</sup>	30	3030				14.7 <sup>j</sup>			11.413 (22)	10.619 (27)	10.465 (20) <sup>F</sup>			-5.6 (4.1)	1 (4.1)	-7.6 (6.8)	-6.1 (6.8)	-0.22	0.33	
29	21:36:34.30	57:20:53.6 <sup>F</sup>	31	3031				14.8 <sup>j</sup>			10.745 (22)	9.736 (29)	9.435 (21) <sup>F</sup>			-12 (5.1)	-1.1 (5.1)	-13.3 (6.8)	3 (6.9)			

plus 1862 stars in electronic table (at the end of the document: Table A1).

Remarks: The superscript letters behind the values indicate the source for the value:

[a] Morales-Calderón et al. (2009); [b] Mercer et al. (2009); [c] Sicilia-Aguilar et al. (2006b); [d] Sicilia-Aguilar et al. (2006a); [e] Sicilia-Aguilar et al. (2005); [f] Sicilia-Aguilar et al. (2004); [g] WEBDA (consists of Sicilia-Aguilar et al. (2004) and Morbidelli et al. (1997)); [h] Contreras et al. (2002) (used for photometry Marschall, Karshner & Comins (1990)); [i] Marschall et al. (1990); [j] Marschall & van Altena (1987) (*V* magnitudes from fitting instrumental magnitudes to photometry from Garrison & Kormendy (1976) and de Lichtbuer (1982)); [k] Kun (1986); [l] WEBDA (consists of Marschall et al. (1990), Garrison & Kormendy (1976), Simonson (1968) and other publications for few stars); [m] WEBDA (coordinate source); [n] WEBDA (consists of Marschall & van Altena (1987) and internal WEBDA information); [o] WEBDA (consists of 6 publications for 7 stars); [p] WEBDA (consists of Garrison & Kormendy (1976) and other publications for few stars); [q] WEBDA (consists of Alkansas (1958), Contreras et al. (2002), Sicilia-Aguilar et al. (2004), Balazs et al. (1996) and other publication for few stars); [r] 2MASS (Skrutskie et al. 2006). The different WEBDA tables were compiled from different literature, the main publications are given in brackets MVA, WEBDA and SHB-2004 are star numbers in papers [j]; [l]-[q]; and [c]-[f], [h], respectively. If data from different literature are available, the more recent one is given. Please note, that the *V* magnitude was measured from photographic plate, photoelectrical or with CCD, making comparison difficult. The source for *R* and *I* magnitude is the same (given after *I*) and the source for *J*, *H* and *K* magnitude is the same (given after *K*). Errors in *JHK*-photometry are given only, if the 2MASS quality flag is “A”, “B”, “C” or “D”, otherwise an empty parenthesis indicates uncertainties in the 2MASS photometry.

**Comments:** If two stars were located close to each other ( $< 5''$ ), the stars were marked with “near #”. “no star” or “no/faint star” means we were not able to find the star from Marschall & van Altena (1987) in our images (see also the text). “new coordinates” means, we changed the coordinates from Marschall & van Altena (1987) to match the position that was given in their finding chart (see also text). In cases of infrared data (Sicilia-Aguilar et al. 2006a), we were not able to see some stars in our optical images, resulting in comments “no opt. cp.” or “very faint opt. cp.” (opt. cp. standing for optical counterpart). Because Sicilia-Aguilar et al. (2004) used the earlier compilation of the 2MASS catalog (Cutrie et al. 2003) some stars get the comment “*JHK* in [f] different”. In case of two not distinguishable 2MASS sources near the star, the entry was duplicated in the consecutive row, so both sources were connected. The comment “2x[r]” was added and the fainter one marked. Probably, the other data from the literature, like optical brightness, is not resolved in this case. In Marschall & van Altena (1987) and the WEBDA database stars outside all YETI telescope fields of view (FoV) are marked with “outFoV”. In some cases stars with the same names (and properties) differ in the coordinates in different catalogs. The more reliable coordinate was used and in the comments “Dec [h] imprec.” or “[m] imprec.” was attached, meaning that problems occurred in Contreras et al. 2002 or the WEBDA database. In some entries the WEBDA entries were even wrong, resulting in “WEBDA wrong”.

Spectroscopic binaries were marked with “SB1” or SB2” as given in Sicilia-Aguilar et al. (2006b).

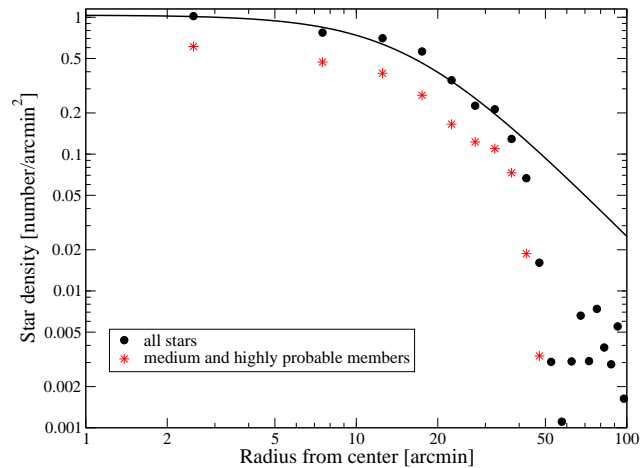
### 3 Membership determination

We established a three-level scale of probabilities of membership in Trumpler 37: high (h), medium (m), and low (l) based on the following data from the literature: lithium absorption (from Sicilia-Aguilar et al. 2004, 2005, 2006b),  $H\alpha$  emission (from Sicilia-Aguilar et al. 2004, 2005, 2006b), radial velocity (RV) (from Sicilia-Aguilar et al. 2006b, Contreras et al. 2002), mass accretion on the star (from Sicilia-Aguilar et al. 2006b), X-ray luminosity (Mercer et al. 2009) and variability (Morales-Calderón et al. 2009, Sicilia-Aguilar et al. 2004, 2005). The following listing describes our considerations for membership determination in detail.

- Due to different temperatures, depth of convection zones, rotation, accretion history, and close companions, the primordial lithium in the atmospheres of stars has different life times. We followed Fig. 6 from Neuhäuser (1997) in our criteria for the equivalent widths (EW) as listed in Table 3.
- Accretion disks typically last for about 10 Myr (e.g. Jayawardhana et al. 2006). Depending on its temperature the circumstellar dust emits from infrared (IR) to mm wavelengths. We have used the infrared excess emission for constraining further membership probability. Consequently, whenever the spectral energy distribution given by Sicilia-Aguilar et al. (2006a) displays infrared excess, we assigned a high membership probability for the corresponding star; otherwise, if IR data are available, but there is no apparent excess, we assigned a low probability; if no IR data are available, we did not assign a membership probability.
- Accreting young stars show strong  $H\alpha$  emission, well above the values expected from purely chromospheric activity in K and M type field dwarfs. If a star showed significant  $H\alpha$  emission, above the locus for field dwarfs (White & Basri 2003), we assumed its likely a CTTS, and assigned it a high membership probability. If  $H\alpha$  emission is weaker, we assigned low membership probability.
- Young stars often exhibit dramatic changes in their brightness, e.g. due to spots or accretion. We used the measured variability from time series analysis performed in the infrared (Morales-Calderón et al. 2009) and in  $R$  and  $I$  band (Sicilia-Aguilar et al. 2004, 2005). If significant variability is indicated both in  $R$  and  $I$ , we assigned it high membership probability; if it is only variable in  $R$ , then we assigned medium membership probability; and otherwise we assigned it low membership probability.
- Clusters and T associations are also moving groups which allow us to use radial velocity (RV) and proper motion (PM) for membership analysis: if the RV is within  $1\sigma$  of the mean value, then we assigned high membership probability; if the value is between  $1$  and  $3\sigma$  from the mean, we assigned it medium membership probability; if it is more than  $3\sigma$  from the mean, we

**Table 3** Membership probability using the lithium absorption

Spectral type earlier than or equal to	EW(Li) [ $\text{\AA}$ ] for		
	h	m	l
G3	> 0.15	0.15-0.05	< 0.05
G8	> 0.2	0.2-0.1	< 0.1
K7	> 0.3	0.3-0.2	< 0.2
M4	> 0.2	0.2-0.1	< 0.1
M9	> 0.15	0.15-0.1	< 0.1



**Fig. 2** The radial surface density with center at 21:39:06, 57:30:00.

assigned it low membership probability. The radial velocity determined by Sicilia-Aguilar et al. (2006b) is  $-15 \pm 3.6$  km/s, using high resolution spectra ( $R \sim 34000$ ) for the known cluster members. The cluster distance of 870 pc, however, implies small proper motion of the stars, so that it is difficult to exclude background stars. We adopt proper-motion membership probabilities based on the work of Marschall & van Altena (1987).

- Strong X-ray detection also implies high membership probability. The X-ray observation by Mercer et al. (2009) extracted only bright sources, so all those stars got high membership probability.

### 4 Analysis

The radial surface density of Trumpler 37 is shown in Fig. 2. The medium and highly probable members are distributed uniformly. We fitted the King model of form

$$\sigma = \frac{\sigma_0}{1 + (r/r_c)^2}$$

with the parameters core density  $\sigma_0 = 1.037 \pm 0.060$  stars/arcmin<sup>2</sup> and core radius  $r_c = 15.7 \pm 1.3$  arcmin.

The equivalent widths for lithium and  $H\alpha$  are plotted against the spectral type in Fig. 3. All values are used as given in Table 2.

**Table 2** Literature data and membership probabilities for stars in Trumpler 37

No.	RV	PM [j]	EW(Li) max	EW(Li) min	EW(H $\alpha$ ) max	EW(H $\alpha$ ) min	$\dot{M}$ 10 <sup>-8</sup>	$L_{X,c}$ 10 <sup>30</sup>	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR excess [d]	Variability [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) $M_\odot$
2		93															h		
3		0															l		
4		92															h		
6		9															l		
8		94															h		
9		90															h		
12		37															l		
13		89															h		
14		0															l		
15		79															h		
18		14															l		
19		78															h		
20	44.9 <sup>h</sup>	83									l						h		
...																			
1410			0.3 <sup>c</sup>		-7 <sup>c</sup>	-7.3 <sup>e</sup>	0		w <sup>c</sup>	h	l		l	l				1.04	0.2
1411			0.5 <sup>c</sup>		-4.8 <sup>e</sup>	-5 <sup>c</sup>	0		w <sup>c</sup>	h	l		l	l	h				
1412	-14.6 <sup>c</sup>		0.5 <sup>c</sup>		-1.8 <sup>e</sup>	-2 <sup>c</sup>	0.13		w <sup>c</sup>	h	l	h	h	l	h				
1413					-3 <sup>f</sup>					l								0.49	0.15
1414	-42.8 <sup>c</sup>		0.3 <sup>c</sup>		-5 <sup>c</sup>		0		w(c) <sup>c</sup>	h	h	l	l	l	l				
1415			1 <sup>c</sup>		-13 <sup>c</sup>	-13.4 <sup>e</sup>	0.12:		w(c) <sup>c</sup>	h	h		h	l	l				
1416	-17.2 <sup>c</sup>		0.4 <sup>c</sup>		-5 <sup>c</sup>		1.6		c <sup>c</sup>	h	h	h	h	h	h			2.65	0.1
1417	-19.9 <sup>c</sup>		0.5 <sup>c</sup>		-43 <sup>c</sup>	-63 <sup>f</sup>	0.97-2.5		c <sup>c</sup>	h	h	m	h	h	h			1.18	0.1
1418			0.7 <sup>f</sup>	0.5 <sup>c</sup>	-4 <sup>f</sup>	-10 <sup>c</sup>	1.1		c <sup>c</sup>	h	h		h	h	h			2.64	0.1
1419	-15.4 <sup>c</sup>		0.5 <sup>c</sup>		-28 <sup>c</sup>	-33 <sup>c</sup>	16.2-13.2		c <sup>c</sup>	h	h	h	h	h	h			1.93	0.1
1420			0.5 <sup>e</sup>		-8 <sup>e</sup>				w <sup>e</sup>	h	l			l				1.12	0.1
1421	-9.9 <sup>c</sup>		0.4 <sup>c</sup>		-18 <sup>c</sup>	-23 <sup>c</sup>	0.8		c <sup>c</sup>	h	h	m	h	h	h			1.11	0.1
1422					-80.8 <sup>e</sup>				c <sup>e</sup>	h				h	h			1.53	0.1
1423			0.4 <sup>c</sup>		-3.9 <sup>e</sup>	-4 <sup>c</sup>	0		w <sup>c</sup>	h	l		l	l	l				
1424			0.3 <sup>e</sup>		-7.2 <sup>e</sup>				w <sup>e</sup>	h	l			l					
1425			1.3 <sup>f</sup>	0.3 <sup>c</sup>	-23 <sup>c</sup>	-37 <sup>c</sup>	<0.1		c <sup>c</sup>	h	h		m	h	l			2.21	0.1
1426	-68.2 <sup>c</sup>				-9 <sup>c</sup>				w <sup>c</sup>	h	l			l	h				
1427	-18.4 <sup>c</sup>		0.6 <sup>c</sup>		-4 <sup>c</sup>	-4.5 <sup>e</sup>	0		w <sup>c</sup>	h	l	h	l	h	h			0.39	0.2
1428	-16.5 <sup>c</sup>		0.2 <sup>c</sup>		-20 <sup>c</sup>	-23 <sup>c</sup>			c <sup>c</sup>	m	h	h		h	l			1.52	0.1
1429	-15.1 <sup>c</sup>		0.6 <sup>c</sup>		-3.8 <sup>e</sup>	-4 <sup>c</sup>	0.06		w <sup>c</sup>	h	l	h	h	l	l				
1430			0.8 <sup>c</sup>		-11 <sup>c</sup>		0		w(c) <sup>c</sup>	h	h		l	l	l				
1431			0.7 <sup>c</sup>		-4 <sup>c</sup>	-8 <sup>f</sup>	0		w <sup>c</sup>	h	l		l	l	h			0.02	0.1
1432	-15.8 <sup>c</sup>		0.6 <sup>f</sup>	0.5 <sup>c</sup>	-2 <sup>c</sup>	-17 <sup>c</sup>	0.81-3.3		c <sup>c</sup>	h	h	h	h	h	h			3.15	0.1
1433			0.7 <sup>c</sup>		-17 <sup>c</sup>		0		w(c) <sup>c</sup>	h	h		l	l	h				
1434	-15.6 <sup>c</sup>		0.5 <sup>c</sup>		-1.5 <sup>e</sup>	-2 <sup>c</sup>	<0.1		w <sup>c</sup>	h	l	h	m	l	h				
1435					-13 <sup>c</sup>		0		w(c) <sup>c</sup>	h			l	l	l			0.11	0.1
1436	-13.4 <sup>c</sup>		0.9 <sup>f</sup>	0.6 <sup>c</sup>	-13 <sup>c</sup>	-30 <sup>c</sup>	0.88		c <sup>c</sup>	h	h	h	h	h	h			0.69	0.1
1437	-25.2 <sup>c</sup>								w <sup>c</sup>			m							
1438	-15.8 <sup>c</sup>		0.6 <sup>e</sup>		-10 <sup>e</sup>		0		w <sup>c</sup>	h	h	h	l	l	l				
1439	-15.7 <sup>c</sup>		0.6 <sup>f</sup>	0.4 <sup>c</sup>	-33 <sup>c</sup>	-37 <sup>f</sup>	0.21		c <sup>c</sup>	h	h	h	h	h	h			0.24	0.1
1440	-19.1 <sup>c</sup>		0.4 <sup>c</sup>		-2 <sup>c</sup>	-7 <sup>f</sup>	0		w <sup>c</sup>	h	l	m	l	l	l				
1441	-16.9 <sup>c</sup>		0.4 <sup>c</sup>		-8 <sup>c</sup>	-11.3 <sup>e</sup>	<0.1		c <sup>c</sup>	h	h	h	m	h	h			0.77	0.1
1442			0.7 <sup>c</sup>		-4.8 <sup>e</sup>	-5 <sup>c</sup>	0		w <sup>c</sup>	h	l		l	l	l			1.13	0.2
1443	-117.9 <sup>c</sup>				-4 <sup>e</sup>				w w <sup>c</sup>	h	l			l	l			1.01	0.2

plus 1421 more stars in electronic table (at the end of the document: Table A2).

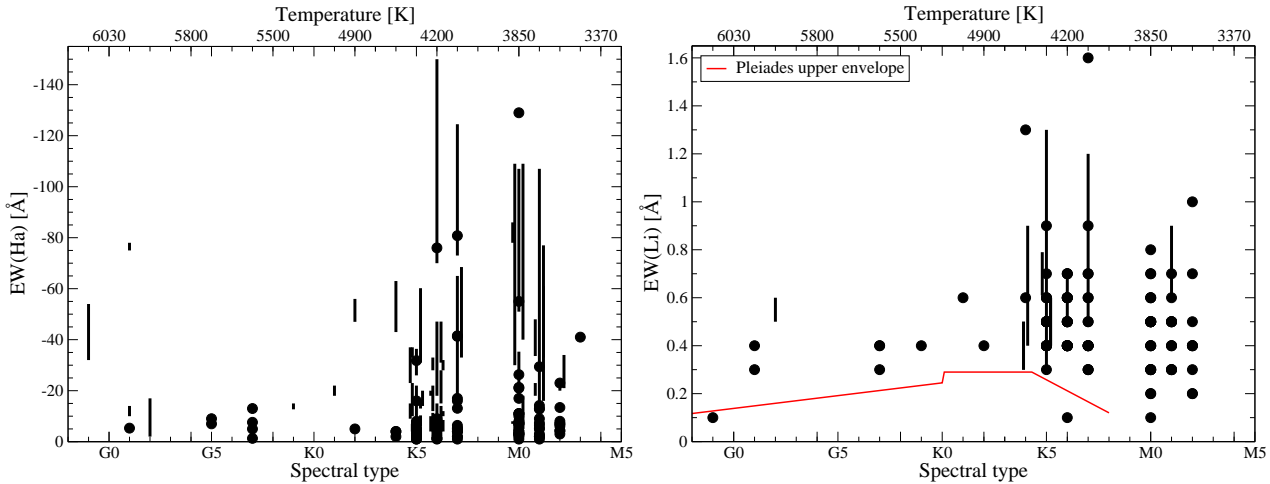
Remarks: The literature sources and numbering are the same as in Table 1, empty lines were omitted. The proper motion (PM) membership probability as it is given in [j]. If the literature gives more than one value for Li or H $\alpha$  equivalent width, the minimal and maximal values are given, otherwise the value is written in the maximum columns. The mass accretion  $\dot{M}$  is only from [c], the corrected X-ray luminosity only from [b]. Column TTS indicates a classical (c) or a weak (w) T Tauri star. If an additional T Tauri state follows in parentheses, the classification differs between low and high resolution spectra (see source literature for more details), colons indicate uncertainty.

The next to last column gives the re-calculated extinction as described in the text. The last column contains the masses determined by the models by Siess et al. (2000) from the infrared color-magnitude diagram (Fig. 7).

**The membership prediction:** h, m and l stand for high, medium and low membership probability, as a result of the following criteria:

- Lithium absorption: see Table 3.
- H $\alpha$  emission: if spectral type earlier than K0 and EW(H $\alpha$ ) < 0  $\rightarrow$  h, if spectral type later than K0 we follow White & Basri (2003) to distinguish between h and l.
- radial velocity (RV): if within  $1\sigma$  (3.6 km/s) around  $-15$  km/s  $\rightarrow$  h, if within  $3\sigma$   $\rightarrow$  m, otherwise l.
- Accretion: if  $\dot{M} > 0.05 \cdot 10^{-8} M_\odot/\text{yr} \rightarrow$  h, if  $\dot{M} > 0 \cdot 10^{-8} M_\odot/\text{yr} \rightarrow$  m, if  $\dot{M} = 0 \cdot 10^{-8} M_\odot/\text{yr} \rightarrow$  l.
- X-ray: [b] analyzed only bright X-ray sources with corrected luminosity  $L_{x,c} > 0.75 \cdot 10^{30}$  erg/s, so all  $\rightarrow$  h.
- Infrared excess: if excess visible in SEDs from Sicilia-Aguilar et al. (2006a), then h, otherwise l.
- Variability: if marked as "V" or "RI" in the source literature  $\rightarrow$  h, if "I"  $\rightarrow$  m, if marked as "N" or "No"  $\rightarrow$  l.
- Proper motion: if  $p \geq 75\% \rightarrow$  h, if  $p \geq 50\% \rightarrow$  m, otherwise l.





**Fig. 3** The equivalent widths (EW) of H $\alpha$  and lithium, depending on spectral type. Both values have been taken from the literature. If different EW are available, the range is given, otherwise only a dot. For lithium, the upper envelope of the Pleiades values (Soderblom et al. 1993) is also given.

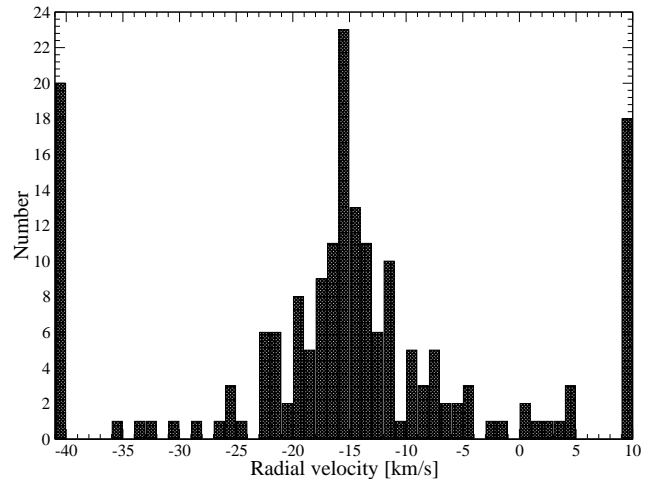
**Table 4** Fit of the proper motion distribution with a Gaussian (mean  $m$  and width  $\sigma$ ) for two different star samples (Li: stars with lithium absorption, PM: stars with high membership probability from Marschall & van Altena (1987)).

Sample	RA		DEC	
	mean $m$ [mas/yr]	width $\sigma$ [mas/yr]	mean $m$ [mas/yr]	width $\sigma$ [mas/yr]
Li & H $\alpha$	-3.30 (20)	4.17 (20)	-5.62 (28)	4.56 (28)
PM	-4.69 (12)	3.77 (12)	-2.18 (13)	4.39 (13)

The distribution of the PPMXL proper motion of two subsamples of Trumpler 37 is shown in Fig. 4: the proper motion analysis from Marschall & van Altena (1987) investigated brighter stars, while the search for lithium absorption and H $\alpha$  emission is much more sensitive to the late-type spectral types and therefore to fainter stars. The distributions in Fig. 4 are similar. Table 4 gives the parameters of their fitting with Gaussian (mean  $m$  for the center and width  $\sigma$  of the histogram).

The radial velocity distribution of all stars is plotted in Fig. 5. For this purpose data from Sicilia-Aguilar et al. (2006b) and Contreras et al. (2002) were used. We fitted the radial velocity distribution by Gaussian with parameters: center at 15.3 km/s and width of 3.6 km/s. They are almost the same as those obtained by Sicilia-Aguilar et al. (2006b):  $-15.0$  km/s and 3.6 km/s.

For the stars with known spectral types, we re-calculated the extinction by means of the infrared color-color diagram (Fig. 6), using 2MASS *JHK*. We corrected the excess from circumstellar dust. We used the law from Rieke & Lebofsky (1985) and intrinsic colors from Kenyon & Hartmann (1995). For 103 out of 423 stars we got unphysical extinctions values ( $A_V < 0$ ). Stars with  $A_V < 0$  or lying left of the main sequence could be variable stars. Using a  $3\sigma$  threshold, 80 stars show infrared excess. The median and average extinctions of the cluster members are correspond-

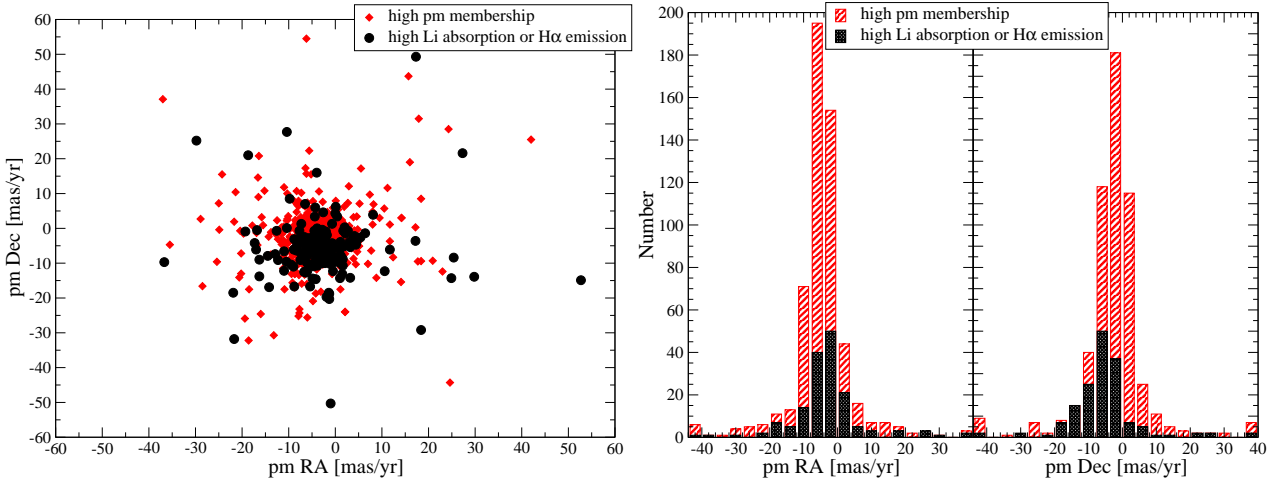


**Fig. 5** The radial velocity distribution for all stars in Table 2. Values outside  $-40$  km/s and  $9$  km/s are binned together, resulting in the strong signals at the edges.

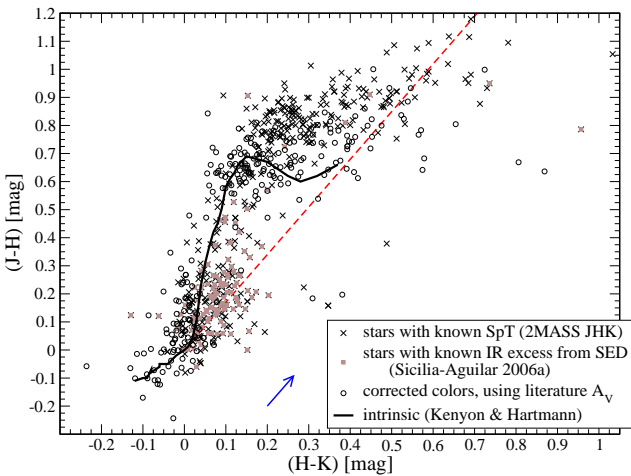
ingly 0.9 and 1.2 mag. The extinctions are listed in Table 2. The open circles in Fig. 6 show the correction done only with the literature extinction, resulting in big deviations from the intrinsic colors.

The color-magnitude diagram (Fig. 7) was created with the derived extinction. The 2MASS photometry was corrected for distance, excess and extinction, meaning all stars with known spectral type and re-calculated extinction are plotted. Assuming the previously derived distance of 870 pc, our results are consistent with an age younger than 10 Myr. Only 12% of the stars lie below the 5 Myr isochrone.

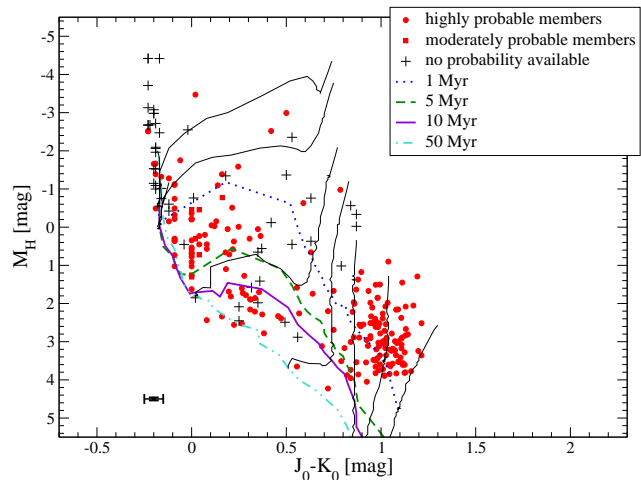
The masses of these young stars were determined using the corrected 2MASS magnitudes and the theoretical tracks from Siess, Dufour & Forestini (2000). The masses are listed in the last column of Table 2.



**Fig. 4** The PPMXL proper motion as 2 dimensional distribution and in the histogram form. The black circles and the black histograms correspond to the high probable member stars from lithium absorption or  $H\alpha$  emission, the red diamonds and the red, shaded histograms to the high probable member stars from Marschall & van Altena 1987. Stars outside  $\pm 40$  km/s are binned together.



**Fig. 6** The color-color-diagram from the 2MASS magnitudes. Additionally, stars with known infrared excess are marked with grey squares. The blue arrow shows the redening vector of 1 mag (Rieke & Lebofsky 1985). The intrinsic colors of the main sequence are from Kenyon & Hartmann (1995). Stars to the lower right of the diagonal (dashed, red line) have circumstellar excess. The open circles show the correction with the literature extinction.

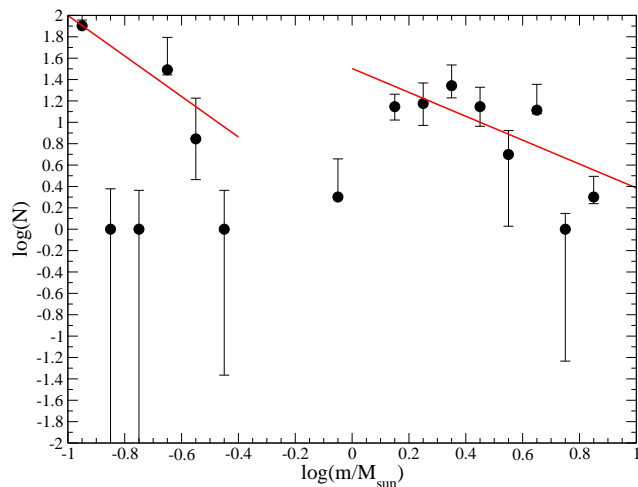


**Fig. 7** Dereddened infrared color-magnitude diagram: The 2MASS magnitudes were adjusted for the excess and our fitted extinction (using the interstellar extinction law from Rieke & Lebofsky 1985). The absolute  $H$  brightness was calculated for the cluster distance of 870 pc. Additional model data from Siess et al. (2000) are included: the 1, 5, 10, and 50 Myr isochrones and the evolutionary tracks for 0.1, 0.2, 0.5, 1, 2, 5, and 7  $M_{\odot}$ . The mean error is shown in the lower left.

We could plot an initial mass function of these masses (Fig. 8). We fitted the power-law index  $\alpha$  from equation  $dN = k \cdot m^{-\alpha} dm$ , with constant  $k$ , following the typical zoning with changes of  $\alpha$  at 0.08 and 0.5  $M_{\odot}$ . We skipped the obviously incomplete mass regime of 0.5 – 0.8  $M_{\odot}$  for the fit and therefore also no continuity was applied. We found, comparing to Kroupa (2007), a higher value of  $\alpha = 1.90 \pm 0.44$  (0.1 – 0.4  $M_{\odot}$ ) and an unusual low value of  $\alpha = 1.12 \pm 0.37$  (1 – 10  $M_{\odot}$ ). It indicates that our sample may not be complete at the intermediate mass regime.

## 5 Results

We found data for 1872 different stars which were studied in the context of Trumpler 37; membership was investigated for 1402 stars. Of these, 774 have a high membership probability in terms of at least one criterion; 125 stars have a medium, and 503 stars a low probability of being member of Trumpler 37. We re-calculated the extinction. Our color-magnitude diagram is consistent with the best values for the age in the literature of 3-5 Myr and distance of  $\sim 870$  pc.



**Fig. 8** Initial mass function (IMF) of the Trumpler 37 high and medium member stars with known spectral type in the literature. The points represent bins in the masses from Table 2, with a width of 0.1 on a log scale. The IMF was fitted with the power-law index  $\alpha = 1.12 \pm 0.37$  in the range of  $0.0 < \log(m/M_{\odot}) < 1.0$  and with  $\alpha = 1.90 \pm 0.44$  in the range of  $-1.0 < \log(m/M_{\odot}) < -0.4$ .

The unusual power-law index demands a search for more cluster members.

In the upcoming papers we will present planetary transit candidates and other results from variability studies. In future work we will also try to improve the knowledge of the cluster properties by homogeneous photometric and spectroscopic analysis including narrow-band photometry.

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## A Full tables













Table A1 Literature data for stars in Trumpler 37 – continued

Table with columns: No., RA (hh:mm:ss.ss), Dec (dd:mm:ss.s), MVA, WEB-DA, SHB-2004, U, B, V, R, I, J, H, K, SpT Class, Av, μ<math>\alpha</math> PPMXL, μ<math>\delta</math>, μ<math>\alpha</math> UCAC3, μ<math>\delta</math>, μ<math>\alpha</math> MVA, μ<math>\delta</math> [j], and Comments. It lists data for 5091 stars in Trumpler 37, including coordinates, magnitudes in various filters, spectral types, and proper motion measurements.

<sup>a</sup> also 5091

















**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA hh:mm:ss.ss	Dec dd:mm:ss.s	MVA	WEB- DA	SHB- 2004	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	$A_V$	$\mu_\alpha$ PPMXL mas/yr	$\mu_\delta$ mas/yr	$\mu_\alpha$ UCAC3 mas/yr	$\mu_\delta$ mas/yr	$\mu_\alpha$ MVA mas/yr	$\mu_\delta$ [j] mas/yr	Comments
667	21:41:04.45	57:43:44.3 <sup>F</sup>	730	3730				14.7 <sup>j</sup>			12.816 (21)	12.477 (28)	12.372 (26) <sup>F</sup>			-1.1 (3.9)	-3.9 (3.9)	-0.5 (7.3)	-13.7 (7.3)	-0.21	-0.22	
668	21:41:06.40	57:43:57.5 <sup>F</sup>	731	3731				13.9 <sup>j</sup>			12.254 (28)	11.867 (31)	11.773 (23) <sup>F</sup>			-6.9 (3.8)	-7.9 (3.8)	-17 (7.5)	-8.3 (7.5)	-0.1	-0.37	new coordinates
669	21:39:49.26	57:46:17.5 <sup>F</sup>	732	727				11.3 <sup>j</sup>			10.594 (27)	10.456 (33)	10.376 (24) <sup>F</sup>	A0 <sup>q</sup>		2 (1.7)	-4.6 (1.7)	-2.7 (0.8)	-3.9 (1)	-0.16	0.16	
670	21:39:58.85	57:45:33.8 <sup>F</sup>	733	3733				14.3 <sup>j</sup>			12.421 (24)	12.105 (33)	11.973 (21) <sup>F</sup>			-4.4 (3.9)	2.1 (3.9)	-8.9 (7.7)	-7.8 (7.8)	0.42	-0.09	
671	21:40:13.75	57:44:58.6 <sup>F</sup>	734	3734				13.7 <sup>j</sup>			12.078 (27)	11.713 (31)	11.631 (23) <sup>F</sup>			5.5 (3.8)	6.1 (3.8)	4 (7.4)	-2.7 (7.4)	-0.85	0.95	
672	21:40:27.18	57:45:30.1 <sup>F</sup>	735	3735				14.6 <sup>j</sup>			12.512 (32)	12.170 (35)	12.092 (29) <sup>F</sup>			5.5 (7.2)	-22.7 (7.2)			0.53	-0.37	
673	21:40:31.07	57:45:29.5 <sup>F</sup>	736	737				11.5 <sup>j</sup>			11.067 (24)	10.938 (32)	10.859 (25) <sup>F</sup>	A0 <sup>q</sup>		-0.6 (2)	-7.8 (2)	-3.3 (0.7)	-5.1 (1)	0.13	-0.07	
674	21:40:45.56	57:45:31.5 <sup>F</sup>	737	741				11.8 <sup>j</sup>			10.760 (28)	10.424 (29)	10.379 (25) <sup>F</sup>			-281.8 (5.1)	302.2 (5.1)	7 (2.8)	1 (2.7)	-1.13	0.31	
675	21:40:46.45	57:45:24.0 <sup>F</sup>	738	3738				14.4 <sup>j</sup>			10.972 (23)	10.243 (28)	10.020 (22) <sup>F</sup>			15.2 (11.6)	-18.4 (11.6)	40.3 (5.3)	-53.7 (5.6)	0.09	-0.34	
676	21:40:55.81	57:45:13.9 <sup>F</sup>	739	3739				14.3 <sup>j</sup>			12.635 (26)	12.210 (29)	12.216 (28) <sup>F</sup>			-25.8 (3.8)	-13.1 (3.8)	-37.6 (7.4)	-14.3 (7.4)	1.37	-0.48	
677	21:41:15.39	57:45:30.0 <sup>F</sup>	740	3740				12.8 <sup>j</sup>			10.992 (24)	10.515 (27)	10.390 (21) <sup>F</sup>			-4.6 (3.8)	-3.8 (3.8)	-2.8 (7.5)	-8.9 (7.5)	-0.07	-0.12	
678	21:41:22.88	57:45:16.2 <sup>F</sup>	741	744			10.46 <sup>l</sup>	10.69 <sup>l</sup>	10.52 <sup>l</sup>		10.089 (26)	10.071 (30)	10.031 (19) <sup>F</sup>	A0 <sup>q</sup>		-5.9 (2)	-5.2 (2)	-3.4 (0.5)	-4.5 (0.6)	0.11	-0.2	
679	21:41:24.94	57:44:59.9 <sup>F</sup>	742	3742				14.5 <sup>j</sup>			12.771 (32)	12.483 (32)	12.391 (32) <sup>F</sup>			-6.3 (3.8)	-12.3 (3.8)	14.5 (7.1)	-30.5 (7.1)	0.48	-0.11	
680	21:41:28.13	57:44:44.6 <sup>F</sup>	743	3743				14 <sup>j</sup>			10.773 (24)	10.044 (31)	9.832 (19) <sup>F</sup>			31.1 (6.6)	-377.2 (6.6)	-3.6 (7.2)	-7.5 (7.3)	0.16	0.2	
681	21:41:28.14	57:43:59.3 <sup>F</sup>	744	3744				14.1 <sup>j</sup>			9.994 (26)	9.090 (28)	8.851 (19) <sup>F</sup>			-3.4 (4.9)	-3.2 (4.9)	-9.9 (7.3)	-12.1 (7.3)	0.25	-0.04	
682	21:41:23.48	57:43:17.1 <sup>F</sup>	745	3745				14.5 <sup>j</sup>			12.010 (26)	11.366 (27)	11.264 (21) <sup>F</sup>			15.9 (3.8)	-4.4 (3.8)	13.9 (7.3)	-10.3 (7.4)	-2.35	0.44	
683	21:41:12.69	57:46:30.2 <sup>F</sup>	746	743			9.51 <sup>l</sup>	9.97 <sup>l</sup>	9.85 <sup>l</sup>		9.446 (26)	9.386 (30)	9.328 (21) <sup>F</sup>	B8 <sup>q</sup>		-4.5 (2)	-7.4 (2)	-4.7 (0.6)	-5.6 (0.5)	-0.19	-0.06	
684	21:39:57.59	57:36:16.4 <sup>F</sup>	747	482			9.36 <sup>l</sup>	9.83 <sup>l</sup>	9.71 <sup>l</sup>		9.463 (26)	9.461 (28)	9.452 (23) <sup>F</sup>	B8 <sup>q</sup>		-1.6 (1.3)	-7.4 (1.2)	-3.1 (0.5)	-5.2 (0.7)	-0.23	-0.14	
685	21:40:31.59	57:16:40.9 <sup>F</sup>	800	488			12.05 <sup>l</sup>	11.16 <sup>l</sup>	10.03 <sup>l</sup>		7.916 (21)	7.413 (42)	7.262 (26) <sup>F</sup>	G5 <sup>q</sup>		-3.2 (1.7)	-10.2 (1.7)	-2.4 (0.9)	-8.7 (1.2)	0.02	-0.23	
686	21:41:27.49	57:13:07.6 <sup>F</sup>	801	3801				12.6 <sup>j</sup>			10.164 (27)	9.524 (32)	9.320 (21) <sup>F</sup>			-6.3 (5.1)	-5 (5.1)	-13.3 (7.5)	-7.3 (7.5)	-0.05	-0.1	
687	21:41:33.26	57:13:09.2 <sup>F</sup>	802	3802				13 <sup>j</sup>			11.518 (31)	11.246 (40)	11.076 (33) <sup>F</sup>			-7 (4.1)	10.5 (4.1)	2.1 (7.1)	28.1 (7.2)	-0.8	0.51	
688	21:41:40.23	57:18:54.0 <sup>F</sup>	803	3803				12.9 <sup>j</sup>			11.703 (27)	11.538 (33)	11.418 (21) <sup>F</sup>			-4 (4.1)	0.7 (4.1)	5.6 (7.1)	8.3 (7.1)	0.01	0.01	
689	21:41:38.59	57:19:46.9 <sup>F</sup>	804	3804				13.6 <sup>j</sup>			12.137 (29)	11.911 (36)	11.783 (26) <sup>F</sup>			6 (4.1)	11.1 (4.1)	29.1 (7.1)	62.1 (7.1)	-0.79	0.47	
690	21:41:36.21	57:22:25.8 <sup>F</sup>	805	3805			10.99 <sup>l</sup>	11.4 <sup>f</sup>	11 <sup>e</sup>		10.470 (0)	10.346 (0)	10.475 (52) <sup>F</sup>	B6 <sup>e</sup>	1.7 <sup>e</sup>	-5.1 (2)	-5.6 (2)	-2.3 (0.6)	-5.7 (0.9)	0.01	0.01	
691	21:41:32.85	57:22:46.4 <sup>F</sup>	806	3806				13.5 <sup>j</sup>			10.740 (21)	10.103 (30)	9.894 (20) <sup>F</sup>			-6.2 (5.1)	-8.3 (5.1)	12.1 (7.2)	-14.7 (7.2)	0.55	-0.51	
692	21:41:35.26	57:23:43.2 <sup>F</sup>	807	3807				12.3 <sup>j</sup>			11.221 (24)	10.951 (30)	10.883 (26) <sup>F</sup>			-13.2 (5.5)	-30.7 (5.5)	-0.1 (0.7)	-0.4 (0.9)	-0.4	0.13	
693	21:41:35.64	57:23:49.5 <sup>F</sup>	808	3808				14.4 <sup>j</sup>			12.636 (35)	12.214 (32)	12.148 (32) <sup>F</sup>							-1.26	-0.13	
694	21:41:40.79	57:25:46.8 <sup>F</sup>	809	3809				13.8 <sup>j</sup>			12.318 (28)	11.995 (36)	11.906 (28) <sup>F</sup>			-6.4 (4.1)	-6.6 (4.1)	9.6 (6.9)	11 (6.9)	0.3	0.11	
695	21:41:35.95	57:31:53.2 <sup>F</sup>	810	3810				12.7 <sup>j</sup>			9.870 (23)	9.093 (31)	8.882 (20) <sup>F</sup>			20.9 (8.4)	-9.3 (8.4)			-0.23	-0.04	
696	21:41:37.05	57:31:48.9 <sup>F</sup>	811	495				11.1 <sup>j</sup>			10.733 (23)	10.560 (27)	10.491 (20) <sup>F</sup>	A5 <sup>q</sup>		3.5 (2)	6.8 (2)	4.7 (1.1)	3.6 (2)	-0.81	0.63	
697	21:41:38.41	57:32:35.5 <sup>F</sup>	812	496				12.1 <sup>j</sup>			11.269 (21)	11.149 (30)	11.050 (19) <sup>F</sup>	A0 <sup>q</sup>		-1.6 (11)	-6.8 (11)	-0.3 (1.3)	2.2 (1.2)	-0.39	0.41	
698	21:41:39.95	57:33:08.9 <sup>F</sup>	813	3813				13.8 <sup>j</sup>			12.569 (21)	12.345 (27)	12.248 (19) <sup>F</sup>			-11.2 (3.8)	-5 (3.8)	-5.9 (7.3)	-13.9 (7.4)	0.52	-0.3	
699	21:41:40.16	57:37:32.3 <sup>F</sup>	814	3814				13.4 <sup>j</sup>			11.989 (23)	11.625 (31)	11.526 (22) <sup>F</sup>			-5 (3.8)	-3.8 (3.8)	2.7 (7.3)	-13.1 (7.4)	0.2	-0.32	
700	21:41:34.86	57:39:25.7 <sup>F</sup>	815	3815				14.6 <sup>j</sup>			12.854 (34)	12.476 (33)	12.428 (35) <sup>F</sup>			-3 (3.9)	-3.4 (3.9)	-3.7 (7.3)	-14.1 (7.3)	0.62	-0.32	
701	21:41:50.80	57:18:23.5 <sup>F</sup>	816	3816				14.3 <sup>j</sup>			12.443 (24)	12.167 (33)	12.089 (24) <sup>F</sup>			-5.3 (4.1)	0.1 (4.1)	2.9 (6.9)	7.7 (7)	-0.02	0.19	
702	21:41:44.37	57:20:22.8 <sup>F</sup>	817	3817				14.2 <sup>j</sup>			11.158 (27)	10.487 (32)	10.278 (21) <sup>F</sup>			17.7 (4.1)	-9.5 (4.1)	73.2 (6.9)	-20 (7)	-0.21	0.11	
703	21:41:53.16	57:19:20.0 <sup>F</sup>	818	3818				12.4 <sup>j</sup>			9.783 (27)	9.039 (32)	8.821 (19) <sup>F</sup>			6.1 (6.5)	-0.8 (6.5)	-14.6 (7.5)	14.7 (7.5)	-0.39	0.76	
704	21:41:59.28	57:19:19.7 <sup>F</sup>	819	3819				13.6 <sup>j</sup>			11.967 (26)	11.666 (32)	11.489 (23) <sup>F</sup>			2.4 (4.1)	-2 (4.1)	3.5 (7.1)	7.4 (7.1)	-0.61	-0.49	
705	21:41:59.37	57:20:50.6 <sup>F</sup>	820	3820				13.5 <sup>j</sup>			16.267 (129)	14.704 (0)	14.812 (0) <sup>F</sup>			-12 (5.5)	-25.6 (5.5)					no/faint star
706	21:42:19.95	57:15:17.1 <sup>F</sup>	821	3821				13.9 <sup>j</sup>			12.199 (24)	11.958 (29)	11.879 (22) <sup>F</sup>			-0.3 (4.1)	-2.7 (4.1)	4.3 (6.9)	10.6 (6.9)	-0.26	0.11	
707	21:42:23.81	57:20:46.6 <sup>F</sup>	822	500			11.90 <sup>l</sup>	11.09 <sup>h</sup>	11.05 <sup>h</sup>		10.582 (39)	10.436 (43)	10.318 (37) <sup>F</sup>	B9 <sup>h</sup>	1.4 <sup>h</sup>	-4.5 (2)	-2 (2)	-3.1 (0.6)	-4.3 (0.8)	0.13	-0.12	
708	21:42:25.76	57:21:29.0 <sup>F</sup>	823	3823				13.4 <sup>j</sup>			11.045 (26)	10.478 (31)	10.279 (24) <sup>F</sup>			-10.9 (4.1)	-1.8 (4.1)	-6 (7)	14.7 (7)	0.85	-0.49	
709	21:42:20.65	57:22:45.5 <sup>F</sup>	824	3824				14.4 <sup>j</sup>			10.795 (24)	10.062 (31)	9.825 (21) <sup>F</sup>			-3 (5.1)	-3.4 (5.1)	3.5 (7)	12.9 (7)	0.03	0.25	
710	21:42:15.03	57:23:14.3 <sup>F</sup>	825	3825				12.8 <sup>j</sup>			11.384 (26)	11.097 (32)	10.980 (21) <sup>F</sup>			-19 (4.1)	-11 (4.1)	-47.5 (7.2)	-33.3 (7.3)	0.78	-0.48	
711	21:42:06.85	57:25:24.5 <sup>F</sup>	826	3826				12.3 <sup>j</sup>			11.206 (24)	10.812 (30)	10.774 (23) <sup>F</sup>			24.8 (5.1)	-5.9 (5.1)	43.4 (7.4)	5.3 (7.3)	-3.81	0.17	
712	21:42:16.34	57:26:44.4 <sup>F</sup>	827	3827				14.1 <sup>j</sup>			11.826 (26)	11.439 (31)	11.249 (21) <sup>F</sup>			12.4 (19.8)	68.6 (19.8)	6.9 (6.9)	11.6 (7.2)	-0.28	-0.12	
713	21:42:00.96	57:26:26.5 <sup>F</sup>	828	3828				14.6 <sup>j</sup>			12.968 (26)	12.616 (30)	12.529 (24) <sup>F</sup>			15.7 (7.1)	43.7 (7.1)	-4.9 (6.9)	10.2 (6.8)	0.37	-0.22	
714	21:41:54.15	57:26:32.4 <sup>F</sup>	829	3829				14.4 <sup>j</sup>			12.310 (26)	11.885 (32)	11.784 (25) <sup>F</sup>			-12.7 (3.9)	-1.4 (3.9)	3.6 (6.8)	17.7 (7)	0.1	0.36	
715	21:41:59.14	57:27:50.9 <sup>F</sup>	830	3830				12.2 <sup>j</sup>			11.307 (26)	11.152 (33)	11.065 (24) <sup>F</sup>			-7.4 (3.8)	-5.3 (3.8)	-6.1 (1.6)	-4.1 (1.1)	0.03	-0.13	
716	21:42:17.78	57:27:26.9 <sup>F</sup>	831	3831				13 <sup>j</sup>			10.123 (24)	9.442 (31)	9.190 (21) <sup>F</sup>			-8 (4.7)	-3.7 (4.7)	-2.6 (7.3)	19.8 (7.3)	0.4	0.02	
717	21:41:59.16	57:28:05.0 <sup>F</sup>	832	3832				14.6 <sup>j</sup>			12.557 (26)	12.054 (31)	11.944 (21) <sup>F</sup>			-4.1 (3.8)	0.3 (3.8)	19.3 (7.4)	28.6 (6.9)	0.02	-0.36	
718	21:42:00.65	57:28:12.1 <sup>F</sup>	833	3833				14.5 <sup>j</sup>			12.347 (0)	12.013 (0)	11.809 (0) <sup>F</sup>			-10.3 (5.1)	23.3 (5.1)	87.6 (7.3)	23.9 (7.3)	-2.65	2.27	
719	21:42:00.30	57:28:25.2 <sup>F</sup>	834	3834				14.6 <sup>j</sup>			12.672 (2											

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT Class	A <sub>v</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	Comments
	hh:mm:ss.ss	dd:mm:ss.ss	J2000	DA	2004	mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
720	21:42:09.26	57:29:40.1 <sup>1</sup>	835	3835				14.6 <sup>j</sup>				12.867 (26)	12.501 (37)	12.409 (24) <sup>F</sup>		-7.8 (3.9)	-12.4 (3.9)	3.6 (6.9)	8.6 (6.8)	-0.22	-0.65	
721	21:41:49.98	57:29:28.6 <sup>F</sup>	836	3836				13.1 <sup>j</sup>				11.893 (23)	11.678 (30)	11.574 (25) <sup>F</sup>		-9.7 (4.1)	-6.5 (4.1)	-0.2 (7.1)	4.7 (7)	0.21	-0.13	
722	21:41:55.56	57:30:08.8 <sup>F</sup>	837	3837				13.5 <sup>j</sup>				8.549 (19)	7.396 (33)	7.032 (23) <sup>F</sup>		-3.7 (4.8)	1.3 (4.8)	0.7 (7.1)	13.9 (7.1)	-0.07	0.9	
723	21:42:15.94	57:31:14.5 <sup>F</sup>	838	3838				13.1 <sup>j</sup>				11.724 (26)	11.416 (30)	11.331 (24) <sup>F</sup>		-5.6 (3.8)	-5.2 (3.8)	-1.1 (7.3)	-12.4 (7.4)	0.01	-0.42	
724	21:41:55.88	57:32:52.4 <sup>F</sup>	839	3839				13.6 <sup>j</sup>				12.035 (26)	11.790 (33)	11.669 (26) <sup>F</sup>		-10.6 (3.9)	-7 (3.9)	-3.8 (7.3)	-17.4 (7.3)	0.22	-0.34	
725	21:41:42.05	57:34:04.7 <sup>F</sup>	840	3840				13.6 <sup>j</sup>				11.870 (21)	11.510 (28)	11.395 (20) <sup>F</sup>		-18.3 (3.8)	-12.7 (3.8)	-10.2 (7.4)	-19 (7.4)	0.8	-0.99	
726	21:41:59.88	57:33:43.8 <sup>F</sup>	841	3841				10.7 <sup>j</sup>				9.850 (32)	9.492 ( )	9.426 (0) <sup>F</sup>		14.3 (2)	16.6 (2)	13.9 (1.5)	9.6 (2.1)	-1.75	1.33	
727	21:42:01.87	57:33:53.9 <sup>F</sup>	842	3842	10.48 <sup>l</sup>	10.74 <sup>l</sup>	10.44 <sup>l</sup>					9.534 (27)	9.225 (30)	9.164 (23) <sup>F</sup>		-3.5 (2)	-0.5 (2)	-2.8 (1)	-4.1 (0.8)	-0.06	-0.09	
728	21:41:50.02	57:34:48.6 <sup>F</sup>	843	3843				12 <sup>j</sup>				10.736 (21)	10.392 (27)	10.276 (19) <sup>F</sup>		-19.6 (3.8)	-2.8 (3.8)	-1.2 (0.7)	-9 (1.3)	-0.16	-0.67	
729	21:41:52.56	57:37:20.0 <sup>F</sup>	844	3844				14.2 <sup>j</sup>				12.340 (29)	12.000 (28)	11.890 (29) <sup>F</sup>		7 (3.9)	-10.2 (3.9)	44.6 (7)	-14.5 (7.1)	0.31	-0.02	
730	21:41:51.50	57:37:30.3 <sup>F</sup>	845	3845				11.8 <sup>j</sup>				10.686 (28)	10.408 (31)	10.346 (28) <sup>F</sup>		54 (8.3)	-28.9 (8.3)	-9 (2)	-7.7 (3.8)	0.28	-0.61	
731	21:41:51.17	57:37:37.0 <sup>F</sup>	846	497				11.3 <sup>j</sup>				10.116 (45)	9.834 (42)	9.764 (30) <sup>F</sup>		-4.6 (6.7)	-13.5 (6.7)	-7.1 (0.6)	-7.4 (1.1)	0.19	-0.59	
732	21:41:58.50	57:37:52.9 <sup>F</sup>	847	498				10.4 <sup>j</sup>				8.075 (29)	7.444 (42)	7.282 (18) <sup>F</sup>	G5 <sup>q</sup>	-12.9 (3.3)	93 (4.1)	-9.2 (1)	-0.5 (1.2)	0.95	-0.23	near 732
733	21:41:58.50	57:37:52.9 <sup>F</sup>	848	3848				10.3 <sup>j</sup>				8.075 (29)	7.444 (42)	7.282 (18) <sup>F</sup>		-12.9 (3.3)	93 (4.1)	-9.2 (1)	-0.5 (1.2)			near 731
734	21:42:02.39	57:37:25.8 <sup>F</sup>	849	3849				14.7 <sup>j</sup>				12.668 (62)	12.141 (57)	12.041 (57) <sup>F</sup>		17.4 (3.9)	33.6 (3.9)			-2.65	1.49	
735	21:42:04.01	57:39:16.6 <sup>F</sup>	850	499	12.43 <sup>l</sup>	12.02 <sup>h</sup>	11.09 <sup>h</sup>					11.112 (26)	11.052 (32)	10.986 (21) <sup>F</sup>	A0 <sup>h</sup>	4.8 (2)	-0.3 (2)	0.7 (0.9)	-2.1 (0.9)	-0.2	0.02	
736	21:42:18.64	57:37:06.4 <sup>F</sup>	851	3851				14.4 <sup>j</sup>				13.010 (31)	12.807 (40)	12.620 (37) <sup>F</sup>		-3.3 (3.8)	-1.8 (3.8)	5.2 (7.3)	-19 (7.3)	-0.17	0.15	
737	21:42:21.68	57:37:50.6 <sup>F</sup>	852	5107				14.3 <sup>j</sup>				12.584 (26)	12.337 (32)	12.181 (24) <sup>F</sup>		-4.6 (3.8)	0.1 (3.8)	6.1 (7.3)	-15.6 (7.3)	-0.13	0.44	
738	21:42:24.56	57:37:53.1 <sup>F</sup>	853	3853				13.9 <sup>j</sup>				10.690 (24)	9.976 (31)	9.732 (19) <sup>F</sup>		0.3 (4.7)	-6.3 (4.7)	0.9 (7.2)	-9.8 (7.2)	-0.01	-0.3	
739	21:42:26.13	57:36:28.7 <sup>F</sup>	854	3854				13.4 <sup>j</sup>				12.175 (26)	11.934 (32)	11.838 (24) <sup>F</sup>		-35.5 (7)	-4.7 (7)	-1.1 (7.1)	-80.8 (7.1)	0.16	0.13	
740	21:41:42.96	57:40:38.0 <sup>F</sup>	855	3855				12.6 <sup>j</sup>				10.012 (26)	9.253 (30)	9.054 (19) <sup>F</sup>		-4.6 (4.9)	-6 (4.9)	-3.7 (7.4)	-10 (7.4)	0.3	-0.15	
741	21:42:16.62	57:39:53.8 <sup>F</sup>	856	3856				13.9 <sup>j</sup>				10.757 (26)	9.978 (30)	9.772 (21) <sup>F</sup>		-7.1 (4.7)	-7 (4.7)	-4.8 (7.3)	-12.4 (7.3)	0.32	-0.2	
742	21:42:18.08	57:41:09.7 <sup>F</sup>	857	3857				14.2 <sup>j</sup>				12.359 (26)	12.105 (32)	11.971 (21) <sup>F</sup>		-6.9 (12.8)	6.8 (12.8)	-4.7 (7.3)	-6.1 (7.3)	0.2	0.09	
743	21:41:44.48	57:42:32.4 <sup>F</sup>	858	3858				13.7 <sup>j</sup>				11.279 (26)	10.653 (28)	10.514 (19) <sup>F</sup>		-10.8 (3.8)	-11.4 (3.8)	-20.2 (7.4)	-24.7 (7.4)	0.86	-0.71	
744	21:41:40.29	57:43:25.0 <sup>F</sup>	859	3859				13.5 <sup>j</sup>				11.380 (24)	10.816 (31)	10.702 (21) <sup>F</sup>		13.9 (3.8)	-2.5 (3.8)			-0.35	-0.46	
745	21:42:02.51	57:44:42.6 <sup>F</sup>	861	3861				14.4 <sup>j</sup>				13.020 (26)	12.798 (32)	12.688 (24) <sup>F</sup>		-7.4 (3.8)	-5.7 (3.8)	0.8 (7.3)	-15.7 (7.3)	0.21	-0.07	
746	21:41:50.94	57:45:36.8 <sup>F</sup>	862	3862				14.5 <sup>j</sup>				12.861 (27)	12.667 (28)	12.521 (19) <sup>F</sup>		-15.5 (3.8)	-3.9 (3.8)	-31.4 (7.2)	3.1 (7.1)	0.49	-0.01	
747	21:42:14.09	57:43:09.9 <sup>F</sup>	863	3863				12.1 <sup>j</sup>				10.813 (26)	10.436 (30)	10.335 (21) <sup>F</sup>		-1 (11.6)	7.3 (11.6)	8.3 (1.1)	5.7 (1.4)	-0.93	0.76	
748	21:42:24.18	57:44:09.9 <sup>F</sup>	864	750	6.28 <sup>l</sup>	7.09 <sup>l</sup>	6.86 <sup>l</sup>					6.072 (24)	5.914 (33)	5.567 (17) <sup>F</sup>	B0 <sup>p</sup> V <sup>p</sup>	-2.3 (0.5)	-4.6 (0.5)	-1 (2.9)	3.2 (2.4)	-0.49	-0.39	
749	21:42:32.89	57:13:05.8 <sup>F</sup>	865	3865				12.1 <sup>j</sup>				9.525 (26)	8.813 (33)	8.561 (22) <sup>F</sup>		-2.2 (5.1)	0.8 (5.1)	3.8 (7.4)	14.6 (7.5)	-0.38	0.33	
750	21:42:43.58	57:12:00.1 <sup>F</sup>	866	3866				10.7 <sup>j</sup>				7.095 (20)	6.247 (23)	5.946 (16) <sup>F</sup>		-6.3 (13.3)	7.1 (13.3)	-4.1 (1.4)	-8.2 (0.6)	0.6	-0.21	
751	21:43:31.88	57:13:22.0 <sup>F</sup>	867	3867				13.3 <sup>j</sup>				12.163 (29)	11.992 (32)	11.868 (21) <sup>F</sup>		-4.9 (4.1)	-3.8 (4.1)	-8.3 (1.9)	-2.3 (0.9)			
752	21:43:17.56	57:15:47.0 <sup>F</sup>	868	3868				13.2 <sup>j</sup>				10.232 (32)	9.559 (36)	9.330 (28) <sup>F</sup>		2.6 (5.1)	-5.4 (5.1)	6.1 (7.3)	51.2 (7.4)	-0.37	-0.19	
753	21:43:17.39	57:18:36.0 <sup>F</sup>	869	3869				12.7 <sup>j</sup>				11.438 (25)	11.150 (30)	11.074 (23) <sup>F</sup>		0.5 (4.1)	4.4 (4.1)	7.3 (7.1)	14.5 (7)	-0.34	0.81	
754	21:42:52.60	57:20:12.2 <sup>F</sup>	870	3870				14.3 <sup>j</sup>				10.755 (27)	9.948 (29)	9.698 (21) <sup>F</sup>		-5.3 (5.1)	-2.3 (5.1)	4.1 (6.9)	15.4 (6.9)	-0.3	0.36	[m] imprec.
755	21:42:45.73	57:20:13.4 <sup>F</sup>	871	3871				13.8 <sup>j</sup>				12.427 (26)	12.202 (31)	12.080 (23) <sup>F</sup>		-5.8 (4.1)	0.1 (4.1)	6.1 (6.9)	12.2 (6.9)	0.28	0.01	
756	21:42:30.58	57:20:13.3 <sup>F</sup>	872	3872				12.6 <sup>j</sup>				11.167 (27)	10.821 (31)	10.702 (23) <sup>F</sup>		-10.9 (4.1)	-0.8 (4.1)	-5.5 (1.5)	-0.8 (2.1)	0.15	-0.04	
757	21:42:38.71	57:21:12.1 <sup>F</sup>	873	3873 <sup>a</sup>	16.39 <sup>k</sup>	14.94 <sup>k</sup>	13.9 <sup>j</sup>					12.272 (26)	11.994 (32)	11.886 (24) <sup>F</sup>	F4 <sup>q</sup>	-6.5 (4.1)	5.2 (4.1)	6 (6.9)	25.4 (6.9)	0.29	0.42	
758	21:42:58.64	57:21:38.5 <sup>F</sup>	874	3874				13.5 <sup>j</sup>				11.284 (46)	10.828 (52)	10.682 (50) <sup>F</sup>		9.3 (4.1)	1.2 (4.1)	47.1 (7.1)	23.5 (7.1)	-0.51	0.55	
759	21:43:01.72	57:23:27.6 <sup>F</sup>	875	3875				14.6 <sup>j</sup>				10.817 (27)	10.062 (29)	9.815 (21) <sup>F</sup>		-5.5 (5.1)	-4.4 (5.1)	-3.2 (6.9)	10.8 (6.9)	-0.39	-0.23	
760	21:43:01.75	57:23:54.4 <sup>j</sup>	876	3876				14.6 <sup>j</sup>				-5.6 (5.7)	-2.5 (5.7)	92.5 (7.1)		47.9 (7.1)	-0.11	-0.32				
761	21:43:04.80	57:24:01.1 <sup>F</sup>	877	3877				13.3 <sup>j</sup>				11.763 (27)	11.363 (31)	11.288 (21) <sup>F</sup>		-16 (10)	-10.5 (10)	-4.1 (6.9)	9.7 (6.9)	0.81	-0.82	
762	21:43:06.74	57:24:15.6 <sup>F</sup>	878	3878				12.4 <sup>j</sup>				11.188 (25)	10.895 (31)	10.807 (19) <sup>F</sup>		-10.4 (4.1)	3.3 (4.1)	-11.4 (0.9)	3.4 (1.5)	0.65	0.23	
763	21:43:09.50	57:24:54.2 <sup>F</sup>	879	3879				14.1 <sup>j</sup>				12.176 (27)	11.742 (31)	11.643 (19) <sup>F</sup>		24 (3.9)	-2.6 (3.9)	45 (6.9)	15.8 (6.9)	-3.06	0.46	
764	21:42:49.20	57:26:09.0 <sup>F</sup>	880	3880				12.9 <sup>j</sup>				11.836 (27)	11.702 (31)	11.578 (23) <sup>F</sup>		-1.8 (3.9)	-0.5 (3.9)	-2.9 (7.1)	14.1 (7)	-0.37	0.31	
765	21:43:06.62	57:28:22.3 <sup>F</sup>	881	506				10.4 <sup>j</sup>				9.657 (27)	9.486 (31)	9.437 (19) <sup>F</sup>	F0 <sup>q</sup>	11.1 (1.6)	9.5 (1.6)	12.4 (1.5)	6.1 (0.8)	-1.48	1.1	
766	21:42:59.84	57:28:11.3 <sup>F</sup>	882	3882				14.2 <sup>j</sup>				12.441 (29)	12.082 (31)	11.965 (24) <sup>F</sup>		-6.8 (3.8)	-7 (3.8)	-7.3 (7.4)	-19.4 (7.4)	0.3	-0.84	
767	21:42:50.18	57:28:32.1 <sup>F</sup>	883	502				10.7 <sup>j</sup>				8.609 (24)	8.121 (27)	7.871 (26) <sup>F</sup>		-9.8 (2.7)	-2.3 (2.7)	0.4 (1.1)	-7 (0.8)	0.01	-0.37	
768	21:42:45.29	57:29:23.6 <sup>F</sup>	884	3884				12.9 <sup>j</sup>				11.238 (26)	10.827 (32)	10.747 (19) <sup>F</sup>		-4.1 (3.9)	-10 (3.9)	-4.6 (7.3)	-23.5 (7.3)	-0.09	-0.51	
769	21:42:29.79	57:29:26.2 <sup>F</sup>	885	3885				12.4 <sup>j</sup>				11.465 (27)	11.338 (32)	11.246 (24) <sup>F</sup>		-1.6 (3.9)	-0.3 (3.9)	3.6 (7.4)	1 (7.4)	-0.32	0.56	
770	21:42:36.90	57:30:04.3 <sup>j</sup>	886	3886				14.2 <sup>j</sup>														no star

<sup>a</sup> also 5112

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA hh:mm:ss.ss	Dec dd:mm:ss.s	MVA	WEB- DA	SHB- 2004	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT	Class	$A_V$	$\mu_\alpha$ PPMXL	$\mu_\delta$	$\mu_\alpha$ UCAC3	$\mu_\delta$	$\mu_\alpha$ MVA [j]	$\mu_\delta$	Comments
						mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
771	21:42:35.52	57:30:57.5 <sup>F</sup>	888	3888				14.6 <sup>j</sup>				12.821(27)	12.533(32)	12.419(28) <sup>T</sup>			-57(5.1)	-8.9(5.1)	-11.8(7.3)	-25.1(7.3)			
772	21:42:42.10	57:30:14.3 <sup>F</sup>	889	3889				13.3 <sup>i</sup>				10.365(27)	9.665(37)	9.424(26) <sup>F</sup>			-19(11.6)	22.7(11.6)	-7.6(6.7)	64(6.8)	-0.4	0.63	
773	21:42:42.61	57:30:02.8 <sup>F</sup>	890	3890				14.5 <sup>j</sup>				9.144(32)	7.981(33)	7.601(27) <sup>F</sup>			6.9(4.9)	-11.6(4.9)	17.7(6.4)	-20.9(6.5)	0.3	0.56	
774	21:42:57.36	57:30:45.5 <sup>F</sup>	891	3891				12.7 <sup>j</sup>				9.917(27)	9.184(30)	8.920(21) <sup>F</sup>			-4.8(4.7)	-5.7(4.7)	-3.2(7.4)	-7.5(7.4)	0.25	-0.14	
775	21:42:47.07	57:31:52.2 <sup>F</sup>	892	3892				13.7 <sup>j</sup>				11.970(27)	11.562(30)	11.458(23) <sup>F</sup>			-19.7(11)	-1.5(11)	-3(7.3)	-15.7(7.4)	-0.07	-0.2	
776	21:42:21.53	57:33:02.2 <sup>F</sup>	893	3893				14.7 <sup>j</sup>				12.509(24)	12.160(30)	11.920(21) <sup>F</sup>			-10.3(3.8)	4.7(3.8)	-2.4(7.5)	-8.1(7.3)	0.15	0.38	
777	21:42:33.57	57:32:58.0 <sup>F</sup>	894	3894				14.3 <sup>i</sup>				12.530(26)	12.116(31)	12.006(23) <sup>F</sup>			-18.8(3.9)	-13.1(3.9)	-22.5(7.3)	-28.2(7.3)	1.35	-1.4	
778	21:42:39.98	57:33:18.0 <sup>F</sup>	895	3895				13.3 <sup>i</sup>				10.251(26)	9.467(31)	9.215(21) <sup>F</sup>			-15.2(10)	10.8(10)	-2.9(7.3)	-12.3(7.4)	0.28	0.11	
779	21:42:47.35	57:34:15.8 <sup>F</sup>	896	3896				14.6 <sup>j</sup>				12.580(30)	12.176(32)	12.085(24) <sup>F</sup>			2.1(3.8)	10.6(3.8)	-6.9(7.3)	14.1(7.3)	-1.26	0.76	2x[r]
780	21:42:47.82	57:34:11.9 <sup>F</sup>	896	3896				14.6 <sup>j</sup>				15.398(72)	14.741(79)	14.435(84) <sup>F</sup>			6(5.1)	18.3(5.1)	-6.9(7.3)	14.1(7.3)	-1.26	0.76	2x[r] (faint)
781	21:42:55.08	57:33:45.1 <sup>F</sup>	897	3897				12.8 <sup>i</sup>				9.130(37)	8.336(63)	7.975(23) <sup>F</sup>			-16.5(4.7)	9(4.7)	7.5(7.3)	-3.3(7.3)	0.09	0.02	
782	21:43:07.63	57:34:49.1 <sup>F</sup>	898	505		12.75 <sup>1</sup>	11.98 <sup>1</sup>	10.82 <sup>1</sup>				8.711(46)	8.193(59)	8.026(31) <sup>F</sup>	G2: <sup>q</sup>		-8.2(2)	-2.5(2)	-5(1.6)	-3.5(1)	0.43	-0.22	
783	21:42:54.78	57:36:11.0 <sup>F</sup>	899	3899				13.3 <sup>i</sup>				11.712(27)	11.407(32)	11.271(24) <sup>F</sup>			0.6(3.8)	-1.7(3.8)			-0.1	0	
784	21:42:57.79	57:36:36.2 <sup>F</sup>	900	3900				14.1 <sup>j</sup>				12.404(30)	12.045(35)	11.965(30) <sup>F</sup>			15.6(3.8)	3.6(3.8)	46.3(7.2)	14.2(7.3)	-1.73	0.64	
785	21:42:53.00	57:37:05.2 <sup>F</sup>	901	503				10 <sup>j</sup>				6.880(23)	6.021(38)	5.804(23) <sup>F</sup>			14.9(2.7)	29.4(2.7)	10.7(1)	16.9(1.3)	-1.08	1.77	
786	21:43:07.13	57:37:45.7 <sup>F</sup>	902	3902				14 <sup>j</sup>				10.746(29)	9.939(32)	9.712(19) <sup>F</sup>			-3.9(4.7)	-4.5(4.7)	-2.5(7.3)	-6.5(7.3)	0.27	-0.32	
787	21:42:40.71	57:37:39.7 <sup>F</sup>	903	501				9.9 <sup>j</sup>				7.626(26)	7.031(26)	6.891(21) <sup>F</sup>	gG8 <sup>q</sup>		-13(2)	3(2)	-10.3(0.7)	-5.4(1.4)	1	-0.34	
788	21:43:02.88	57:40:21.5 <sup>F</sup>	906	3906				13.4 <sup>i</sup>				11.955(33)	11.700(40)	11.569(26) <sup>F</sup>			-3.7(3.8)	-11.7(3.8)	1.8(7.4)	-31.8(7.4)	0.27	-0.84	
789	21:42:59.67	57:42:42.6 <sup>F</sup>	907	3907				13.3 <sup>i</sup>				11.906(27)	11.653(30)	11.488(18) <sup>F</sup>			-0.6(3.8)	-2.1(3.8)	11.4(7.3)	1.5(7.3)	0.39	-0.27	
790	21:42:53.98	57:43:47.5 <sup>F</sup>	908	752				11.6 <sup>j</sup>				10.977(29)	10.823(32)	10.732(19) <sup>F</sup>			-7.3(2)	-4.7(2)	-8(0.6)	-5.2(1)	0.74	-0.44	
791	21:42:46.96	57:44:38.2 <sup>F</sup>	909	3909				12.3 <sup>i</sup>				11.340(25)	11.156(31)	11.071(23) <sup>F</sup>			-4.8(3.9)	-3.8(3.9)	-3.3(3.5)	-1(1.5)	0.19	-0.07	
792	21:42:43.14	57:45:22.8 <sup>F</sup>	910	3910		13.47 <sup>1</sup>	12.74 <sup>1</sup>	11.67 <sup>1</sup>				9.377(27)	8.803(32)	8.609(21) <sup>F</sup>			-3.5(2.7)	10.6(2.7)	3.7(0.9)	-0.4(2.2)	-0.35	0.16	
793	21:42:35.60	57:46:18.0 <sup>F</sup>	911	3911				11.9 <sup>i</sup>				11.518(26)	11.376(31)	11.365(24) <sup>F</sup>			-11.3(3.8)	-7.1(3.8)	-6.2(0.6)	-6.1(0.8)	0.68	-0.22	
794	21:42:31.75	57:46:39.2 <sup>F</sup>	912	3912				12 <sup>j</sup>				11.143(34)	10.842(40)	10.767(30) <sup>F</sup>			-47.7(13.4)	40.9(13.4)	-1.6(9.2)	9.7(15.9)	-0.29	0.76	
795	21:43:35.45	57:14:20.3 <sup>F</sup>	914	3914				12.8 <sup>i</sup>				11.211(29)	10.872(32)	10.770(24) <sup>F</sup>			-4(4.1)	-10.1(4.1)	6.5(7.3)	1.1(7.3)	0.47	-0.58	
796	21:43:37.03	57:14:26.0 <sup>F</sup>	915	3915				12.7 <sup>j</sup>				11.268(27)	10.975(31)	10.858(21) <sup>F</sup>			-1.7(4.1)	-1(4.1)	3.9(7.1)	8.9(7.1)	0.25	0.11	
797	21:43:49.21	57:15:22.1 <sup>F</sup>	916	3916				14 <sup>j</sup>				12.189(23)	11.930(29)	11.800(21) <sup>F</sup>			-5.4(4.1)	-6.4(4.1)	1.2(6.9)	5.4(6.9)	0.85	-0.52	
798	21:44:06.64	57:15:52.5 <sup>F</sup>	917	3917				12.1 <sup>j</sup>				9.411(21)	8.687(49)	8.450(19) <sup>F</sup>			-4.3(5.1)	-8.9(5.1)	-1.8(7.5)	6(7.5)	0.16	-0.48	
799	21:44:14.98	57:15:20.7 <sup>F</sup>	918	3918				12 <sup>j</sup>				10.757(21)	10.422(29)	10.296(19) <sup>F</sup>			-26(3.1)	2.7(3.1)	-16.8(0.6)	-4.4(0.8)	1.61	-0.46	
800	21:44:17.33	57:15:14.0 <sup>F</sup>	919	3919				13.3 <sup>i</sup>				11.583(23)	11.291(31)	11.166(23) <sup>F</sup>			15.1(4.1)	-23(4.1)	58.1(7.4)	-83(7.4)	-0.81	0.25	
801	21:44:17.86	57:14:13.0 <sup>F</sup>	920	3920				13.7 <sup>j</sup>				11.947(24)	11.711(35)	11.601(28) <sup>F</sup>			17.9(19)	31.5(19)			0.28	-0.07	
802	21:44:38.04	57:16:28.2 <sup>F</sup>	921	512				10.6 <sup>j</sup>				9.955(32)	9.754(37)	9.618(26) <sup>F</sup>	A5 <sup>q</sup>		9.1(1.8)	3.3(1.8)	5.2(0.8)	1.8(1.1)	-0.17	0.95	
803	21:44:18.76	57:17:39.7 <sup>F</sup>	922	3922				12.5 <sup>i</sup>				10.191(23)	9.805(31)	9.571(19) <sup>F</sup>			-4.6(5.1)	-2.2(5.1)	-9.3(7.3)	20.7(7.3)	0.4	0.12	
804	21:43:38.07	57:19:19.6 <sup>F</sup>	923	3923				14 <sup>j</sup>				12.315(23)	12.064(33)	11.908(21) <sup>F</sup>			-5.9(4.1)	-2.3(4.1)	8(6.9)	8.5(6.9)	0.22	-0.12	
805	21:44:13.93	57:20:04.9 <sup>F</sup>	924	3924				12.7 <sup>j</sup>				11.592(24)	11.367(31)	11.231(23) <sup>F</sup>			-8.3(13.2)	5.1(13.2)	3.7(7.1)	26.6(7.1)	0.64	-0.11	
806	21:44:11.71	57:20:16.7 <sup>F</sup>	925	3925				14.3 <sup>i</sup>				12.416(23)	12.122(31)	11.977(24) <sup>F</sup>			-6.9(4.1)	-2.4(4.1)	3.5(6.8)	16.4(6.8)	-0.14	-0.23	
807	21:44:34.95	57:20:09.8 <sup>F</sup>	926	3926				13.1 <sup>j</sup>				11.040( )	11.093(68)	10.941(64) <sup>F</sup>			14.1(18.3)	-15.4(18.3)	15.4(7.1)	-16.4(7.1)	0.32	0.07	
808	21:44:34.10	57:20:32.9 <sup>F</sup>	927	3927				14.2 <sup>j</sup>				12.476(38)	12.135(37)	12.064(30) <sup>F</sup>			-4.3(4.1)	7.3(4.1)	15.1(7)	51.2(7)	-0.15	0.35	
809	21:43:33.30	57:22:15.7 <sup>F</sup>	928	3928				13.8 <sup>j</sup>				11.914(27)	11.495(31)	11.414(21) <sup>F</sup>			-0.2(4.1)	5(4.1)	11.2(7)	15.2(7)	-0.63	0.43	
810	21:43:48.82	57:24:29.9 <sup>F</sup>	929	3929				14.2 <sup>j</sup>				12.507(24)	12.261(33)	12.115(24) <sup>F</sup>			-4(4.1)	-4.2(4.1)	-2.5(7)	24.7(7)	0.32	-0.02	
811	21:44:11.72	57:23:34.1 <sup>F</sup>	930	3930				12.9 <sup>j</sup>				11.424(24)	11.071(31)	11.003(23) <sup>F</sup>			2.6(4.1)	-12(4.1)	29.2(7.1)	-21.3(7.1)	0.44	-0.17	
812	21:44:20.60	57:22:25.1 <sup>F</sup>	931	3931				14.1 <sup>j</sup>				12.494(26)	12.243(35)	12.096(26) <sup>F</sup>			-3(4.1)	1.4(4.1)	5.1(6.9)	21.4(6.8)	-0.16	0.02	
813	21:44:33.25	57:22:44.5 <sup>F</sup>	932	3932				13.9 <sup>j</sup>				10.766(27)	10.083(34)	9.873(20) <sup>F</sup>			-6(5.1)	-4.9(5.1)	5.8(7.1)	6.6(7)	0.04	-0.22	
814	21:44:37.97	57:22:41.5 <sup>j</sup>	933	3933				14 <sup>j</sup>															no star
815	21:44:09.86	57:25:18.0 <sup>F</sup>	935	3935				13.7 <sup>j</sup>				12.078(23)	11.886(31)	11.668(21) <sup>F</sup>			-3.4(4.1)	-0.1(4.1)	9.9(6.9)	15.4(6.9)	-0.42	0.04	
816	21:44:03.07	57:26:19.2 <sup>F</sup>	936	509		11.09 <sup>1</sup>	10.93 <sup>1</sup>	10.47 <sup>1</sup>				11.025( )	13.068(88)	12.772(58) <sup>F</sup>	A0 <sup>q</sup>			-1.6(1.5)	-7.6(1)	0.09	-0.02	2x[r]	
817	21:44:02.57	57:26:21.8 <sup>F</sup>	936	509		11.09 <sup>1</sup>	10.93 <sup>1</sup>	10.47 <sup>1</sup>				9.493(26)	9.434(33)	9.341(28) <sup>F</sup>	A0 <sup>q</sup>		4.4(1.3)	-10.3(1.3)	-1.6(1.5)	-7.6(1)	0.09	-0.02	2x[r]
818	21:44:13.04	57:27:22.6 <sup>F</sup>	937	3937				12.8 <sup>i</sup>				11.758(24)	11.555(30)	11.460(23) <sup>F</sup>			-5.7(4.1)	-6.1(4.1)	-1.5(7.4)	-15.3(7.4)	-0.22	-0.36	
819	21:44:35.70	57:27:12.5 <sup>F</sup>	938	511				9.1 <sup>j</sup>				6.500(26)	5.973(5)	5.882(21) <sup>F</sup>	gG8 <sup>q</sup>		23.2(1.2)	14.7(1.2)	25(0.7)	13.2(1.1)	-2.13	2.01	
820	21:43:19.72	57:29:52.3 <sup>F</sup>	939	3939				13.3 <sup>i</sup>				10.358(25)	9.589(29)	9.373(19) <sup>F</sup>			-5(4.7)	-8.6(4.7)	-1.2(7.3)	-27.9(7.3)	0.55	-0.38	
821	21:43:27.23	57:28:54.8 <sup>F</sup>	940	3940				14.4 <sup>j</sup>				12.511(25)	12.228(32)	12.095(24) <sup>F</sup>			-2.1(3.8)	-8.2(3.8)	2.7(7.3)	-16(7.5)	0.05	-0.37	
822	21:43:20.07	57:31:35.5 <sup>F</sup>	941	3941				13 <sup>j</sup>				11.745(25)	11.509(31)	11.3									

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	<i>A<sub>V</sub></i>	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	Comments	
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004											PPMXL	mas/yr	UCAC3	mas/yr	MVA	[j]		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr		
824	21:43:59.05	57:29:34.2 <sup>F</sup>	943	5123				14.6 <sup>F</sup>				12.317 (32)	11.896 (43)	11.752 (30) <sup>F</sup>		-33.2 (7.1)	-13.4 (7.1)	-69.4 (7.3)	-70.5 (7.4)	-0.2	0.4		
825	21:43:37.45	57:32:22.6 <sup>F</sup>	944	3944				14.2 <sup>F</sup>				12.683 (32)	12.408 (36)	12.271 (32) <sup>F</sup>		-11.1 (3.9)	-3.5 (3.9)	3.4 (7.3)	-17.9 (7.3)	0.2	-0.35		
826	21:43:39.80	57:33:11.7 <sup>F</sup>	945	507				11.9 <sup>F</sup>				11.472 (24)	11.415 (32)	11.303 (19) <sup>F</sup>	A0 <sup>q</sup>	8.8 (3.8)	-14.2 (3.8)	-4.6 (6.2)	-7.3 (12.9)	0.25	-0.36		
827	21:43:17.82	57:34:30.8 <sup>F</sup>	946	3946				12.1 <sup>F</sup>				9.558 (25)	8.848 (33)	8.655 (19) <sup>F</sup>		-14.4 (10)	13.2 (10)	-6.5 (7.5)	-3.4 (7.5)	0.43	0.49		
828	21:43:25.74	57:34:43.3 <sup>F</sup>	947	3947				14.5 <sup>F</sup>				12.512 (29)	12.148 (36)	12.037 (28) <sup>F</sup>		-53.2 (5.1)	44.8 (5.1)			0.12	0.49		
829	21:43:44.29	57:34:07.0 <sup>F</sup>	948	3948				13.5 <sup>F</sup>				11.941 (24)	11.569 (33)	11.404 (23) <sup>F</sup>		-30.6 (5.2)	6.7 (5.2)	-7 (7.4)	-13.9 (7.5)	0.09	-0.6		
830	21:43:53.79	57:35:59.1 <sup>F</sup>	949	3949				12.9 <sup>F</sup>				10.693 (21)	10.250 (30)	10.060 (19) <sup>F</sup>		-4.5 (4)	0.7 (4)	1.1 (7.4)	-6.8 (7.4)	-0.31	0.13		
831	21:43:56.70	57:35:55.1 <sup>F</sup>	950	508				11.3 <sup>F</sup>				10.340 (21)	10.091 (30)	9.970 (21) <sup>F</sup>		1.8 (2)	-8.9 (2)	-9.6 (1.4)	-7.4 (1.4)	0.95	-0.75		
832	21:44:17.90	57:34:44.2 <sup>F</sup>	952	3952				14 <sup>F</sup>				12.158 (23)	11.809 (31)	11.682 (18) <sup>F</sup>		-6.7 (3.8)	13.2 (3.8)	13.7 (7.3)	-0.4 (7.4)	-1.3	1.05		
833	21:44:31.31	57:33:30.0 <sup>F</sup>	953	3953				14.4 <sup>F</sup>				11.846 (25)	11.441 (30)	11.272 (22) <sup>F</sup>		-11.5 (3.9)	-4.6 (3.9)	3 (7.2)	-16.6 (7.3)	0.34	-0.02		
834	21:44:32.71	57:34:19.5 <sup>F</sup>	954	3954				14.3 <sup>F</sup>				12.133 (27)	11.725 (32)	11.612 (18) <sup>F</sup>		-3.7 (4.1)	-15.7 (4.1)	-0.9 (7.3)	-25.6 (7.4)	0.46	-1.43		
835	21:44:36.08	57:35:01.4 <sup>F</sup>	955	3955				12.4 <sup>F</sup>				11.236 (25)	10.891 (32)	10.857 (22) <sup>F</sup>		-4.7 (4.1)	-15.2 (4.1)	1 (7.4)	-25.7 (7.4)	0.44	-1.5		
836	21:44:14.18	57:36:35.9 <sup>F</sup>	956	3956				13.5 <sup>F</sup>				11.541 (23)	11.142 (31)	10.966 (21) <sup>F</sup>		10.9 (11.5)	3.4 (11.5)	14.8 (7.4)	-7.1 (7.4)	-1.17	0.44		
837	21:44:07.36	57:37:01.2 <sup>F</sup>	957	3957				14.5 <sup>F</sup>				12.317 (23)	11.995 (32)	11.766 (21) <sup>F</sup>		1.5 (4)	2.2 (4)	8.1 (7.4)	-1.2 (7.3)	-0.82	0.25		
838	21:43:57.70	57:37:18.2 <sup>F</sup>	958	3958				14.4 <sup>F</sup>				11.750 (21)	11.168 (32)	10.976 (19) <sup>F</sup>		-11.7 (4)	0.1 (4)	-4.1 (7.3)	-7.8 (7.4)	0.34	0.2		
839	21:43:22.33	57:39:53.8 <sup>F</sup>	959	3959				12.5 <sup>F</sup>				11.848 (27)	11.671 (33)	11.617 (24) <sup>F</sup>		-20.2 (11.6)	-7.2 (11.6)	-1 (4)	-2.9 (2.3)	0.21	-0.4		
840	21:43:58.34	57:39:13.6 <sup>F</sup>	960	3960				13.5 <sup>F</sup>				11.488 (23)	11.054 (31)	10.886 (23) <sup>F</sup>		-13.8 (3.8)	-6.2 (3.8)	-9.5 (7.3)	-20.4 (7.3)	0.67	-0.91		
841	21:43:20.36	57:42:21.9 <sup>F</sup>	961	3961				13 <sup>F</sup>				10.127 (27)	9.386 (31)	9.156 (19) <sup>F</sup>		-1.3 (4.7)	-2.5 (4.7)	-0.5 (7.5)	-4.4 (7.5)	-0.04	-0.04		
842	21:43:24.69	57:42:41.2 <sup>F</sup>	962	3962				13.8 <sup>F</sup>				11.833 (30)	11.465 (32)	11.276 (21) <sup>F</sup>		24.6 (19.8)	-44.3 (19.8)		0		-0.13		
843	21:43:52.66	57:42:38.0 <sup>F</sup>	963	3963				13.2 <sup>F</sup>														no star	
844	21:44:09.03	57:40:48.7 <sup>F</sup>	964	510				11.7 <sup>F</sup>				14.433 (93)	13.523 (66)	13.076 (50) <sup>F</sup>	A5 <sup>q</sup>			3.2 (2.7)	2.3 (1.4)	-0.34	0.09	2x[r] (faint)	
845	21:44:08.56	57:40:52.2 <sup>F</sup>	964	510				11.7 <sup>F</sup>				10.709 (28)	10.459 (36)	10.374 (33) <sup>F</sup>	A5 <sup>q</sup>	-8.3 (2.7)	-6 (2.7)	3.2 (2.7)	2.3 (1.4)	-0.34	0.09	2x[r]	
846	21:44:15.67	57:41:09.0 <sup>F</sup>	965	3965				12.1 <sup>F</sup>				11.176 (23)	10.889 (31)	10.742 (21) <sup>F</sup>		41.5 (14.3)	20 (14.3)	34.5 (1.7)	29.9 (1.5)	-3.86	3.15		
847	21:44:25.15	57:41:37.7 <sup>F</sup>	966	3966				10.9 <sup>F</sup>				8.682 (19)	8.052 (31)	7.900 (21) <sup>F</sup>		-12.6 (2.8)	12.9 (2.8)	-4.8 (1.1)	-3.9 (2.3)	0.83	-0.55		
848	21:44:21.52	57:44:14.3 <sup>F</sup>	967	763	9.33 <sup>l</sup>	9.32 <sup>l</sup>	9 <sup>l</sup>					8.247 (24)	8.146 (23)	8.158 (29) <sup>F</sup>	B8 <sup>p</sup> III <sup>p</sup>	1.5 (0.7)	2 (0.8)	2 (0.6)	1.6 (0.6)	-0.01	-0.07		
849	21:43:11.02	57:35:42.8 <sup>F</sup>	968	3968				13 <sup>F</sup>				11.988 (29)	11.811 (33)	11.718 (21) <sup>F</sup>		-6.2 (5.1)	-3.3 (5.1)	-6.9 (1.9)	-8.1 (1.6)	0.55	-0.74		
850	21:42:26.19	57:47:03.3 <sup>F</sup>	1000	4000				12.2 <sup>F</sup>				10.155 (24)	9.518 (30)	9.368 (23) <sup>F</sup>		-9.7 (4.7)	-0.1 (4.7)	7.5 (6.8)	9.9 (6.8)	0.32	-0.1		
851	21:40:07.50	57:46:49.5 <sup>F</sup>	1001	733				11.6 <sup>F</sup>				10.844 (26)	10.562 (30)	10.521 (18) <sup>F</sup>	A3 <sup>q</sup>	-6.3 (3.9)	-5.2 (3.9)	-4.3 (1)	-6.4 (0.9)	-0.09	-0.19		
852	21:40:51.74	57:46:34.6 <sup>F</sup>	1002	4002				14.1 <sup>F</sup>				10.333 (24)	9.394 (26)	9.183 (23) <sup>F</sup>		-15.8 (4.7)	3.2 (4.7)	-107.2 (7.6)	48.1 (7.6)	0.03	0.35		
853	21:39:47.30	57:46:48.5 <sup>F</sup>	1003	4003				13.2 <sup>F</sup>				10.410 (24)	9.664 (28)	9.488 (19) <sup>F</sup>		-3.3 (4.7)	-4.6 (4.7)	-4.5 (7.7)	-7.7 (7.8)	0.2	-0.36		
854	21:41:50.36	57:47:04.4 <sup>F</sup>	1004	4004				12.5 <sup>F</sup>				8.676 (19)	7.681 (57)	7.393 (34) <sup>F</sup>		-433 (7.3)	-287.3 (6.9)	-7.9 (7.1)	-4.7 (7.2)	0.14	-0.18		
855	21:38:48.16	57:46:51.2 <sup>F</sup>	1005	4005				12.9 <sup>F</sup>				10.205 (22)	9.438 (28)	9.227 (22) <sup>F</sup>		-1.5 (4.7)	-2.1 (4.7)	3.4 (7.4)	9.1 (7.4)	0.06	0.16		
856	21:38:42.32	57:46:50.9 <sup>F</sup>	1006	4006				11.9 <sup>F</sup>				10.911 (24)	10.654 (28)	10.586 (20) <sup>F</sup>		-2.7 (2.7)	-5 (2.7)	-7.1 (1.2)	-5.1 (1.5)	0.25	-0.36		
857	21:38:30.29	57:46:26.6 <sup>F</sup>	1007	716	9.96 <sup>F</sup>		9.5 <sup>e</sup>					8.310 (26)	8.132 (51)	8.100 (23) <sup>F</sup>	A7 <sup>e</sup>	0.8 <sup>e</sup>	-3.4 (1.6)	-4.2 (1.6)	-5.8 (0.7)	-7.1 (1)	-0.06	-0.4	
858	21:37:58.30	57:46:43.3 <sup>F</sup>	1008	4008				12.4 <sup>F</sup>				9.895 (27)	9.188 (33)	8.961 (21) <sup>F</sup>		-18.8 (4.7)	8.3 (4.7)	-15.4 (8.5)	12.3 (8.6)	0.96	1.07		
859	21:38:16.01	57:47:06.0 <sup>F</sup>	1009	4009				13.5 <sup>F</sup>				11.896 (26)	11.544 (31)	11.434 (24) <sup>F</sup>		-9.7 (10.8)	-29.4 (10.8)	6.4 (7.3)	-49.4 (7.4)	-0.05	-3.08		
860	21:37:59.67	57:47:09.2 <sup>F</sup>	1010	4010				12.1 <sup>F</sup>				9.670 (26)	9.037 (29)	8.900 (18) <sup>F</sup>		-0.6 (4.7)	-3.8 (4.7)	10.9 (7.7)	-2.9 (7.8)	-0.22	-0.92		
861	21:38:38.50	57:48:18.9 <sup>F</sup>	1011	4011				11.7 <sup>F</sup>				9.259 (27)	8.505 (47)	8.296 (20) <sup>F</sup>		-0.5 (11.3)	-2.5 (11.3)	2.1 (6.9)	-34.7 (7.1)	-0.07	0.17		
862	21:38:08.75	57:49:24.4 <sup>F</sup>	1012	4012				12.9 <sup>F</sup>				11.433 (26)	11.163 (32)	11.027 (21) <sup>F</sup>		-2.9 (3.8)	1.2 (3.8)	-5.6 (7.5)	3.2 (7.5)	0.03	-0.13		
863	21:38:32.23	57:49:59.6 <sup>F</sup>	1014	4014				13.3 <sup>F</sup>				11.371 (26)	11.039 (31)	10.836 (19) <sup>F</sup>		10.2 (4)	0.1 (4)	14.9 (7.4)	5.7 (7.5)	-1.82	0.34		
864	21:38:52.32	57:50:26.1 <sup>F</sup>	1015	4015				13.7 <sup>F</sup>				10.614 (24)	9.855 (28)	9.684 (22) <sup>F</sup>		-1 (4.7)	-1.7 (4.7)	-7.1 (7.5)	2.6 (7.5)	-0.21	0.21		
865	21:38:53.28	57:51:19.6 <sup>F</sup>	1016	719				11.4 <sup>F</sup>				10.479 (27)	10.215 (33)	10.099 (22) <sup>F</sup>	G5 <sup>q</sup>	-4.8 (2)	-13.1 (1.9)	-6.7 (0.7)	-12.9 (0.6)	0.28	-1.13		
866	21:38:45.58	57:51:49.5 <sup>F</sup>	1017	4017				13.6 <sup>F</sup>				11.940 (26)	11.657 (33)	11.526 (25) <sup>F</sup>		3.1 (3.8)	-2.4 (3.8)	9.3 (7.4)	-12.8 (7.4)	-0.35	-0.09		
867	21:37:56.44	57:53:13.8 <sup>F</sup>	1018	4018				12.8 <sup>F</sup>				11.578 (27)	11.299 (31)	11.192 (19) <sup>F</sup>		-7.4 (3.8)	-3.6 (3.8)	-5 (7.4)	0.4 (7.4)	0.18	-0.27		
868	21:38:07.83	57:55:21.8 <sup>F</sup>	1020	4020				13.3 <sup>F</sup>				12.240 (26)	12.077 (31)	11.972 (19) <sup>F</sup>		-0.7 (3.8)	-8.2 (3.8)	-9.4 (0.7)	-8.7 (0.5)	0.26	-0.36		
869	21:38:18.76	57:55:16.1 <sup>F</sup>	1021	4021				13.7 <sup>F</sup>				11.951 (26)	11.651 (31)	11.500 (19) <sup>F</sup>		-8.3 (3.8)	-12.7 (3.8)	-8.8 (7.3)	-8.6 (7.3)	0.42	-0.25		
870	21:38:45.24	57:54:41.7 <sup>F</sup>	1022	717				10.4 <sup>F</sup>				9.299 (22)	8.991 (27)	8.952 (19) <sup>F</sup>	F8 <sup>q</sup>	6.9 (1.6)	21.9 (1.6)	5.5 (0.5)	18.9 (0.9)	-1.29	2.11		
871	21:38:53.88	57:52:34.9 <sup>F</sup>	1023	4023				13.8 <sup>F</sup>				11.868 (24)	11.518 (28)	11.392 (22) <sup>F</sup>		2.6 (3.8)	6.1 (3.8)	2.6 (7.4)	-1 (7.5)	-0.37	0.4		
872	21:38:59.18	57:53:00.9 <sup>F</sup>	1024	4024				12.1 <sup>F</sup>				9.649 (22)	8.931 (30)	8.767 (22) <sup>F</sup>		-6.5 (4.7)	6.3 (4.7)	12.9 (7)	-50.7 (7.2)	-0.1	-0.25		
873	21:37:53.82	57:57:50.3 <sup>F</sup>	1025	4025				12 <sup>F</sup>				10.170 (34)	9.623 (35)	9.494 (24) <sup>F</sup>		-2.4 (4.7)	0.3 (4.7)	-9.1 (7.3)	24.1 (7.3)	-0.33	-0.8		
874	21:38:19.41	57:58:01.1 <sup>F</sup>	1026	4026				11.8 <sup>F</sup>				9.495 (26)	8.838 (31)	8.681 (18) <sup>F</sup>		-6.2 (4.7)	16 (4.7)	-1.1 (8.6)	19.6 (8.7)	0.01	2.35		
875	21:38:25.44	57:56:24.5 <sup>F</sup>	1027	4027				13.8 <sup>F</sup>				10.422 (26)	9.662 (31)	9.402 (21) <sup>F</sup>		1.7 (4.7)	-2.7 (4.7)	-3.8 (7.8)	21.5 (7.				

**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments	
		J2000		DA	2004			mag	mag	mag	mag	mag	mag			mag	PPMXL	mas/yr	mas/yr	UCAC3	mas/yr	MVA	[j]	
		hh:mm:ss.ss	dd:mm:ss.s			mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr		
877	21:38:00.09	57:59:36.6 <sup>F</sup>	1029	4029		13.1 <sup>j</sup>		11.251 (26)	10.662 (32)	10.519 (19) <sup>F</sup>						81.6 (3.8)	65.2 (3.8)	75.1 (7.2)	58.2 (7.2)					
878	21:38:20.11	57:59:31.8 <sup>F</sup>	1030	715		11.1 <sup>j</sup>		10.097 (32)	9.864 (42)	9.763 (28) <sup>F</sup>				A0 <sup>q</sup>		-8.7 (2)	-13.1 (2)	-5.8 (5.1)	10.8 (5.4)	0.3	-0.22			
879	21:38:37.74	57:58:19.7 <sup>F</sup>	1031	4031		13.7 <sup>j</sup>		10.947 (29)	10.389 (37)	10.217 (26) <sup>F</sup>						-20.2 (3.8)	-13 (3.8)	-79.5 (8)	-44.1 (8)	0.22	-0.39			
880	21:38:44.49	57:58:32.2 <sup>F</sup>	1032	4032		12.8 <sup>j</sup>		10.317 (22)	9.844 (30)	9.660 (20) <sup>F</sup>						-4.3 (4.7)	0.7 (4.7)	-14.1 (8.1)	-0.7 (8.1)	-0.11	-0.13			
881	21:37:58.68	58:01:38.4 <sup>F</sup>	1033	4033		13.2 <sup>j</sup>		10.459 (26)	9.717 (31)	9.529 (21) <sup>F</sup>						-3 (4.7)	7.8 (4.7)	15.1 (8.2)	14.2 (8.2)	-0.66	1.43			
882	21:38:54.76	57:58:36.1 <sup>F</sup>	1034	718		11.3 <sup>j</sup>		9.616 (24)	9.023 (28)	8.915 (22) <sup>F</sup>				dK3: <sup>q</sup>		129 (2.7)	147.8 (2.7)	128	150			[j] imprec.		
883	21:38:14.76	58:05:27.6 <sup>F</sup>	1035	4035		12.8 <sup>j</sup>		10.683 (26)	10.230 (30)	10.101 (19) <sup>F</sup>						-0.4 (3.8)	-6.8 (3.8)	1.8 (7.2)	-10.3 (7.1)	0.39	-0.09			
884	21:38:45.13	58:04:30.2 <sup>F</sup>	1036	4036		12.4 <sup>j</sup>		11.271 (22)	11.058 (30)	10.960 (23) <sup>F</sup>						-0.3 (3.8)	-0.1 (3.8)	-8.6 (1.5)	-1.2 (2.7)	-0.02	0.02			
885	21:39:14.07	57:48:04.8 <sup>F</sup>	1037	721		10.13 <sup>l</sup>	10.46 <sup>l</sup>	10.13 <sup>l</sup>	9.022 (24)	8.827 (28)	8.624 (22) <sup>F</sup>			B3P	VP	-4.8 (1.2)	-3.7 (1.3)	-3.4 (0.6)	-2.5 (0.9)	-0.17	0.06			
886	21:39:34.04	57:47:17.1 <sup>F</sup>	1038	4038		11.7 <sup>j</sup>		9.355 (26)	8.591 (28)	8.419 (21) <sup>F</sup>						-7.4 (4.7)	-0.1 (4.7)	-9.5 (2.7)	-2.1 (1)	0.07	0.07			
887	21:39:20.66	57:49:37.2 <sup>F</sup>	1039	4039		11.8 <sup>j</sup>		10.868 (24)	10.483 (29)	10.443 (23) <sup>F</sup>						10.2 (2.7)	0.3 (2.7)	6.5 (1.2)	-1 (0.8)	-1.04	0			
888	21:39:33.59	57:49:17.0 <sup>F</sup>	1040	4040		13.7 <sup>j</sup>		11.679 (0)	11.473 (0)	11.474 (36) <sup>F</sup>						10.5 (3.8)	5.7 (3.8)	41.2 (7.4)	33.7 (7.4)	0.44	-0.15			
889	21:39:46.37	57:49:11.0 <sup>F</sup>	1041	4041		13.3 <sup>j</sup>		12.049 (26)	11.795 (28)	11.713 (23) <sup>F</sup>						-10.3 (3.9)	2.7 (3.9)	-5.7 (7.5)	1.3 (7.5)	-0.05	0.01			
890	21:39:57.46	57:49:45.8 <sup>F</sup>	1042	4042		12.2 <sup>j</sup>		10.704 (26)	10.309 (30)	10.224 (23) <sup>F</sup>						-10.2 (12.6)	-13.8 (12.6)	-18.9 (6.2)	-9.7 (7.2)	1.48	-0.7			
891	21:39:58.73	57:49:52.3 <sup>F</sup>	1043	4043		12 <sup>j</sup>		11.406 (34)	11.143 (0)	11.114 (0) <sup>F</sup>						-4.5 (2.7)	-1.6 (2.7)	-7.7 (0.7)	-3 (1.7)	0.1	0.07			
892	21:40:08.81	57:48:11.8 <sup>F</sup>	1044	734		11.8 <sup>j</sup>		11.306 (26)	11.178 (27)	11.132 (21) <sup>F</sup>				A0 <sup>q</sup>		-6.9 (2.7)	1.5 (2.7)	-5.2 (0.7)	-3.5 (1)	-0.06	-0.02			
893	21:39:19.13	57:52:43.1 <sup>F</sup>	1045	4045		13.7 <sup>j</sup>		11.958 (35)	11.667 (44)	11.519 (34) <sup>F</sup>						-7.3 (5.1)	2.3 (5)			-0.26	-0.02			
894	21:39:21.36	57:52:40.1 <sup>F</sup>	1046	722		8.5 <sup>j</sup>		6.171 (19)	5.662 (33)	5.582 (16) <sup>F</sup>				g:G8 <sup>q</sup>		-18.5 (1.2)	-4.3 (1.2)	-15.3 (0.6)	-6.7 (0.7)	0.96	-0.37			
895	21:39:28.27	57:51:18.0 <sup>F</sup>	1047	4047		12.4 <sup>j</sup>		11.488 (22)	11.327 (32)	11.239 (23) <sup>F</sup>						-6.8 (2.7)	-10.6 (2.7)	-6.7 (1.3)	-5.2 (5.1)	0.09	-0.15			
896	21:39:36.80	57:52:43.0 <sup>j</sup>	1048	4048		12.5 <sup>j</sup>															0.94	1.07	new coordinates, no star	
897	21:39:33.90	57:53:04.9 <sup>F</sup>	1049	4049		13.8 <sup>j</sup>		9.599 (23)	8.595 (21)	8.364 (23) <sup>F</sup>						-3.1 (4.8)	-2.5 (4.8)	0.4 (7.8)	9.5 (7.9)	-0.05	0.11			
898	21:39:31.41	57:53:30.1 <sup>F</sup>	1050	726		11.1 <sup>j</sup>		10.248 (24)	9.948 (30)	9.855 (22) <sup>F</sup>				G2 <sup>q</sup>		-29.8 (2)	-27.4 (2)	-31.5 (0.7)	-24.7 (0.9)	2.75	-1.88			
899	21:39:04.04	57:55:04.9 <sup>F</sup>	1051	4051		12.2 <sup>j</sup>		9.857 (22)	9.252 (30)	9.066 (20) <sup>F</sup>						-0.7 (4.7)	0.3 (4.7)	-3 (8.6)	2.7 (8.6)	-0.39	0.83			
900	21:39:46.08	57:55:40.8 <sup>F</sup>	1052	4052		12.9 <sup>j</sup>		9.883 (23)	9.161 (27)	8.944 (20) <sup>F</sup>						-8.3 (12.8)	-7.7 (12.8)	-4.4 (7.3)	-5 (7.3)	-0.19	0.06			
901	21:39:40.53	57:57:14.8 <sup>F</sup>	1053	4053		13.6 <sup>j</sup>		11.067 (21)	10.434 (28)	10.078 (20) <sup>F</sup>						-2.8 (3.8)	-2.4 (3.8)	-5.3 (7.3)	-2.1 (7.3)	-0.19	-0.26			
902	21:39:33.70	57:59:38.8 <sup>F</sup>	1054	4054		11.3 <sup>j</sup>		8.548 (29)	7.782 (17)	7.623 (17) <sup>F</sup>						-0.7 (2.8)	-13.1 (2.8)	-5.3 (2.5)	-7.7 (1.1)	0.04	-0.39			
903	21:39:06.72	58:01:00.2 <sup>F</sup>	1055	4055		13.7 <sup>j</sup>		10.055 (22)	9.173 (28)	8.896 (20) <sup>F</sup>						-1.4 (4.7)	-5.7 (4.7)	-6.6 (7.5)	-4.4 (7.5)	-0.46	0.32			
904	21:39:19.32	58:01:02.1 <sup>F</sup>	1056	4056		13.8 <sup>j</sup>		10.589 (22)	9.871 (28)	9.658 (23) <sup>F</sup>						1.9 (6)	6.2 (6)			-0.02	0.26			
905	21:39:20.20	58:01:48.3 <sup>F</sup>	1057	723		10.9 <sup>j</sup>		9.795 (22)	9.567 (30)	9.459 (20) <sup>F</sup>				A3 <sup>q</sup>		-14.1 (2)	-9.6 (2)	-12.4 (1.4)	-9.3 (1.5)	0.54	-0.2			
906	21:39:40.59	57:59:55.3 <sup>F</sup>	1058	4058		13.9 <sup>j</sup>		12.121 (24)	11.815 (30)	11.695 (22) <sup>F</sup>						-1.7 (3.8)	-4 (3.8)	-2.5 (7.2)	-14.3 (7.3)	0.07	-0.26			
907	21:39:37.40	58:00:50.7 <sup>F</sup>	1059	4059		13.3 <sup>j</sup>		9.403 (23)	8.428 (65)	8.137 (24) <sup>F</sup>						-2.7 (4.7)	-4 (4.7)	-5.9 (8.4)	-9.4 (8.4)	-0.28	0.13			
908	21:40:02.95	57:56:16.2 <sup>F</sup>	1060	732		11.4 <sup>j</sup>		10.043 (23)	9.836 (28)	9.663 (20) <sup>F</sup>				A0 <sup>q</sup>		-7.2 (2.7)	-15.9 (2.7)	-5.9 (0.9)	-6.5 (2.5)	0.07	-0.07			
909	21:40:02.19	57:57:18.3 <sup>F</sup>	1061	731		11.7 <sup>f</sup>	11.3 <sup>e</sup>	9.363 (23)	9.217 (27)	9.070 (22) <sup>F</sup>				A1 <sup>e</sup>	1.2 <sup>e</sup>	-6.4 (1.7)	-9.9 (1.7)	-8 (0.8)	-6.8 (0.6)	0.11	-0.19			
910	21:39:52.58	58:00:40.0 <sup>F</sup>	1062	4062		12.2 <sup>j</sup>		8.177 (20)	7.288 (42)	6.911 (18) <sup>F</sup>						-3 (4.7)	-2.1 (4.7)	-9.7 (7.7)	-2.7 (7.8)	-0.09	0.12			
911	21:40:09.07	58:00:50.3 <sup>F</sup>	1063	735		9.7 <sup>j</sup>		8.872 (23)	8.796 (30)	8.812 (22) <sup>F</sup>				B8 <sup>q</sup>		6 (1.6)	-1.8 (1.6)	-4.2 (0.7)	-4.5 (0.8)	-0.4	0.07			
912	21:39:45.40	58:03:33.4 <sup>F</sup>	1064	4064		11 <sup>j</sup>		8.311 (26)	7.591 (29)	7.425 (20) <sup>F</sup>						0.9 (2.8)	-12.3 (2.8)	1 (2.3)	-9.4 (1.5)	-0.6	-0.28			
913	21:39:30.13	58:05:11.4 <sup>F</sup>	1065	4065		13.6 <sup>j</sup>		11.594 (24)	11.248 (31)	11.114 (26) <sup>F</sup>						-4.7 (3.8)	-1.6 (3.8)	-2.4 (7.2)	-8.8 (7.3)	0.37	-0.47			
914	21:39:32.25	58:05:52.6 <sup>F</sup>	1066	4066		11.3 <sup>j</sup>		10.645 (26)	10.410 (32)	10.324 (22) <sup>F</sup>						2.5 (2.7)	0.7 (2.7)	1.1 (0.9)	0.6 (0.8)	-0.53	0.37			
915	21:39:49.96	58:06:21.5 <sup>F</sup>	1068	4068		11.2 <sup>j</sup>		10.477 (24)	10.267 (31)	10.207 (22) <sup>F</sup>						-7.8 (2)	-5.1 (2)	-6.9 (0.6)	-6.3 (0.6)	0.05	-0.06			
916	21:40:21.07	58:02:10.9 <sup>F</sup>	1069	736		11.3 <sup>j</sup>		10.390 (23)	10.197 (28)	10.135 (20) <sup>F</sup>				A3 <sup>q</sup>		-13.8 (2.7)	-1.1 (2.7)	-7.8 (0.7)	-6.1 (0.6)	0.22	-0.19			
917	21:40:23.40	57:51:20.1 <sup>F</sup>	1070	4070		12.3 <sup>j</sup>		11.091 (24)	10.824 (28)	10.729 (23) <sup>F</sup>						-8.7 (3.8)	-0.3 (3.8)	-7 (1.3)	-4.3 (1.8)	0.13	0.13			
918	21:40:57.73	57:49:26.4 <sup>F</sup>	1071	4071		13.8 <sup>j</sup>		11.899 (24)	11.536 (29)	11.396 (26) <sup>F</sup>						-13.3 (3.8)	-11.4 (3.8)	-3.5 (7.4)	-23.7 (7.4)	1.13	-0.77			
919	21:41:04.36	57:51:17.3 <sup>F</sup>	1072	4072		12 <sup>j</sup>		7.510 (20)	6.354 (49)	6.003 (21) <sup>F</sup>						-2.8 (4.9)	-4.2 (4.9)	-0.8 (6.6)	-1.1 (6.7)	-0.36	0.07			
920	21:41:30.03	57:48:13.7 <sup>F</sup>	1073	4073		13.4 <sup>j</sup>		12.026 (26)	11.624 (30)	11.556 (23) <sup>F</sup>						-5.9 (13.5)	5.5 (13.5)	-7 (7.4)	6.1 (7.4)	-0.06	1.51			
921	21:41:30.13	57:49:31.9 <sup>F</sup>	1074	4074		12.2 <sup>j</sup>		11.293 (26)	11.035 (28)	10.965 (19) <sup>F</sup>						-20.3 (3.8)	-5.9 (3.8)	-14.9 (1.4)	-4.6 (1.3)	1.21	-0.5			
922	21:40:58.71	57:52:22.8 <sup>j</sup>	1075	4075		12.3 <sup>j</sup>																	no star	
923	21:41:38.48	57:50:40.8 <sup>F</sup>	1076	4076		13.3 <sup>j</sup>		10.588 (27)	9.864 (28)	9.693 (21) <sup>F</sup>						-2.4 (4.7)	-1.8 (4.7)	5.8 (7.5)	1 (7.5)	0.06	0.37			
924	21:40:51.27	57:56:30.3 <sup>F</sup>	1077	4077		12.8 <sup>j</sup>		11.409 (23)	10.973 (32)	10.899 (23) <sup>F</sup>						-0.2 (3.8)	-6.5 (3.8)	15.5 (7.8)	-13 (7.8)	-0.28	-0.62			
925	21:41:19.81	57:54:54.5 <sup>F</sup>	1078	4078		13.2 <sup>j</sup>		11.917 (27)	11.630 (32)	11.537 (21) <sup>F</sup>						-5.7 (3.8)	4.2 (3.8)	-4 (7.3)	-2.1 (7.4)	-0.25	0.62			
926	21:41:39.84	57:54:22.6 <sup>j</sup>	1079	4079		12.1 <sup>j</sup>		13.697 (32)	13.228 (40)	13.075 (37) <sup>F</sup>						-3.8 (3.8)	-2.6 (3.8)	-1.3 (7.3)	-5.1 (7.5)			new coordinates		
927	21:41:36.16	57:54:31.9 <sup>F</sup>	1080	4080		12.9 <sup>j</sup>		12.867 (27)	12.538 (33)	12.351 (28) <sup>F</sup>						-8.1 (3.8)	-10.5 (3.8)	-4.2 (7.2)	-10.1 (7.3)			new coordinates		

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments	
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004												PPMXL	mas/yr	mas/yr	UCAC3	mas/yr	MVA [j]	mas/yr	mas/yr
						mag	mag	mag	mag	mag	mag	mag	mag				mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
930	21:41:15.31	58:00:42.3 <sup>F</sup>	1083	4083		13.3 <sup>j</sup>					11.025 (25)	10.446 (29)	10.238 (19) <sup>F</sup>				-6 (3.8)	-25.6 (3.8)	-9.8 (8.3)	-100.6 (8.3)	0.03	0.02		
931	21:41:02.14	58:01:52.4 <sup>F</sup>	1084	4084		12.7 <sup>j</sup>					11.558 (24)	11.333 (30)	11.182 (23) <sup>F</sup>				-5.2 (3.8)	1.1 (3.8)	-7.6 (0.8)	-2.3 (1.8)	-0.07	-0.02		
932	21:41:01.33	58:04:49.5 <sup>F</sup>	1085	4085		12.8 <sup>j</sup>					11.195 (21)	10.846 (31)	10.723 (22) <sup>F</sup>				-3.3 (11.2)	-6.5 (11.2)	-25 (7.2)	-1 (7.2)	-0.09	0.09		
933	21:41:21.70	58:03:41.2 <sup>F</sup>	1086	4086		13.4 <sup>j</sup>					11.955 (29)	11.700 (32)	11.564 (23) <sup>F</sup>				-14.3 (3.8)	-5.6 (3.8)	-15.9 (7.3)	-11.5 (7.3)	0.55	-0.37		
934	21:41:24.75	58:03:26.9 <sup>F</sup>	1087	4087		13.8 <sup>j</sup>					11.178 (27)	10.536 (32)	10.332 (21) <sup>F</sup>				-4.8 (3.8)	-20.9 (3.8)	-16.4 (7.5)	-67.2 (7.5)	-0.29	-0.07		
935	21:41:49.90	58:02:21.0 <sup>F</sup>	1088	4088		14.1 <sup>j</sup>					12.504 (27)	12.300 (30)	12.156 (23) <sup>F</sup>				2.1 (3.8)	-24 (3.8)				-0.18	0.1	
936	21:41:28.83	58:04:57.9 <sup>F</sup>	1090	4090		12.1 <sup>j</sup>					9.739 (27)	9.056 (32)	8.863 (21) <sup>F</sup>				-2 (4.7)	-6.6 (4.7)	-0.7 (7.6)	-24.7 (7.6)	-0.36	0.32		
937	21:41:53.28	57:51:35.9 <sup>F</sup>	1091	747		8.9 <sup>j</sup>					6.439 (32)	5.853 (42)	5.719 (18) <sup>F</sup>	gK0 <sup>q</sup>			14.9 (1.3)	15.4 (1.3)	15.4 (0.8)	16.1 (0.8)	-2.17	1.81		
938	21:42:02.38	57:51:18.0 <sup>F</sup>	1092	4092		13.6 <sup>j</sup>					10.752 (24)	10.067 (32)	9.904 (21) <sup>F</sup>				-16.4 (4.7)	2.7 (4.7)	-21 (7.4)	-3.6 (7.4)	0.77	0.39		
939	21:42:07.91	57:50:22.2 <sup>F</sup>	1093	4093		11.5 <sup>j</sup>					10.219 (24)	9.821 (30)	9.740 (21) <sup>F</sup>				-4.4 (2.7)	-5.5 (2.7)	-4.6 (1.8)	-4.2 (1.5)	-0.02	-0.22		
940	21:42:12.52	57:47:34.2 <sup>F</sup>	1094	4094		11.3 <sup>j</sup>					10.429 (24)	10.085 (32)	10.007 (21) <sup>F</sup>				-9.1 (2.7)	-1.2 (2.7)	-5.2 (0.7)	3.9 (1.7)	0.3	0.66		
941	21:42:27.62	57:48:45.0 <sup>F</sup>	1095	4095		14.2 <sup>j</sup>					12.506 (24)	12.159 (31)	12.071 (23) <sup>F</sup>				-5.2 (3.8)	-7.6 (3.8)	-8.4 (7.9)	-10.4 (8)	0.42	-0.6		
942	21:42:27.81	57:49:37.7 <sup>F</sup>	1096	4096		13.6 <sup>j</sup>					12.201 (26)	11.972 (31)	11.870 (24) <sup>F</sup>				-21.2 (3.9)	-6.3 (3.9)	-13 (7.8)	-41.2 (7.8)	0.63	-0.25		
943	21:42:21.45	57:49:52.5 <sup>F</sup>	1097	749		10.4 <sup>j</sup>					9.600 (24)	9.430 (31)	9.347 (21) <sup>F</sup>	A3 <sup>q</sup>			-10 (2)	-12.9 (2)	-6.3 (0.9)	-15.3 (0.7)	0.5	-1		
944	21:42:29.11	57:50:50.2 <sup>F</sup>	1098	751	9.97 <sup>l</sup>	10.15 <sup>l</sup>	10 <sup>l</sup>				9.580 (24)	9.574 (30)	9.551 (21) <sup>F</sup>	B8 <sup>q</sup>			-5.7 (2)	-5.8 (2)	-5.7 (0.6)	-4.7 (0.7)	0.15	0		
945	21:41:59.48	57:53:55.2 <sup>F</sup>	1099	4099		13.5 <sup>j</sup>					12.234 (0)	12.146 (0)	12.019 (0) <sup>F</sup>				-8.7 (3.8)	-3 (3.8)	-23.5 (7.8)	-12.8 (7.8)	-0.01	-0.07		
946	21:42:20.17	57:53:06.7 <sup>F</sup>	1100	4100		13.7 <sup>j</sup>					11.832 (29)	11.506 (31)	11.355 (24) <sup>F</sup>				-6.2 (3.8)	-5.2 (3.8)	-12.2 (7.4)	-10.5 (7.4)	0.2	-0.26		
947	21:42:27.91	57:53:12.6 <sup>F</sup>	1101	4101		13.7 <sup>j</sup>					12.094 (27)	11.773 (31)	11.693 (23) <sup>F</sup>				-25.4 (18.5)	-9.6 (18.5)	-11.3 (7)	-22 (7)	0.05	0.11		
948	21:42:32.01	57:53:56.8 <sup>F</sup>	1102	4102		12.3 <sup>j</sup>					11.345 (26)	11.052 (31)	10.996 (21) <sup>F</sup>				-14.8 (3.8)	-5.2 (3.8)	-9.1 (7.2)	-7.1 (4.6)	0.51	-0.19		
949	21:41:44.06	57:55:56.3 <sup>F</sup>	1103	4103		13.6 <sup>j</sup>					10.530 (27)	9.796 (30)	9.564 (21) <sup>F</sup>				4.1 (4.7)	-0.6 (4.7)	-1.5 (7.2)	-15.1 (7.2)	-0.32	0.02		
950	21:42:09.72	57:57:17.1 <sup>F</sup>	1104	4104		13.1 <sup>j</sup>					10.680 (26)	10.021 (30)	9.846 (21) <sup>F</sup>				-13.4 (4.7)	-7 (4.7)	-11.1 (7.7)	-11.7 (7.7)	0.49	-0.33		
951	21:42:32.16	57:56:32.9 <sup>F</sup>	1105	4105		12.4 <sup>j</sup>					9.084 (21)	8.140 (38)	7.874 (18) <sup>F</sup>				-9.1 (4.7)	0.5 (4.7)	2.3 (7.1)	-8.2 (7.2)	0.09	0.11		
952	21:42:37.73	57:56:52.8 <sup>F</sup>	1106	4106		12.5 <sup>j</sup>					11.863 (26)	11.685 (31)	11.645 (19) <sup>F</sup>				-3.5 (3.8)	1.6 (3.8)	-8.9 (3.2)	-3.7 (2.1)	0.19	-0.13		
953	21:42:52.48	57:56:00.1 <sup>F</sup>	1107	4107		12.8 <sup>j</sup>					11.479 (29)	11.177 (32)	11.034 (23) <sup>F</sup>				202 (7.4)	-43.3 (7.4)	-7.3 (3.8)	-9.9 (5)	0.47	-0.44		
954	21:41:48.34	57:58:41.4 <sup>F</sup>	1108	4108		13.6 <sup>j</sup>					11.023 (29)	10.338 (31)	10.149 (21) <sup>F</sup>				12.5 (3.8)	5.7 (3.8)	14.1 (7.3)	11.6 (7.3)	-1.79	0.52		
955	21:41:53.26	58:00:15.1 <sup>F</sup>	1109	4109		13.8 <sup>j</sup>					12.167 (30)	11.814 (30)	11.704 (23) <sup>F</sup>				-12.4 (3.8)	-34.6 (3.8)			0.88	-0.79		
956	21:42:17.73	57:59:06.5 <sup>F</sup>	1110	748		10.1 <sup>j</sup>					9.141 (32)	8.869 (31)	8.833 (19) <sup>F</sup>	F8 <sup>q</sup>			-33.5 (1.3)	-37 (1.4)	-33.6 (0.8)	-36.4 (0.6)	3.22	-2.86		
957	21:42:15.09	58:00:03.7 <sup>F</sup>	1111	4111		13.5 <sup>j</sup>					12.080 (24)	11.719 (29)	11.658 (23) <sup>F</sup>				-44 (3.8)	2.9 (3.8)	-38.8 (7.3)	-11.1 (7.3)	3.37	0.33		
958	21:42:37.82	57:59:08.0 <sup>F</sup>	1112	4112		12.3 <sup>j</sup>					11.160 (26)	10.796 (29)	10.684 (21) <sup>F</sup>				-10 (3.8)	-15.9 (3.8)	-3.3 (1.9)	-20.3 (2.5)	0.15	-1.3		
959	21:42:32.99	57:59:24.5 <sup>F</sup>	1113	4113		12.9 <sup>j</sup>					10.068 (26)	9.279 (31)	9.070 (19) <sup>F</sup>				-15 (4.7)	2.1 (4.7)	5.4 (7.3)	-5.8 (7.3)	0.4	0.37		
960	21:42:07.06	58:00:53.7 <sup>F</sup>	1114	4114		12.9 <sup>j</sup>					11.560 (27)	11.330 (30)	11.168 (23) <sup>F</sup>				-6.6 (3.8)	-7.2 (3.8)	-11.7 (7.2)	-27 (7.2)	-0.34	0.09		
961	21:41:47.35	58:07:20.2 <sup>F</sup>	1115	4115		12.1 <sup>j</sup>					9.668 (29)	8.924 (31)	8.722 (19) <sup>F</sup>				-17.7 (4.7)	-4 (4.7)	-17.9 (7.3)	-10.9 (7.3)	0.6	0.22		
962	21:42:00.21	58:06:18.3 <sup>F</sup>	1116	4116		13.5 <sup>j</sup>					11.796 (27)	11.471 (31)	11.361 (21) <sup>F</sup>				-12.2 (3.8)	-15.2 (3.8)	-17.9 (7.6)	-19.5 (7.6)	0.86	-0.69		
963	21:42:16.60	58:06:58.7 <sup>F</sup>	1117	4117		13.3 <sup>j</sup>					11.703 (27)	11.446 (31)	11.304 (21) <sup>F</sup>				-4.8 (3.8)	5.4 (3.8)	3.9 (7.1)	-3.5 (7.2)	-0.49	0.58		
964	21:42:55.39	57:51:28.9 <sup>F</sup>	1118	4118		13.1 <sup>j</sup>					10.848 (25)	10.463 (30)	10.429 (23) <sup>F</sup>				-0.4 (3.8)	-0.2 (3.8)	0.1 (0.7)	-2.5 (0.9)	-0.78	-0.11		
965	21:42:48.36	57:47:34.0 <sup>F</sup>	1119	4119		12.7 <sup>j</sup>					10.262 (27)	9.559 (29)	9.376 (23) <sup>F</sup>				-8.3 (4.7)	4.7 (4.7)	14.4 (7)	-14.2 (7)	0.22	-0.11		
966	21:42:53.68	57:48:46.6 <sup>F</sup>	1120	4120		13.7 <sup>j</sup>					10.494 (25)	9.823 (30)	9.621 (21) <sup>F</sup>				-20.2 (11.6)	7 (11.6)	5.9 (7.4)	-5.6 (7.5)	-0.61	0.21		
967	21:43:10.00	57:59:55.9 <sup>F</sup>	1121	4121		12.7 <sup>j</sup>					11.236 (25)	10.925 (33)	10.812 (21) <sup>F</sup>				2.5 (3.8)	7.6 (3.8)	3.3 (2.5)	1.9 (0.6)				
968	21:42:46.26	58:05:36.4 <sup>F</sup>	1122	4122		13.3 <sup>j</sup>					10.273 (25)	9.651 (36)	9.398 (21) <sup>F</sup>				-4.5 (4.7)	-13 (4.7)	-2.6 (7.5)	-14.1 (7.6)				
969	21:37:44.06	57:46:15.0 <sup>j</sup>	1150	4150		13.4 <sup>j</sup>																	no star	
970	21:36:37.03	57:46:15.6 <sup>F</sup>	1151	4151		13.9 <sup>j</sup>					11.919 (24)	11.638 (31)	11.461 (25) <sup>F</sup>				-5.8 (4)	4.3 (4)	-7.3 (7.4)	4.4 (7.5)	0.35	-0.58		
971	21:36:19.20	57:45:54.0 <sup>F</sup>	1152	4152		11.2 <sup>j</sup>					10.210 (23)	9.940 (29)	9.856 (22) <sup>F</sup>				4.6 (2.7)	30.5 (2.7)	3.9 (0.7)	22.1 (1.2)	-0.95	2.02		
972	21:36:07.71	57:39:44.4 <sup>F</sup>	1153	4153		12.3 <sup>j</sup>					10.375 (27)	9.825 (36)	9.613 (23) <sup>F</sup>				44.4 (4.7)	12.9 (4.7)	31.1 (7.5)	-5.5 (7.5)	-4.84	0.38		
973	21:37:51.24	57:59:28.1 <sup>F</sup>	1154	713		10.8 <sup>j</sup>					9.567 (26)	9.179 (31)	9.144 (19) <sup>F</sup>	dK0 <sup>q</sup>			14 (1.7)	-25.4 (1.7)	12.4 (0.6)	-21.1 (1.4)	-1.47	-2.15		
974	21:34:51.92	57:30:52.2 <sup>F</sup>	1155	4155		13.6 <sup>j</sup>					11.997 (24)	11.728 (29)	11.608 (23) <sup>F</sup>				-4.4 (3.8)	-2 (3.8)	-16.1 (7.5)	6.4 (7.5)	-0.52	0.44		
975	21:35:09.46	57:31:04.0 <sup>F</sup>	1156	4156		12.7 <sup>j</sup>					11.532 (21)	11.249 (29)	11.155 (20) <sup>F</sup>				-14.9 (3.8)	-12.3 (3.8)	-19.8 (7.2)	-24.4 (7.1)	-0.04	-0.6		
976	21:35:11.35	57:31:34.7 <sup>F</sup>	1157	4157		13.6 <sup>j</sup>					12.172 (22)	11.817 (25)	11.774 (23) <sup>F</sup>				-15.5 (3.8)	-9.2 (3.8)	-18 (7.4)	-12.9 (7.5)	1.1	-1.01		
977	21:35:23.46	57:31:28.1 <sup>F</sup>	1158	425		10.1 <sup>j</sup>					9.796 (23)	9.584 (28)	9.504 (21) <sup>F</sup>	A0 <sup>q</sup>			2.8 (1.6)	3.1 (1.6)	-2.8 (1.2)	-3.4 (0.9)	-0.27	-0.32		
978	21:35:24.28	57:32:15.0 <sup>F</sup>	1159	4159		11.6 <sup>j</sup>					10.477 (23)	10.256 (28)	10.162 (23) <sup>F</sup>				-5.7 (3.8)	-4 (3.8)	-6.1 (1.5)	-7.1 (1.2)	0.3	-0.54		
979	21:35:38.01	57:33:02.6 <sup>F</sup>	1160	4160		14 <sup>j</sup>					10.225 (23)	9.319 (27)	9.077 (21) <sup>F</sup>				-3.6 (4.9)	-3.9 (4.9)	-4 (7.3)	15 (7.3)	0.05	0		
980	21:35:41.74	57:32:52.5 <sup>F</sup>	1161	4161		13.3 <sup>j</sup>					11.492 (25)	11.182 (32)	11.067 (25) <sup>F</sup>				-18.6 (4)	-32.2 (4)			0.14	-0.32	new coordinates <sup>z</sup>	

**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
		J2000	DA	DA	2004											PPMXL		UCAC3		MVA		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	[j]
981	21:35:59.08	57:33:03.7 <sup>T</sup>	1162	4162		13.7 <sup>j</sup>		11.835 (23)	11.459 (28)	11.331 (24) <sup>F</sup>						-9.6 (4)	16 (4)	10.2 (6.7)	21.5 (6.7)	0.26	1.61	
982	21:36:02.37	57:33:37.1 <sup>T</sup>	1163	4163		14.3 <sup>j</sup>		11.765 (0)	11.343 (0)	11.193 (0) <sup>F</sup>						-6 (4)	7.4 (4)	-10.3 (6.8)	48 (6.9)	0.05	0.13	
983	21:35:15.59	57:33:56.2 <sup>T</sup>	1164	4164		14.2 <sup>j</sup>		12.018 (0)	11.459 (0)	11.385 (32) <sup>F</sup>						36.4 (10)	31.9 (10)	46.7 (8.6)	20.6 (9.9)	-2.91	1.11	
984	21:35:22.68	57:34:04.4 <sup>T</sup>	1165	4165		14.4 <sup>j</sup>		10.579 (22)	9.655 (28)	9.394 (22) <sup>F</sup>						-1.1 (4.7)	-3 (4.7)	-8.1 (7.4)	-6.2 (7.4)	0.14	0.09	new coordinates
985	21:35:06.97	57:35:03.8 <sup>T</sup>	1166	424		11.7 <sup>j</sup>		10.188 (21)	9.872 (29)	9.579 (21) <sup>F</sup>						-5.6 (10)	22.3 (10)	-3.8 (2)	0.2 (3.7)	-0.03	-0.05	
986	21:35:47.29	57:34:51.9 <sup>T</sup>	1167	4167		13.5 <sup>j</sup>		10.561 (23)	9.850 (27)	9.663 (21) <sup>F</sup>						-8.2 (4.9)	-6.6 (4.9)	-6 (6.8)	-0.7 (6.8)	0.44	-0.53	
987	21:35:41.92	57:35:15.9 <sup>T</sup>	1168	4168		12 <sup>j</sup>		10.785 (25)	10.588 (27)	10.497 (21) <sup>F</sup>						-5.9 (4)	2.6 (4)	-2.8 (0.6)	-0.7 (1.1)	0.06	-0.12	
988	21:35:37.79	57:35:49.5 <sup>T</sup>	1169	4169		12.8 <sup>j</sup>		9.449 (23)	8.603 (27)	8.328 (24) <sup>F</sup>						-3.5 (4.9)	-3.5 (4.9)	-2.9 (7.3)	5.9 (7.3)	0.23	-0.12	
989	21:35:39.39	57:36:29.3 <sup>T</sup>	1170	4170		12.7 <sup>j</sup>		9.690 (23)	8.958 (28)	8.738 (21) <sup>F</sup>						-4.9 (4.7)	-0.5 (4.7)	-0.5 (7.3)	5.5 (7.3)	0.62	;0.07	
990	21:35:53.49	57:35:16.7 <sup>T</sup>	1171	4171		12.6 <sup>j</sup>		11.240 (25)	10.942 (27)	10.863 (24) <sup>F</sup>						-7.9 (3.8)	-3.4 (3.8)	3.6 (7)	-4.7 (7)	0.68	-0.45	
991	21:36:02.14	57:34:57.8 <sup>T</sup>	1172	4172		11.9 <sup>j</sup>		9.054 (23)	8.431 (27)	8.202 (23) <sup>F</sup>						-4.5 (4.7)	-3.6 (4.7)	-5.1 (7.9)	12.7 (7.9)	0.02	-0.33	
992	21:35:19.16	57:36:38.3 <sup>T</sup>	1173	4173		13 <sup>j</sup>		11.665 (24)	10.973 (28)	10.224 (20) <sup>F</sup>						-6.7 (3.8)	2.9 (3.8)	-4.4 (6.9)	5.4 (6.9)	0.27	-0.38	
993	21:35:54.81	57:37:52.8 <sup>T</sup>	1174	4174		12.4 <sup>j</sup>		11.550 (25)	11.426 (33)	11.368 (25) <sup>F</sup>						0.1 (4)	7.9 (4)	-4 (0.7)	-1.2 (0.7)	0.14	-0.19	
994	21:35:48.69	57:39:31.9 <sup>T</sup>	1175	4175		14.2 <sup>j</sup>		12.298 (24)	11.953 (29)	11.840 (24) <sup>F</sup>						1.2 (4)	-10.5 (4)	7.5 (7.4)	-9.3 (7.4)	-0.3	-1.32	
995	21:35:54.57	57:40:24.2 <sup>T</sup>	1176	4176		12.6 <sup>j</sup>		11.032 (24)	10.647 (29)	10.558 (21) <sup>F</sup>						-0.5 (3.8)	5.9 (3.8)	-2.9 (1.3)	-0.9 (1.1)	-0.39	0.07	
996	21:35:18.53	57:40:18.2 <sup>T</sup>	1177	4177		13.4 <sup>j</sup>		11.657 (26)	11.270 (29)	11.175 (20) <sup>F</sup>						6.4 (3.8)	10.3 (3.8)	4 (7.3)	3.7 (7.3)	-0.85	0.52	
997	21:35:12.10	57:41:00.2 <sup>T</sup>	1178	4178		12.8 <sup>j</sup>		11.622 (28)	11.245 (31)	11.152 (23) <sup>F</sup>						35.6 (3.8)	30.9 (3.8)	48.5 (4.7)	30.8 (1.7)	-5.23	2.35	
998	21:36:02.13	57:41:36.2 <sup>T</sup>	1179	4179		14.7 <sup>j</sup>		12.361 (22)	11.908 (29)	11.803 (24) <sup>F</sup>						12.8 (4)	5.7 (4)	27.6 (7.4)	6.6 (7.4)	-1.56	1.33	
999	21:35:53.94	57:42:47.5 <sup>T</sup>	1180	5058	15.77 <sup>F</sup>	14.61 <sup>e</sup>		12.664 (24)	12.300 (29)	12.180 (21) <sup>F</sup>	F6 <sup>e</sup>			2.2 <sup>e</sup>	11.8 (4)	1.9 (4)	8 (7.3)	-3.5 (7.5)				
1000	21:35:40.62	57:42:49.8 <sup>T</sup>	1181	4181		14.5 <sup>j</sup>		12.518 (24)	12.164 (31)	12.051 (28) <sup>F</sup>						9.7 (5.1)	2.9 (5.1)	5.2 (5)	-8.5 (5)	-0.07	-2.8	
1001	21:35:32.35	57:43:31.4 <sup>T</sup>	1182	4182		14.5 <sup>j</sup>		12.691 (22)	12.249 (32)	12.152 (24) <sup>F</sup>						-14.3 (5.6)	-32 (5.6)	-24.2 (7.4)	-29.4 (7.4)	1.71	-2.62	
1002	21:35:22.33	57:43:52.3 <sup>T</sup>	1183	703		12.5 <sup>j</sup>		11.195 (22)	10.936 (28)	10.831 (21) <sup>F</sup>	B8 <sup>q</sup>					-8.8 (10)	7.8 (10)	2 (7.2)	2.7 (7.3)	-0.04	0.17	
1003	21:35:13.68	57:44:36.6 <sup>T</sup>	1184	4184		14.3 <sup>j</sup>		12.663 (26)	12.268 (31)	12.165 (24) <sup>F</sup>						-15.9 (3.8)	-23 (3.8)	-5.9 (7.5)	-25.5 (7.6)			
1004	21:35:05.91	57:44:24.0 <sup>T</sup>	1185	4185		10.3 <sup>j</sup>		9.140 (24)	9.062 (29)	8.926 (21) <sup>F</sup>						-0.9 (2)	5.3 (2)	-5.5 (0.6)	-3.8 (0.7)	0.23	-0.79	
1005	21:35:11.37	57:46:08.1 <sup>T</sup>	1186	4186		12.1 <sup>j</sup>		11.192 (43)	11.045 (33)	10.948 (24) <sup>F</sup>						-5.1 (3.8)	11 (3.8)	0.1 (1.4)	-1.4 (9.4)	-0.31	-0.65	2x[r]
1006	21:35:11.76	57:46:06.1 <sup>T</sup>	1186	4186		12.1 <sup>j</sup>		12.306 (32)	11.108 (76)	10.667 (44) <sup>F</sup>								0.1 (1.4)	-1.4 (9.4)	-0.31	-0.65	2x[r]
1007	21:36:02.73	57:45:33.7 <sup>T</sup>	1188	705		10.7 <sup>j</sup>		7.858 (20)	7.159 (31)	6.979 (18) <sup>F</sup>	G8 <sup>q</sup>					-1.1 (12)	-20.4 (12)	6.5 (1.5)	-11.6 (1.3)	-0.95	-1.8	
1008	21:36:25.06	57:46:42.0 <sup>T</sup>	1189	4189		14.3 <sup>j</sup>		11.724 (26)	11.208 (31)	11.085 (23) <sup>F</sup>						7.4 (3.8)	19.4 (3.8)	30.9 (7.3)	39.8 (7.4)			
1009	21:35:47.86	57:47:43.0 <sup>T</sup>	1190	4190		14.5 <sup>j</sup>		12.306 (24)	11.884 (29)	11.750 (21) <sup>F</sup>						1.6 (4)	-6.6 (4)	-0.1 (7.5)	-10.5 (7.4)			
1010	21:35:52.37	57:52:03.8 <sup>T</sup>	1191	704		11.1 <sup>j</sup>		9.930 (22)	9.573 (28)	9.499 (21) <sup>F</sup>	G5 <sup>q</sup>					0.3 (13.3)	52.4 (13.3)	-10.3 (1.4)	41.1 (1.4)	0.53	4.04	
1011	21:34:58.38	57:54:36.3 <sup>T</sup>	1192	4192		12.2 <sup>j</sup>		11.108 (23)	10.962 (28)	10.867 (27) <sup>F</sup>						-0.4 (3.8)	-6.8 (3.8)	1.9 (1.5)	1.9 (4.2)	-0.63	-0.4	
1012	21:34:56.10	57:54:52.5 <sup>T</sup>	1193	4193		14.1 <sup>j</sup>		12.045 (29)	11.692 (28)	11.572 (27) <sup>F</sup>						10.7 (3.8)	-5.3 (3.8)	1.3 (7.7)	-26 (7.7)			
1013	21:34:58.50	57:54:51.0 <sup>T</sup>	1194	4194		12.2 <sup>j</sup>		11.186 (23)	11.040 (26)	10.927 (25) <sup>F</sup>						-2.4 (3.8)	1.7 (3.8)	-2.3 (0.9)	-6.3 (2.3)	0.09	-0.99	
1014	21:34:49.32	57:55:47.6 <sup>T</sup>	1195	4195		14.4 <sup>j</sup>		12.342 (25)	12.047 (32)	11.914 (27) <sup>F</sup>						10.7 (3.8)	1.6 (3.8)	4.5 (7.3)	-3.2 (7.4)			
1015	21:35:17.14	57:56:22.9 <sup>T</sup>	1196	4196		14.5 <sup>j</sup>		12.484 (26)	11.953 (31)	11.808 (28) <sup>F</sup>						43.4 (3.8)	53 (3.8)	33.3 (8)	51 (8)			
1016	21:35:27.65	57:57:16.5 <sup>T</sup>	1197	4197		13.1 <sup>j</sup>		11.713 (23)	11.508 (27)	11.439 (23) <sup>F</sup>						1.7 (13.3)	11.9 (13.3)	13.3 (7.2)	0.9 (7.3)	0.16	-0.9	
1017	21:35:48.42	57:55:16.7 <sup>T</sup>	1198	4198		13.8 <sup>j</sup>		10.593 (23)	9.844 (26)	9.625 (21) <sup>F</sup>						5.5 (4.7)	6 (4.7)	7.8 (7.2)	2.9 (7.3)	-0.95	0.5	
1018	21:35:02.52	57:59:30.5 <sup>T</sup>	1199	4199		13.4 <sup>j</sup>		11.758 (23)	11.333 (28)	11.200 (26) <sup>F</sup>						-7.7 (3.8)	-8.8 (3.8)	-21.6 (7.2)	-4.2 (7.2)	1.17	-1.01	
1019	21:35:07.13	58:03:56.6 <sup>T</sup>	1200	4200		13.7 <sup>j</sup>		11.891 (23)	11.556 (28)	11.458 (25) <sup>F</sup>						-1.9 (3.8)	-5.3 (3.8)	1 (7.3)	-9.2 (7.3)	-0.2	-0.02	
1020	21:35:13.98	58:03:59.4 <sup>T</sup>	1201	4201		12.7 <sup>j</sup>		11.545 (25)	11.269 (30)	11.213 (26) <sup>F</sup>						-11.5 (3.8)	0.3 (3.8)	-8.6 (11.2)	-1.1 (2.8)	0.03	-0.14	
1021	21:36:30.00	57:49:46.3 <sup>T</sup>	1202	4202		14.4 <sup>j</sup>		10.883 (24)	10.101 (29)	9.866 (22) <sup>F</sup>						1.6 (4.9)	-4.1 (4.9)	-3.2 (7.4)	-2.2 (7.4)			
1022	21:36:09.98	57:52:35.8 <sup>T</sup>	1203	4203		14.4 <sup>j</sup>		10.641 (22)	9.731 (28)	9.462 (21) <sup>F</sup>						-3.1 (4.7)	0.5 (4.7)	6.6 (7.3)	-5.4 (7.3)			
1023	21:36:07.65	57:53:11.1 <sup>T</sup>	1204	4204		13.1 <sup>j</sup>		11.532 (22)	11.187 (28)	11.085 (21) <sup>F</sup>						-0.4 (3.8)	-1.2 (3.8)	3.5 (7.3)	-2.3 (7.3)	-0.34	-0.52	
1024	21:36:18.56	57:52:45.8 <sup>T</sup>	1205	4205		14.6 <sup>j</sup>		12.760 (35)	12.425 (41)	12.289 (35) <sup>F</sup>						18.9 (5.2)	-27.2 (5.2)	-34.5 (7.5)	57.4 (7.5)			
1025	21:36:20.53	57:54:22.1 <sup>T</sup>	1206	4206		13.7 <sup>j</sup>		12.308 (26)	12.110 (29)	11.980 (25) <sup>F</sup>						-6.7 (3.8)	-5.3 (3.8)	0.6 (7.5)	-13.4 (7.5)	0.09	-0.71	new coordinates
1026	21:36:02.30	57:55:01.3 <sup>T</sup>	1207	4207		14.6 <sup>j</sup>		12.720 (25)	12.255 (30)	12.127 (24) <sup>F</sup>						11.6 (3.8)	-1.5 (3.8)	3.2 (7.2)	-3.8 (7.2)			
1027	21:36:36.41	57:53:11.2 <sup>T</sup>	1208	4208		13.8 <sup>j</sup>		12.258 (26)	11.998 (29)	11.875 (28) <sup>F</sup>						-1.5 (3.8)	0.3 (3.8)	-6.9 (7.4)	-0.5 (7.4)	0.35	-0.21	

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec J2000	MVA	WEB- DA	SHB- 2004	U	B	V	R	I	J	H	K	SpT Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
																PPMXL		UCAC3		MVA [j]		
																mag	mas/yr	mag	mas/yr	mas/yr	mas/yr	
1034	21:36:09.13	58:01:36.5 <sup>T</sup>	1215	4215				12.9 <sup>j</sup>				11.368 (25)	11.068 (31)	10.963 (21) <sup>F</sup>		-4.9 (3.8)	-5.9 (3.8)	-3.4 (7.3)	-10.7 (7.4)	0.03	-0.47	
1035	21:36:17.96	58:01:49.8 <sup>T</sup>	1216	708				11.9 <sup>j</sup>				10.643 (23)	10.346 (29)	10.264 (22) <sup>F</sup>	F8:q	5.8 (13.3)	26.4 (13.3)	2.6 (1)	7.6 (1.4)	-0.61	0.7	
1036	21:36:13.19	58:03:42.2 <sup>T</sup>	1217	4217				12.4 <sup>j</sup>				10.832 (24)	10.582 (29)	10.447 (22) <sup>F</sup>		-4.7 (3.8)	0.2 (3.8)	-4.4 (0.6)	-2.2 (2)	-0.18	-0.1	
1037	21:37:02.86	57:47:00.3 <sup>T</sup>	1219	4219				12.6 <sup>j</sup>				11.509 (23)	11.195 (30)	11.155 (21) <sup>F</sup>		4.8 (3.8)	27.8 (3.8)	13.1 (0.5)	24.3 (0.7)	-1.82	1.75	
1038	21:37:30.53	57:48:13.8 <sup>T</sup>	1220	4220				14.3 <sup>j</sup>				11.179 (23)	10.526 (28)	10.352 (21) <sup>F</sup>		25.3 (3.8)	-0.7 (3.8)	24.3 (7.4)	5.5 (7.5)			
1039	21:37:32.26	57:48:48.5 <sup>T</sup>	1221	4221				14.4 <sup>j</sup>				11.893 (23)	11.465 (30)	11.302 (21) <sup>F</sup>		-8.4 (3.9)	-1.2 (3.9)	-5.2 (7.4)	-5.6 (7.4)			
1040	21:36:55.90	57:49:36.4 <sup>T</sup>	1222	4222				13.8 <sup>j</sup>				9.983 (24)	9.065 (28)	8.797 (22) <sup>F</sup>		-9.1 (4.9)	-5.7 (4.9)	-9 (7.3)	-7.2 (7.3)	0.21	-0.77	
1041	21:37:19.99	57:50:30.6 <sup>T</sup>	1223	4223				14.5 <sup>j</sup>				11.092 (23)	10.296 (28)	10.062 (23) <sup>F</sup>		1 (3.8)	1.2 (3.8)	9.2 (7.4)	-0.5 (7.5)			
1042	21:37:45.79	57:51:29.2 <sup>T</sup>	1224	4224				13.4 <sup>j</sup>				12.143 (26)	11.934 (28)	11.849 (26) <sup>F</sup>		-2.3 (3.8)	0.3 (3.8)	7.2 (7.4)	-8.3 (7.4)	-0.31	-0.56	
1043	21:37:50.35	57:52:18.8 <sup>T</sup>	1225	4225				14 <sup>j</sup>				12.677 (29)	12.415 (30)	12.407 (26) <sup>F</sup>		-1.3 (3.8)	-3.6 (3.8)	-5.6 (7.8)	2.1 (7.8)	0.01	-0.28	
1044	21:37:09.54	57:53:09.5 <sup>T</sup>	1226	711				11.5 <sup>j</sup>				10.678 (25)	10.527 (32)	10.430 (0) <sup>F</sup>	A0q	-17.8 (2.7)	0.8 (2.7)	-5.9 (0.9)	-1.3 (0.8)	0.12	-0.22	
1045	21:36:37.69	57:55:36.5 <sup>T</sup>	1227	4227				13.8 <sup>j</sup>				9.750 (23)	8.650 (42)	8.387 (22) <sup>F</sup>		-0.3 (4.7)	-1.9 (4.7)	43.2 (7.3)	-3.5 (7.4)	0.25	0.1	
1046	21:36:51.21	57:56:45.4 <sup>T</sup>	1228	4228				13.4 <sup>j</sup>				12.197 (23)	11.968 (28)	11.909 (23) <sup>F</sup>		-0.9 (3.8)	-6 (3.8)	-1.6 (7.3)	-6.2 (7.3)	-0.16	-0.6	
1047	21:37:15.16	57:54:47.4 <sup>T</sup>	1229	4229				14.5 <sup>j</sup>				13.075 (25)	12.867 (38)	12.801 (38) <sup>F</sup>		-3.2 (3.8)	-0.7 (3.8)	2.8 (7.3)	-3.7 (7.3)			
1048	21:37:18.61	57:54:42.9 <sup>T</sup>	1230	4230				14.4 <sup>j</sup>				11.210 (21)	10.494 (30)	10.218 (26) <sup>F</sup>		3.4 (3.8)	-12.9 (3.8)	12.9 (7.7)	-24.1 (7.8)			
1049	21:37:29.86	57:55:49.2 <sup>T</sup>	1231	4231				14.4 <sup>j</sup>				11.716 (21)	11.071 (30)	10.889 (26) <sup>F</sup>		-15.9 (3.8)	-8.4 (3.8)	-18 (7.9)	-11.1 (7.3)			
1050	21:37:47.40	57:55:21.8 <sup>T</sup>	1232	4232				13.3 <sup>j</sup>				11.513 (22)	11.040 (30)	10.945 (27) <sup>F</sup>		17.2 (3.8)	29.5 (3.8)	18.6 (6.9)	37.5 (6.9)	-2.01	2.56	
1051	21:37:09.69	57:57:19.2 <sup>T</sup>	1233	4233				14.5 <sup>j</sup>				12.600 (24)	12.216 (33)	12.096 (31) <sup>F</sup>		-2.7 (3.8)	1.5 (3.8)	-6.6 (7.3)	2.3 (7.2)			
1052	21:37:15.08	57:57:34.5 <sup>T</sup>	1234	4234				14.7 <sup>j</sup>				12.714 (25)	12.284 (36)	12.208 (32) <sup>F</sup>		-1.7 (3.8)	1.5 (3.8)	-6.8 (8.1)	0.6 (8.8)			
1053	21:37:16.54	57:58:21.3 <sup>T</sup>	1235	4235				14.7 <sup>j</sup>				12.940 (24)	12.612 (35)	12.528 (34) <sup>F</sup>		1.9 (3.8)	-0.4 (3.8)	0.7 (7.2)	3.4 (7.5)	-0.55	0.31	
1054	21:37:24.92	57:58:48.3 <sup>T</sup>	1236	4236				14.3 <sup>j</sup>				9.851 (21)	8.809 (29)	8.445 (24) <sup>F</sup>		-5.8 (4.7)	-5.3 (4.7)	-29.4 (7.1)	-21.8 (7.2)	0.44	-0.46	
1055	21:37:30.92	57:57:39.2 <sup>T</sup>	1237	4237				12.2 <sup>j</sup>				9.991 (21)	9.381 (28)	9.211 (24) <sup>F</sup>		14.2 (4.7)	0.8 (4.7)	61.9 (7.1)	15.8 (7.2)	-1.48	-0.5	
1056	21:37:41.39	57:57:28.7 <sup>T</sup>	1238	4238				14.6 <sup>j</sup>				12.809 (24)	12.563 (33)	12.476 (31) <sup>F</sup>		-4.2 (3.8)	1 (3.8)	-10.1 (7.2)	3.3 (7.2)			
1057	21:37:47.32	57:57:39.1 <sup>T</sup>	1239	4239				14.3 <sup>j</sup>				7.796 (21)	6.668 (20)	6.188 (23) <sup>F</sup>		2.1 (4.7)	-0.2 (4.7)	7.1 (7.2)	-0.9 (7.3)			
1058	21:37:27.27	57:59:05.7 <sup>T</sup>	1240	4240				14.7 <sup>j</sup>				12.843 (25)	12.486 (35)	12.350 (33) <sup>F</sup>		-4.1 (3.8)	-7 (3.8)	-25.2 (8.2)	-24.9 (8.1)			
1059	21:37:32.59	57:59:47.1 <sup>T</sup>	1241	4241				14.6 <sup>j</sup>				12.336 (49)	11.895 (57)	11.771 (47) <sup>F</sup>		0.4 (7)	-0.2 (7)					
1060	21:37:44.25	57:59:40.1 <sup>T</sup>	1242	4242				14.7 <sup>j</sup>				11.548 (21)	10.847 (30)	10.657 (26) <sup>F</sup>		0.9 (3.8)	1.3 (3.8)	10.8 (7.8)	12.9 (7.9)			
1061	21:36:38.81	57:58:47.9 <sup>T</sup>	1243	4243				13.2 <sup>j</sup>				11.860 (23)	11.472 (28)	11.370 (23) <sup>F</sup>		1.7 (3.8)	-6 (3.8)	2.3 (7.2)	-4.4 (7.3)	-0.72	-1.17	
1062	21:36:32.67	58:02:15.8 <sup>T</sup>	1244	709				10.4 <sup>j</sup>				9.707 (23)	9.628 (28)	9.603 (23) <sup>F</sup>	A0q	-4.6 (2)	7.9 (2)	-0.2 (0.7)	1.4 (1.1)	-0.68	0.14	
1063	21:36:48.87	58:02:36.5 <sup>T</sup>	1245	4245				13.7 <sup>j</sup>				10.575 (23)	9.953 (26)	9.748 (23) <sup>F</sup>		-2 (4.7)	-9.2 (4.7)	-18 (7.2)	-21.4 (7.3)	-0.04	0.14	
1064	21:36:56.99	58:01:57.6 <sup>T</sup>	1246	4246				13 <sup>j</sup>				11.781 (24)	11.369 (28)	11.328 (23) <sup>F</sup>		6.5 (3.8)	3.9 (3.8)	3.1 (7.3)	1.6 (7.4)	-1.03	0.53	
1065	21:37:09.59	58:02:50.2 <sup>T</sup>	1247	4247				13 <sup>j</sup>				10.468 (19)	9.796 (28)	9.650 (24) <sup>F</sup>		-7.8 (4.7)	-7 (4.7)	-40.2 (8.3)	12.1 (8.3)	-0.13	-0.30	
1066	21:37:26.83	58:01:09.9 <sup>T</sup>	1248	4248				14 <sup>j</sup>				12.311 (21)	12.088 (30)	11.936 (27) <sup>F</sup>		-1.6 (3.8)	-0.7 (3.8)	-2.9 (7.9)	-8.9 (7.9)	-0.12	0.11	
1067	21:37:12.68	58:04:20.8 <sup>T</sup>	1249	4249				14.3 <sup>j</sup>				12.292 (29)	11.855 (48)	11.749 (30) <sup>F</sup>		-3 (3.8)	5.1 (3.8)	-17.9 (7.3)	40.4 (7.4)	-0.8	0.19	
1068	21:37:22.91	58:04:38.9 <sup>T</sup>	1250	4250				12.8 <sup>j</sup>				8.559 (26)	7.696 (38)	7.411 (18) <sup>F</sup>		-1.5 (4.7)	4.7 (4.7)	11 (8)	74.7 (8.1)	-0.69	-0.06	
1069	21:34:18.55	57:11:11.4 <sup>T</sup>	1251	4251				13.8 <sup>j</sup>				11.700 (23)	11.415 (32)	11.308 (27) <sup>F</sup>		22.7 (4.1)	-14.2 (4.1)					
1070	21:34:17.01	57:12:46.8 <sup>T</sup>	1253	4253				13.5 <sup>j</sup>				11.012 (22)	10.398 (30)	10.242 (24) <sup>F</sup>		52.3 (4.1)	-1.1 (4.1)	58.2 (7)	10.8 (7)			
1071	21:33:37.57	57:14:50.9 <sup>T</sup>	1254	4254				13.5 <sup>j</sup>				11.364 (22)	11.029 (26)	10.923 (22) <sup>F</sup>		-3.4 (4.1)	7.7 (4.1)	-3.5 (7)	12 (7)	-0.3	0.42	
1072	21:34:12.74	57:14:45.6 <sup>T</sup>	1255	4255				12.4 <sup>j</sup>				11.423 (22)	11.282 (29)	11.194 (27) <sup>F</sup>		-1.6 (2.7)	0 (2.7)	-5.4 (0.6)	-3.8 (0.5)	-0.12	0	
1073	21:34:18.80	57:14:31.1 <sup>T</sup>	1256	4256				14.5 <sup>j</sup>				12.815 (31)	12.258 (49)	12.210 (36) <sup>F</sup>		1.4 (5.6)	-1.6 (5.6)			-0.34	0.5	near 1664
1074	21:34:27.83	57:14:12.9 <sup>T</sup>	1257	4257				14.11 <sup>j</sup>				12.291 (24)	11.757 (31)	11.636 (29) <sup>F</sup>		-31.6 (4.1)	-7.7 (4.1)	-33.8 (6.8)	-4.7 (6.8)	3.16	0.2	
1075	21:34:10.57	57:15:20.7 <sup>T</sup>	1258	4258				13.6 <sup>j</sup>				11.634 (34)	11.296 (44)	11.179 (35) <sup>F</sup>		-33.7 (4.1)	-33.8 (4.1)			-1.49	0.52	
1076	21:33:37.17	57:18:08.2 <sup>T</sup>	1259	4259				13.9 <sup>j</sup>				10.358 (22)	9.556 (28)	9.341 (22) <sup>F</sup>		-5.8 (5.2)	-2.5 (5.2)	-37.5 (5.7)	21.8 (5.9)	0.29	-0.51	
1077	21:33:48.76	57:17:55.0 <sup>T</sup>	1260	4260				12.5 <sup>j</sup>				11.070 (22)	10.862 (29)	10.747 (26) <sup>F</sup>		5.7 (2.7)	0.6 (2.7)	2.5 (6.3)	1.2 (3.8)	-0.54	0.42	
1078	21:33:54.71	57:17:37.0 <sup>T</sup>	1261	414				9.5 <sup>j</sup>				8.977 (22)	8.920 (29)	8.921 (24) <sup>F</sup>	A0q	1.4 (1.2)	0.1 (1.2)	-0.2 (0.7)	-1.5 (0.6)	-1.16	0.15	
1079	21:34:04.45	57:17:56.4 <sup>T</sup>	1262	416				11.8 <sup>j</sup>				10.910 (23)	10.642 (31)	10.550 (26) <sup>F</sup>	F0q	12.9 (2.7)	2.5 (2.7)	2.7 (0.7)	1.4 (0.6)	-1.16	0.11	
1080	21:34:09.93	57:17:02.4 <sup>T</sup>	1263	4263				14.3 <sup>j</sup>				10.221 (22)	9.293 (29)	9.049 (24) <sup>F</sup>		-6.5 (5.1)	-1.1 (5.1)	34.7 (6.9)	3 (6.9)	-0.25	0.53	
1081	21:34:26.22	57:16:30.9 <sup>T</sup>	1264	4264				13 <sup>j</sup>				11.567 (28)	11.454 (43)	11.292 (36) <sup>F</sup>		9.5 (2.7)	3 (2.7)	-4.6 (1.7)	-2.3 (1.3)	-0.07	-0.1	
1082	21:34:39.65	57:16:06.3 <sup>T</sup>	1265	4265				12 <sup>j</sup>				10.512 (24)	10.174 (26)	10.049 (22) <sup>F</sup>		-14.1 (2.7)	-11.5 (2.7)	-8.4 (0.8)	-7.7 (2)	0.18	-0.48	
1083	21:33:52.89	57:20:22.5 <sup>T</sup>	1266	4266				12.5 <sup>j</sup>				11.019 (22)	10.813 (29)	10.713 (26) <sup>F</sup>		11.7 (2.7)	1.1 (2.7)	-7.3 (2.2)	-3.2 (4.9)	-0.23	0.05	
1084	21:33:52.42	57:20:31.5 <sup>T</sup>	1267	4267				14.1 <sup>j</sup>				12.148 (24)	11.760 (31)	11.624 (27) <sup>F</sup>						0.35	-0.18	
1085	21:34:25.34	57:18:44.4 <sup>T</sup>	1268	4268				13.5 <sup>j</sup>				11.869 (23)	11.678 (33)	11.573 (28) <sup>F</sup>		-12.3 (4.1)	-3.1 (4.1)	-31.4 (6.7)	-22.6 (6.7)	-0.23	-0.03	
1086	21:34:00.52	57:21:04.0 <sup>T</sup>	1269	4269				13.9 <sup>j</sup>				11.897 (23)	11.364 (29)	11.264 (26) <sup>F</sup>		9.9 (4.1)	9.7 (4.1)	14.1 (6.8)	8.8 (6.8)			



Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments	
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004		mag	mag	mag	mag	mag	mag	mag		mag	PPMXL	mas/yr	mas/yr	UCAC3	mas/yr	MVA [j]		
1087	21:34:33.78	57:19:54.4 <sup>T</sup>	1270	420			11.2 <sup>j</sup>					10.705 (24)	10.607 (26)	10.577 (23) <sup>F</sup>	A0 <sup>q</sup>	13.4 (2)	-1.5 (2)	5 (1.3)	0.9 (0.9)	-1.11	0.64	RA [m] wrong	
1088	21:33:39.65	57:22:50.3 <sup>T</sup>	1271	4271			12.2 <sup>j</sup>					10.070 (24)	9.450 (28)	9.296 (20) <sup>F</sup>		-1.1 (5.1)	-3.8 (5.1)	-9.6 (7.9)	-84.2 (7.9)	-0.34	-0.11		
1089	21:34:13.58	57:22:42.9 <sup>T</sup>	1272	417			10.3 <sup>j</sup>					9.519 (22)	9.436 (28)	9.334 (20) <sup>F</sup>	A0 <sup>q</sup>	3.1 (1.3)	1.8 (1.3)	4.4 (0.7)	-0.9 (0.6)	-1.2	0.31		
1090	21:34:23.09	57:23:06.5 <sup>T</sup>	1273	4273			14.3 <sup>j</sup>					12.391 (24)	12.008 (27)	11.929 (23) <sup>F</sup>		2.8 (4.1)	-2.5 (4.1)	0.6 (6.8)	-2.4 (6.7)				
1091	21:34:26.03	57:23:03.9 <sup>T</sup>	1274	4274			13.1 <sup>j</sup>					10.411 (24)	9.763 (28)	9.555 (21) <sup>F</sup>		0.6 (5.7)	5.4 (5.7)	38.5 (6.5)	28 (6.5)	-0.39	0.14		
1092	21:34:03.93	57:24:46.7 <sup>T</sup>	1275	4275			13.7 <sup>j</sup>					11.219 (46)	10.641 (46)	10.333 (0) <sup>T</sup>		19 (4.1)	-12.2 (4.1)	73.3 (7.3)	-42.8 (7.3)	-0.31	-0.45		
1093	21:34:34.84	57:23:53.9 <sup>T</sup>	1276	4276			14.1 <sup>j</sup>					12.125 (26)	11.767 (29)	11.627 (23) <sup>F</sup>		-8 (4.1)	2.2 (4.1)	-12.9 (6.7)	2 (6.7)	0.15	-0.01		
1094	21:34:28.30	57:25:34.1 <sup>T</sup>	1277	419			11 <sup>j</sup>					10.385 (24)	10.271 (27)	10.249 (23) <sup>F</sup>	B8 <sup>q</sup>	-4.1 (1.5)	-4.3 (1.5)	4.7 (9.7)	-2.6 (9.6)	-0.32	-0.2		
1095	21:34:20.43	57:26:12.3 <sup>T</sup>	1278	4278			14.6 <sup>j</sup>					12.750 (24)	12.382 (28)	12.282 (24) <sup>F</sup>		0.3 (4.1)	1.1 (4.1)	-7.2 (7.6)	9.1 (7.6)				
1096	21:34:04.18	57:28:23.6 <sup>T</sup>	1279	4279			14.6 <sup>j</sup>					12.604 (22)	12.084 (28)	11.992 (24) <sup>F</sup>		-3.9 (4.1)	-2.6 (4.1)	-0.9 (7.2)	-0.5 (7.3)				
1097	21:34:09.08	57:29:19.4 <sup>T</sup>	1280	4280			13 <sup>j</sup>					11.787 (24)	11.457 (27)	11.401 (23) <sup>F</sup>		-7.9 (4)	7.9 (4)	-32.8 (6.5)	30 (6.5)	0.23	0.09		
1098	21:33:42.81	57:31:27.3 <sup>T</sup>	1281	4281			13.5 <sup>j</sup>					11.954 (24)	11.701 (31)	11.608 (24) <sup>F</sup>		-3.7 (4)	-0.1 (4)	-8.1 (6.7)	5.6 (6.7)	-0.48	-0.21		
1099	21:34:08.99	57:34:01.5 <sup>T</sup>	1282	4282			12.6 <sup>j</sup>					11.160 (27)	10.848 (31)	10.776 (24) <sup>F</sup>		7.9 (4)	19.3 (4)	8.9 (0.7)	13 (18.3)	-1.31	0.67		
1100	21:33:32.24	57:35:32.5 <sup>T</sup>	1283	4283			12.5 <sup>j</sup>					11.264 (23)	10.854 (27)	10.804 (23) <sup>F</sup>		15.2 (3.8)	11.9 (3.8)	19.8 (6.9)	48.6 (6.9)	-1.42	1.16		
1101	21:34:00.71	57:35:49.0 <sup>T</sup>	1284	415			10.9 <sup>j</sup>					9.830 (24)	9.543 (26)	9.495 (21) <sup>F</sup>	F8 <sup>q</sup>	0.3 (2)	-0.4 (2)	-2.1 (1)	2.1 (0.8)	-0.38	0.33		
1102	21:33:50.53	57:36:38.0 <sup>T</sup>	1285	4285			12.7 <sup>j</sup>					11.234 (22)	10.919 (28)	10.800 (21) <sup>F</sup>		-5.8 (4)	12.7 (4)	-5.3 (12.2)	-3.8 (12.2)	-0.48	0.81		
1103	21:34:02.45	57:36:38.3 <sup>T</sup>	1286	4286			13.6 <sup>j</sup>					12.035 (24)	11.736 (30)	11.642 (24) <sup>F</sup>		-3.3 (4)	-0.7 (4)	-11.5 (6.7)	11.8 (6.7)	0.02	-0.13		
1104	21:34:04.30	57:36:55.2 <sup>T</sup>	1287	4287			13.6 <sup>j</sup>					11.934 (22)	11.710 (27)	11.573 (23) <sup>F</sup>		-3.9 (4)	4.8 (4)	-4.5 (6.7)	7.1 (6.7)	-0.19	0.07		
1105	21:33:29.49	57:40:31.9 <sup>T</sup>	1288	413			9.8 <sup>j</sup>					9.035 (25)	8.959 (28)	8.956 (21) <sup>F</sup>	B8 <sup>q</sup>	9.3 (1.6)	-3.7 (1.6)	-3.9 (0.7)	-4.1 (1.2)	-0.34	-0.39		
1106	21:33:36.61	57:41:03.1 <sup>T</sup>	1289	4289			13.9 <sup>j</sup>					11.907 (27)	11.481 (33)	11.382 (25) <sup>F</sup>		1 (3.8)	5.5 (3.8)	-60.6 (7)	33.8 (7.1)	-1.02	0.18		
1107	21:33:55.43	57:40:45.0 <sup>T</sup>	1290	4290	13.01 <sup>1</sup>		11.27 <sup>1</sup>					7.567 (20)	6.811 (23)	6.540 (20) <sup>F</sup>		-6.2 (10.7)	15.7 (10.7)	-7.2 (0.6)	-1.5 (1.3)	0.31	-0.2		
1108	21:34:09.08	57:41:40.7 <sup>T</sup>	1291	4291			12.1 <sup>j</sup>					10.715 (24)	10.283 (26)	10.178 (23) <sup>F</sup>		35.2 (5.5)	17.1 (5.5)	34.8 (0.5)	20.6 (4.1)	-4.02	2.09		
1109	21:34:06.89	57:42:29.7 <sup>T</sup>	1292	4292			13.8 <sup>j</sup>					11.749 (22)	11.364 (26)	11.254 (20) <sup>F</sup>		-2.9 (4)	13.3 (4)	-5.5 (7.4)	3.5 (7.4)				
1110	21:34:21.19	57:41:25.7 <sup>T</sup>	1294	4294			14.2 <sup>j</sup>					10.411 (21)	9.590 (29)	9.347 (22) <sup>F</sup>		-9.9 (11.4)	1.4 (11.4)	-38.3 (7.2)	17.5 (7.3)	1.1	-0.79		
1111	21:34:17.72	57:43:00.9 <sup>T</sup>	1295	418			10 <sup>j</sup>					8.031 (26)	7.491 (23)	7.413 (24) <sup>F</sup>	K0 <sup>q</sup>	-45.6 (1.7)	6.6 (1.7)	-44.6 (0.7)	1.5 (1.3)				
1112	21:34:54.72	57:15:40.8 <sup>T</sup>	1298	4298			11.9 <sup>j</sup>					9.530 (22)	8.852 (26)	8.724 (22) <sup>F</sup>		10.4 (2.7)	-7.5 (2.7)	5.9 (9.8)	-2.4 (8.2)	-1.28	0.95		
1113	21:35:03.17	57:15:26.8 <sup>T</sup>	1299	4299			13.4 <sup>j</sup>					12.023 (55)	11.811 (31)	11.697 (26) <sup>F</sup>		-20.6 (4.1)	-14.1 (4.1)	-69.8 (6.9)	-55.6 (6.9)	-0.03	0.14		
1114	21:35:13.78	57:14:03.3 <sup>T</sup>	1300	4300			13.4 <sup>j</sup>					10.597 (24)	9.845 (26)	9.725 (22) <sup>F</sup>		-0.2 (5.1)	5 (5.1)	4.6 (7.1)	4.7 (7.1)	0.21	0.35		
1115	21:35:14.74	57:12:50.3 <sup>j</sup>	1301	4301			14.5 <sup>j</sup>									-13.3 (7.4)	-5.8 (7.4)					no star	
1116	21:35:24.04	57:10:52.9 <sup>T</sup>	1302	4302			12.8 <sup>j</sup>					10.102 (24)	9.318 (29)	9.154 (21) <sup>F</sup>		9.9 (5.1)	11.9 (5.1)	-1.5 (7.2)	-10.5 (7.2)				
1117	21:35:30.17	57:10:25.9 <sup>T</sup>	1303	4303			12.9 <sup>j</sup>					11.348 (26)	11.035 (28)	10.944 (23) <sup>F</sup>		3.6 (4.1)	9.1 (4.1)	27.8 (7.4)	45.9 (7.4)	0.16	-0.5		
1118	21:35:34.00	57:12:27.6 <sup>T</sup>	1304	4304			12.1 <sup>j</sup>					11.161 (22)	10.932 (26)	10.842 (21) <sup>F</sup>		3.2 (4.1)	-29.4 (4.1)	-5.6 (1)	-11.6 (1.4)	0.11	-0.9		
1119	21:35:45.75	57:13:20.2 <sup>T</sup>	1305	4305			12.2 <sup>j</sup>					11.443 (24)	11.287 (28)	11.236 (21) <sup>F</sup>		-5.4 (4.1)	4.5 (4.1)	-4.5 (1.1)	-4.6 (3.1)	-0.33	-0.33		
1120	21:35:51.20	57:14:49.0 <sup>T</sup>	1306	4306			14.4 <sup>j</sup>					11.265 (22)	10.541 (26)	10.332 (21) <sup>F</sup>		-8.6 (4.1)	1.1 (4.1)	-10.8 (6.8)	6 (6.8)	0.42	-0.38		
1121	21:35:36.66	57:16:12.0 <sup>T</sup>	1307	4307			13.1 <sup>j</sup>					10.223 (22)	9.490 (28)	9.292 (21) <sup>F</sup>		-4.7 (5.1)	3.3 (5.1)	-3.5 (7)	1.8 (7)	0.02	0.36		
1122	21:34:52.09	57:17:55.5 <sup>T</sup>	1308	4308			14.2 <sup>j</sup>					12.062 (22)	11.656 (29)	11.573 (23) <sup>F</sup>		-18.7 (4.1)	1.6 (4.1)	-22.4 (6.8)	-1.5 (6.8)	1.16	0.42		
1123	21:34:51.93	57:19:33.0 <sup>T</sup>	1309	4309			12.7 <sup>j</sup>					11.248 (24)	10.932 (28)	10.865 (25) <sup>F</sup>		5 (2.7)	-6.4 (2.7)	2.4 (5.3)	-8.7 (3.8)	0.27	-0.79		
1124	21:35:24.90	57:19:00.9 <sup>T</sup>	1310	4310			14.2 <sup>j</sup>					12.661 (24)	12.426 (31)	12.286 (24) <sup>F</sup>		0.3 (4.1)	7.5 (4.1)	4.3 (6.7)	8.6 (6.7)	-0.52	0.27		
1125	21:35:27.87	57:19:06.8 <sup>T</sup>	1311	4311			14.3 <sup>j</sup>					10.229 (24)	9.284 (28)	8.968 (20) <sup>F</sup>		-4.9 (5.1)	-1.9 (5.1)	-8.4 (6.9)	-7 (6.9)	0.22	-0.12		
1126	21:35:56.55	57:20:52.9 <sup>T</sup>	1312	4312	10.37 <sup>1</sup>	10.67 <sup>F</sup>	10.34 <sup>e</sup>					9.718 (31)	9.636 (37)	9.594 (0) <sup>F</sup>	B4 <sup>e</sup>	1.5 <sup>e</sup>	-1.8 (2)	3 (2)	-3 (0.8)	-4.6 (1.7)	-0.25	-0.19	
1127	21:36:05.71	57:20:05.6 <sup>T</sup>	1313	4313		15.05 <sup>1</sup>	12.8 <sup>1</sup>					7.314 (18)	6.140 (27)	5.774 (18) <sup>F</sup>		-5 (5.1)	1.1 (5.1)	-0.7 (5.9)	-2.8 (6)	0.31	-0.33		
1128	21:36:07.68	57:20:34.8 <sup>T</sup>	1314	4314			12.7 <sup>j</sup>					10.465 (22)	9.849 (29)	9.690 (20) <sup>F</sup>		4.3 (5.1)	11 (5.1)	-5.2 (6.8)	0.7 (6.8)	-1.33	1.07		
1129	21:34:55.98	57:22:54.2 <sup>T</sup>	1315	423			10.3 <sup>j</sup>					8.273 (30)	7.763 (53)	7.599 (20) <sup>F</sup>	G5 <sup>q</sup>	-11.9 (1.5)	-9.4 (1.5)	-9.2 (0.5)	-9.3 (1)	0.61	-0.66		
1130	21:34:55.23	57:23:11.5 <sup>T</sup>	1316	4316			13.5 <sup>j</sup>					12.145 (24)	11.857 (32)	11.768 (25) <sup>F</sup>		-16.7 (11.4)	3.2 (11.4)	-42.7 (6.6)	7.5 (6.8)	0.7	-0.45		
1131	21:35:07.23	57:22:27.7 <sup>T</sup>	1317	4317			13 <sup>j</sup>					11.638 (22)	11.271 (31)	11.208 (22) <sup>F</sup>		-10.6 (4.1)	-3.7 (4.1)	-9.2 (7.3)	-4.9 (7.3)	0.39	-0.56		
1132	21:35:20.37	57:21:46.5 <sup>T</sup>	1318	4318	12.20 <sup>1</sup>	12.04 <sup>1</sup>	11.66 <sup>1</sup>					10.727 (24)	10.639 (29)	10.571 (23) <sup>F</sup>		-9.1 (11.4)	-7.7 (11.4)	-5.6 (1.1)	-3.7 (1.6)	-0.23	0.13		
1133	21:35:24.16	57:21:10.1 <sup>T</sup>	1319	4319			14.4 <sup>j</sup>					12.636 (22)											

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA J2000 hh:mm:ss.ss	Dec J2000 dd:mm:ss.s	MVA	WEB- DA	SHB- 2004	U	B	V	R	I	J	H	K	SpT	Class	$A_V$	$\mu_\alpha$ PPMXL mas/yr	$\mu_\delta$ mas/yr	$\mu_\alpha$ UCAC3 mas/yr	$\mu_\delta$ mas/yr	$\mu_\alpha$ MVA mas/yr	$\mu_\delta$ [j] mas/yr	Comments	
1140	21:35:01.00	57:26:37.0 <sup>F</sup>	1326	4326				13.2 <sup>j</sup>				11.688 (26)	11.384 (31)	11.246 (25) <sup>F</sup>			2.6 (4.1)	8.9 (4.1)	24.4 (7.2)	32.4 (7.2)	-0.5	0.35		
1141	21:35:27.81	57:27:15.6 <sup>F</sup>	1327	4327				14.2 <sup>j</sup>				12.530 (25)	12.193 (28)	12.111 (26) <sup>F</sup>			-6 (4.1)	-0.4 (4.1)	-11.3 (7.6)	12.9 (7.6)	0.15	-0.04		
1142	21:35:43.84	57:28:03.5 <sup>F</sup>	1328	4328				8.23 <sup>l</sup>	8.78 <sup>l</sup>	8.41 <sup>l</sup>		7.544 (19)	7.539 (46)	7.489 (18) <sup>F</sup>	B0.5P VP		-0.4 (1.2)	-3.1 (1.2)	-4.3 (0.7)	-5 (1.1)	-0.31	-0.4		
1143	21:35:54.98	57:28:54.4 <sup>F</sup>	1329	4329				12.7 <sup>j</sup>				9.765 (23)	8.984 (27)	8.789 (21) <sup>F</sup>			-7.2 (5.1)	-4.1 (5.1)	-36.9 (6.6)	-67.2 (6.5)	0.53	-0.58	new coordinates	
1144	21:35:59.05	57:28:53.1 <sup>F</sup>	1330	4330				14.3 <sup>j</sup>				10.640 (23)	9.826 (27)	9.560 (21) <sup>F</sup>			-1.7 (4.9)	1.6 (4.9)	8.1 (7)	18.5 (7)	-0.31	0.29		
1145	21:36:01.48	57:28:14.4 <sup>F</sup>	1331	4331				9.85 <sup>l</sup>	9.84 <sup>l</sup>	9.42 <sup>l</sup>		8.810 (27)	8.648 (27)	8.636 (23) <sup>F</sup>	F3P III <sup>P</sup>		19.9 (1.7)	-4.6 (1.7)	21.6 (3)	-3.8 (1.1)	-2.28	-0.6		
1146	21:36:02.76	57:28:14.0 <sup>F</sup>	1332	4332				9.5 <sup>j</sup>				8.364 (27)	8.177 (42)	8.170 (31) <sup>F</sup>	F3 <sup>Q</sup>		21 (1.3)	-4.2 (1.3)	20.2 (1.8)	-3.7 (1.8)	-2.23	-0.59		
1147	21:34:17.29	57:30:27.4 <sup>F</sup>	1333	4333				14.6 <sup>j</sup>				12.749 (26)	12.414 (33)	12.308 (28) <sup>F</sup>			-2.7 (5.5)	0.9 (5.5)						
1148	21:34:40.73	57:31:08.9 <sup>F</sup>	1334	4334				13.9 <sup>j</sup>				11.949 (22)	11.561 (31)	11.446 (22) <sup>F</sup>			-16 (4)	-2.1 (4)	-51.5 (7.3)	-59.5 (7.3)	0.48	0.13		
1149	21:34:42.42	57:31:17.5 <sup>F</sup>	1335	4335				13.11 <sup>j</sup>				11.997 (24)	11.678 (28)	11.602 (25) <sup>F</sup>			-14.8 (3.8)	-14.9 (3.8)	-9.7 (6.7)	-7.5 (6.7)	0.56	-0.9		
1150	21:34:42.07	57:33:05.5 <sup>F</sup>	1336	4336				11.2 <sup>j</sup>				10.543 (24)	10.473 (26)	10.455 (22) <sup>F</sup>	A0 <sup>Q</sup>		8 (2)	1.1 (2)	-4.5 (0.7)	-3.8 (1.7)	-0.14	-0.3		
1151	21:34:29.80	57:34:14.1 <sup>F</sup>	1337	4337				13.7 <sup>j</sup>				10.458 (24)	9.600 (27)	9.340 (20) <sup>F</sup>			1.1 (4.7)	1.1 (4.7)	13.9 (6.8)	16.7 (6.8)	0.25	0.26		
1152	21:34:33.03	57:40:41.1 <sup>F</sup>	1338	4338				14.1 <sup>j</sup>				12.417 (24)	11.953 (28)	11.942 (23) <sup>F</sup>			-0.1 (3.8)	4 (3.8)	-6.4 (7.3)	-3.1 (7.5)	0.01	0.31		
1153	21:36:10.14	57:12:53.3 <sup>F</sup>	1340	4340				10.9 <sup>j</sup>				10.095 (22)	9.924 (29)	9.879 (21) <sup>F</sup>			27.6 (2)	20.8 (2)	26.2 (0.6)	9.5 (1.3)	-3.45	1.52		
1154	21:36:10.47	56:52:30.0 <sup>F</sup>	1341	4341				11.6 <sup>j</sup>				10.459 (22)	10.051 (28)	9.955 (21) <sup>F</sup>			15.3 (5.1)	22.2 (5.1)	15.1 (1.3)	21.2 (0.6)				
1155	21:36:24.19	56:52:50.2 <sup>F</sup>	1342	4342				12 <sup>j</sup>				10.499 (23)	10.172 (27)	10.047 (20) <sup>F</sup>			3.3 (4.1)	-5.4 (4.1)	7.7 (2.6)	-12.3 (2)	-1.45	-0.98		
1156	21:35:48.68	56:54:22.1 <sup>F</sup>	1344	4344				14.2 <sup>j</sup>				12.109 (22)	11.794 (31)	11.656 (24) <sup>F</sup>			0.2 (4.1)	4.8 (4.1)	5.1 (6.8)	8 (6.8)	-0.86	0.37		
1157	21:36:06.85	56:53:40.4 <sup>F</sup>	1345	4345				14.5 <sup>j</sup>				12.512 (24)	12.212 (31)	12.137 (25) <sup>F</sup>			0.3 (4.1)	-0.2 (4.1)	-6.1 (5.9)	-2.7 (5.9)	-0.69	0.87		
1158	21:35:34.88	56:57:16.9 <sup>F</sup>	1346	4346				12.7 <sup>j</sup>				11.366 (22)	11.023 (28)	10.934 (21) <sup>F</sup>			-10.8 (4.1)	-26.7 (4.1)	-7.3 (7.1)	-22.3 (7)	0.62	-2.01		
1159	21:36:25.44	56:57:10.6 <sup>F</sup>	1347	4347				14.5 <sup>j</sup>				10.479 (23)	9.585 (27)	9.288 (20) <sup>F</sup>			-1.2 (5.1)	-7.8 (5.1)	-6 (6.8)	-0.1 (6.8)				
1160	21:35:50.57	56:59:48.9 <sup>F</sup>	1348	4348				14.2 <sup>j</sup>				12.576 (24)	12.429 (28)	12.278 (23) <sup>F</sup>			-4.1 (4.1)	-0.8 (4.1)	-5.4 (6.8)	5.6 (6.7)	-0.39	0.13		
1161	21:35:52.37	56:59:50.0 <sup>F</sup>	1349	4349				13.3 <sup>j</sup>				10.186 (22)	9.440 (28)	9.212 (21) <sup>F</sup>			2.6 (5.1)	2.3 (5.1)	-2.6 (6.9)	8.4 (7)	-0.93	0.79		
1162	21:36:09.54	56:59:37.9 <sup>F</sup>	1350	4350				14.6 <sup>j</sup>				11.219 (24)	10.516 (29)	10.263 (21) <sup>F</sup>			-1.4 (4.1)	3.9 (4.1)	2.5 (6.8)	41.2 (6.8)	-0.14	0.06		
1163	21:36:24.73	57:00:25.7 <sup>F</sup>	1351	4351				12.3 <sup>j</sup>				9.680 (23)	9.060 (27)	8.862 (21) <sup>F</sup>			-16.9 (5.1)	-1.3 (5.1)	-12.7 (7.7)	5.8 (7.7)	0.44	-0.29		
1164	21:35:54.49	57:02:23.4 <sup>F</sup>	1352	4352				13 <sup>j</sup>				10.153 (24)	9.497 (29)	9.265 (21) <sup>F</sup>			-6.6 (5.1)	-5.7 (5.1)	-34.7 (7.2)	-20.2 (7.2)	0.03	-0.37		
1165	21:36:28.20	57:01:58.3 <sup>F</sup>	1353	4353				14.2 <sup>j</sup>				12.145 (25)	11.819 (33)	11.743 (26) <sup>F</sup>			-6.1 (4.1)	-2 (4.1)	-15.6 (6.8)	1.3 (6.8)	-0.15	0.26		
1166	21:35:42.77	57:03:59.5 <sup>F</sup>	1354	4354				10.7 <sup>j</sup>				9.781 (24)	9.684 (28)	9.597 (20) <sup>F</sup>			-0.8 (2)	-8.7 (2)	-2.6 (1)	-6.1 (1)	-0.38	-0.11		
1167	21:35:57.15	57:03:14.8 <sup>F</sup>	1355	4355				14.5 <sup>j</sup>				12.529 (22)	12.176 (32)	12.080 (25) <sup>F</sup>			-3.3 (4.1)	-6.4 (4.1)	-3.3 (6.8)	-4.2 (6.8)	-0.35	0.31		
1168	21:36:11.32	57:03:31.3 <sup>F</sup>	1356	4356				14.3 <sup>j</sup>				11.021 (22)	10.236 (29)	10.023 (20) <sup>F</sup>			2.9 (4.1)	-4.9 (4.1)	1.3 (6.8)	9.4 (6.8)	-1.1	-0.88		
1169	21:36:16.72	57:03:09.9 <sup>F</sup>	1357	4357				13.1 <sup>j</sup>				11.797 (0)	11.596 (34)	11.486 (29) <sup>F</sup>			-11 (4.1)	11.8 (4.1)	-5.4 (2)	-1.4 (3.4)	-0.01	0.06	2x[r]	
1170	21:36:16.85	57:03:06.2 <sup>F</sup>	1357	4357				13.1 <sup>j</sup>				13.864 (55)	12.006 (0)	11.956 (0) <sup>F</sup>				-5.4 (2)	-1.4 (3.4)	-0.01	0.06	2x[r]		
1171	21:36:19.66	57:03:31.4 <sup>F</sup>	1358	4358				14.5 <sup>j</sup>				12.454 (24)	12.162 (28)	12.013 (25) <sup>F</sup>			-6.5 (4.1)	0.7 (4.1)	-8.1 (6.7)	6.3 (6.7)	-0.28	0.33		
1172	21:36:22.45	57:03:20.6 <sup>F</sup>	1359	4359				12.8 <sup>j</sup>				11.368 (22)	11.161 (27)	11.065 (23) <sup>F</sup>			-5.9 (4.1)	1.3 (4.1)	-10.6 (6.8)	5.3 (6.8)	-0.18	0.01		
1173	21:35:33.06	57:06:31.4 <sup>F</sup>	1360	4360				10 <sup>j</sup>				8.682 (23)	8.299 (44)	8.293 (0) <sup>F</sup>	dK0 <sup>Q</sup>		-84 (2)	61.2 (2)	-83 (0.7)	64 (0.7)			[j] imprec.	
1174	21:35:50.78	57:06:08.2 <sup>F</sup>	1361	4361				13.1 <sup>j</sup>				11.414 (24)	11.042 (31)	10.818 (21) <sup>F</sup>			1.2 (4.1)	-11.2 (4.1)	3 (7.1)	-15 (7.1)	-0.1	-0.06		
1175	21:36:10.38	57:05:45.5 <sup>F</sup>	1362	4362				14.8 <sup>j</sup>				12.853 (24)	12.453 (32)	12.345 (25) <sup>F</sup>			-6.3 (4.1)	4.4 (4.1)	-9.6 (6.8)	14.9 (6.8)				
1176	21:36:20.40	57:05:26.4 <sup>F</sup>	1363	4363				13.9 <sup>j</sup>				10.807 (22)	10.072 (27)	9.878 (21) <sup>F</sup>			-5.9 (5.1)	0.2 (5.1)	-27.3 (6.9)	-0.8 (7)	0.03	-0.05	no star	
1177	21:35:47.63	57:07:05.2 <sup>j</sup>	1364	4364				14.3 <sup>j</sup>																
1178	21:35:52.56	57:07:46.0 <sup>F</sup>	1365	4365				12.2 <sup>j</sup>				9.584 (27)	8.594 (78)	8.380 (69) <sup>F</sup>			-12.1 (5.2)	-8.5 (5.2)	-46.7 (7.8)	-62.8 (7.8)	-0.03	0.34		
1179	21:36:15.01	57:07:57.1 <sup>F</sup>	1366	4366				14.6 <sup>j</sup>				13.124 (26)	12.893 (30)	12.841 (31) <sup>F</sup>			-5 (4.1)	-0.3 (4.1)	-6.9 (6.8)	-8.2 (6.8)				
1180	21:36:18.59	57:07:28.1 <sup>F</sup>	1367	4367				14.5 <sup>j</sup>				11.461 (22)	10.810 (28)	10.611 (20) <sup>F</sup>			6.6 (4.1)	28.2 (4.1)	0.4 (6.8)	36 (6.8)	-2.02	3.25		
1181	21:36:21.54	57:07:56.0 <sup>F</sup>	1368	4368				14.8 <sup>j</sup>				12.863 (39)	12.542 (44)	12.424 (36) <sup>F</sup>			-19.9 (4.1)	5.8 (4.1)						
1182	21:35:36.71	57:08:21.4 <sup>F</sup>	1370	4370				13.11 <sup>j</sup>				11.633 (26)	11.385 (29)	11.222 (23) <sup>F</sup>			-10.1 (4.1)	3.5 (4.1)	-11.8 (7)	26.4 (7)	0.16	0.06		
1183	21:36:07.08	57:09:32.7 <sup>F</sup>	1371	4371				14.4 <sup>j</sup>				10.914 (24)	10.194 (29)	9.922 (21) <sup>F</sup>			-3.4 (5.1)	-4.5 (5.1)	-2.3 (6.9)	-19.3 (6.9)	0.2	0.36		
1184	21:36:10.22	57:09:33.9 <sup>F</sup>	1372	4372				14.2 <sup>j</sup>				12.366 (22)	12.086 (31)	11.970 (25) <sup>F</sup>			-8.2 (4.1)	0.5 (4.1)	-19 (6.7)	24.3 (6.7)	0.27	0.06		
1185	21:36:47.51	56:53:37.5 <sup>F</sup>	1373	4373				12.8 <sup>j</sup>				10.415 (22)	9.806 (27)	9.629 (20) <sup>F</sup>			-2.4 (5.1)	-1.7 (5.1)	2.1 (7)	4.6 (7)	-0.13	-0.09		
1186	21:37:05.38	56:52:53.5 <sup>F</sup>	1375	4375				14.6 <sup>j</sup>				11.605 (22)	10.850 (26)	10.689 (21) <sup>F</sup>			-0.2 (4.1)	-5.4 (4.1)	-3.2 (6.8)	-2.2 (6.8)				
1187	21:37:02.23	56:53:33.6 <sup>F</sup>	1376	4376				14.6 <sup>j</sup>				13.083 (22)	12.809 (27)	12.832 (33) <sup>F</sup>			0.2 (4.1)	1.3 (4.1)	-2.7 (6.8)	2.1 (6.8)	0.12	0.27		
1188	21:37:16.80	56:52:29.1 <sup>F</sup>	1378	4378				12.2 <sup>j</sup>				8.438 (20)	7.492 (57)	7.141 (23) <sup>F</sup>			-1.4 (5.1)	-1.9 (5.1)	-48.2 (7.2)	17.3 (7.3)				
1189	21:37:21.60	56:53:14.8 <sup>F</sup>	1379	4379				14.3 <sup>j</sup>				12.945 (22)	12.665 (33)	12.626 (26) <sup>F</sup>			-1.1 (4.1)	-2.1 (4.1)	-5.4 (6.8)	7 (6.7)	-0.22	-0.33		
1190	21:37:25.23	56:53:02.5 <sup>F</sup>	1380	4380				13.2 <sup>j</sup>				11.870 (0)	11.641 (30)	11.567 (24) <sup>F</sup>			3.7 (4.1)	-3 (4.1)	2.3 (6.9)	-21.9 (7)	-1.11	0.75		
1191	21:37:31.97	56:53:41.1 <sup>F</sup>	1381	4381				13 <sup>j</sup>				11.492 (22)	10.960 (28)	10.896 (20) <sup>F</sup>			20.9 (4.1)	25.1 (4.1)	19.8 (7)	27.5 (7)	-3.03	2.89		
1192	21:37:00.24	56:55:40.2 <sup>F</sup>	1382	4382				12.1 <sup>j</sup>				9.740 (22)	9.161 (27)	8										

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
		J2000		DA	2004											PPMXL		UCAC3		MVA	[j]	
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1193	21:36:58.02	56:56:14.3 <sup>T</sup>	1383	4383		14.4 <sup>j</sup>					12.576 (24)	12.296 (30)	12.195 (24) <sup>T</sup>		-2.5 (4.1)	-6.6 (4.1)	-4.7 (6.8)	-0.9 (6.7)	-0.36	-0.05		
1194	21:37:26.83	56:56:46.3 <sup>T</sup>	1384	4384		12.9 <sup>j</sup>					9.979 (22)	9.198 (26)	8.998 (20) <sup>T</sup>		1.1 (5.1)	-3.3 (5.1)	-4.1 (7)	-0.9 (7)	-0.06	0.16		
1195	21:37:39.71	56:55:08.6 <sup>T</sup>	1385	4385		13 <sup>j</sup>					15.080 (68)	14.301 (66)	14.243 (82) <sup>T</sup>				-35.5 (7.1)	22.4 (7)	0.21	-0.6	2x[r] (faint)	
1196	21:37:39.02	56:55:09.3 <sup>T</sup>	1385	4385		13 <sup>j</sup>					11.517 (26)	11.152 (32)	11.050 (24) <sup>T</sup>		-5.7 (4.1)	2.7 (4.1)	-35.5 (7.1)	22.4 (7)	0.21	-0.6	2x[r]	
1197	21:37:41.03	56:53:57.0 <sup>T</sup>	1386	4386		11.5 <sup>j</sup>					8.632 (23)	7.875 (49)	7.627 (21) <sup>T</sup>		-0.4 (5.1)	-4.9 (5.1)	70.4 (7.5)	-4.5 (7.5)	0.19	-0.37		
1198	21:37:50.59	56:53:16.4 <sup>T</sup>	1387	4387		14.2 <sup>j</sup>					10.990 (23)	10.405 (31)	10.217 (18) <sup>T</sup>		-4 (4)	2.5 (4)	-0.1 (6.9)	0.4 (6.9)	-1.58	0.54		
1199	21:37:54.87	56:54:22.7 <sup>T</sup>	1388	4388		10.6 <sup>j</sup>					9.157 (29)	8.925 (30)	8.934 (20) <sup>T</sup>		18.3 (1.3)	-5.2 (1.2)	17.9 (0.5)	-2 (0.5)	-2.83	-0.31		
1200	21:36:57.78	56:57:36.1 <sup>T</sup>	1389	4389		12.1 <sup>j</sup>					7.075 (20)	5.962 (36)	5.552 (20) <sup>T</sup>		-0.1 (5.1)	-2.7 (5.1)	-9.2 (7.8)	-0.1 (7.8)	0	-0.11		
1201	21:37:35.89	56:58:46.4 <sup>T</sup>	1391	4391		13.6 <sup>j</sup>					12.080 (22)	11.774 (27)	11.742 (25) <sup>T</sup>		5.6 (4.1)	1.6 (4.1)	0.3 (6.9)	17.3 (6.9)	-0.78	0.31		
1202	21:37:43.54	56:59:11.1 <sup>T</sup>	1392	4392		10 <sup>j</sup>					8.591 (27)	8.230 (29)	8.240 (23) <sup>T</sup>		3.2 (1.3)	-50 (1.2)	8.9 (7.2)	-34.5 (7.1)	-0.32	-5.1		
1203	21:37:50.71	56:59:47.8 <sup>T</sup>	1393	4393		14.3 <sup>j</sup>					12.169 (24)	11.831 (32)	11.729 (20) <sup>T</sup>		-8.6 (4)	0.9 (4)	0.3 (6.8)	14.8 (6.8)	0.49	-0.15		
1204	21:36:37.59	57:00:57.3 <sup>T</sup>	1394	4394		13.8 <sup>j</sup>					7.933 (21)	6.827 (27)	6.365 (24) <sup>T</sup>		-2.9 (5.1)	-3 (5.1)	-8.9 (6.7)	2.8 (6.8)	-0.1	0.07		
1205	21:37:00.77	57:00:45.0 <sup>T</sup>	1395	4395		13 <sup>j</sup>					11.417 (24)	10.964 (31)	10.827 (21) <sup>T</sup>		40 (18.4)	-38.7 (18.4)			-2.4	2.14		
1206	21:37:34.16	57:01:57.7 <sup>T</sup>	1396	4396		11.5 <sup>j</sup>					8.588 (23)	7.741 (31)	7.515 (16) <sup>T</sup>		-3.1 (13.2)	-18.2 (13.2)	16 (9.6)	-0.2 (8.9)	0.31	0.05		
1207	21:37:33.90	57:02:09.6 <sup>T</sup>	1397	4397		12.6 <sup>j</sup>					11.383 (27)	11.059 (31)	10.984 (25) <sup>T</sup>		-8.1 (4.1)	10.1 (4.1)			0.16	0.49		
1208	21:37:53.02	57:01:33.7 <sup>T</sup>	1398	4398		13.3 <sup>j</sup>					9.083 (21)	8.096 (80)	7.755 (29) <sup>T</sup>		-3.9 (5.1)	-2 (5.1)	-9.4 (7)	3.3 (7)	0.22	-0.11		
1209	21:37:46.42	57:01:53.2 <sup>T</sup>	1399	4399		14.6 <sup>j</sup>					13.281 (26)	13.008 (34)	12.918 (34) <sup>T</sup>		-4.8 (4.1)	-7.3 (4.1)	-6.7 (6.8)	1.5 (6.8)				
1210	21:37:53.14	57:01:59.7 <sup>T</sup>	1400	4400		12.7 <sup>j</sup>					10.246 (21)	9.664 (30)	9.527 (18) <sup>T</sup>		-2.8 (5.1)	-2.2 (5.1)	-15.7 (7.2)	-23.5 (7.2)	0.05	0.4		
1211	21:36:34.88	57:02:12.5 <sup>T</sup>	1401	4401		13.2 <sup>j</sup>					12.068 (27)	11.920 (33)	11.887 (28) <sup>T</sup>		-72.7 (7.6)	26.5 (7.6)	-21 (6.9)	43.1 (6.9)	-0.25	0.15		
1212	21:36:40.64	57:01:38.1 <sup>T</sup>	1402	4402		11.8 <sup>j</sup>					7.207 (21)	6.159 (20)	5.789 (17) <sup>T</sup>		-3.1 (5.1)	-3 (5.1)	-7.6 (7.8)	0.7 (7.8)	-0.14	-0.46		
1213	21:36:54.60	57:02:53.7 <sup>T</sup>	1403	4403		12.2 <sup>j</sup>					8.555 (19)	7.579 (18)	7.310 (16) <sup>T</sup>		-1.6 (5.1)	-4.2 (5.1)	-7.4 (7.6)	-3.4 (7.7)	-0.28	-0.19		
1214	21:36:53.74	57:03:04.4 <sup>T</sup>	1404	4404		13.2 <sup>j</sup>					12.012 (26)	11.815 (36)	11.721 (29) <sup>T</sup>		-29.2 (7.6)	399.5 (8.1)	-14.8 (6.3)	16 (6.4)	-0.38	-0.01		
1215	21:37:01.98	57:02:52.6 <sup>T</sup>	1405	4405		13.7 <sup>j</sup>					11.680 (22)	11.260 (27)	11.146 (21) <sup>T</sup>		-5.7 (4.1)	-4.5 (4.1)	-1.6 (6.8)	-3 (6.8)	-0.09	0.07		
1216	21:37:11.39	57:03:08.0 <sup>T</sup>	1406	4406		13.3 <sup>j</sup>					9.124 (24)	8.064 (51)	7.721 (26) <sup>T</sup>		-4 (5.1)	-4.9 (5.1)	-10.7 (7)	4.4 (7)	0.02	-0.16		
1217	21:37:12.37	57:03:28.4 <sup>T</sup>	1407	4407		12.9 <sup>j</sup>					11.670 (31)	11.362 (46)	11.275 (38) <sup>T</sup>		-7.4 (4.1)	3.2 (4.1)	-37.2 (7)	23.7 (7)	-0.07	0.05		
1218	21:37:17.61	57:04:36.2 <sup>T</sup>	1408	4408		10.9 <sup>j</sup>					8.317 (29)	7.645 (24)	7.476 (23) <sup>T</sup>		5.5 (2.8)	8.3 (2.8)	6.5 (1.6)	7 (1.1)	-1	1.2		
1219	21:37:25.17	57:04:23.7 <sup>T</sup>	1409	4409		14.6 <sup>j</sup>					12.481 (26)	12.036 (32)	11.924 (28) <sup>T</sup>		-0.6 (4.1)	-2.5 (4.1)	3.4 (6.9)	-13.4 (6.9)	-0.35	0.22		
1220	21:37:30.80	57:04:11.2 <sup>T</sup>	1410	4410		14.3 <sup>j</sup>					12.729 (26)	12.378 (31)	12.253 (29) <sup>T</sup>		6.1 (4.1)	0.7 (4.1)	10.6 (6.8)	22.1 (6.8)	-1.04	0.56		
1221	21:37:42.03	57:03:20.6 <sup>T</sup>	1411	4411		12.7 <sup>j</sup>					11.555 (24)	11.298 (30)	11.240 (23) <sup>T</sup>		8.6 (4.1)	5.6 (4.1)	3.5 (1.2)	-0.8 (5.2)	-1	0.48		
1222	21:37:43.06	57:04:17.4 <sup>T</sup>	1412	4412		14.7 <sup>j</sup>					10.656 (24)	9.597 (26)	9.366 (21) <sup>T</sup>		0 (5.1)	-1.2 (5.1)	-4.2 (6.8)	-1.9 (6.8)				
1223	21:37:45.16	57:04:30.2 <sup>T</sup>	1413	4413		14 <sup>j</sup>					12.547 (24)	12.219 (28)	12.113 (23) <sup>T</sup>		-7.2 (4.1)	-6.2 (4.1)	-7.1 (6.8)	2.5 (6.8)	0.29	-0.54		
1224	21:36:54.55	57:05:18.7 <sup>T</sup>	1414	4414		13.5 <sup>j</sup>					12.062 (22)	11.761 (30)	11.662 (21) <sup>T</sup>		-3.4 (4.1)	1.2 (4.1)	-7.1 (6.8)	6.5 (6.8)	-0.01	0.13		
1225	21:36:32.81	57:06:33.5 <sup>T</sup>	1415	4415		13.3 <sup>j</sup>					11.980 (24)	11.805 (30)	11.707 (23) <sup>T</sup>		-1.2 (4.1)	4.5 (4.1)	-1.7 (6.8)	5.7 (6.8)	-0.63	0.4		
1226	21:36:45.23	57:06:53.6 <sup>T</sup>	1416	4416		14.1 <sup>j</sup>					12.356 (24)	12.061 (28)	11.937 (21) <sup>T</sup>		4.6 (4.1)	3.4 (4.1)	39.1 (6.2)	26.7 (6.2)	-0.23	-0.02		
1227	21:36:59.83	57:06:31.6 <sup>j</sup>	1417	4417		12.6 <sup>j</sup>																no star
1228	21:37:35.89	57:06:09.6 <sup>T</sup>	1418	4418		13.8 <sup>j</sup>					11.545 (24)	10.900 (26)	10.798 (21) <sup>T</sup>		-13.4 (4.1)	-1.4 (4.1)	-14.5 (6.8)	5.7 (6.8)	0.68	0.07		
1229	21:37:36.37	57:06:23.6 <sup>T</sup>	1419	4419		14.7 <sup>j</sup>					12.662 (27)	12.238 (32)	12.158 (28) <sup>T</sup>		-4.1 (4.1)	9.3 (4.1)	-2.2 (6.8)	19.3 (6.9)				
1230	21:37:46.76	57:07:05.6 <sup>T</sup>	1420	166		10.3 <sup>j</sup>					7.712 (34)	7.080 (31)	6.934 (33) <sup>T</sup>	G8 <sup>d</sup>	17.8 (1.7)	3.8 (1.7)	11.9 (0.9)	2.2 (0.6)	-1.47	0.86		
1231	21:36:33.90	57:08:20.2 <sup>T</sup>	1421	4421		11.9 <sup>j</sup>					8.882 (26)	8.110 (26)	7.839 (21) <sup>T</sup>		-11.7 (13.8)	8.9 (13.8)	-11.3 (7.9)	-14.5 (5.3)	-0.49	0.13		
1232	21:37:03.24	57:08:09.9 <sup>T</sup>	1422	4422		13.4 <sup>j</sup>					11.516 (24)	11.082 (28)	10.984 (21) <sup>T</sup>		-3.2 (4.1)	1.5 (4.1)	-1.3 (6.8)	1.7 (6.8)	-0.16	-0.11		
1233	21:37:28.93	57:08:52.8 <sup>T</sup>	1423	4423		14.3 <sup>j</sup>					10.895 (24)	10.073 (27)	9.820 (21) <sup>T</sup>		-2.7 (5.1)	-3.7 (5.1)	-13.8 (6.8)	13.8 (6.8)				
1234	21:37:57.85	57:07:26.2 <sup>T</sup>	1425	4425		13.3 <sup>j</sup>					11.214 (26)	10.665 (32)	10.558 (19) <sup>T</sup>		-15.3 (4)	-1.6 (4)	-11.9 (7)	-25.3 (7.1)	0.83	0.94		
1235	21:38:01.16	57:08:58.4 <sup>T</sup>	1426	4426		14.2 <sup>j</sup>					12.297 (24)	12.020 (31)	11.856 (18) <sup>T</sup>		-9.2 (4)	-2.7 (4)	-22.7 (6.7)	-0.7 (6.8)	-0.13	0.12		
1236	21:36:46.05	57:10:17.4 <sup>T</sup>	1427	4427		12.4 <sup>j</sup>					9.072 (26)	8.191 (38)	7.910 (21) <sup>T</sup>		-2.8 (5.1)	-1.4 (5.1)	2.5 (7.2)	2 (7.3)	0.12	0.13		
1237	21:37:13.37	57:10:22.3 <sup>T</sup>	1428	4428		11.5 <sup>j</sup>					8.566 (21)	7.749 (29)	7.558 (20) <sup>T</sup>		-5.8 (2.8)	-2.2 (2.8)	-3.7 (1.6)	2.2 (1.8)	-0.17	0.71		
1238	21:37:40.47	57:09:48.3 <sup>T</sup>	1429	4429		13.9 <sup>j</sup>					12.501 (24)	12.182 (28)	12.112 (24) <sup>T</sup>		-8.4 (4.1)	1.5 (4.1)	-10.9 (6.8)	-1.4 (6.9)	0.27	0.23		
1239	21:38:45.92	56:53:05.1 <sup>T</sup>	1431	4431		13 <sup>j</sup>					11.657 (29)	11.392 (32)	11.281 (23) <sup>T</sup>		-7.9 (4)	-25.2 (4)	-7.9 (7.3)	-96 (7.3)	0.06	0.19		
1240	21:39:07.49	56:53:31.3 <sup>T</sup>	1434	4434		14.2 <sup>j</sup>					11.491 (21)	10.859 (27)	10.680 (20) <sup>T</sup>		-3.6 (4)	0.1 (4)	-3.4 (6.8)	5.8 (6.8)	-0.11	0.45		
1241	21:38:20.66	56:56:09.0 <sup>T</sup>	1436	4436		13.9 <sup>j</sup>					11.607 (23)	11.123 (33)	10.996 (24) <sup>T</sup>		10.5 (4)	-8.9 (4)	30.6 (7.1)	-42.3 (7.1)	-0.94	1.13		
1242	21:38:28.51	56:57:14.5 <sup>T</sup>	1437	4437		13.1 <sup>j</sup>					12.007 (21)	11.542 (29)	11.541 (18) <sup>T</sup>		7.4 (4)	-2.1 (4)	8.3 (7.1)	-19.4 (7.1)	-1.11	-0.13		
1243	21:38:49.68	56:55:07.1 <sup>T</sup>	1438	4438		13.3 <sup>j</sup>					12.285 (24)	12.049 (32)	11.973 (26) <sup>T</sup>						-0.05	-0.21		
1244	21:38:26.21	56:58:18.8 <sup>T</sup>	1439	4439		12.8 <sup>j</sup>					10.227 (54)	9.799 (38)	9.612 (18) <sup>T</sup>						0.39	0.29		
1245	21:38:25.76	56:58:36.8 <sup>T</sup>	1441	4441		12.6 <sup>j</sup>					11.504 (36)	11.159 (40)	11.114 (30) <sup>T</sup>						-1.58	1.35		

**Table A1** Literature data for stars in **Trumpler 37** – continued

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	<i>A<sub>v</sub></i>	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	Comments	
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004	mag	mag	mag	mag	mag	mag	mag	mag		mag	PPMXL	mas/yr	mas/yr	UCAC3	mas/yr	MVA	$\mu_{\delta}$	[j]
1246	21:38:34.22	56:58:49.1 <sup>T</sup>	1442	4442				14.1 <sup>j</sup>			10.645 (21)	9.823 (30)	9.621 (20) <sup>F</sup>			0.6 (6.6)	-2.5 (6.6)	10.6 (6.8)	1.6 (6.9)	0.06	-0.18		
1247	21:38:50.83	56:57:30.3 <sup>T</sup>	1443	4443				13.1 <sup>j</sup>			11.878 (24)	11.432 (27)	11.364 (23) <sup>F</sup>			3.9 (4)	2.7 (4)	2.9 (7)	9.5 (7)	-1.27	0.64		
1248	21:39:04.74	56:56:59.5 <sup>T</sup>	1444	174		8.92 <sup>l</sup>	9.38 <sup>l</sup>	8.34 <sup>g</sup>	7.88	7.76 <sup>g</sup>	8.560 (24)	8.528 (49)	8.494 (20) <sup>F</sup>	B2P IV-V <sup>P</sup>		-2.5 (0.7)	-6.1 (0.8)	-1.2 (0.6)	-5.1 (0.5)	0.03	-0.25		
1249	21:39:06.88	56:56:27.9 <sup>T</sup>	1445	4445				11.9 <sup>j</sup>			9.222 (26)	8.467 (31)	8.269 (23) <sup>F</sup>			-2.1 (5.1)	4 (5.1)			0.12	0.14		
1250	21:39:12.41	56:55:51.9 <sup>T</sup>	1446	4446				12 <sup>j</sup>			10.766 (23)	10.472 (31)	10.408 (23) <sup>F</sup>			-0.8 (2.7)	5.6 (2.7)	-2.8 (0.7)	4.9 (1.3)	-0.15	0.91		
1251	21:39:17.93	56:54:41.4 <sup>T</sup>	1447	4447				14.5 <sup>j</sup>			13.089 (23)	12.930 (36)	12.785 (20) <sup>F</sup>			-8.5 (4)	2.2 (4)	-4.4 (6.8)	11.1 (6.8)	-0.4	0.1		
1252	21:39:20.35	56:54:51.5 <sup>T</sup>	1448	4448				14.1 <sup>j</sup>			12.083 (23)	11.710 (33)	11.541 (20) <sup>F</sup>			-5 (4)	-0.8 (4)	-5.8 (6.8)	-2.7 (6.8)	0.01	-0.12		
1253	21:37:58.73	57:00:09.3 <sup>T</sup>	1449	4449				14.5 <sup>j</sup>			10.160 (21)	9.175 (31)	8.869 (20) <sup>F</sup>			-2.6 (5.1)	-1.1 (5.1)	-4.2 (6.8)	7.6 (6.8)	-0.51	0.44		
1254	21:38:09.12	57:00:50.5 <sup>T</sup>	1450	4450				13.7 <sup>j</sup>			9.803 (21)	8.934 (30)	8.663 (20) <sup>F</sup>			-4.2 (5.1)	-3.7 (5.1)	-5.1 (7)	1 (7)	0.33	0.18		
1255	21:38:14.12	57:01:33.1 <sup>T</sup>	1451	4451				14.3 <sup>j</sup>			12.870 (23)	12.653 (29)	12.584 (20) <sup>F</sup>			-5 (4)	-4.4 (4)	-9.6 (6.8)	-10.8 (6.8)	-0.21	0.06		
1256	21:38:21.36	57:01:52.4 <sup>T</sup>	1452	4452				13.9 <sup>j</sup>			12.000 (21)	11.767 (31)	11.577 (24) <sup>F</sup>			-3.5 (4)	-5.3 (4)			0.23	0.03		
1257	21:38:24.37	57:02:08.8 <sup>T</sup>	1453	4453				13.6 <sup>j</sup>			11.595 (21)	11.251 (29)	11.114 (18) <sup>F</sup>			-7.7 (4)	-10 (4)	-12.2 (6.9)	0.8 (7)	0.13	0.04		
1258	21:38:22.34	57:02:29.3 <sup>T</sup>	1454	4454				13.5 <sup>j</sup>			11.848 (29)	11.544 (40)	11.418 (31) <sup>F</sup>			-29.2 (4)	-15.6 (4)			0.04	-0.67	2x[r]	
1259	21:38:23.00	57:02:28.2 <sup>T</sup>	1454	4454				13.5 <sup>j</sup>			14.092 (44)	13.650 (47)	13.480 (54) <sup>F</sup>			261.1 (9.4)	-76.7 (9.4)			0.04	-0.67	2x[r] (faint)	
1260	21:38:39.84	57:02:57.7 <sup>T</sup>	1455	4455				14.1 <sup>j</sup>			10.861 (23)	10.132 (31)	9.908 (22) <sup>F</sup>			-4.6 (6.5)	-1.2 (7.2)			0.1	0.21	2x[r]	
1261	21:38:40.34	57:02:53.7 <sup>T</sup>	1455	4455				14.1 <sup>j</sup>			14.670 (82)	14.185 (92)	14.032 (114) <sup>F</sup>			-16.6 (5.3)	14.6 (5.3)			0.1	0.21	2x[r] (faint)	
1262	21:38:14.86	57:03:04.8 <sup>T</sup>	1456	4456				14.2 <sup>j</sup>			11.315 (21)	10.694 (29)	10.453 (18) <sup>F</sup>			-3.1 (4)	-6.2 (4)	0 (6.9)	4.3 (6.9)	-0.26	0.03		
1263	21:38:00.65	57:05:27.2 <sup>T</sup>	1457	4457				14.5 <sup>j</sup>			12.509 (24)	12.338 (37)	12.114 (20) <sup>F</sup>			1.1 (4)	-0.6 (4)	-3.7 (6.8)	-4.6 (6.8)	-0.74	0.46		
1264	21:38:04.10	57:05:16.9 <sup>T</sup>	1458	4458				13.1 <sup>j</sup>			10.283 (23)	9.585 (31)	9.348 (18) <sup>F</sup>			-4.3 (5.1)	-0.1 (5.1)	18.9 (7.1)	29.1 (7.2)	0.23	0.39		
1265	21:38:18.16	57:06:48.2 <sup>T</sup>	1459	169				10.35 <sup>h</sup>			9.289 (26)	9.052 (30)	8.993 (19) <sup>F</sup>	F0 <sup>h</sup>	0.34 <sup>h</sup>	8.2 (1.6)	-13.8 (1.6)	6.6 (0.5)	-10.2 (0.5)	-0.92	-0.6		
1266	21:38:26.39	57:06:19.6 <sup>T</sup>	1461	4461				14.7 <sup>j</sup>			10.641 (26)	9.619 (30)	9.294 (19) <sup>F</sup>			-5.8 (5.1)	-3.2 (5.1)	-24.4 (6.9)	15.9 (6.9)				
1267	21:38:32.64	57:06:05.9 <sup>T</sup>	1462	4462				12.1 <sup>j</sup>			11.594 (24)	11.310 (30)	11.231 (19) <sup>F</sup>			-6.4 (4)	-1.8 (4)	-7.3 (1.9)	-3.3 (2.1)	0.27	-0.12		
1268	21:38:21.91	57:07:22.8 <sup>T</sup>	1463	4463				13 <sup>j</sup>			11.682 (24)	11.229 (30)	11.162 (19) <sup>F</sup>			-13.8 (4)	-37.6 (4)	-15.1 (7)	-29.7 (7)	1.18	-3.22		
1269	21:38:24.29	57:08:26.3 <sup>T</sup>	1464	4464				13.3 <sup>j</sup>			11.963 (24)	11.737 (30)	11.602 (23) <sup>F</sup>			-1.4 (4)	-3.6 (4)	9.8 (7)	1.5 (7)	0	-0.04		
1270	21:38:16.36	57:10:11.6 <sup>T</sup>	1465	168				11.5 <sup>e</sup>			9.988 (24)	9.919 (29)	9.888 (18) <sup>F</sup>	B7 <sup>e</sup>	1 <sup>e</sup>	-2.4 (2)	-7.7 (1.9)	-2.1 (0.5)	-7.7 (0.8)	-0.04	-0.34		
1271	21:38:28.57	57:10:44.4 <sup>T</sup>	1466	4466				12.2 <sup>j</sup>			10.695 (29)	10.274 (31)	10.184 (18) <sup>F</sup>			-2.7 (2.7)	-6.9 (2.7)	-8.9 (3.2)	-1 (1.9)	0.59	0.23		
1272	21:38:33.02	57:09:56.6 <sup>T</sup>	1467	172				14.5 <sup>j</sup>			5.640 (34)	4.835 (47)	4.494 (0) <sup>T</sup>	K5 <sup>q</sup>		-2.8 (1.3)	-13 (1.4)	0.2 (1.1)	-12.7 (0.7)	0.21	-0.93		
1273	21:38:40.98	57:09:21.4 <sup>T</sup>	1468	4468				9.5 <sup>j</sup>			12.837 (27)	12.533 (33)	12.435 (30) <sup>F</sup>			-15.5 (4)	0.9 (4)	-15.4 (6.8)	-11.1 (6.8)	-0.1	-0.05		
1274	21:38:46.48	57:10:07.7 <sup>T</sup>	1469	4469				13.5 <sup>j</sup>			12.219 (23)	11.935 (29)	11.868 (23) <sup>F</sup>			-8.8 (4)	-3.7 (4)	-11 (6.9)	1.1 (6.9)	0.23	-0.09		
1275	21:38:43.16	57:09:20.9 <sup>T</sup>	1470	4470				13.6 <sup>j</sup>			9.177 (23)	8.062 (49)	7.715 (21) <sup>F</sup>			14.2 (13)	3 (13)			0.05	0.29		
1276	21:38:47.70	57:07:15.7 <sup>T</sup>	1471	4471				13.4 <sup>j</sup>			11.601 (26)	11.269 (31)	11.141 (23) <sup>F</sup>			-25 (4)	7.2 (4)	-80.6 (7.1)	28 (7.1)	-0.04	-0.22		
1277	21:38:52.45	57:07:54.7 <sup>T</sup>	1472	4472				13.5 <sup>j</sup>			11.981 (22)	11.666 (29)	11.539 (25) <sup>F</sup>			-2.4 (4)	2.5 (4)	0.5 (6.9)	9.5 (6.9)	-0.29	0.25		
1278	21:38:56.66	57:09:07.4 <sup>T</sup>	1473	4473				14.2 <sup>j</sup>			12.405 (34)	12.048 (45)	11.922 (35) <sup>F</sup>			6.2 (4)	5 (4)	-20 (6.9)	16.1 (6.9)	-2.42	1.15		
1279	21:39:43.29	56:54:19.7 <sup>T</sup>	1474	4474				13.1 <sup>j</sup>			10.507 (26)	9.762 (28)	9.574 (20) <sup>F</sup>			-0.1 (5.2)	0.2 (5.2)	-2.8 (7)	2.6 (7.1)	-0.13	0.2		
1280	21:39:47.99	56:54:49.5 <sup>T</sup>	1475	4475				13.7 <sup>j</sup>			10.854 (24)	10.156 (27)	10.005 (19) <sup>F</sup>			-2.9 (4.1)	-4 (4.1)	-8.5 (6.9)	-1.8 (6.9)	0.56	-0.18	new coordinates	
1281	21:39:32.64	56:55:12.9 <sup>T</sup>	1476	4476				13.2 <sup>j</sup>			10.433 (26)	9.685 (28)	9.525 (22) <sup>F</sup>			0.2 (5.2)	-4.1 (5.2)	-28.5 (7)	-2.9 (7)	0.12	-0.15		
1282	21:40:00.84	56:54:48.6 <sup>T</sup>	1477	4477				12.1 <sup>j</sup>			11.269 (26)	11.094 (28)	11.015 (22) <sup>F</sup>			-8.3 (2.7)	-4.3 (2.7)	-6.9 (0.9)	-5.4 (0.9)	0.46	-0.1		
1283	21:40:10.11	56:54:36.7 <sup>T</sup>	1478	4478				11.9 <sup>j</sup>			11.160 (24)	11.004 (30)	10.903 (20) <sup>F</sup>			-5.2 (4.1)	1 (4.1)	-4 (1.1)	-3.7 (1.3)	0.31	0.07		
1284	21:40:11.63	56:55:12.4 <sup>T</sup>	1479	4479				12.7 <sup>j</sup>			11.406 (24)	11.132 (27)	10.999 (18) <sup>F</sup>			-3.4 (4.1)	1.6 (4.1)	-2.1 (2.3)	-0.3 (1.9)	-0.31	0.66		
1285	21:40:06.84	56:55:34.8 <sup>T</sup>	1480	4480				13.1 <sup>j</sup>			11.579 (26)	11.224 (31)	11.102 (25) <sup>F</sup>			15.6 (4.1)	0.1 (4.1)	21.7 (7)	4 (7)	-1.23	-0.16		
1286	21:40:09.77	56:56:11.1 <sup>T</sup>	1481	4481				13.6 <sup>j</sup>			11.898 (24)	11.526 (28)	11.436 (23) <sup>F</sup>			-6.2 (4.1)	-1.2 (4.1)	-6.9 (6.9)	3 (7)	0.22	0.52		
1287	21:40:20.52	56:55:07.5 <sup>T</sup>	1482	4482				11.5 <sup>j</sup>			11.053 (26)	10.987 (32)	10.875 (18) <sup>F</sup>			-3.7 (1.7)	-9.6 (1.7)	-6.4 (1)	-3.8 (1.4)	0.68	0.34		
1288	21:39:22.82	56:56:48.4 <sup>T</sup>	1483	4483				12.7 <sup>j</sup>			14.850 (46)	9.856 (0)	9.238 (0) <sup>T</sup>			-2.6 (5.1)	-3.2 (5.1)	-13.1 (7.2)	5.3 (7.3)	0.47	0.1	2x[r] (faint)	
1289	21:39:22.15	56:56:48.7 <sup>T</sup>	1483	4483				12.7 <sup>j</sup>			8.299 (19)	7.265 (33)	6.880 (27) <sup>F</sup>			-2.6 (5.1)	-3.2 (5.1)	-13.1 (7.2)	5.3 (7.3)	0.47	0.1	2x[r]	
1290	21:39:34.95	56:57:17.1 <sup>T</sup>	1484	4484				12.7 <sup>j</sup>			10.511 (26)	9.880 (28)	9.698 (20) <sup>F</sup>			8.7 (5.2)	-4.9 (5.2)	5.6 (7.1)	1.1 (7.1)	-0.71	0		
1291	21:39:34.03	56:57:59.5 <sup>T</sup>	1485	4485				13.5 <sup>j</sup>			12.316 (29)	12.084 (32)	11.923 (26) <sup>F</sup>			4.7 (4.1)	-6.7 (4.1)	26.7 (7.3)	-39.3 (7.3)	0.02	0.09		
1292	21:39:08.71	56:59:27.9 <sup>T</sup>	1486	4486				13.3 <sup>j</sup>			12.192 (24)	11.992 (31)	11.892 (23) <sup>F</sup>			11.7 (4)	-3.7 (4)	23.4 (6.8)	0.1 (6.8)	-0.1	0.13		
1293	21:39:20.41	56:58:49.5 <sup>T</sup>	1487	4487				12.6 <sup>j</sup>			11.272 (35)	10.956 (43)	10.893 (34) <sup>F</sup>			5.5 (4)	17.2 (4)	0.7 (1.8)	-2.9 (2.4)	-0.37	0.05		
1294	21:39:30.68	56:59:10.5 <sup>T</sup>	1488	4488				14.3 <sup>j</sup>			11.829 (24)	11.414 (28)	10.926 (20) <sup>F</sup>			-6.2 (4.1)	0.5 (4.1)	-7.3 (6.8)	3.6 (6.8)	0.07	0.09		
1295	21:39:34.17	56:59:27.0 <sup>T</sup>	1489	4489				12.6 <sup>j</sup>			11.132 (24)	10.612 (30)	10.493 (19) <sup>F</sup>			32.7 (4.1)	-7.1 (4.1)	35.6 (7.1)	-1.4 (7.1)	-3.78	-0.47		
1296	21:39:10.02	57:00:04.8 <sup>T</sup>	1490	4490				14.2 <sup>j</sup>			15.288 (117)	14.711 (109)	14.383 (130) <sup>F</sup>					-57.7 (6.8)	-0.9 (6.9)	0.35	-0.65	2x[r] (faint)	
1297	21:39:09.38	57:00:05.3 <sup>T</sup>	1490	4490				14.2 <sup>j</sup>			11.177 (23)	10.480 (30)	10.222 (23) <sup>F</sup>										

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
	hh:mm:ss.ss	dd:mm:ss.s		DA	2004												PPMXL			UCAC3		MVA	
						mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1299	21:39:21.84	57:00:31.7 <sup>T</sup>	1492	4492				12.3 <sup>j</sup>				10.770 (26)	10.547 (28)	10.461 (25) <sup>F</sup>			2 (2.7)	-4.1 (2.7)	-1 (0.7)	-7.6 (0.8)	-1.05	-0.28	
1300	21:39:22.14	57:00:47.6 <sup>T</sup>	1493	4493				14 <sup>j</sup>				10.529 (23)	9.675 (28)	9.445 (23) <sup>F</sup>			-1.6 (5.1)	-3.5 (5.1)	3.3 (7)	5.7 (7)	-0.01	0.19	
1301	21:38:59.97	57:02:52.0 <sup>T</sup>	1494	4494				14.5 <sup>j</sup>				12.355 (23)	12.047 (28)	11.875 (19) <sup>F</sup>			-2.3 (4)	4 (4)	-4.2 (6.8)	12.6 (6.8)	-0.36	0.6	
1302	21:39:09.41	57:02:13.4 <sup>T</sup>	1495	4495				12.9 <sup>j</sup>				11.271 (23)	10.872 (26)	10.786 (20) <sup>F</sup>			-7.1 (4)	-3.9 (4)	-11.1 (7.2)	-0.9 (7.2)	0.38	-0.33	
1303	21:39:33.01	57:01:51.3 <sup>T</sup>	1496	4496				10.9 <sup>j</sup>				8.808 (41)	8.262 (29)	8.114 (21) <sup>F</sup>			5.4 (2.8)	-10.2 (2.8)	1.5 (1.2)	-8.7 (0.9)	-0.03	-0.49	
1304	21:39:38.37	57:02:10.2 <sup>T</sup>	1497	4497				13.5 <sup>j</sup>				10.794 (26)	10.095 (30)	9.844 (20) <sup>F</sup>			-2.3 (5.2)	-2.1 (5.2)	-13.2 (6.9)	-55.2 (7)	0.09	0.67	
1305	21:39:50.34	57:00:58.6 <sup>T</sup>	1498	4498				14.3 <sup>j</sup>				11.073 (24)	10.366 (30)	10.096 (20) <sup>F</sup>			-3.6 (4.1)	2.2 (4.1)	-9.1 (6.9)	15.3 (6.9)	-0.29	-0.21	
1306	21:39:54.41	57:00:43.5 <sup>T</sup>	1499	4499				13.2 <sup>j</sup>				10.338 (24)	9.580 (27)	9.401 (20) <sup>F</sup>			-1.6 (5.2)	-6.1 (5.2)	-8 (7.2)	-0.9 (7.2)	-0.1	-0.12	
1307	21:40:03.02	56:59:36.8 <sup>T</sup>	1500	4500				13.6 <sup>j</sup>				12.000 (38)	11.648 (38)	11.533 (0) <sup>T</sup>			8.5 (4.1)	1.9 (4.1)	26.2 (7)	4.4 (7)	-0.75	0.36	
1308	21:40:12.80	56:59:39.2 <sup>T</sup>	1501	4501				14.3 <sup>j</sup>				11.220 (26)	10.423 (28)	10.259 (20) <sup>F</sup>			-6.9 (4.1)	2 (4.1)	-6.3 (6.9)	7.7 (6.9)	-0.14	0.12	
1309	21:39:53.81	57:02:03.1 <sup>T</sup>	1502	4502				14 <sup>j</sup>				12.434 (27)	12.041 (27)	11.962 (22) <sup>F</sup>			-2 (4.1)	-8.8 (4.1)	-0.3 (6.9)	-10.1 (6.9)	0.64	-0.85	
1310	21:39:57.22	57:02:25.4 <sup>T</sup>	1503	4503				13.1 <sup>j</sup>				11.814 (32)	11.556 (43)	11.492 (22) <sup>F</sup>			-3.3 (5.9)	0.9 (5.9)			-1.36	0.67	
1311	21:39:57.99	57:02:21.3 <sup>T</sup>	1504	4504				13.2 <sup>j</sup>				11.858 (23)	11.674 (27)	11.528 (20) <sup>F</sup>							0.02	0.14	
1312	21:40:12.02	57:01:05.4 <sup>T</sup>	1505	4505				14 <sup>j</sup>				9.912 (26)	8.906 (28)	8.605 (20) <sup>T</sup>			-2.1 (5.1)	-3.7 (5.1)	45.2 (7.2)	-28.8 (7.2)	-0.36	0.13	
1313	21:40:10.16	57:01:39.8 <sup>T</sup>	1506	4506				11.9 <sup>j</sup>				10.722 (26)	10.455 (30)	10.307 (20) <sup>F</sup>			-5.8 (2.7)	17 (2.7)	-2.1 (1)	3 (2.5)	-0.21	0.79	
1314	21:39:04.10	57:04:04.2 <sup>T</sup>	1507	4507				12.2 <sup>j</sup>				11.239 (23)	11.074 (29)	11.000 (20) <sup>F</sup>			0.2 (4)	5.5 (4)	1.7 (0.8)	-0.7 (4.9)	-0.75	0.33	
1315	21:39:28.01	57:03:23.9 <sup>T</sup>	1508	4508				14.4 <sup>j</sup>				9.700 (22)	8.656 (26)	8.294 (26) <sup>F</sup>							0.12	0.07	
1316	21:39:28.12	57:03:32.9 <sup>T</sup>	1509	4509				13.4 <sup>j</sup>				11.403 (26)	10.917 (32)	10.873 (30) <sup>F</sup>			-13.2 (4)	-20.5 (4)			1.07	-2.72	
1317	21:39:37.94	57:04:03.2 <sup>T</sup>	1510	4510	13.91 <sup>1</sup>	13.42 <sup>1</sup>	12.56 <sup>1</sup>					10.387 (21)	10.070 (30)	9.921 (22) <sup>F</sup>			-4.1 (5.1)	-1.4 (5.1)	-3.9 (1.5)	-0.7 (2.1)	-0.01	0.26	
1318	21:40:04.98	57:03:20.8 <sup>T</sup>	1511	4511				14.3 <sup>j</sup>				12.709 (23)	12.394 (33)	12.311 (30) <sup>F</sup>			-3.9 (5.9)	-2.3 (5.9)	-8.5 (6.8)	3.9 (6.8)	0.25	0.27	
1319	21:38:57.31	57:05:19.2 <sup>T</sup>	1512	4512				14.4 <sup>j</sup>				12.736 (26)	12.453 (29)	12.462 (23) <sup>F</sup>			-1.5 (4)	-2.6 (4)	-5.5 (6.9)	4.3 (6.8)	-0.15	-0.05	
1320	21:39:02.46	57:05:02.6 <sup>T</sup>	1513	4513				14.2 <sup>j</sup>				12.560 (25)	12.169 (32)	12.097 (26) <sup>F</sup>			-11.9 (4)	-4.5 (4)	-24.7 (6.8)	-3 (6.8)	0.96	-0.55	
1321	21:39:10.64	57:04:49.9 <sup>T</sup>	1514	4514				14.2 <sup>j</sup>				11.002 (25)	10.284 (26)	10.078 (22) <sup>F</sup>			-24.3 (18)	15.5 (18)	-31 (7.2)	54.4 (7.2)	-0.31	0.27	
1322	21:39:14.19	57:04:41.6 <sup>T</sup>	1515	4515				14.5 <sup>j</sup>				12.720 (27)	12.437 (32)	12.294 (28) <sup>F</sup>							-0.44	0.31	near 1322
1323	21:39:14.15	57:04:46.1 <sup>T</sup>	1516	4516				14.2 <sup>j</sup>				12.348 (52)	11.990 (61)	11.871 (0) <sup>T</sup>			-6.2 (4)	54.5 (4)			0.25	-0.26	near 1321
1324	21:39:18.52	57:05:40.1 <sup>T</sup>	1517	4517				13.4 <sup>j</sup>				12.056 (22)	11.717 (26)	11.610 (22) <sup>F</sup>			-6.4 (4)	-3.9 (4)	-15.5 (6.9)	-3.2 (6.9)	0.01	-0.21	
1325	21:38:53.70	57:06:28.8 <sup>T</sup>	1518	4518				14.4 <sup>j</sup>				12.530 (57)	12.211 (41)	12.083 (0) <sup>T</sup>			-16.4 (4)	20.8 (4)	-69.5 (7.2)	69.7 (7.2)	-0.36	0.05	2x[r]
1326	21:38:54.21	57:06:27.5 <sup>T</sup>	1518	4518				14.4 <sup>j</sup>				12.949 (31)	12.158 (50)	11.946 (29) <sup>F</sup>							-0.36	0.05	2x[r]
1327	21:38:59.34	57:06:31.1 <sup>T</sup>	1519	4519				14.6 <sup>j</sup>				12.776 (0)	12.606 (61)	12.411 (0) <sup>T</sup>			5.2 (4)	7.1 (4)	21.9 (6.8)	37.1 (6.8)	0.11	0.06	
1328	21:39:16.71	57:07:09.4 <sup>T</sup>	1520	4520				13.1 <sup>j</sup>				10.457 (22)	9.746 (29)	9.562 (22) <sup>F</sup>			-0.6 (5.1)	-4.3 (5.1)	67.6 (7.3)	-12 (7.3)	0.04	-0.31	
1329	21:39:11.98	57:07:28.1 <sup>T</sup>	1521	4521				13.9 <sup>j</sup>				12.278 (25)	11.886 (28)	11.771 (26) <sup>F</sup>			-15.7 (4)	-4.1 (4)	-13.5 (6.8)	-0.6 (6.8)	0.93	-0.4	
1330	21:40:00.10	57:05:26.9 <sup>T</sup>	1522	4522				14.5 <sup>j</sup>				11.197 (21)	10.439 (27)	10.274 (20) <sup>F</sup>			-6.3 (4.1)	-7.7 (4.1)	-2.8 (6.9)	1.1 (7)	0.43	-0.16	
1331	21:40:05.08	57:06:27.1 <sup>T</sup>	1523	4523				14.4 <sup>j</sup>				10.275 (23)	9.252 (27)	8.983 (20) <sup>F</sup>			-4.2 (5.2)	-1.8 (5.2)	9.9 (7.1)	33.3 (7.2)	-0.13	0.3	
1332	21:39:56.32	57:07:16.1 <sup>T</sup>	1524	4524				13.3 <sup>j</sup>				9.773 (21)	8.998 (69)	8.578 (20) <sup>F</sup>			-11.3 (5.2)	6.9 (5.2)	-59 (7.4)	51.9 (7.5)	-0.19	0.44	2x[r]
1333	21:39:56.77	57:07:13.0 <sup>T</sup>	1524	4524				13.3 <sup>j</sup>				13.796 (113)	10.597 (0)	10.092 (0) <sup>T</sup>							-0.19	0.44	2x[r] (faint)
1334	21:39:49.55	57:07:39.3 <sup>T</sup>	1525	4525				14.5 <sup>j</sup>				12.625 (21)	12.353 (28)	12.207 (26) <sup>F</sup>			10.5 (4.1)	2.3 (4.1)	12.4 (6.9)	6.9 (6.8)	-1.04	0.39	
1335	21:39:21.44	57:08:30.5 <sup>T</sup>	1526	4526				14.6 <sup>j</sup>				12.812 (25)	12.514 (32)	12.400 (28) <sup>F</sup>			-6.9 (4)	0.7 (4)	-1.2 (6.8)	-5.9 (6.8)	0.65	-0.02	
1336	21:39:06.86	57:09:24.9 <sup>j</sup>	1527	4527				14.6 <sup>j</sup>															no star
1337	21:39:02.80	57:10:08.7 <sup>T</sup>	1528	4528				14.8 <sup>j</sup>				10.345 (23)	9.272 (29)	8.975 (23) <sup>F</sup>			-14 (5.1)	6.8 (5.1)	-56.3 (6.9)	59.7 (6.9)			
1338	21:39:18.25	57:09:45.4 <sup>T</sup>	1529	176				10.5 <sup>j</sup>				9.536 (22)	9.346 (26)	9.332 (23) <sup>F</sup>	F0 <sup>q</sup>		-0.8 (1.6)	-14.4 (1.6)	4.1 (0.9)	-12.7 (0.6)	-0.53	-0.95	
1339	21:39:33.90	57:08:45.5 <sup>T</sup>	1530	4530				14.3 <sup>j</sup>				13.124 (23)	12.992 (30)	12.888 (25) <sup>F</sup>			-1.6 (4.1)	-0.3 (4.1)	-0.4 (6.8)	6.1 (6.7)	0.16	0.17	
1340	21:39:27.23	57:09:37.6 <sup>T</sup>	1531	4531				13.3 <sup>j</sup>				11.851 (22)	11.528 (29)	11.463 (23) <sup>F</sup>			8.7 (4)	3.6 (4)	14.1 (6.9)	7.6 (6.9)	-1.2	0.77	
1341	21:39:23.17	57:10:13.0 <sup>T</sup>	1532	4532				12.5 <sup>j</sup>				11.243 (23)	10.818 (29)	10.744 (23) <sup>F</sup>			-18.3 (4)	11 (4)	-18.2 (0.5)	2.8 (4.1)	1.3	0.76	
1342	21:39:50.14	57:08:24.1 <sup>T</sup>	1533	4533				13.2 <sup>j</sup>				11.915 (23)	11.611 (28)	11.554 (23) <sup>F</sup>			2.5 (4.1)	-1 (4.1)	-1.8 (7)	3.8 (7)	-0.37	-0.65	
1343	21:39:47.93	57:09:52.3 <sup>T</sup>	1534	4534				13.5 <sup>j</sup>				12.102 (23)	11.822 (31)	11.725 (23) <sup>F</sup>			-1.7 (4.1)	4.7 (4.1)	-4.7 (7)	14.2 (7)	0.12	0.02	
1344	21:39:46.62	57:10:33.7 <sup>T</sup>	1535	179				11.6 <sup>j</sup>				10.880 (23)	10.778 (30)	10.690 (22) <sup>F</sup>	A0 <sup>q</sup>		-6 (1.7)	-1.5 (1.7)	-5.3 (1.1)	-3.6 (1.1)	0.36	-0.05	
1345	21:40:01.51	57:09:28.9 <sup>j</sup>	1536	4536				14.1 <sup>j</sup>															no star
1346	21:39:55.97	57:10:50.4 <sup>T</sup>	1537	181				11.3 <sup>j</sup>				10.365 (21)	10.118 (27)	10.065 (20) <sup>F</sup>	G2 <sup>q</sup>		16.1 (1.7)	25.5 (1.7)	12.6 (0.9)	26.1 (0.6)	-1.64	3.19	
1347	21:39:49.65	57:11:11.5 <sup>T</sup>	1538	4538				13.5 <sup>j</sup>				12.097 (21)	11.837 (30)	11.703 (22) <sup>F</sup>			10.7 (4.1)	5.9 (4.1)	11.2 (6.9)	18.1 (6.9)	-1.46	0.92	
1348	21:40:19.25	57:10:59.5 <sup>T</sup>	1539	182				12 <sup>j</sup>				9.754 (26)	9.183 (31)	8.982 (19) <sup>F</sup>	gK2 <sup>q</sup>		-11.1 (5.1)	-8.3 (5.1)	-3.2 (7.8)	-1.5 (7.8)	0.32	-0.29	
1349	21:40:33.27	57:05:40.4 <sup>T</sup>	1540	4540				12 <sup>j</sup>				9.662 (26)	9.040 (31)	8.836 (24) <sup>F</sup>			-42.6 (8.2)	38 (8.2)	5.6 (1)	17.3 (2.6)	-1.09	2.18	
1350	21:40:36.55	57:01:34.9 <sup>T</sup>	1541	4541				13.8 <sup>j</sup>				11.074 (27)	10.429 (35)	10.190 (23) <sup>F</sup>			-28.5 (12.7)	-16.6 (12.7)	-28.4 (7.2)	-56.4 (7.2)	-0.1	-0.23	
1351	21:40:28.94	57:12:42.5 <sup>T</sup>	1542																				

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-DA	SHB-2004	U	B	V	R	I	J	H	K	SpT Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
	hh:mm:ss.ss	dd:mm:ss.s		DA	2004			mag	mag	mag	mag	mag	mag		mag	PPMXL	mas/yr	mas/yr	UCAC3	mas/yr	MVA	
1352	21:40:29.59	57:13:09.1 <sup>F</sup>	1543	4543				13.8 <sup>j</sup>			12.299 (29)	12.029 (33)	11.911 (24) <sup>F</sup>			-23.8 (5.4)	-6.4 (5.4)			0.62	-0.21	
1353	21:40:30.34	57:13:26.3 <sup>F</sup>	1544	185				11.5 <sup>f</sup>			9.821 (24)	9.735 (31)	9.625 (23) <sup>F</sup>	A1 <sup>e</sup>	1.5 <sup>e</sup>	3.6 (1.7)	-2.7 (1.6)	6.2 (0.5)	1.4 (0.6)	-0.98	0.78	
1354	21:40:29.54	57:17:21.6 <sup>F</sup>	1545	4545							11.393 (26)	10.990 (30)	10.907 (21) <sup>F</sup>			24.2 (5.4)	24.4 (5.4)	22.1 (7.4)	31.4 (7.4)	-3.53	2.26	
1355	21:40:46.92	57:00:54.0 <sup>F</sup>	1546	4546							10.896 (24)	10.299 (31)	10.107 (21) <sup>F</sup>			-6.9 (4.1)	-1.7 (4.1)	-4.9 (7)	5.7 (7)	0.07	-0.07	
1356	21:40:54.57	57:00:45.1 <sup>F</sup>	1547	4547							11.024 (26)	10.718 (31)	10.642 (23) <sup>F</sup>			-16.8 (5.8)	-20.5 (5.8)	-2.1 (1.2)	-10.2 (0.6)	-0.09	-1.11	
1357	21:40:48.14	57:04:30.9 <sup>F</sup>	1549	4549							12.611 (26)	12.453 (31)	12.329 (28) <sup>F</sup>			-5.6 (4.1)	0.2 (4.1)	-3.7 (6.9)	7.7 (6.9)	-0.19	0.26	
1358	21:40:48.43	57:04:56.0 <sup>F</sup>	1550	4550							9.716 (24)	9.077 (30)	8.819 (19) <sup>F</sup>			-7.8 (5.1)	-2.9 (5.1)	-0.6 (7.4)	2.1 (7.4)	0.01	-0.03	
1359	21:41:00.06	57:04:00.4 <sup>F</sup>	1551	4551							8.788 (18)	8.368 (29)	8.071 (21) <sup>F</sup>			-7.2 (2)	-4.8 (2)	-5.1 (0.5)	-3.5 (0.8)	0.29	0.04	
1360	21:41:00.48	57:03:51.2 <sup>F</sup>	1552	4552							12.645 (34)	12.300 (36)	12.192 (35) <sup>F</sup>							0.32	0.19	
1361	21:41:05.67	57:02:20.4 <sup>F</sup>	1553	4553							12.745 (39)	12.434 (40)	12.332 (37) <sup>F</sup>			-21.7 (4.1)	1.9 (4.1)	-41.1 (6.8)	23.9 (6.8)	0.1	0.09	
1362	21:41:18.15	57:02:07.1 <sup>F</sup>	1554	4554							12.789 (24)	12.487 (27)	12.441 (26) <sup>F</sup>			-3.9 (4.1)	-2 (4.1)	-3.3 (6.8)	6.1 (6.8)	-0.06	-0.04	
1363	21:41:21.11	57:03:25.1 <sup>F</sup>	1556	4556							5.477 (21)	4.741 (0)	4.277 (33) <sup>F</sup>			-11.5 (2)	-3.9 (2)	-7.6 (1.5)	-6.1 (0.8)	0.81	-31	
1364	21:41:29.90	57:02:51.5 <sup>F</sup>	1557	4557							10.867 (24)	10.673 (28)	10.676 (23) <sup>F</sup>			-15 (2)	-1 (2)	-9.4 (0.6)	-6.7 (1.6)	0.7	-0.29	
1365	21:41:02.67	57:05:01.7 <sup>F</sup>	1558	4558							12.075 (24)	11.866 (32)	11.749 (21) <sup>F</sup>			-6.1 (4.1)	-4.3 (4.1)	-3.1 (6.9)	6.4 (6.9)	0.47	-0.02	
1366	21:40:49.42	57:06:00.8 <sup>F</sup>	1559	4559							12.689 (27)	12.521 (36)	12.424 (30) <sup>F</sup>			-10.9 (8.6)	-0.4 (8.6)	-21.5 (7)	18.7 (7)	-0.01	035	
1367	21:41:22.98	57:06:32.1 <sup>F</sup>	1560	4560							12.524 (29)	12.019 (36)	11.846 (28) <sup>F</sup>			-5.7 (4.1)	-0.6 (4.1)	-7.2 (6.8)	15.8 (6.8)	-0.05	0.32	
1368	21:40:56.13	57:08:17.0 <sup>F</sup>	1561	4561							12.775 (27)	12.516 (33)	12.361 (26) <sup>F</sup>			-3.2 (4.1)	-10.6 (4.1)	19.8 (6.7)	-35 (6.8)	-0.64	0.01	
1369	21:40:48.45	57:09:05.3 <sup>F</sup>	1562	4562							12.913 (24)	12.642 (32)	12.516 (23) <sup>F</sup>			-6.5 (4.1)	-3.9 (4.1)	-4.2 (6.8)	3.5 (6.8)	0.15	-0.56	
1370	21:41:01.56	57:08:18.7 <sup>F</sup>	1563	188							6.923 (23)	6.390 (38)	6.333 (17) <sup>F</sup>	G8 <sup>q</sup>		17.5 (1.3)	33.8 (1.3)	19.1 (0.6)	33.6 (0.6)	-2.3	3.97	
1371	21:41:17.70	57:07:24.8 <sup>F</sup>	1564	4564							11.961 (26)	11.826 (32)	11.728 (23) <sup>F</sup>			-4.4 (4.1)	1.1 (4.1)	-0.1 (7.3)	6.6 (7.2)	-0.14	-0.14	
1372	21:41:01.31	57:09:23.2 <sup>F</sup>	1565	4565							10.444 (24)	9.669 (29)	9.416 (21) <sup>F</sup>			-6.3 (5.1)	-2.9 (5.1)	-6.8 (7.1)	6.9 (7.1)	0.16	0.03	
1373	21:41:21.93	57:08:10.1 <sup>F</sup>	1566	4566							10.569 (26)	9.989 (32)	9.786 (23) <sup>F</sup>			-17.4 (5.1)	-9.6 (5.1)	-47.8 (7.4)	9.6 (7.4)	1.18	-0.58	
1374	21:41:44.08	57:05:39.0 <sup>F</sup>	1567	4567							10.696 (26)	10.568 (31)	10.433 (18) <sup>F</sup>			-3.8 (2)	-6.3 (2)	-3.7 (0.8)	-5.6 (0.7)	0.25	-0.06	
1375	21:41:47.33	57:04:40.6 <sup>F</sup>	1568	4568							10.834 (26)	10.070 (27)	9.840 (21) <sup>F</sup>			5.2 (5.1)	2.2 (5.1)	10.6 (7)	15.3 (7)	-0.63	0.28	
1376	21:41:48.33	57:02:47.2 <sup>F</sup>	1569	4569							12.367 (29)	12.000 (30)	11.900 (23) <sup>F</sup>			-4.2 (4.1)	-12.9 (4.1)	-3.5 (6.9)	-19.3 (6.9)	-0.49	-0.14	
1377	21:41:47.71	57:07:26.3 <sup>F</sup>	1571	4571							12.754 (27)	12.596 (35)	12.528 (26) <sup>F</sup>			-5.6 (4.1)	0.4 (4.1)	-0.3 (6.8)	11.1 (6.9)	-0.15	0.07	
1378	21:41:44.18	57:08:09.4 <sup>F</sup>	1572	4572							12.255 (24)	12.142 (35)	12.001 (24) <sup>F</sup>			2.9 (4.1)	-3.4 (4.1)	39.9 (7.1)	-3 (7.1)	0.26	0.05	
1379	21:41:42.04	57:08:41.6 <sup>F</sup>	1573	4573							11.327 (36)	10.936 (44)	10.800 (36) <sup>F</sup>			-23.1 (4.1)	-0.7 (4.1)	-28.9 (7.6)	59.9 (7.6)	2.12	-1.62	
1380	21:41:39.26	57:09:44.2 <sup>F</sup>	1574	4574							12.864 (27)	12.628 (36)	12.541 (24) <sup>F</sup>			-4.8 (4.1)	1.7 (4.1)	3.4 (6.8)	4.2 (6.9)	-0.18	-0.04	
1381	21:40:46.56	57:10:48.5 <sup>F</sup>	1575	4575							12.512 (31)	12.234 (38)	12.122 (30) <sup>F</sup>			17.2 (4.1)	0.3 (4.1)	47.9 (6.9)	33.8 (6.9)	-0.3	0.13	
1382	21:41:41.06	57:10:44.0 <sup>F</sup>	1576	4576							12.649 (24)	12.515 (33)	12.333 (24) <sup>F</sup>			-2.4 (4.1)	2.5 (4.1)	2.9 (6.9)	9.3 (6.9)	-0.15	0.27	
1383	21:41:33.06	57:11:45.3 <sup>F</sup>	1577	4577							10.629 (26)	9.923 (31)	9.619 (21) <sup>F</sup>			3.9 (5.1)	2.7 (5.1)	3.9 (7)	16 (7.1)	-0.67	0.56	
1384	21:41:39.17	57:11:33.3 <sup>F</sup>	1578	4578							11.456 (26)	11.219 (31)	11.098 (23) <sup>F</sup>			0.7 (4.1)	-1.8 (4.1)	8.6 (7.2)	5.5 (7.2)	-0.53	0.35	
1385	21:42:10.19	57:03:20.3 <sup>F</sup>	1579	4579							9.979 (24)	9.666 (31)	9.609 (22) <sup>F</sup>							1.86	-3.12	
1386	21:42:03.86	57:07:59.8 <sup>F</sup>	1580	4580							10.674 (26)	10.340 (32)	10.174 (22) <sup>F</sup>			6.6 (6.3)	-14.3 (6.3)	-19.6 (7.7)	-1.5 (7.7)	0.72	-0.15	
1387	21:42:12.63	57:08:03.2 <sup>F</sup>	1581	4581							12.238 (29)	11.852 (32)	11.694 (23) <sup>F</sup>			-2 (4.1)	-4.5 (4.1)	4.7 (7)	-17.5 (7)	-0.21	-0.06	
1388	21:42:21.73	57:05:07.9 <sup>F</sup>	1582	201							10.187 (26)	10.112 (32)	10.054 (22) <sup>F</sup>	B8 <sup>q</sup>		-1.3 (1.3)	-6.9 (1.5)	-2.7 (0.9)	-5 (0.9)	0.6	0	
1389	21:42:45.35	57:01:12.7 <sup>F</sup>	1583	4583							11.526 (27)	10.944 (30)	10.889 (21) <sup>F</sup>			-69 (4.1)	-9.5 (4.1)	-61 (7.1)	-0.1 (7.1)			
1390	21:42:46.76	57:01:47.4 <sup>F</sup>	1584	204	9.06 <sup>l</sup>	9.62 <sup>l</sup>	9.41 <sup>l</sup>				10.206 (26)	9.983 (32)	9.893 (19) <sup>F</sup>	B2 <sup>p</sup> V <sup>p</sup>		11.3 (2)	3.5 (2)	8.4 (1.1)	4.1 (1.5)	-0.78	1.11	[m] HIP# wrong
1391	21:42:46.69	57:01:59.3 <sup>F</sup>	1585	4585							10.779 (27)	10.524 (32)	10.414 (19) <sup>F</sup>			10.9 (12.8)	28.9 (12.8)	5.4 (1.6)	4.7 (1.4)	-1.01	0.96	
1392	21:42:35.91	57:03:34.9 <sup>F</sup>	1586	4586							10.936 (26)	10.171 (31)	9.962 (19) <sup>F</sup>			-8.4 (5.1)	-7.1 (5.1)	-4.3 (7)	4.5 (7)	0.65	-0.17	
1393	21:42:21.88	57:05:27.5 <sup>F</sup>	1587	4587							12.157 (24)	11.871 (33)	11.667 (25) <sup>F</sup>			-2.6 (4.1)	-1.3 (4.1)	7.7 (6.7)	1.4 (6.7)	-0.35	0.17	
1394	21:42:36.29	57:05:13.7 <sup>F</sup>	1588	4588							11.341 (26)	10.641 (31)	10.418 (22) <sup>F</sup>			-4.9 (4.1)	-8.2 (4.1)	1.1 (6.9)	5.1 (6.9)	0.29	-0.53	
1395	21:42:20.12	57:05:59.0 <sup>F</sup>	1589	199							10.626 (26)	10.452 (31)	10.324 (22) <sup>F</sup>	A5 <sup>q</sup>		-1.4 (2.7)	1 (2.7)	-1.1 (0.7)	0.1 (1.2)	-0.09	0.43	
1396	21:42:23.80	57:08:56.8 <sup>F</sup>	1590	4590							12.583 (26)	12.376 (37)	12.228 (26) <sup>F</sup>			-6.8 (4.1)	-3.9 (4.1)	-1.2 (6.8)	6.5 (6.8)	0.45	-0.58	
1397	21:42:19.89	57:09:27.6 <sup>F</sup>	1591	4591							11.638 (26)	11.443 (31)	11.328 (23) <sup>F</sup>			-4.2 (4.1)	2.3 (4.1)	-2.4 (0.6)	-0.1 (3.5)	-0.19	0.07	
1398	21:42:12.89	57:10:18.1 <sup>F</sup>	1592	4592							12.342 (26)	11.978 (30)	11.857 (22) <sup>F</sup>			6.2 (4.1)	-0.7 (4.1)	10.5 (6.9)	9.4 (6.9)	-1.18	-0.03	
1399	21:42:00.00	57:11:01.3 <sup>F</sup>	1593	4593							12.996 (24)	12.749 (29)	12.624 (26) <sup>F</sup>			-7.1 (4.1)	-6.5 (4.1)	-2.8 (7)	5.2 (7)			
1400	21:42:08.07	57:11:21.3 <sup>F</sup>	1594	4594							13.067 (27)	12.731 (33)	12.573 (26) <sup>F</sup>			-10 (4.1)	-4.4 (4.1)	-2.2 (7)	-2 (7)			
1401	21:42:20.11	57:10:14.4 <sup>F</sup>	1595	4595							12.400 (31)	12.028 (35)	11.866 (26) <sup>F</sup>			-6.4 (4.1)	-20.1 (4.1)	2.7 (7)	-51 (7)	0.94	-0.77	
1402	21:42:20.12	57:10:32.2 <sup>F</sup>	1596	4596							9.117 (26)	7.923 (36)	7.529 (20) <sup>F</sup>			-2.5 (5.1)	-4.6 (5.1)	9.7 (7.1)	15.5 (7.1)	-0.16	0.15	
1403	21:42:51.81	57:09:17.9 <sup>F</sup>	1597	4597							11.829 (27)	11.476 (32)	11.404 (21) <sup>F</sup>			-1 (4.1)	-5 (4.1)	7.8 (7)	2.7 (7)	0	-0.25	
1404	21:42:48.26	57:09:47.2 <sup>F</sup>	1598	4598							10.652 (27)	9.874 (29)	9.692 (21) <sup>F</sup>			-6.7 (5.1)	-2 (5.1)	3.1 (7)	13.6 (7)	0.31	-0.34	

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
		J2000		DA	2004												PPMXL		UCAC3		MVA [j]		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1405	21:42:48.38	57:10:11.4 <sup>T</sup>	1599	4599		14.2 <sup>J</sup>					11.057 (29)	10.399 (31)	10.208 (19) <sup>T</sup>				-6.7 (4.1)	-5.5 (4.1)	-8.2 (6.9)	1.6 (6.9)	0.01	-0.11	
1406	21:42:47.86	57:10:38.6 <sup>T</sup>	1600	4600		13.1 <sup>J</sup>					10.579 (27)	9.895 (31)	9.758 (21) <sup>T</sup>				3.7 (5.6)	-13.2 (5.1)	-52.5 (6.9)	18 (7)			
1407	21:37:08.44	57:22:48.4 <sup>T</sup>			11-1067				18.07 <sup>e</sup>	16.92	15.7 <sup>e</sup>	14.402 (35)	13.614 (37)	13.475 (48) <sup>T</sup>	M0.5 <sup>c</sup>	1.2 <sup>e</sup>	-7.1 (4.1)	5 (4.1)					
1408	21:37:30.61	57:23:17.4 <sup>T</sup>		4615	11-1180				18.86 <sup>f</sup>	17.7	16.52 <sup>f</sup>	14.900 (51)	14.078 (55)	13.796 (67) <sup>T</sup>	G-K <sup>f</sup>		-8.8 (4.1)	-16.7 (4.1)					
1409	21:37:44.87	57:24:13.5 <sup>T</sup>			11-1384				17.13 <sup>e</sup>	16.03	14.9 <sup>e</sup>	13.351 (30)	12.593 (34)	12.387 (29) <sup>T</sup>	K6.5 <sup>c</sup>	1.7 <sup>e</sup>	-4.2 (4.1)	-14.6 (4.1)	4.8 (8.7)	-20.7 (7.4)			
1410	21:37:01.40	57:24:45.9 <sup>T</sup>			11-1499				17.23 <sup>e</sup>	16.19	14.85 <sup>e</sup>	13.305 (40)	12.459 (55)	12.206 (55) <sup>T</sup>	M1.5 <sup>c</sup>	0.6 <sup>e</sup>	-14.2 (4.1)	-16.9 (4.1)					
1411	21:37:11.84	57:24:48.7 <sup>T</sup>			11-1513				17.17 <sup>e</sup>	15.98	14.76 <sup>e</sup>	13.162 (29)	12.348 (30)	12.145 (28) <sup>T</sup>	K7.5 <sup>c</sup>	1.8 <sup>e</sup>	4.1 (4.1)	-2.2 (4.1)	-3 (9.7)	-12.4 (8.5)			
1412	21:37:00.89	57:25:22.4 <sup>T</sup>			11-1659				17.24 <sup>e</sup>	16.16	15.12 <sup>e</sup>	13.611 (42)	12.844 (44)	12.656 (39) <sup>T</sup>	K5 <sup>c</sup>	1.9 <sup>e</sup>	6.4 (4.1)	-1.4 (4.1)					
1413	21:37:41.14	57:25:40.6 <sup>T</sup>		4618	11-1721				17.5 <sup>f</sup>	16.35	15.22 <sup>f</sup>	13.446 (29)	12.572 (31)	12.310 (31) <sup>T</sup>	K5 <sup>f</sup>	1.98 <sup>f</sup>	-6.3 (4.1)	-2.4 (4.1)					
1414	21:37:34.20	57:26:15.4 <sup>T</sup>		4616	11-1864				17.55 <sup>e</sup>	16.47	15.44 <sup>e</sup>	14.065 (0)	13.686 (70)	13.198 (0) <sup>T</sup>	G-K <sup>c</sup>	1.7 <sup>e</sup>	-6.5 (4.1)	7 (4.1)					SB1 <sup>c</sup> , <i>JHK</i> in [f] different
1415	21:37:02.55	57:26:14.5 <sup>T</sup>			11-1871				18.15 <sup>e</sup>	17.08	15.68 <sup>e</sup>	14.074 (46)	13.331 (44)	13.129 (45) <sup>T</sup>	M2 <sup>c</sup>	0.8 <sup>e</sup>	52.7 (5.5)	-14.9 (5.5)					
1416	21:37:15.92	57:26:59.2 <sup>T</sup>		4610	11-2031	18.08 <sup>f</sup>			15.48 <sup>e</sup>	14.58	13.69 <sup>e</sup>	12.499 (25)	11.534 (28)	10.856 (20) <sup>T</sup>	K2 <sup>c</sup>	1.7 <sup>e</sup>	-0.8 (4.1)	-4.3 (4.1)	-7.3 (7.1)	4.9 (7)			<i>JHK</i> in [f] slightly different
1417	21:37:07.03	57:27:00.8 <sup>T</sup>		4606	11-2037	18.12 <sup>f</sup>			16.03 <sup>e</sup>	15.08	14.12 <sup>e</sup>	12.649 (26)	11.752 (27)	11.258 (20) <sup>T</sup>	K4.5 <sup>c</sup>	1.6 <sup>e</sup>	-3.5 (4.1)	-3.3 (4.1)	-0.5 (8.6)	-0.1 (8.3)			
1418	21:37:12.16	57:27:26.2 <sup>T</sup>		4609	11-2131	19.82 <sup>f</sup>			17.72 <sup>e</sup>	16.43	15.25 <sup>e</sup>	13.393 (27)	12.214 (31)	11.523 (25) <sup>T</sup>	K6.5 <sup>c</sup>	2.3 <sup>e</sup>	-3.2 (4.1)	-0.7 (4.1)	2.6 (12.5)	-11.8 (12.7)			
1419	21:36:57.67	57:27:33.1 <sup>T</sup>		4602	11-2146	18.16 <sup>f</sup>			16.92 <sup>e</sup>	15.69	14.41 <sup>e</sup>	12.442 (0)	11.327 (32)	10.640 (25) <sup>T</sup>	K6 <sup>c</sup>	2.6 <sup>e</sup>	-1 (4.1)	-5.7 (4.1)	8.2 (7.5)	21.2 (7.4)			
1420	21:37:45.21	57:28:17.4 <sup>T</sup>		4620	11-2318				18 <sup>e</sup>	16.86	15.66 <sup>e</sup>	14.176 (35)	13.248 (36)	13.005 (37) <sup>T</sup>	M0.0 <sup>e</sup>	1.1 <sup>e</sup>	1.6 (4.1)	-8.8 (4.1)					
1421	21:37:01.92	57:28:22.3 <sup>T</sup>		4604	11-2322	18.69 <sup>f</sup>			16.69 <sup>e</sup>	15.59	14.39 <sup>e</sup>	12.854 (29)	11.969 (33)	11.560 (25) <sup>T</sup>	M1 <sup>c</sup>	0.9 <sup>e</sup>	-4.3 (3.9)	6 (3.9)					
1422	21:37:14.50	57:28:40.9 <sup>T</sup>			11-2397				18.54 <sup>e</sup>	17.48	16.34 <sup>e</sup>	14.511 (39)	13.559 (41)	12.954 (34) <sup>T</sup>	K7.0 <sup>e</sup>	1.2 <sup>e</sup>	-6 (3.9)	-12.2 (3.9)					
1423	21:37:14.98	57:29:12.3 <sup>T</sup>			11-2487				17.61 <sup>e</sup>	16.48	15.27 <sup>e</sup>	13.726 (32)	12.946 (33)	12.734 (35) <sup>T</sup>	K7 <sup>c</sup>	1.9 <sup>e</sup>	-7.3 (3.9)	1.3 (3.9)					
1424	21:37:28.05	57:29:15.6 <sup>T</sup>			11-2503				18.07 <sup>e</sup>	16.69	15.22 <sup>e</sup>	13.440 (27)	12.556 (33)	12.329 (29) <sup>T</sup>	M0.0 <sup>e</sup>	2.3 <sup>e</sup>	-12.3 (3.8)	-9.1 (3.8)					
1425	21:37:45.14	57:19:42.4 <sup>T</sup>		4619	11-383				17.61 <sup>e</sup>	16.49	15.35 <sup>e</sup>	13.903 (26)	12.971 (33)	12.582 (26) <sup>T</sup>	K5 <sup>c</sup>	0.8 <sup>e</sup>	-7.2 (4.1)	-2.5 (4.1)					
1426	21:37:28.29	57:20:32.6 <sup>T</sup>		4612	11-581	19.96 <sup>f</sup>			16.73 <sup>e</sup>	15.63	14.6 <sup>e</sup>	13.095 (44)	12.332 (45)	12.104 (39) <sup>T</sup>	G <sup>e</sup>	1.5 <sup>e</sup>	-23.1 (4.1)	-35.5 (4.1)					
1427	21:38:17.50	57:22:30.8 <sup>T</sup>			12-1009				16.17 <sup>e</sup>	15.34	14.39 <sup>e</sup>	13.119 (45)	12.361 (43)	12.130 (37) <sup>T</sup>	K5.5 <sup>c</sup>	0.9 <sup>e</sup>	29.8 (5.4)	-13.9 (5.4)					
1428	21:38:50.29	57:22:28.3 <sup>T</sup>			12-1010				18.19 <sup>e</sup>	17.19	15.95 <sup>e</sup>	14.372 (40)	13.507 (0)	13.076 (0) <sup>T</sup>	M2 <sup>c</sup>	0.3 <sup>e</sup>	-1.3 (4)	-20.3 (4)					
1429	21:38:15.09	57:21:55.5 <sup>T</sup>			12-1017				16.83 <sup>e</sup>	15.82	14.84 <sup>e</sup>	13.283 (0)	12.654 (0)	12.554 (28) <sup>T</sup>	K5.5 <sup>c</sup>	1.4 <sup>e</sup>	-19.3 (5.4)	-0.9 (5.4)					
1430	21:39:03.19	57:22:31.8 <sup>T</sup>		4641	12-1027				18.58 <sup>e</sup>	17.51	15.95 <sup>e</sup>	14.249 (41)	13.561 (48)	13.308 (40) <sup>T</sup>	M0 <sup>c</sup>	1.3 <sup>e</sup>	-6.1 (5.4)	-9.9 (5.4)					
1431	21:38:05.94	57:22:43.9 <sup>T</sup>		4627	12-1081				18.35 <sup>e</sup>	17.15	15.95 <sup>e</sup>	14.354 (35)	13.533 (33)	13.271 (31) <sup>T</sup>	M0.5 <sup>c</sup>	1.3 <sup>e</sup>	-4.5 (4)	-5.8 (4)					
1432	21:37:57.62	57:22:47.7 <sup>T</sup>		4623	12-1091	18.61 <sup>f</sup>			16.59 <sup>e</sup>	15.65	14.73 <sup>e</sup>	13.182 (24)	12.215 (30)	11.673 (20) <sup>T</sup>	G2.5 <sup>c</sup>	2.8 <sup>e</sup>	-3.6 (4)	-3.8 (4)	0.1 (9.2)	-11.3 (9.2)			<i>JHK</i> in [f] slightly different
1433	21:37:57.57	57:24:19.7 <sup>T</sup>		4622	12-1422	20.23 <sup>f</sup>			18.77 <sup>e</sup>	17.48	16.09 <sup>e</sup>	14.458 (45)	13.606 (43)	13.337 (43) <sup>T</sup>	M0 <sup>c</sup>	1.9 <sup>e</sup>	-0.5 (5.4)	-5.2 (5.4)					
1434	21:38:47.07	57:24:20.7 <sup>T</sup>			12-1423				17.04 <sup>e</sup>	15.94	14.83 <sup>e</sup>	13.250 (26)	12.459 (31)	12.288 (23) <sup>T</sup>	K7 <sup>c</sup>	1.5 <sup>e</sup>	-4.3 (4)	-2.6 (4)	-12.6 (11.1)	7 (11.7)			
1435	21:38:08.48	57:25:11.9 <sup>T</sup>		4629	12-1613				18.42 <sup>e</sup>	17.15	15.78 <sup>e</sup>	14.062 (32)	13.241 (40)	12.951 (35) <sup>T</sup>	M1 <sup>c</sup>	1.3 <sup>e</sup>	-5.8 (4)	-4 (4)					
1436	21:39:04.68	57:25:12.8 <sup>T</sup>		4642	12-1617	19.72 <sup>f</sup>			17.86 <sup>e</sup>	16.53	15.18 <sup>e</sup>	13.542 (26)	12.627 (28)	12.129 (24) <sup>T</sup>	M1 <sup>c</sup>	1.6 <sup>e</sup>	-5 (4)	-3.7 (4)					
1437	21:39:04.71	57:25:21.5 <sup>T</sup>			12-1650						14.406 (37)	13.888 (49)	13.722 (66) <sup>T</sup>				-7.4 (5.4)	-44.5 (5.4)					
1438	21:38:33.82	57:26:05.3 <sup>T</sup>		4637	12-1825				19.23 <sup>e</sup>	17.86	16.52 <sup>e</sup>	14.976 (63)	14.141 (47)	13.877 (66) <sup>T</sup>	M0.0 <sup>e</sup>	2.1 <sup>e</sup>	-16.8 (5.4)	-0.5 (5.4)					
1439	21:38:44.47	57:18:09.1 <sup>T</sup>		4639	12-44 <sup>a</sup>				16.65 <sup>e</sup>	15.69	14.81 <sup>e</sup>	13.421 (27)	12.647 (35)	12.180 (26) <sup>T</sup>	K5.5 <sup>c</sup>	1.2 <sup>e</sup>	-4.9 (4)	-3.9 (4)					2 diffent SHB-2004
1440	21:38:26.92	57:26:38.5 <sup>T</sup>		4634	12-1955				17.53 <sup>e</sup>	16.46	15.42 <sup>e</sup>	14.096 (43)	13.320 (44)	13.122 (42) <sup>T</sup>	K6.5 <sup>c</sup>	1.4 <sup>e</sup>	-6.9 (4)	-4.4 (4)					
1441	21:37:54.88	57:26:42.5 <sup>T</sup>			12-1968				16.5 <sup>e</sup>	15.51	14.55 <sup>e</sup>	13.185 (38)	12.344 (32)	12.026 (27) <sup>T</sup>	K6 <sup>c</sup>	1.2 <sup>e</sup>	11.7 (4)	-6.1 (4)	35.4 (7.6)	7.2 (7.6)			SB2 <sup>c</sup>
1442	21:37:50.23	57:25:48.8 <sup>T</sup>			12-1984				16.6 <sup>e</sup>	15.69	14.8 <sup>e</sup>	13.288 (29)	12.451 (31)	12.251 (22) <sup>T</sup>	K6 <sup>c</sup>	0.8 <sup>e</sup>	-1.6 (4)	-7.5 (4)	-7.9 (8)	-3.1 (8.6)			
1443	21:37:58.41	57:18:04.7 <sup>T</sup>		4625	12-94				17.39 <sup>e</sup>	16.28	15.31 <sup>e</sup>	13.780 (26)	12.899 (33)	12.673 (26) <sup>T</sup>	K4.0 <sup>e</sup>	1.8 <sup>e</sup>	4.4 (4)	2.9 (4)					
1444	21:38:52.53	57:27:18.5 <sup>T</sup>			12-2098				18.43 <sup>e</sup>	17.18	15.73 <sup>e</sup>	14.137 (53)	13.365 (56)	13.156 (50) <sup>T</sup>	M2.5 <sup>c</sup>	1 <sup>e</sup>	-2 (5.3)	-0.9 (5.3)					
1445	21:38:27.43	57:27:20.8 <sup>T</sup>		4636	12-2113	18.79 <sup>f</sup>			17.14 <sup>e</sup>	15.92	14.67 <sup>e</sup>	12.856 (31)	11.986 (35)	11.506 (24) <sup>T</sup>	K6 <sup>c</sup>	1.2 <sup>e</sup>	4.4 (4)	-4.7 (4)	16.9 (7.1)	5.2 (7.2)			SB1 <sup>c</sup>
1446	21:38:45.44	57:28:23.1 <sup>T</sup>			12-2363				17.68 <sup>e</sup>	16.36	15.05 <sup>e</sup>	13.523 (32)	12.733 (39)	12.500 (33) <sup>T</sup>	M0.5 <sup>c</sup>	1.9 <sup>e</sup>	-0.2 (3.9)	-8.9 (3.9)					SB1 <sup>c</sup>
1447	21:38:00.59	57:28:25.4 <sup>T</sup>			12-2373				17.66 <sup>e</sup>	16.48	15.24 <sup>e</sup>	13.552 (32)	12.728 (50)	12.477 (33) <sup>T</sup>	M1 <sup>c</sup>	1.2 <sup>e</sup>	-7 (4)	-0.7 (4)					
1448	21:37:51.07	57:27:50.2 <sup>T</sup>			12-2519				17.27 <sup>e</sup>	16.23	15.21 <sup>e</sup>	13.647 (31)	12.816 (36)	12.460 (22) <sup>T</sup>	K5.5 <sup>c</sup>	1.6 <sup>e</sup>	-1.3 (3.9)	-18.8 (3.9)					
1449	21:37:58.28	57:20:35.5 <sup>T</sup>		4624	12-583				17.48 <sup>e</sup>	16.26	14.93 <sup>e</sup>	13.427 (40)	12.574 (38)	12.306 (29) <sup>T</sup>	M0 <sup>c</sup>	1.6 <sup>e</sup>	-15.1 (4)	-5.1 (4)					
1450	21:38:46.23	57:20:38.0 <sup>T</sup>		4640	12-595				18.51 <sup>e</sup>	17.43	16.35 <sup>e</sup>	15.375 (66)	14.634 (82)	14.327 (81) <sup>T</sup>	K7 <sup>c</sup>	1.2 <sup>e</sup>	-21.9 (4.1)	-18.5 (4.1)					
1451	21:39:12.88	57:21:08.8 <sup>T</sup>			12-705				17.59 <sup>e</sup>	16.37	15.13 <sup>e</sup>	13.489 (26)	12.685 (32)	12.425 (25) <sup>T</sup>	M1 <sup>c</sup>	1.3 <sup>e</sup>	-3.7 (4)	-4.8 (4)					
1452	21:39:14.24	57:22:13.0 <sup>T</sup>			12-942				17.15 <sup>e</sup>	15.98	14.79 <sup>e</sup>	13.238 (29)	12.431 (37)	12.196 (28) <sup>T</sup>	K7.5 <sup>c</sup>								

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT	Class	<i>A<sub>v</sub></i>	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	Comments	
	J2000			DA	2004												PPMXL		UCAC3		MVA [j]			
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr		
1456	21:38:07.72	57:35:53.3 <sup>T</sup>		4628	13-1161			18.05 <sup>e</sup>	16.8	15.64 <sup>e</sup>	14.111 (39)	13.249 (38)	12.973 (28) <sup>T</sup>	M0 <sup>c</sup>		1.5 <sup>e</sup>	-10.5 (4)	-9.6 (4)						
1457	21:37:59.26	57:36:16.2 <sup>T</sup>		4626	13-1238	19.15 <sup>f</sup>		18.36 <sup>e</sup>	16.83	15.37 <sup>e</sup>	13.321 (27)	12.400 (32)	11.889 (18) <sup>T</sup>	M1 <sup>c</sup>		2.6 <sup>e</sup>	-2 (3.9)	-5.2 (3.9)						
1458	21:39:12.13	57:36:16.5 <sup>T</sup>		4644	13-1250	18.68 <sup>f</sup>		16.05 <sup>e</sup>	15.09	14.24 <sup>e</sup>	12.920 (24)	12.119 (29)	11.799 (23) <sup>T</sup>	K4.5 <sup>c</sup>		1.4 <sup>e</sup>	-6.3 (3.8)	-6.4 (3.8)	-8.2 (8.5)	-16.6 (8.4)				
1459	21:38:08.56	57:37:07.6 <sup>T</sup>		4630	13-1426			19.67 <sup>e</sup>	18.06	16.43 <sup>e</sup>	14.306 (29)	13.425 (33)	12.901 (30) <sup>T</sup>	M0 <sup>c</sup>		3.2 <sup>e</sup>	-2.2 (3.9)	-6.2 (3.9)						
1460	21:38:28.04	57:30:46.5 <sup>T</sup>			13-157			16.23 <sup>e</sup>	15.25	14.32 <sup>e</sup>	12.912 (31)	11.979 (36)	11.249 (52) <sup>T</sup>	K5.5 <sup>c</sup>		1.2 <sup>e</sup>								
1461	21:38:40.38	57:38:37.4 <sup>T</sup>			13-1709			16.7 <sup>e</sup>	15.7	14.82 <sup>e</sup>	13.563 (27)	12.715 (32)	12.507 (23) <sup>T</sup>	K5.5 <sup>c</sup>		1.2 <sup>e</sup>	0.9 (3.8)	-6.1 (3.8)	-8.2 (8.8)	-7 (8.9)				
1462	21:38:17.03	57:39:26.6 <sup>T</sup>			13-1877			16.83 <sup>e</sup>	15.59	14.45 <sup>e</sup>	12.935 ( )	11.954 ( )	11.263 ( ) <sup>T</sup>	K7 <sup>e</sup>		2 <sup>e</sup>	3.2 (3.8)	-5.4 (3.8)						
1463	21:38:40.02	57:39:30.3 <sup>T</sup>		4638	13-1891			18.16 <sup>e</sup>	17.06	15.89 <sup>e</sup>	14.509 (27)	13.600 (42)	13.215 (30) <sup>T</sup>	M0 <sup>c</sup>		1 <sup>e</sup>	10.6 (3.9)	-12.3 (3.9)						
1464	21:38:17.50	57:41:02.0 <sup>T</sup>			13-2236			17.54 <sup>e</sup>	16.4	15.35 <sup>e</sup>	13.873 (34)	13.004 (37)	12.767 (35) <sup>T</sup>	K6.5 <sup>c</sup>		1.6 <sup>e</sup>	-8.2 (3.9)	-4.9 (3.9)						
1465	21:38:28.35	57:31:07.2 <sup>T</sup>			13-232			17.36 <sup>e</sup>	16.2	15.11 <sup>e</sup>	13.647 (43)	12.804 (42)	12.561 (40) <sup>T</sup>	M0 <sup>c</sup>		1.1 <sup>e</sup>	-5.4 (3.9)	-16.7 (3.9)						
1466	21:38:27.42	57:31:08.2 <sup>T</sup>		4635	13-236	17.56 <sup>f</sup>		15.64 <sup>e</sup>	14.7	13.85 <sup>e</sup>	12.355 (36)	11.363 (40)	10.774 (24) <sup>T</sup>	K2 <sup>c</sup>		1.8 <sup>e</sup>	24.9 (3.9)	-14.3 (3.9)	29.5 (7.3)	1.1 (7.3)				
1467	21:39:10.25	57:31:06.6 <sup>T</sup>		4643	13-238			19.5 <sup>f</sup>	17.5	15.9 <sup>f</sup>	14.084 (31)	13.222 (35)	12.980 (28) <sup>T</sup>	K1 <sup>q</sup>			-1.3 (5.4)	-1.6 (5.4)						
1468	21:37:58.13	57:31:20.0 <sup>T</sup>			13-269			16.95 <sup>e</sup>	15.8	14.65 <sup>e</sup>	12.829 (27)	12.001 (32)	11.724 (20) <sup>T</sup>	K6.5 <sup>c</sup>		1.9 <sup>e</sup>	-5.6 (3.9)	-2.8 (3.9)	-10.7 (9.1)	21.4 (8.5)				
1469	21:38:13.85	57:31:41.5 <sup>T</sup>		4632	13-350			18.08 <sup>e</sup>	16.97	15.81 <sup>e</sup>	14.475 (66)	13.621 (60)	13.389 (43) <sup>T</sup>	M1 <sup>c</sup>		0.7 <sup>e</sup>	17.6 (3.8)	-32.2 (3.8)						
1470	21:38:32.55	57:30:16.1 <sup>T</sup>			13-52			17.27 <sup>e</sup>	16.19	15.15 <sup>e</sup>	13.738 (47)	12.842 (40)	12.607 (31) <sup>T</sup>	K7 <sup>e</sup>		1.3 <sup>e</sup>	-2.2 (4)	-6.9 (4)						
1471	21:38:34.81	57:32:50.0 <sup>T</sup>			13-566			18.05 <sup>e</sup>	16.81	15.47 <sup>e</sup>	13.899 (29)	13.049 (35)	12.789 (22) <sup>T</sup>	K5.5 <sup>c</sup>		2.4 <sup>e</sup>	-2.8 (3.8)	-6.4 (3.8)						
1472	21:38:09.28	57:33:26.2 <sup>T</sup>		4631	13-669	18.29 <sup>f</sup>		15.84 <sup>e</sup>	14.86	13.93 <sup>e</sup>	12.391 (29)	11.566 (30)	11.195 (20) <sup>T</sup>	K1 <sup>c</sup>		2.2 <sup>e</sup>	0 (4)	4.3 (4)	3.3 (8.5)	14.8 (7.4)				
1473	21:38:25.97	57:34:09.4 <sup>T</sup>			13-819			16.44 <sup>e</sup>	15.42	14.45 <sup>e</sup>	13.032 (27)	12.234 (29)	11.993 (20) <sup>T</sup>	K5.5 <sup>c</sup>		1.4 <sup>e</sup>	1.8 (3.8)	-5.2 (3.8)	-10.3 (8.4)	-13.1 (8.4)				
1474	21:38:11.21	57:34:18.2 <sup>T</sup>			13-838						14.113 (34)	13.407 (33)	13.199 (33) <sup>T</sup>				-4.2 (3.9)	-3.8 (3.9)						
1475	21:37:50.19	57:33:40.4 <sup>T</sup>		4621	13-924			16.93 <sup>e</sup>	15.93	14.92 <sup>e</sup>	13.225 (27)	12.360 (36)	12.108 (24) <sup>T</sup>	K5 <sup>c</sup>		1.6 <sup>e</sup>	-3.9 (3.8)	-4.1 (3.8)	-7.9 (12.6)	14.3 (9.1)				
1476	21:37:28.94	57:36:04.3 <sup>T</sup>		4613	14-1017			18.66 <sup>e</sup>	17.3	15.92 <sup>e</sup>	13.994 (31)	13.027 (30)	12.630 (26) <sup>T</sup>	M0 <sup>c</sup>		2.1 <sup>e</sup>	0.7 (3.8)	-9 (3.8)						
1477	21:37:19.76	57:31:04.4 <sup>T</sup>			14-103			17.83 <sup>e</sup>	16.93	15.82 <sup>e</sup>	14.283 (27)	13.387 (31)	13.193 (40) <sup>T</sup>	K7 <sup>e</sup>		1 <sup>e</sup>	-4.2 (3.9)	2.3 (3.9)						
1478	21:37:10.32	57:30:18.9 <sup>T</sup>			14-11			17.53 <sup>e</sup>	16.15	14.78 <sup>e</sup>	13.057 (29)	12.216 (34)	11.956 (26) <sup>T</sup>	M1.5 <sup>c</sup>		1.8 <sup>e</sup>	1.6 (3.8)	-10.7 (3.8)						
1479	21:36:55.79	57:36:53.3 <sup>T</sup>			14-1229			17.81 <sup>e</sup>	16.74	15.74 <sup>e</sup>	14.361 (29)	13.501 (41)	13.351 (34) <sup>T</sup>	K6 <sup>c</sup>		1.3 <sup>e</sup>	-2.8 (4)	-0.4 (4)						
1480	21:37:10.54	57:31:12.5 <sup>T</sup>		4607	14-125	20.03 <sup>f</sup>		16.74 <sup>e</sup>	15.73	14.7 <sup>e</sup>	13.090 (26)	12.170 (30)	11.732 (21) <sup>T</sup>	K5 <sup>c</sup>		1.7 <sup>e</sup>	1 (3.8)	-14.3 (3.8)						
1481	21:36:49.42	57:31:22.1 <sup>T</sup>		4601	14-141	19.35 <sup>f</sup>		15.81 <sup>e</sup>	14.68	13.52 <sup>e</sup>	11.918 (22)	10.914 (29)	10.355 (21) <sup>T</sup>	K6 <sup>c</sup>		1.7 <sup>e</sup>	-1.4 (3.8)	-18.5 (3.8)					JHK in [r] different	
1482	21:37:27.33	57:31:29.5 <sup>T</sup>		4611	14-160	20.23 <sup>f</sup>		16.91 <sup>e</sup>	15.84	14.83 <sup>e</sup>	13.218 (37)	12.349 (41)	11.954 (33) <sup>T</sup>	K5 <sup>c</sup>		1.8 <sup>e</sup>	0.8 (3.8)	-9.8 (3.8)	-14.2 (12)	0.6 (12.2)				
1483	21:37:11.24	57:39:16.9 <sup>T</sup>		4608	14-1827	18.05 <sup>f</sup>		15.67 <sup>e</sup>	14.92	14.19 <sup>f</sup>	13.171 (22)	12.515 (28)	12.399 (25) <sup>T</sup>	G <sup>f</sup>			7.5 (3.8)	8.5 (3.8)	6.6 (7.6)	1.7 (7.6)				
1484	21:37:38.49	57:31:40.8 <sup>T</sup>		4617	14-183	20.84 <sup>f</sup>		16.61 <sup>e</sup>	15.37	14.21 <sup>e</sup>	13.303 (29)	12.229 (31)	11.668 ( ) <sup>T</sup>	K7.0(K5)R <sup>c</sup>		2 <sup>e</sup>								SB1: <sup>c</sup>
1485	21:37:23.68	57:31:53.9 <sup>T</sup>			14-197			17.07 <sup>e</sup>	16.01	14.99 <sup>e</sup>	13.446 (25)	12.635 (31)	12.473 (26) <sup>T</sup>	K5.5 <sup>c</sup>		1.7 <sup>e</sup>	3.8 (5.1)	-3.1 (5.1)	-10.8 (12.8)	-2.7 (13.2)				SB1: <sup>c</sup>
1486	21:37:41.85	57:40:40.1 <sup>T</sup>			14-2148			18.25 <sup>e</sup>	16.93	15.62 <sup>e</sup>	13.985 (30)	13.087 (34)	12.832 (30) <sup>T</sup>	M1.5 <sup>c</sup>		1.5 <sup>e</sup>	-1 (3.8)	-10.3 (3.8)						
1487	21:37:06.07	57:32:01.6 <sup>T</sup>		4605	14-222	18.52 <sup>f</sup>		15.81 <sup>e</sup>	14.74	13.65 <sup>e</sup>	12.105 (22)	11.273 (26)	11.077 (21) <sup>T</sup>	K7 <sup>e</sup>		1.2 <sup>e</sup>	5.4 (3.9)	-2.6 (3.9)						
1488	21:37:06.50	57:32:31.7 <sup>T</sup>			14-287			17.85 <sup>e</sup>	16.51	15.17 <sup>e</sup>	13.321 (23)	12.327 (28)	11.909 (23) <sup>T</sup>	M0 <sup>c</sup>		2.2 <sup>e</sup>	3.2 (3.8)	-14.2 (3.8)						
1489	21:36:26.77	57:32:35.5 <sup>T</sup>			14-306			18.4 <sup>e</sup>	17.29	16.12 <sup>e</sup>	14.258 (40)	13.294 (42)	12.936 (34) <sup>T</sup>	K6.5 <sup>c</sup>		1.9 <sup>e</sup>	19.2 (4)	22.2 (4)						
1490	21:37:29.16	57:32:53.5 <sup>T</sup>		4614	14-335			17.14 <sup>e</sup>	16.09	14.98 <sup>e</sup>	13.236 (35)	12.142 (31)	11.553 (26) <sup>T</sup>	K6.5 <sup>c</sup>		1.5 <sup>e</sup>	8.1 (3.8)	3.9 (3.8)	42 (13.1)	103.6 (14.2)				
1491	21:37:39.88	57:36:03.0 <sup>T</sup>			14-995						14.542 (43)	13.692 (47)	13.454 (47) <sup>T</sup>				18.9 (3.8)	12.1 (3.8)						
1492	21:39:15.84	57:24:35.0 <sup>T</sup>			21-1189						14.606 (41)	14.059 (63)	13.847 (64) <sup>T</sup>				-11 (4)	-7.5 (4)						
1493	21:39:45.71	57:26:24.3 <sup>T</sup>			21-1536			18.85 <sup>e</sup>	17.61	16.16 <sup>e</sup>	14.561 (40)	13.756 (44)	13.224 (42) <sup>T</sup>	M0.0 <sup>e</sup>		1.8 <sup>e</sup>	-4.4 (4.1)	3.4 (4.1)						faint star
1494	21:39:47.94	57:26:42.8 <sup>T</sup>		4648	21-1586			18.23 <sup>e</sup>	17.14	15.84 <sup>e</sup>	14.479 (41)	13.615 (38)	13.375 (38) <sup>T</sup>	K7 <sup>e</sup>		1.5 <sup>e</sup>	-8.2 (4.1)	-3.2 (4.1)						
1495	21:39:15.54	57:26:44.1 <sup>T</sup>			21-1590			18.1 <sup>e</sup>	16.79	15.62 <sup>e</sup>	14.053 (30)	13.252 (39)	12.941 (34) <sup>T</sup>	K7 <sup>e</sup>		2.2 <sup>e</sup>	-1.9 (3.9)	-19.7 (3.9)						
1496	21:40:01.28	57:27:18.5 <sup>T</sup>		4649	21-1692			18.58 <sup>e</sup>	17.22	15.94 <sup>e</sup>	14.305 (31)	13.460 (40)	13.243 (40) <sup>T</sup>	M1 <sup>c</sup>		1.7 <sup>e</sup>	-6.2 (4.1)	-3.9 (4.1)						
1497	21:40:09.25	57:27:39.3 <sup>T</sup>			21-1762			17 <sup>e</sup>	15.96	14.94 <sup>e</sup>	13.391 (24)	12.727 (33)	12.413 (28) <sup>T</sup>	K5 <sup>c</sup>		1.8 <sup>e</sup>	-7.5 (3.9)	-9.1 (3.9)	-6 (8.2)	4.5 (8.7)				
1498	21:39:58.62	57:28:40.5 <sup>T</sup>			21-1974			16.77 <sup>e</sup>	15.79	14.86 <sup>e</sup>	13.446 (32)	12.707 (44)	12.497 (32) <sup>T</sup>	G7.5 <sup>e</sup>		2.5 <sup>e</sup>	-0.7 (3.8)	1.3 (3.9)	0.2 (9.6)	30.9 (8.8)				
1499	21:40:13.91	57:28:48.2 <sup>T</sup>			21-2006			16.99 <sup>e</sup>	16	15.02 <sup>e</sup>	13.704 (29)	12.920 (38)	12.488 (30) <sup>T</sup>	K5.0 <sup>c</sup>		1.5 <sup>e</sup>	-0.6 (4.1)	-4.3 (4.1)	30.1 (14.1)	12.2 (14.2)				
1500	21:39:47.55	57:25:21.1 <sup>T</sup>			21-2251			18.05 <sup>e</sup>	16.73	15.31 <sup>e</sup>	13.800 (28)	12.995 (32)	12.709 (30) <sup>T</sup>	M2 <sup>c</sup>		1.5 <sup>e</sup>	-0.5 (4.1)	-12.3 (4.1)						SB1: <sup>c</sup>
1501	21:39:41.69	57:19:27.4 <sup>T</sup>			21-230			18.17 <sup>e</sup>	16.94	15.69 <sup>e</sup>	14.210 (38)	13.345 (36)	13.174 (38) <sup>T</sup>	M0.5 <sup>c</sup>		1.5 <sup>e</sup>	2 (4.1)	0.3 (4.1)						
1502	21:39:35.62	57:18:22.1 <sup>T</sup>		4646	21-33			18.68 <sup>e</sup>	17.4	16.14 <sup>e</sup>	14.501 (39)	13.581 (40)	13.220 (44) <sup>T</sup>	M0 <sup>c</sup>		1.7 <sup>e</sup>	-9.5 (4.1)	-10.4 (4.1)						
1503	21:40:02.60	57:22:09.0 <sup>T</sup> </																						



**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
	J2000			DA	2004												PPMXL		UCAC3		MVA [j]		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1509	21:40:22.87	57:27:33.0 <sup>f</sup>				22-1418			17.59 <sup>e</sup>	17.68	15.25 <sup>e</sup>	14.134 (32)	13.174 (30)	12.591 (28) <sup>f</sup>	M1.5 <sup>c</sup>	0.7 <sup>e</sup>	-3.8 (3.9)	-10.7 (3.9)					
1510	21:41:02.13	57:28:22.0 <sup>f</sup>				22-1526			17.76 <sup>e</sup>	16.86	15.56 <sup>e</sup>	14.383 (62)	13.476 (59)	13.382 (51) <sup>f</sup>	M1 <sup>c</sup>	0.6 <sup>e</sup>	-16.3 (3.9)	-13.8 (3.9)					star elongated
1511	21:41:18.38	57:28:43.3 <sup>f</sup>				22-1569			17.58 <sup>e</sup>	16.7	15.09 <sup>e</sup>	13.607 (32)	12.826 (33)	12.578 (30) <sup>f</sup>	M1 <sup>c</sup>	1.4 <sup>e</sup>	-0.4 (3.9)	-9.8 (3.9)	9 (11.3)	-5.9 (11.3)			
1512	21:40:21.30	57:26:57.9 <sup>f</sup>				22-2651			18.43 <sup>e</sup>	17.1	16.01 <sup>e</sup>	14.500 (38)	13.405 (32)	12.624 (28) <sup>f</sup>	M1.5 <sup>c</sup>	0.9 <sup>e</sup>	-0.8 (4.1)	-5.2 (4.1)					
1513	21:41:09.71	57:20:50.8 <sup>f</sup>				22-404			16.02 <sup>e</sup>	15.37	14.51 <sup>e</sup>	13.479 (27)	12.892 (35)	12.681 (35) <sup>f</sup>	G7.0 <sup>e</sup>	1.4 <sup>e</sup>	-4.8 (4.1)	-2.7 (4.1)	-5.8 (7.2)	7.5 (7.2)			
1514	21:40:58.70	57:21:09.6 <sup>f</sup>				22-445			17.9 <sup>e</sup>	16.83	15.5 <sup>e</sup>	13.906 (34)	13.104 (42)	12.818 (23) <sup>f</sup>	M0.5 <sup>c</sup>	1.3 <sup>e</sup>	-9 (4.1)	-11 (4.1)					
1515	21:40:48.84	57:24:18.6 <sup>f</sup>				22-939			17.58 <sup>e</sup>	16.54	15.49 <sup>e</sup>	14.266 (35)	13.507 (38)	13.210 (39) <sup>f</sup>	K6.0 <sup>e</sup>	1.3 <sup>e</sup>	-7.2 (4.1)	-2.9 (4.1)					
1516	21:41:15.24	57:24:25.6 <sup>f</sup>				22-960			18.23 <sup>e</sup>	17.1	15.67 <sup>e</sup>	14.222 (50)	13.364 (49)	13.107 (46) <sup>f</sup>	M2.5 <sup>c</sup>	0.6 <sup>e</sup>	-1 (5.4)	-50.3 (5.4)					
1517	21:40:55.43	57:39:55.6 <sup>f</sup>				23-1161			17.81 <sup>e</sup>	16.65	15.74 <sup>e</sup>	14.407 (32)	13.602 (39)	13.425 (39) <sup>f</sup>	K6.5 <sup>e</sup>	1.4 <sup>e</sup>	-2.1 (3.8)	-9.2 (3.8)					
1518	21:41:05.51	57:41:03.3 <sup>f</sup>				23-1282						13.664 (31)	12.918 (36)	12.729 (30) <sup>f</sup>					3.8 (15.2)	-9.8 (12.5)			
1519	21:40:44.50	57:31:31.4 <sup>f</sup>				23-162			17.97 <sup>e</sup>	16.7	15.68 <sup>e</sup>	14.044 (31)	13.144 (37)	12.588 (29) <sup>f</sup>	K7 <sup>e</sup>	1.7 <sup>e</sup>	-1.5 (3.9)	-5.4 (3.9)					
1520	21:41:32.36	57:32:24.6 <sup>f</sup>				23-259						13.304 (26)	12.664 (36)	12.453 (25) <sup>f</sup>					-21.1 (3.8)	11.5 (3.9)	-27.1 (8.7)	13.7 (10.2)	
1521	21:40:31.35	57:33:41.8 <sup>f</sup>	4652			23-405			16.46 <sup>e</sup>	15.47	14.65 <sup>e</sup>	13.389 (32)	12.504 (33)	12.125 (28) <sup>f</sup>	K5 <sup>c</sup>	1.1 <sup>e</sup>	-4.7 (3.8)	-2.9 (3.8)	-12.4 (9.6)	-13.1 (9.6)			
1522	21:40:35.75	57:34:55.1 <sup>f</sup>				23-570			16.85 <sup>e</sup>	15.72	14.88 <sup>e</sup>	13.477 (31)	12.556 (30)	12.194 (28) <sup>f</sup>	K6 <sup>e</sup>	1.3 <sup>e</sup>	-2 (3.9)	-2.2 (3.9)					
1523	21:40:53.92	57:36:19.9 <sup>f</sup>				23-753			18.08 <sup>e</sup>	16.98	16.01 <sup>e</sup>	14.664 (27)	13.855 (43)	13.663 (54) <sup>f</sup>	M0.5-M0 <sup>e</sup>	0.5 <sup>e</sup>	-4.9 (3.8)	-14.4 (3.8)					
1524	21:41:28.65	57:36:43.3 <sup>f</sup>	4653			23-798	19.72 <sup>f</sup>		18.76 <sup>e</sup>	17.43	16.36 <sup>e</sup>	14.410 (23)	13.533 (35)	12.820 (30) <sup>f</sup>	K6 <sup>e</sup>	2.2 <sup>e</sup>	-4.3 (3.8)	-4.9 (3.8)					faint star
1525	21:41:14.98	57:38:14.9 <sup>f</sup>				23-969			16.39 <sup>e</sup>	15.29	14.52 <sup>e</sup>	13.144 (26)	12.325 (32)	11.919 (21) <sup>f</sup>	K5.5 <sup>c</sup>	1.2 <sup>e</sup>	-1.7 (3.8)	-7.8 (3.8)	-21 (8.2)	-16.2 (8.2)			
1526	21:39:50.88	57:36:16.8 <sup>f</sup>				24-1047						13.237 (26)	12.395 (31)	12.252 (28) <sup>f</sup>					15.6 (8.3)	21.8 (8.3)			
1527	21:39:03.90	57:31:03.8 <sup>f</sup>				24-108			17.27 <sup>e</sup>	16.22	15.12 <sup>e</sup>	13.540 (29)	12.739 (35)	12.471 (28) <sup>f</sup>	K5.5 <sup>c</sup>	1.9 <sup>e</sup>	1.2 (3.8)	-7.9 (3.8)					
1528	21:39:36.13	57:31:28.9 <sup>f</sup>	4647			24-170			17.4 <sup>e</sup>	16.27	15.1 <sup>e</sup>	13.444 (32)	12.648 (35)	12.398 (30) <sup>f</sup>	K7.5 <sup>c</sup>	1.5 <sup>e</sup>	4.5 (3.8)	-4.1 (3.8)					
1529	21:40:11.35	57:39:51.8 <sup>f</sup>	4651			24-1736	19.72 <sup>f</sup>		19.07 <sup>e</sup>	18.12	16.35 <sup>e</sup>	14.309 (24)	13.443 (36)	12.968 (28) <sup>f</sup>	M1 <sup>c</sup>	1 <sup>e</sup>	-4.7 (3.8)	-4.9 (3.8)					
1530	21:40:11.83	57:40:12.2 <sup>f</sup>				24-1796			17.4 <sup>e</sup>	16.37	15.32 <sup>e</sup>	13.876 (35)	13.076 (39)	12.734 (37) <sup>f</sup>	K7 <sup>e</sup>	1.2 <sup>e</sup>	-8.9 (3.8)	-6.1 (3.8)					SB2: <sup>c</sup>
1531	21:40:10.23	57:32:51.2 <sup>f</sup>				24-382			17.91 <sup>e</sup>	16.81	15.67 <sup>e</sup>	14.132 (31)	13.317 (36)	13.091 (35) <sup>f</sup>	K7.5 <sup>c</sup>	1.4 <sup>e</sup>	-3.2 (3.8)	-5.5 (3.8)					
1532	21:39:38.05	57:30:44.0 <sup>f</sup>				24-48			18.11 <sup>e</sup>	16.81	15.63 <sup>e</sup>	14.129 (32)	13.278 (27)	13.073 (29) <sup>f</sup>	M0.5 <sup>c</sup>	1.5 <sup>e</sup>	-17 (3.8)	-6.1 (3.8)					
1533	21:39:34.07	57:33:31.0 <sup>f</sup>				24-515			17.9 <sup>e</sup>	16.7	15.58 <sup>e</sup>	14.057 (28)	13.125 (33)	12.704 (28) <sup>f</sup>	M0.5 <sup>c</sup>	1.1 <sup>e</sup>	1.5 (3.9)	-13.1 (3.9)					
1534	21:39:29.57	57:33:41.7 <sup>f</sup>	4645			24-542	18.54 <sup>f</sup>		15.88 <sup>e</sup>	14.97	14.1 <sup>e</sup>	12.823 (24)	12.053 (31)	11.867 (23) <sup>f</sup>	K4 <sup>e</sup>	1 <sup>e</sup>	-1.5 (3.8)	-7.7 (3.8)	-6 (8.3)	-5.4 (8.4)			
1535	21:39:00.55	57:34:28.1 <sup>f</sup>				24-692			18.43 <sup>e</sup>	17.13	15.88 <sup>e</sup>	14.294 (35)	13.402 (33)	13.138 (39) <sup>f</sup>	M1 <sup>c</sup>	1.5 <sup>e</sup>	-6.7 (5)	-12.5 (5)					SB1 <sup>c</sup>
1536	21:39:03.47	57:30:52.8 <sup>f</sup>				24-77			17.53 <sup>e</sup>	16.6	15.44 <sup>e</sup>	13.771 (29)	12.987 (35)	12.687 (28) <sup>f</sup>	K6.5 <sup>c</sup>	1.4 <sup>e</sup>	1 (5)	-8.1 (5)					
1537	21:39:49.37	57:30:54.7 <sup>f</sup>				24-78			17.91 <sup>e</sup>	16.59	15.27 <sup>e</sup>	13.561 (23)	12.767 (30)	12.465 (25) <sup>f</sup>	M2 <sup>c</sup>	1.3 <sup>e</sup>	-2.8 (3.9)	-8.4 (3.9)					
1538	21:40:02.73	57:35:05.0 <sup>f</sup>	4650			24-817	19.03 <sup>f</sup>		17.82 <sup>e</sup>	16.62	15.49 <sup>e</sup>	13.968 (26)	13.122 (30)	12.916 (28) <sup>f</sup>	K6.5 <sup>c</sup>	2 <sup>e</sup>	-2.7 (3.8)	-10 (3.8)					
1539	21:39:47.47	57:35:06.0 <sup>f</sup>				24-820			18.35 <sup>e</sup>	17.28	16.32 <sup>e</sup>	15.104 (36)	14.363 (49)	14.069 (60) <sup>f</sup>	K6.5 <sup>c</sup>	1.2 <sup>e</sup>	0.9 (3.9)	-9 (3.9)					
1540	21:43:49.33	57:19:20.9 <sup>f</sup>				43-795			17.1 <sup>e</sup>	16.04	15.02 <sup>e</sup>	13.376 (26)	12.582 (31)	12.331 (19) <sup>f</sup>	K5.5 <sup>c</sup>	1.7 <sup>e</sup>	-4.4 (4.1)	-6.2 (4.1)	9.8 (12.2)	12 (11.8)			
1541	21:39:46.44	57:05:07.3 <sup>f</sup>				52-1649			17.22 <sup>e</sup>	16.25	15.38 <sup>e</sup>	14.213 (41)	13.557 (50)	13.310 (42) <sup>f</sup>	K5.0 <sup>e</sup>	1.1 <sup>e</sup>	17.3 (5.4)	49.3 (5.5)					
1542	21:40:55.93	57:17:59.2 <sup>f</sup>				53-1561			17.86 <sup>e</sup>	16.59	15.45 <sup>e</sup>	13.814 (27)	12.830 (35)	12.245 (24) <sup>f</sup>	K6 <sup>e</sup>	2.1 <sup>e</sup>	-8.3 (4.1)	-6.4 (4.1)					
1543	21:39:50.29	57:19:17.7 <sup>f</sup>				53-1762			17.94 <sup>e</sup>	16.73	15.62 <sup>e</sup>	14.134 (24)	13.293 (32)	12.984 (30) <sup>f</sup>	M0 <sup>c</sup>	1.3 <sup>e</sup>	-4.5 (4.1)	-0.7 (4.1)					SB1: <sup>c</sup>
1544	21:39:38.03	57:19:33.2 <sup>f</sup>				53-1803			18.25 <sup>e</sup>	17.12	16.16 <sup>e</sup>	14.643 (43)	13.744 (44)	13.448 (48) <sup>f</sup>	K6.5 <sup>c</sup>	1.4 <sup>e</sup>	-2.6 (4.1)	4.6 (4.1)					SB1 <sup>c</sup>
1545	21:40:35.92	57:19:39.9 <sup>f</sup>				53-1843			17.65 <sup>e</sup>	16.55	15.51 <sup>e</sup>	13.945 (27)	13.172 (41)	12.938 (26) <sup>f</sup>	M0.5 <sup>c</sup>	0.7 <sup>e</sup>	-1.9 (4.1)	-6.2 (4.1)					
1546	21:39:17.48	57:17:47.4 <sup>f</sup>				54-1488			16.48 <sup>e</sup>	15.65	14.83 <sup>e</sup>	13.774 (47)	13.013 (46)	12.799 (44) <sup>f</sup>	K7.0 <sup>e</sup>	0.1 <sup>e</sup>	-29.8 (4)	25.2 (4)	-5.6 (11.6)	-64.9 (11.5)			
1547	21:38:43.32	57:18:36.0 <sup>f</sup>				54-1613			16.58 <sup>e</sup>	15.6	14.73 <sup>e</sup>	13.446 (27)	12.688 (29)	12.457 (25) <sup>f</sup>	K5 <sup>c</sup>	1.2 <sup>e</sup>	-3.2 (4)	-2.6 (4)	-12.5 (7.4)	5.1 (7.4)			
1548	21:38:16.13	57:19:35.8 <sup>f</sup>				54-1781			18.18 <sup>e</sup>	17	15.65 <sup>e</sup>	13.991 (32)	13.092 (32)	12.792 (30) <sup>f</sup>	M1 <sup>c</sup>	1.2 <sup>e</sup>	-1.9 (5.4)	-4.6 (5.4)					
1549	21:36:26.15	57:01:29.3 <sup>f</sup>				61-413						14.123 (27)	13.494 (33)	13.344 (34) <sup>f</sup>					-3.3 (4.1)	-6.2 (4.1)			
1550	21:35:50.70	57:03:57.1 <sup>f</sup>				61-608						14.250 (41)	13.575 (49)	13.366 (45) <sup>f</sup>					-6.7 (4.1)	-2.4 (4.1)	-51.8 (13.6)	17.2 (13.1)	
1551	21:36:00.91	57:07:12.9 <sup>f</sup>				61-893						14.188 (34)	13.291 (0)	13.092 (37) <sup>f</sup>					0 (4.1)	-4.7 (4.1)			
1552	21:35:18.05	57:09:44.1 <sup>f</sup>				64-156						13.559 (40)	13.266 (58)	13.161 (51) <sup>f</sup>					-1.6 (4.1)	2.9 (4.1)	-8.8 (7.1)	13.3 (7.1)	
1553	21:35:50.83	57:12:07.1 <sup>f</sup>				64-376						14.222 (36)	13.539 (39)	13.341 (38) <sup>f</sup>					17 (4.1)	4.4 (4.1)	18.9 (11.6)	8.5 (11.6)	
1554	21:34:09.74	57:29:55.0 <sup>f</sup>				71-1309						14.697 (38)	13.939 (46)	13.737 (51) <sup>f</sup>					9.3 (4)	-1.7 (4)			
1555	21:35:16.28	57:28:22.2 <sup>f</sup>				72-1427			18.08 <sup>e</sup>	16.82	15.58 <sup>e</sup>	14.005 (31)	13.067 (29)	12.673 (28) <sup>f</sup>	M1 <sup>c</sup>	1.4 <sup>e</sup>	-6.3 (5.5)	-12.7 (5.5)					
1556	21:35:14.82	57:21:23.3 <sup>f</sup>				72-489			18.11 <sup>e</sup>	17.05	16.06 <sup>e</sup>	14.607 (38)	13.837 (43)	13.543 (44) <sup>f</sup>	K5.0 <sup>e</sup>	1.7 <sup>e</sup>	-14.1 (4.1)	-16.9 (4.1)					
1557	21:35:49.75	57:24:04.2 <sup>f</sup>				72-875			18.37 <sup>e</sup>	17.38	16.18 <sup>e</sup>	14.092 (31)	13.006 (27)	12.500 (26) <sup>f</sup>	M0.5 <sup>c</sup>	0.8 <sup>e</sup>	-17.3 (5.5)	-4.2 (5.5)					SB1: <sup>c</sup>
1558	21:35:23.86	57:38:14.6 <sup>f</sup>				73-1059						14.402 (35)											

**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA	Dec	MVA	WEB-	SHB-	<i>U</i>	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT	Class	<i>A<sub>V</sub></i>	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	$\mu_{\alpha}$	$\mu_{\delta}$	Comments
	hh:mm:ss.ss	dd:mm:ss.s	J2000	DA	2004	mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
																	PPMXL		UCAC3		MVA [j]		
1562	21:36:07.24	57:34:32.4 <sup>r</sup>			73-537	17.3 <sup>e</sup>	16.27	15.25 <sup>e</sup>	14.047 (52)	13.159 (39)	12.674 (0) <sup>f</sup>	G1.5 <sup>c</sup>			3.3 <sup>e</sup>								near 1766
1563	21:35:20.77	57:35:28.9 <sup>r</sup>			73-674				12.762 (27)	11.988 (29)	11.762 (21) <sup>f</sup>						-5.7 (4.1)	9.4 (4.1)	-16.3 (6.9)	23 (6.7)			
1564	21:35:30.21	57:31:16.5 <sup>r</sup>			73-71	16.99 <sup>e</sup>	15.81	14.69 <sup>e</sup>	12.979 (34)	12.105 (37)	11.715 (29) <sup>f</sup>	K6 <sup>c</sup>			2.1 <sup>e</sup>	-4.6 (4)	-6.1 (4)						
1565	21:35:08.35	57:36:02.9 <sup>r</sup>			73-758	17.06 <sup>e</sup>	15.84	14.76 <sup>e</sup>	13.330 (28)	12.533 (32)	12.163 (28) <sup>f</sup>	K6.5 <sup>c</sup>			1.9 <sup>e</sup>	-0.5 (3.8)	-5.5 (3.8)	1.1 (11.5)	-2.1 (9.5)				
1566	21:34:47.30	57:31:14.9 <sup>r</sup>			74-48				13.102 (26)	12.210 (32)	11.957 (25) <sup>f</sup>						-4.5 (4)	-0.2 (4)					
1567	21:35:17.46	57:48:22.3 <sup>r</sup>			81-541	17.52 <sup>e</sup>	16.32	15.18 <sup>e</sup>	13.399 (31)	12.469 (33)	12.037 (26) <sup>f</sup>	K5.5 <sup>c</sup>			2.3 <sup>e</sup>	2.2 (3.8)	-1.5 (3.8)						
1568	21:38:03.51	57:41:35.0 <sup>r</sup>			82-272	17.26 <sup>e</sup>	16.17	15 <sup>e</sup>	12.502 (26)	11.483 (29)	10.847 (19) <sup>f</sup>	G9 <sup>c</sup>			3.6 <sup>e</sup>	-4.4 (4)	-1.7 (4)	-10 (8.5)	-14.4 (8.5)			SB2 <sup>c</sup>	
1569	21:37:36.96	57:55:14.9 <sup>r</sup>			83-343	16.67 <sup>e</sup>	15.55	14.43 <sup>e</sup>	13.006 (0)	12.277 (45)	11.940 (0) <sup>f</sup>	M0.5 <sup>c</sup>			0.9 <sup>e</sup>	-9.8 (5.1)	8.5 (5.1)	-27.7 (14.2)	47.2 (14.2)				
1570	21:36:12.81	57:53:00.4 <sup>r</sup>			84-23				13.904 (32)	13.422 (48)	13.308 (40) <sup>f</sup>						-0.7 (3.8)	-3.5 (3.8)	5.7 (10.1)	-14.6 (9.9)			
1571	21:38:34.71	57:41:27.4 <sup>r</sup>			91-155	18.31 <sup>e</sup>	16.95	15.52 <sup>e</sup>	13.741 (35)	12.875 (48)	12.489 (36) <sup>f</sup>	M2.5 <sup>c</sup>			1.2 <sup>e</sup>	-6.6 (3.9)	-2.5 (3.9)						
1572	21:38:58.07	57:43:34.4 <sup>r</sup>			91-506	16.84 <sup>e</sup>	15.76	14.75 <sup>e</sup>	13.386 (31)	12.521 (36)	12.040 (22) <sup>f</sup>	K6.5 <sup>c</sup>			1.4 <sup>e</sup>	-1.8 (5.4)	-1.9 (5.4)	46.6 (9.5)	-6.6 (11.2)				
1573	21:39:14.65	57:45:17.7 <sup>r</sup>			91-815	18.3 <sup>e</sup>	17.03	15.65 <sup>e</sup>	14.142 (52)	13.379 (61)	13.091 (52) <sup>f</sup>	M2 <sup>c</sup>			1.3 <sup>e</sup>	-20.4 (3.9)	-10.1 (3.9)						
1574	21:40:22.74	57:46:24.1 <sup>r</sup>			92-1103	16.52 <sup>e</sup>	15.39	14.3 <sup>e</sup>	12.816 (32)	11.935 (29)	11.553 (26) <sup>f</sup>	K5.5 <sup>c</sup>			2 <sup>e</sup>	17.2 (3.9)	-3.6 (3.9)						
1575	21:39:49.75	57:46:46.8 <sup>r</sup>			92-1162	18.16 <sup>e</sup>	16.84	15.46 <sup>e</sup>	13.791 (27)	12.897 (30)	12.563 (28) <sup>f</sup>	M2 <sup>c</sup>			1.4 <sup>e</sup>	-4.3 (3.9)	-7.2 (3.9)						
1576	21:39:40.10	57:46:56.2 <sup>r</sup>			92-1198				13.101 (32)	12.287 (28)	12.060 (26) <sup>f</sup>						-5.1 (3.8)	-3.8 (3.8)	-2.6 (8.1)	-1.3 (8.5)			
1577	21:39:44.09	57:42:16.0 <sup>r</sup>			92-393	18.27 <sup>e</sup>	16.82	15.35 <sup>e</sup>	13.619 (26)	12.765 (28)	12.505 (23) <sup>f</sup>	M2 <sup>c</sup>			2 <sup>e</sup>	2.7 (3.8)	-0.7 (3.8)						
1578	21:40:25.93	57:43:27.2 <sup>r</sup>			92-582				14.903 (45)	14.221 (58)	14.039 (76) <sup>f</sup>						-7.7 (4.1)	-5.1 (4.1)					
1579	21:40:41.51	57:45:22.0 <sup>r</sup>			92-926				13.200 (26)	12.542 (28)	12.353 (23) <sup>f</sup>						1.8 (3.8)	-4.9 (3.8)	11 (8.7)	9.2 (8.3)			
1580	21:40:40.61	57:54:06.4 <sup>r</sup>			93-168	16.6 <sup>e</sup>	15.56	14.6 <sup>e</sup>	13.423 (24)	12.520 (30)	12.092 (26) <sup>f</sup>	K6.5 <sup>c</sup>			1.2 <sup>e</sup>	-4.3 (3.8)	-9.3 (3.8)						
1581	21:39:52.37	57:56:18.7 <sup>r</sup>			93-361	16.74 <sup>e</sup>	15.6	14.6 <sup>e</sup>	12.847 (0)	11.793 (0)	10.760 (25) <sup>f</sup>	G1 <sup>c</sup>			3.6 <sup>e</sup>	-4 (3.8)	16 (3.8)						
1582	21:40:35.86	57:58:13.0 <sup>r</sup>			93-540	18.47 <sup>e</sup>	17.07	15.81 <sup>e</sup>	14.176 (31)	13.177 (37)	12.646 (32) <sup>f</sup>	M0 <sup>c</sup>			2.2 <sup>e</sup>	-0.7 (3.8)	-7.5 (3.8)						
1583	21:40:09.99	58:00:03.7 <sup>r</sup>			93-720				12.709 (24)	11.580 (30)	10.940 (22) <sup>f</sup>						-5.8 (3.8)	-7.6 (3.8)	-8.9 (7.4)	-13.5 (7.6)			
1584	21:38:26.69	58:02:37.8 <sup>r</sup>			94-1050				14.328 (39)	13.568 (42)	13.235 (40) <sup>f</sup>						-3.8 (3.8)	-4.9 (3.8)					
1585	21:38:18.62	58:03:28.3 <sup>r</sup>			94-1119				13.126 (26)	12.240 (30)	11.927 (23) <sup>f</sup>						-11.4 (3.8)	-7.1 (3.8)					
1586	21:40:37.22	57:29:12.7 <sup>r</sup>							14.640 (53)	13.815 (53)	13.512 (61) <sup>f</sup>	K7.5 <sup>e</sup>					-4.6 (3.8)	-10.9 (3.8)				faint star	
1587	21:40:21.92	57:30:05.4 <sup>r</sup>							13.608 (39)	12.754 (38)	12.538 (32) <sup>f</sup>	K6 <sup>c</sup>					0.1 (5.1)	6.2 (5.1)	11.2 (7.8)	64.9 (7.7)			
1588	21:40:04.52	57:28:36.4 <sup>r</sup>							13.011 (32)	12.210 (36)	11.810 (29) <sup>f</sup>	K5.0 <sup>c</sup>					-11 (4.1)	-6.6 (4.1)	-7.4 (7.6)	1.4 (7)			
1589	21:39:03.21	57:30:42.1 <sup>r</sup>							14.338 (46)	13.500 (46)	13.146 (42) <sup>f</sup>	K7.0 <sup>e</sup>					25.4 (5)	-8.4 (5)					
1590	21:38:56.69	57:30:48.4 <sup>r</sup>							14.919 (53)	14.163 (55)	13.902 (65) <sup>f</sup>	K5.0 <sup>e</sup>					-9.1 (5.4)	15.5 (5.4)					
1591	21:38:43.51	57:27:27.1 <sup>r</sup>							14.246 (34)	13.447 (37)	13.065 (34) <sup>f</sup>	M2 <sup>c</sup>					1.1 (5.4)	-3.9 (5.4)				very faint opt. cp.	
1592	21:38:32.17	57:26:35.9 <sup>r</sup>							14.811 (45)	13.860 (44)	13.175 (34) <sup>f</sup>	M0 <sup>c</sup>											
1593	21:37:42.76	57:33:25.1 <sup>r</sup>							12.561 (23)	11.308 (26)	10.388 (21) <sup>f</sup>	F9 <sup>c</sup>					18.4 (4.1)	-29.2 (4.1)	13 (18.6)	-2.9 (19.3)			
1594	21:37:24.48	57:31:36.0 <sup>r</sup>							14.543 (32)	13.790 (46)	13.278 (38) <sup>f</sup>	M3.5 <sup>e</sup>											
1595	21:37:09.37	57:29:48.4 <sup>r</sup>							13.385 (27)	12.325 (47)	11.837 (34) <sup>f</sup>	M0.5 <sup>e</sup>					0.4 (4.1)	3.4 (4.1)					
1596	21:36:59.47	57:31:34.9 <sup>r</sup>							14.520 (34)	13.403 (39)	12.765 (28) <sup>f</sup>	M0 <sup>c</sup>					-16.3 (4)	-9 (4)					
1597	21:36:47.63	57:29:54.1 <sup>r</sup>							13.568 (0)	12.342 (42)	11.655 (33) <sup>f</sup>	K6 <sup>c</sup>					-12.6 (3.8)	-0.7 (3.8)					
1598	21:36:45.97	57:29:33.9 <sup>r</sup>							14.211 (39)	12.416 (36)	11.189 (25) <sup>f</sup>						-10.4 (5.5)	0.1 (5.5)				faint star, ok	
1599	21:36:25.08	57:27:50.3 <sup>r</sup>							14.952 (44)	14.031 (48)	13.518 (40) <sup>f</sup>	M0 <sup>c</sup>					48.2 (8.6)	73 (8.6)					
1600	21:30:45.93	57:12:00.1 <sup>r</sup>	136			8.41 <sup>1</sup>	9.02 <sup>1</sup>	8.6 <sup>e</sup>	8.27	8.13 <sup>e</sup>	8.500 (24)	8.581 (27)	8.579 (21) <sup>f</sup>	B1.5 <sup>P</sup>	V <sup>P</sup>		-3.3 (0.7)	-4.7 (0.6)	-2.4 (0.5)	-4.1 (0.8)			
1601	21:38:26.29	56:58:25.3 <sup>r</sup>	171			6.76 <sup>1</sup>	7.54 <sup>1</sup>	7.42 <sup>1</sup>			7.187 (24)	7.193 (42)	7.234 (31) <sup>f</sup>	O9.5-B0 <sup>P</sup>	V <sup>P</sup>		-5.7 (1.3)	-5.9 (1.3)	-4.6 (1.7)	-0.9 (3.1)			
1602	21:43:24.46	57:01:23.3 <sup>r</sup>	207			8.56 <sup>1</sup>	9.18 <sup>1</sup>	8.92 <sup>1</sup>			8.354 (24)	8.344 (44)	8.350 (44) <sup>f</sup>	B1 <sup>P</sup>	V <sup>P</sup>		-2.6 (0.7)	-5.9 (0.7)	-2.4 (0.8)	-5.6 (0.8)			
1603	21:46:22.58	56:55:02.0 <sup>r</sup>	225			9.54 <sup>1</sup>	9.89 <sup>1</sup>	9.21 <sup>1</sup>			7.620 (21)	7.460 (44)	7.363 (20) <sup>f</sup>	B0.5 <sup>P</sup>	V <sup>P</sup>		-5.2 (0.8)	-2.4 (0.7)	-6.4 (0.6)	-2.7 (0.6)			
1604	21:31:38.40	57:30:09.1 <sup>r</sup>	401			7.54 <sup>1</sup>	8 <sup>1</sup>	7.42 <sup>1</sup>			5.914 (24)	5.741 (31)	5.589 (20) <sup>f</sup>	B0 <sup>P</sup>	Ib <sup>P</sup>		-4.6 (0.5)	-2.9 (0.5)	-2.2 (1.9)	-2.8 (3.8)			
1605	21:34:40.91	57:28:56.7 <sup>r</sup>	421			9.49 <sup>1</sup>	9.43 <sup>1</sup>	9.32 <sup>1</sup>			8.993 (39)	8.970 (26)	8.962 (20) <sup>f</sup>	A1 <sup>P</sup>	V <sup>P</sup>		0 (1.2)	6.5 (1.2)	-2.3 (0.7)	4.8 (0.8)			
1606	21:29:53.46	57:48:57.2 <sup>r</sup>	677			9.17 <sup>1</sup>	9.6 <sup>1</sup>	8.42 <sup>e</sup>	7.97	7.74 <sup>e</sup>	8.707 (18)	8.747 (28)	8.710 (22) <sup>f</sup>	B3 <sup>P</sup>	IV <sup>P</sup>		-4.2 (0.8)	-3.5 (0.8)	-4.5 (0.7)	-4.5 (1.2)			
1607	21:30:33.41	58:01:51.3 <sup>r</sup>	682			9.84 <sup>1</sup>	10.27 <sup>1</sup>	9.97 <sup>1</sup>			9.366 (22)	9.369 (29)	9.330 (18) <sup>f</sup>	B5 <sup>P</sup>	III <sup>P</sup>		-12.4 (2)	-0.3 (2)	-4.5 (1.2)	-3.6 (0.6)			
1608	21:31:25.94	57:53:56.5 <sup>r</sup>	686			9.33 <sup>1</sup>	9.75 <sup>1</sup>	9.56 <sup>e</sup>	9.08	8.52 <sup>e</sup>	9.044 (25)	9.058 (32)	9.057 (0) <sup>f</sup>	B3 <sup>P</sup>	V <sup>P</sup>		-4.9 (1.3)	-2.3 (1.2)					
1609	21:36:59.64	58:08:24.6 <sup>r</sup>	710			8.72 <sup>1</sup>	9.03 <sup>1</sup>	8.61 <sup>1</sup>			7.542 (21)	7.478 (18)	7.284 (18) <sup>f</sup>	B2-3 <sup>P</sup>	IV-V <sup>P</sup>		-6.6 (0.7)	-7.5 (0.7)	-6.4 (0.6)	-8 (0.6)			
1610	21:4																						

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments	
		J2000	DA	2004												mag	PPMXL mas/yr	mas/yr	UCAC3 mas/yr	mas/yr	MVA [j] mas/yr mas/yr			
	hh:mm:ss.ss	dd:mm:ss.s			mag	mag	mag	mag	mag	mag	mag	mag	mag											
1615	21:28:57.77	58:44:23.3 <sup>T</sup>			8.60 <sup>l</sup>	8.73 <sup>l</sup>	9.29 <sup>SE</sup>	8.94	8.8 <sup>SE</sup>	6.472 (20)	6.356 (21)	6.319 (16) <sup>F</sup>		O9.5-B0 <sup>P</sup>	V <sup>P</sup>		-1.6 (1.2)	-5.1 (1.2)					[m] colors inconsistent, outFoV	
1616	21:37:38.77	58:45:30.2 <sup>T</sup>			7.80 <sup>l</sup>	7.78 <sup>l</sup>	7.67 <sup>l</sup>			7.241 (24)	7.212 (46)	7.191 (17) <sup>F</sup>		B9.5 <sup>P</sup>	V <sup>P</sup>		-2.5 (0.5)	-7.3 (0.5)	-2.5 (0.6)	-7.6 (0.6)			outFoV	
1617	21:38:14.06	59:10:03.1 <sup>T</sup>			10.08 <sup>l</sup>	10.22 <sup>l</sup>	8.82 <sup>SE</sup>	8.53	8.48 <sup>SE</sup>	8.196 (29)	8.045 (49)	8.036 (31) <sup>F</sup>		B2 <sup>P</sup>	IV <sup>P</sup>		-4.6 (0.8)	-4.5 (0.8)	-4.4 (0.6)	-5.1 (1.6)			outFoV	
1618	21:43:22.61	58:50:42.3 <sup>T</sup>			9.86 <sup>l</sup>	10.22 <sup>l</sup>	9.89 <sup>l</sup>			9.044 (23)	8.975 (40)	8.979 (22) <sup>F</sup>		B2 <sup>P</sup>	V <sup>P</sup>		-4.4 (1.3)	-3.5 (1.2)	-5 (0.6)	-2.7 (0.7)			outFoV	
1619	21:43:30.45	58:46:48.1 <sup>T</sup>			8.79 <sup>l</sup>	6.42 <sup>l</sup>	4.07 <sup>l</sup>	2.07	0.34 <sup>O</sup>	-0.326 (204)	-1.264 (180)	-1.620 (160) <sup>F</sup>		G5/M2 <sup>P</sup>	Ib/Ia <sup>P</sup>		3.5 (1.3)	-9.4 (1.3)					outFoV	
1620	21:44:34.01	59:03:25.7 <sup>T</sup>			9.22 <sup>l</sup>	9.76 <sup>l</sup>	9.51 <sup>l</sup>			8.850 (20)	8.819 (33)	8.691 (18) <sup>F</sup>		B2 <sup>P</sup>	III-IV <sup>P</sup>		0.6 (0.8)	0.7 (0.8)	-1.9 (1)	1.1 (1.2)			outFoV	
1621	21:48:40.74	58:59:01.2 <sup>T</sup>								10.299 (28)	10.255 (36)	10.184 (26) <sup>F</sup>		B9 <sup>P</sup>	V <sup>P</sup>		-6.7 (2)	-6.6 (2.1)	-3.8 (2)	-6.7 (0.9)			outFoV	
1622	21:27:32.59	59:17:40.7 <sup>T</sup>								8.010 (21)	7.918 (27)	7.749 (1) <sup>F</sup>		B2 <sup>P</sup>	V <sup>P</sup>		-2.8 (0.7)	-3.4 (0.7)	-2.2 (0.6)	-3.9 (0.6)			outFoV	
1623	21:32:20.70	59:34:21.0 <sup>T</sup>								7.128 (24)	7.034 (27)	7.043 (17) <sup>F</sup>		B1.5 <sup>P</sup>	V <sup>P</sup>		-3.2 (1.3)	-0.7 (1.4)					outFoV	
1624	21:34:22.58	59:28:43.9 <sup>T</sup>								7.733 (27)	7.510 (34)	7.222 (33) <sup>F</sup>		B2 <sup>P</sup>	III <sup>P</sup>		-2 (1.2)	-2 (1.3)	-3.7 (0.7)	-3.3 (1.7)			outFoV	
1625	21:47:39.80	59:42:01.4 <sup>T</sup>			6.98 <sup>l</sup>	7.62 <sup>l</sup>	7.29 <sup>l</sup>			6.761 (41)	6.756 (24)	6.760 (15) <sup>F</sup>		O9.5-B0 <sup>P</sup>	V <sup>P</sup>		-2.3 (0.6)	-2.6 (0.5)	-2.9 (0.6)	-1.6 (0.6)			outFoV	
1626	21:25:58.39	60:09:42.8 <sup>T</sup>								9.321 (39)	9.273 (42)	9.192 (32) <sup>F</sup>		B5 <sup>P</sup>	V <sup>P</sup>		-25.6 (1.6)	-9.4 (1.2)	-13 (3.2)	-6 (1.4)			outFoV	
1627	21:25:26.63	58:09:06.4 <sup>T</sup>			16.21 <sup>k</sup>	15.63 <sup>k</sup>	14.61 <sup>n</sup>			12.305 (27)	11.906 (29)	11.747 (42) <sup>F</sup>					-24.2 (3.9)	-12.1 (3.9)	-62.8 (7.2)	-17.6 (7.3)			outFoV	
1628	21:25:51.06	58:11:03.4 <sup>T</sup>				16.33 <sup>k</sup>	14.92 <sup>n</sup>			11.374 (23)	10.608 (23)	10.364 (19) <sup>F</sup>					0 (3.9)	3.3 (3.9)	-9.7 (7.3)	-1.2 (7.2)			outFoV	
1629	21:26:24.84	57:52:51.4 <sup>T</sup>				17.34 <sup>k</sup>	15.62 <sup>n</sup>			11.397 (22)	10.472 (19)	10.174 (17) <sup>F</sup>					-2.9 (3.9)	2.5 (3.9)	-9.1 (7.3)	23.7 (7.4)			outFoV	
1630	21:26:37.78	57:57:31.8 <sup>T</sup>				16.5 <sup>k</sup>	15.9 <sup>n</sup>			13.441 (39)	12.954 (42)	12.839 (47) <sup>F</sup>					-7.3 (3.9)	-4.7 (3.9)					outFoV	
1631	21:26:39.92	57:46:17.8 <sup>T</sup>				17.5 <sup>k</sup>	16.5 <sup>n</sup>			11.209 (21)	10.179 (17)	9.873 (15) <sup>F</sup>					3.7 (4.7)	-1.5 (4.7)	-22.3 (7.2)	4.9 (7)			outFoV	
1632	21:27:58.14	57:08:57.8 <sup>T</sup>				17.32 <sup>k</sup>	15.52 <sup>n</sup>			10.693 (20)	9.655 (18)	9.312 (19) <sup>F</sup>					0.5 (5.1)	-5.3 (5.1)	-13 (6.9)	0.4 (6.9)			outFoV	
1633	21:28:04.33	57:02:32.7 <sup>T</sup>			16.17 <sup>k</sup>	16.12 <sup>k</sup>	14.83 <sup>n</sup>			12.455 (23)	11.945 (21)	11.799 (25) <sup>F</sup>					5.3 (4.2)	4 (4.2)	-16.9 (6.8)	-1.4 (6.8)			outFoV	
1634	21:28:33.73	56:28:39.9 <sup>T</sup>				15.81 <sup>k</sup>	14.1 <sup>n</sup>			10.880 (23)	10.128 (19)	9.881 (15) <sup>F</sup>		K7 <sup>q</sup>			5.5 (5.2)	-2 (5.2)	8.1 (7.2)	-1.8 (7.1)			outFoV	
1635	21:29:03.33	57:53:27.2 <sup>m</sup>				17.36 <sup>k</sup>	15.07 <sup>n</sup>																	outFoV
1636	21:29:08.17	57:30:24.4 <sup>T</sup>			16.43 <sup>k</sup>	15.94 <sup>k</sup>	14.58 <sup>n</sup>			11.715 (21)	11.215 (19)	11.005 (19) <sup>F</sup>					6.8 (4)	0.5 (4)	12.2 (6.3)	17 (6.3)			outFoV	
1637	21:29:06.58	58:33:35.2 <sup>T</sup>				17.4 <sup>k</sup>	15.97 <sup>n</sup>			12.348 (20)	11.459 (18)	11.255 (17) <sup>F</sup>					1.3 (3.9)	1.4 (3.9)	-5.3 (7.7)	-0.2 (7.8)			outFoV	
1638	21:29:36.54	58:30:07.2 <sup>T</sup>				16.21 <sup>k</sup>	14.63 <sup>n</sup>			11.648 (22)	10.998 (28)	10.802 (21) <sup>F</sup>					-2.9 (3.8)	-3.2 (3.8)	-10.5 (7.3)	-6.5 (7.2)			outFoV	
1639	21:29:47.51	57:26:52.0 <sup>T</sup>			16.80 <sup>k</sup>	15.6 <sup>k</sup>	13.92 <sup>n</sup>			10.992 (23)	10.316 (28)	10.141 (22) <sup>F</sup>					3.2 (4.1)	12.2 (4.1)	1.7 (7.2)	5.3 (7.2)			outFoV	
1640	21:29:57.92	56:26:57.9 <sup>T</sup>					15.4 <sup>n</sup>			10.317 (22)	9.271 (26)	8.909 (22) <sup>F</sup>					2.4 (5.1)	-5.8 (5.1)	-6.5 (7.1)	-6.2 (7.5)			outFoV	
1641	21:30:15.27	56:58:48.0 <sup>T</sup>					17.29 <sup>k</sup>	15.23 <sup>n</sup>		10.968 (22)	10.093 (28)	9.750 (22) <sup>F</sup>		M3 <sup>q</sup>			1.5 (5.1)	-1.1 (5.1)	1.9 (6.8)	-23 (6.8)			outFoV	
1642	21:04:17.62	57:03:06.0 <sup>m</sup>				15.95 <sup>k</sup>	15.54 <sup>k</sup>	14.47 <sup>n</sup>									0.7 (8)	0 (8)					[m] wrong, outFoV	
1643	21:30:27.20	56:58:40.3 <sup>T</sup>			16.61 <sup>k</sup>	16.1 <sup>k</sup>	14.74 <sup>n</sup>			12.815 (28)	12.433 (38)	12.257 (34) <sup>F</sup>		F4 <sup>q</sup>			-61.9 (19.1)	-40.6 (19.1)					outFoV	
1644	21:30:29.24	58:31:07.7 <sup>T</sup>				17 <sup>k</sup>	15.16 <sup>n</sup>			10.680 (23)	9.617 (28)	9.274 (21) <sup>F</sup>					1 (4.7)	-4.1 (4.7)	-3.2 (7.3)	-6.5 (7.4)			outFoV	
1645	21:30:46.23	59:04:09.8 <sup>T</sup>				16.12 <sup>k</sup>	15.47 <sup>n</sup>			11.906 (22)	11.207 (28)	10.965 (23) <sup>F</sup>					-1.5 (3.8)	-5.8 (3.8)	-7.6 (7.6)	-2.6 (7.6)			outFoV	
1646	21:30:50.93	57:21:43.2 <sup>T</sup>			16.11 <sup>k</sup>	15.5 <sup>k</sup>	14.82 <sup>n</sup>			12.747 (25)	12.471 (28)	12.326 (24) <sup>F</sup>					1.1 (4.1)	7.1 (4.1)	1.9 (6.8)	6.1 (6.8)			outFoV	
1647	21:31:02.33	59:06:05.0 <sup>T</sup>				16.78 <sup>k</sup>	15.78 <sup>n</sup>			13.228 (26)	12.736 (33)	12.618 (29) <sup>F</sup>					-6.6 (3.8)	-10.1 (3.8)	-13.5 (8.1)	-7.9 (10)			outFoV	
1648	21:31:26.37	59:08:10.4 <sup>T</sup>				16.2 <sup>k</sup>	15.27 <sup>n</sup>			11.812 (24)	11.046 (32)	10.773 (23) <sup>F</sup>					-0.3 (3.8)	-31.9 (3.8)	-18.1 (7.7)	-34.8 (7.2)			outFoV	
1649	21:31:34.39	57:12:52.1 <sup>m</sup>			15.20 <sup>k</sup>	14.3 <sup>k</sup>	13.14 <sup>n</sup>																	outFoV
1650	21:31:35.83	56:57:47.7 <sup>T</sup>			16.63 <sup>k</sup>	16.13 <sup>k</sup>	14.7 <sup>n</sup>			12.112 (21)	11.676 (26)	11.495 (22) <sup>F</sup>					3.2 (4.1)	0.2 (4.1)	2.9 (6.8)	10.7 (6.8)			outFoV	
1651	21:31:43.32	56:37:55.9 <sup>T</sup>				16.5 <sup>k</sup>	14.45 <sup>n</sup>			10.406 (21)	9.495 (31)	9.156 (20) <sup>F</sup>		M0 <sup>q</sup>			5.5 (5.1)	-5.5 (5.1)	53.7 (6.9)	-37 (6.9)			outFoV	
1652	21:31:37.63	59:08:29.3 <sup>T</sup>					17 <sup>n</sup>			13.143 (24)	12.515 (32)	12.249 (25) <sup>F</sup>					-2.6 (3.8)	-3.3 (3.8)	-3.7 (8.2)	-13.5 (8.3)			outFoV	
1653	21:31:46.08	56:37:53.5 <sup>T</sup>				16.68 <sup>k</sup>	14.94 <sup>n</sup>			11.269 (23)	10.557 (30)	10.284 (20) <sup>F</sup>					-0.9 (4.1)	-0.2 (4.1)	-5.4 (6.8)	2.3 (6.8)			outFoV	
1654	21:32:02.65	56:36:18.9 <sup>T</sup>				16.56 <sup>k</sup>	14.59 <sup>n</sup>			10.928 (23)	10.132 (31)	9.830 (22) <sup>F</sup>					1.5 (5.1)	-9.3 (5.1)	9.5 (7)	-43.5 (6.9)			outFoV	
1655	21:32:28.79	57:43:31.8 <sup>T</sup>			16.22 <sup>k</sup>	16.79 <sup>k</sup>	15.74 <sup>n</sup>			13.165 (32)	12.709 (42)	12.485 (33) <sup>F</sup>					-11.7 (4)	-9.1 (4)	-56.9 (7.1)	-23 (9.1)			outFoV	
1656	21:33:07.73	56:16:19.1 <sup>m</sup>				17.18 <sup>k</sup>	15.71 <sup>n</sup>																	outFoV
1657	21:33:11.98	56:19:56.2 <sup>T</sup>			16.03 <sup>k</sup>	15.02 <sup>k</sup>	14.52 <sup>n</sup>			11.724 (25)	11.436 (30)	11.300 (24) <sup>F</sup>					1.9 (4.1)	2.7 (4.1)	4 (6.9)	20.1 (6.9)			outFoV	
1658	21:33:19.74	56:25:34.8 <sup>T</sup>					14.91 <sup>n</sup>			16.328 (124)	15.579 (158)	15.456 (196) <sup>F</sup>											outFoV	
1659	21:33:29.70	57:56:28.2 <sup>T</sup>			16.05 <sup>k</sup>	15.75 <sup>k</sup>	14.52 <sup>n</sup>			12.368 (24)	11.986 (28)	11.862 (23) <sup>F</sup>					-1 (3.8)	0.4 (3.8)	-3.1 (7.3)	-0.1 (7.3)			outFoV	
1660	21:33:33.90	56:22:55.9 <sup>T</sup>					17 <sup>n</sup>			10.003 (23)	8.768 (28)	8.314 (21) <sup>F</sup>					1.4 (5.1)	-6.4 (5.1)					outFoV	
1661	21:33:42.90	56:48:27.8 <sup>T</sup>					15.19 <sup>n</sup>			11.352 (23)	10.529 (28)	10.242 (21) <sup>F</sup>					-3.9 (4.1)	-1.4 (4.1)	-12.6 (7)	2.4 (6.9)			outFoV	
1662	21:33:47.96	56:51:11.9 <sup>T</sup>				16.34 <sup>k</sup>	14.89 <sup>n</sup>			12.907 (26)	12.374 (32)	12.292 (25) <sup>F</sup>					1.3 (4.1)	-5.4 (4.1)	5.3 (6.8)	-1.5 (6.9)			outFoV	
1663	21:34:03.33	58:05:17.8 <sup>T</sup>			15.99 <sup>k</sup>	15.59 <sup>k</sup>	14.87 <sup>n</sup>			12.809 (26)	12.493 (35)	12.304 (28) <sup>F</sup>					-7.3 (3.8)	-5.5 (3.8)	-19.7 (8.2)	-14.9 (8.3)			outFoV	
1664	21:34:13.33	57:00:48.6 <sup>T</sup>			16.05 <sup>k</sup>	15.87 <sup>k</sup>	14.83 <sup>n</sup>			12.638 (25)	12.238 (34)	12.099 (26) <sup>F</sup>					2.9 (4.1)	2.6 (4.1)	4.2 (6.8)	14.6 (6.8)			outFoV	
1665	21:34:18.21	57:14:32.6 <sup>T</sup>			14.66 <sup>k</sup>	14.25 <sup>k</sup>	14.14 <sup>n</sup>			12.670 (52)	12.469 (35)	12.412 (31) <sup>F</sup>					-149.5 (13.3)	48.8 (13.3)					near 1072	
1666	21:34:25.33	56:48:58.7 <sup>T</sup>				16.8 <sup>k</sup>	15.12 <sup>n</sup>			11.368 (23)	10.520 (27)	10.320 (24) <sup>F</sup>					-1.5 (4.1)	-1.9 (4.1)	-7.6 (6.9)	4.1 (6.8)				

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	$U$	$B$	$V$	$R$	$I$	$J$	$H$	$K$	SpT	Class	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
		J2000		DA	2004												PPMXL		UCAC3		MVA [j]		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag			mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1668	21:34:34.81	57:14:16.4 <sup>t</sup>				17 <sup>n</sup>						12.502 (24)	11.788 (31)	11.578 (26) <sup>t</sup>			-6.2 (4.1)	-1.4 (4.1)	-17.1 (7)	5.2 (7.1)			
1669	21:34:39.84	57:35:54.5 <sup>t</sup>						16.5 <sup>n</sup>				11.706 (22)	10.751 (26)	10.447 (21) <sup>t</sup>			2.3 (3.8)	-1.6 (3.8)	-11.1 (7.1)	5.5 (7.1)			
1670	21:34:47.44	56:34:30.1 <sup>t</sup>				16.75 <sup>k</sup>	15.32 <sup>k</sup>	14.26 <sup>n</sup>				11.747 (24)	11.373 (28)	11.226 (22) <sup>t</sup>			-5.8 (4.1)	-4.8 (4.1)	-3.7 (6.8)	2 (6.8)			Simbad wrong, outFoV
1671	21:35:03.30	56:38:11.6 <sup>t</sup>				16.31 <sup>k</sup>	15.9 <sup>k</sup>	14.04 <sup>n</sup>				12.131 (21)	11.679 (29)	11.528 (23) <sup>t</sup>			-5 (4.1)	1.3 (4.1)	-13.9 (6.8)	6.4 (6.8)			outFoV
1672	21:35:04.46	56:12:11.7 <sup>m</sup>						16.04 <sup>k</sup>	15.47 <sup>n</sup>														outFoV
1673	21:35:19.02	56:34:38.6 <sup>t</sup>				16.18 <sup>k</sup>	15.42 <sup>k</sup>	14.21 <sup>n</sup>				11.867 (24)	11.422 (33)	11.282 (26) <sup>t</sup>			17.9 (4.1)	0.9 (4.1)	58.8 (6.8)	16.1 (6.8)			outFoV
1674	21:35:16.75	57:45:10.1 <sup>t</sup>						15.1 <sup>n</sup>				12.537 (24)	11.691 (29)	11.413 (23) <sup>t</sup>			-5.9 (4)	-6.6 (4)	-0.8 (8.8)	2.2 (8.6)			
1675	21:35:21.63	56:18:20.4 <sup>t</sup>				16.92 <sup>k</sup>	16.41 <sup>k</sup>	15.31 <sup>n</sup>				12.885 (48)	12.472 (68)	12.285 (30) <sup>t</sup>			-16 (4.1)	16.4 (4.1)	-59.1 (7.1)	71.5 (7)			outFoV
1676	21:35:21.56	57:45:14.4 <sup>t</sup>						15.1 <sup>n</sup>				12.000 (24)	11.142 (28)	10.827 (21) <sup>t</sup>			-7.3 (3.8)	-3 (3.8)	-5.6 (7.7)	-12.8 (8.7)			
1677	21:35:32.31	56:23:21.4 <sup>t</sup>					17.04 <sup>k</sup>	15.12 <sup>n</sup>				11.241 (24)	10.442 (30)	10.187 (20) <sup>t</sup>			6.5 (4.1)	-1.7 (4.1)	-2.5 (6.9)	3.4 (6.9)			outFoV
1678	21:35:33.34	56:50:51.5 <sup>t</sup>				16.27 <sup>k</sup>	15.73 <sup>k</sup>	14.09 <sup>n</sup>				12.098 (32)	11.669 (41)	11.519 (24) <sup>t</sup>			27.3 (4.1)	8.7 (4.1)					
1679	21:35:39.15	57:02:04.3 <sup>t</sup>				16.06 <sup>k</sup>	15.37 <sup>k</sup>	14.08 <sup>n</sup>				12.560 (27)	12.216 (32)	12.064 (25) <sup>t</sup>			200.5 (7.6)	-268.8 (7.6)	-0.2 (6.8)	-10.6 (6.8)			
1680	21:35:42.03	56:07:07.4 <sup>t</sup>					16.5 <sup>k</sup>	15.97 <sup>n</sup>				11.251 (24)	10.377 (29)	10.040 (21) <sup>t</sup>			1.6 (4.1)	-5.5 (4.1)	-6 (7.1)	8.5 (7.2)			outFoV
1681	21:35:42.67	56:49:19.1 <sup>t</sup>				16.03 <sup>k</sup>	15.83 <sup>k</sup>	14.48 <sup>n</sup>				12.403 (0)	12.004 (43)	11.809 (0) <sup>t</sup>			-2.2 (4.1)	2.5 (4.1)					
1682	21:35:48.64	57:20:28.3 <sup>t</sup>				16.13 <sup>k</sup>	16.32 <sup>f</sup>	15.16 <sup>e</sup>				13.341 (24)	12.953 (32)	12.831 (29) <sup>t</sup>	F9 <sup>e</sup>	1.9 <sup>e</sup>	-5.1 (4.1)	2.7 (4.1)	-3.7 (6.9)	2 (7)			
1683	21:35:51.43	57:15:19.7 <sup>t</sup>						16.5 <sup>n</sup>				13.800 (31)	13.395 (39)	13.268 (42) <sup>t</sup>			-3 (4.1)	1.8 (4.1)	-2.4 (6.8)	25.7 (7.1)			
1684	21:35:56.56	57:05:04.6 <sup>t</sup>				16.31 <sup>k</sup>	15.4 <sup>k</sup>	14.25 <sup>n</sup>				12.511 (24)	12.047 (29)	11.914 (23) <sup>t</sup>			11.4 (4.1)	2 (4.1)	4.6 (6.8)	35.7 (6.8)			
1685	21:35:58.75	57:03:14.5 <sup>m</sup>				15.86 <sup>k</sup>	15.41 <sup>k</sup>	14.48 <sup>n</sup>															no star
1686	21:35:58.74	59:11:07.5 <sup>t</sup>				17.30 <sup>k</sup>	16.31 <sup>k</sup>	15.47 <sup>n</sup>				12.985 (24)	12.585 (29)	12.450 (28) <sup>t</sup>			-3.4 (3.8)	-5.3 (3.8)	-14.9 (7.8)	-3.5 (7.6)			outFoV
1687	21:36:13.29	56:15:47.2 <sup>t</sup>					16.16 <sup>k</sup>	15.42 <sup>n</sup>				12.074 (0)	11.465 (0)	11.262 (27) <sup>t</sup>			0.3 (4.1)	0.5 (4.1)	2.5 (6.2)	18.8 (6.8)			outFoV
1688	21:36:13.90	59:04:37.2 <sup>t</sup>					15.97 <sup>k</sup>	14.84 <sup>n</sup>				12.845 (45)	12.469 (51)	12.339 (45) <sup>t</sup>			-24.5 (3.8)	1.2 (3.8)					outFoV
1689	21:36:17.27	59:06:52.4 <sup>t</sup>				16.90	17.1 <sup>k</sup>	15.89 <sup>n</sup>				11.524 (24)	10.562 (27)	10.284 (21) <sup>t</sup>			1 (3.8)	-3.3 (3.8)	-6.8 (7.6)	0.5 (8.4)			outFoV
1690	21:36:19.58	58:48:48.4 <sup>t</sup>						15.9 <sup>k</sup>	15.16 <sup>n</sup>			12.111 (26)	11.260 (29)	11.016 (22) <sup>t</sup>			-0.1 (3.8)	-21.9 (3.8)	-0.3 (7.5)	-16.2 (7.6)			outFoV
1691	21:36:33.23	59:01:02.1 <sup>t</sup>						16.3 <sup>n</sup>				12.744 (27)	12.439 (32)	12.317 (26) <sup>t</sup>			-1.2 (3.8)	-3 (3.8)	-4 (7.3)	-3.3 (7.4)			outFoV
1692	21:36:51.82	57:59:05.7 <sup>t</sup>						16.3 <sup>n</sup>				12.105 (39)	11.721 (46)	11.578 (38) <sup>t</sup>			6.2 (3.8)	1.4 (3.8)	1.9 (7.8)	14.8 (7.7)			
1693	21:37:00.91	58:47:30.3 <sup>t</sup>				16.38 <sup>k</sup>	15.21 <sup>k</sup>	14.1 <sup>n</sup>				12.105 (39)	11.721 (46)	11.578 (38) <sup>t</sup>			-33.3 (3.8)	-1.5 (3.8)					outFoV
1694	21:37:07.08	58:07:18.3 <sup>t</sup>					16.7 <sup>k</sup>	15.05 <sup>n</sup>				11.330 (19)	10.535 (28)	10.268 (26) <sup>t</sup>			-3.4 (3.8)	-9.6 (3.8)	-11.1 (10.4)	8.4 (9.7)			
1695	21:37:54.88	56:38:38.3 <sup>t</sup>				14.53 <sup>k</sup>	14.78 <sup>k</sup>	14.08 <sup>n</sup>				12.521 (27)	12.277 (29)	12.175 (18) <sup>t</sup>			-2.8 (4)	-0.1 (4)	-7.7 (6.8)	4.1 (6.8)			outFoV
1696	21:37:59.28	58:41:24.1 <sup>t</sup>						16.4 <sup>n</sup>				11.923 (26)	11.037 (30)	10.697 (18) <sup>t</sup>			-8 (3.8)	-9.5 (3.8)	-5 (7.5)	-5.8 (7.5)			outFoV
1697	21:38:11.68	59:10:48.7 <sup>t</sup>						16.5 <sup>n</sup>				11.897 (27)	10.853 (27)	10.572 (20) <sup>t</sup>			-2.9 (3.8)	-6.8 (3.8)	-4.9 (8.1)	-2.6 (9.9)			outFoV, [m] wrong
1698	21:38:26.03	56:10:27.2 <sup>t</sup>						16.3 <sup>n</sup>				13.161 (41)	12.752 (51)	12.565 (39) <sup>t</sup>			9.2 (4)	12 (4)					outFoV
1699	21:38:22.13	59:10:40.2 <sup>t</sup>				16.96 <sup>k</sup>	16.04 <sup>k</sup>	14.58 <sup>n</sup>				11.951 (26)	11.442 (28)	11.306 (24) <sup>t</sup>			-5.3 (3.8)	-9.1 (3.8)	-7.7 (7.1)	-7.9 (7.2)			outFoV
1700	21:38:40.21	58:11:10.4 <sup>t</sup>						15.61 <sup>n</sup>				11.241 (26)	10.247 (32)	9.932 (19) <sup>t</sup>			-2.1 (4.7)	-5.9 (4.7)	-9.4 (8.1)	-14.9 (7.4)			
1701	21:38:42.32	57:30:27.8 <sup>t</sup>						15.5 <sup>n</sup>				9.748 (23)	8.087 (40)	6.960 (18) <sup>t</sup>			-6.2 (4.9)	0 (4.9)	-7.7 (6.4)	2.5 (6.5)			
1702	21:39:07.73	55:57:58.8 <sup>t</sup>					15.54 <sup>k</sup>	14.49 <sup>n</sup>				13.222 (0)	12.950 (41)	12.804 (45) <sup>t</sup>			6.3 (4)	-35.5 (4)					outFoV
1703	21:39:13.28	56:05:24.4 <sup>t</sup>				15.06 <sup>k</sup>	15.3 <sup>k</sup>	14.49 <sup>n</sup>				12.999 (26)	12.895 (33)	12.711 (36) <sup>t</sup>			-0.4 (4)	2.3 (4)	-3.7 (6.8)	0.7 (6.8)			outFoV
1704	21:39:40.12	58:15:01.7 <sup>t</sup>					16.85 <sup>k</sup>	15.61 <sup>n</sup>				12.305 (0)	11.456 (0)	11.180 (0) <sup>t</sup>			2.8 (3.8)	-6.2 (3.8)	-12.6 (7.8)	10.7 (8.3)			
1705	21:40:00.16	58:55:11.5 <sup>t</sup>					16.85 <sup>k</sup>	15.05 <sup>n</sup>				11.232 (24)	10.392 (29)	10.097 (21) <sup>t</sup>			-3.8 (3.8)	-10.1 (3.8)	-8.8 (7.3)	-13.2 (7.3)			outFoV
1706	21:40:27.41	57:31:45.3 <sup>t</sup>					16.6 <sup>k</sup>	14.98 <sup>n</sup>				10.937 (24)	9.924 (28)	9.619 (21) <sup>t</sup>	M1 <sup>q</sup>		-0.6 (4.9)	-9.2 (4.9)	-7.7 (7.3)	-13.2 (7.4)			
1707	21:40:47.53	56:40:45.2 <sup>t</sup>					16.74 <sup>k</sup>	15.16 <sup>n</sup>				11.742 (26)	10.916 (28)	10.684 (19) <sup>t</sup>			-3 (4.1)	1.5 (4.1)	-7.8 (6.9)	9 (6.9)			outFoV
1708	21:40:48.51	57:40:01.2 <sup>t</sup>				16.22 <sup>k</sup>	16.46 <sup>k</sup>	15.04 <sup>n</sup>				13.020 (24)	12.579 (35)	12.499 (30) <sup>t</sup>			33 (3.9)	-71.6 (3.9)	14.3 (7.4)	-47.8 (7.8)			
1709	21:41:02.55	57:59:32.3 <sup>t</sup>					16.55 <sup>k</sup>	15.34 <sup>n</sup>				11.883 (21)	11.068 (31)	10.846 (22) <sup>t</sup>	G2:q		-1.3 (3.8)	-10.7 (3.8)	19.3 (8.2)	-85.3 (8.8)			[m] wrong
1710	21:41:04.08	58:59:34.8 <sup>t</sup>					15.73 <sup>k</sup>	14.5 <sup>n</sup>				11.741 (21)	11.076 (32)	10.837 (20) <sup>t</sup>			6.4 (3.8)	-3.2 (3.8)	38.5 (7.3)	-7.6 (7.4)			outFoV
1711	21:41:21.52	59:20:55.2 <sup>t</sup>					15.13 <sup>k</sup>	14.49 <sup>n</sup>				12.797 (25)	12.269 (29)	12.201 (23) <sup>t</sup>			7.3 (3.8)	-13.2 (3.8)	9.7 (8)	-11 (8)			outFoV
1712	21:41:24.48	58:12:56.4 <sup>t</sup>					16.6 <sup>k</sup>	15.54 <sup>n</sup>				12.945 (24)	12.490 (31)	12.299 (24) <sup>t</sup>			-3.7 (3.8)	-5 (3.8)	-8 (7.6)	-11.4 (7.4)			
1713	21:41:39.56	58:13:21.9 <sup>t</sup>					16.86 <sup>k</sup>	14.67 <sup>n</sup>				10.232 (26)	9.244 (32)	8.865 (21) <sup>t</sup>	G9 <sup>q</sup>		6.3 (4.8)	-5.1 (4.8)	9.5 (6.8)	-22.2 (6.8)			
1714	21:41:39.80	58:11:50.3 <sup>t</sup>				14.71 <sup>k</sup>	14.99 <sup>k</sup>	13.81 <sup>n</sup>				11.726 (24)	11.300 (32)	11.163 (33) <sup>t</sup>	G0 <sup>q</sup>		-12.2 (3.8)	9.3 (3.8)	-3.8 (7.2)	2.4 (7.2)			
1715	21:41:55.21	58:09:27.4 <sup>t</sup>					17 <sup>k</sup>	16 <sup>n</sup>				13.587 (32)	13.135 (35)	12.958 (32) <sup>t</sup>			-1.3 (3.8)	-12.7 (3.8)	12.2 (7.9)	-27.2 (7.9)			
1716	21:42:04.06	57:03:59.1 <sup>t</sup>					16.86 <sup>k</sup>	14.77 <sup>n</sup>				11.180 (26)	10.408 (32)	10.100 (22) <sup>t</sup>			-0.7 (4.1)	-7.8 (4.1)	-2.9 (6.9)	5.6 (6.9)			
1717	21:42:11.63	57:37:08.5 <sup>t</sup>						15 <sup>n</sup>				11.127 (24)	10.121 (30)	9.757 (21) <sup>t</sup>			-4.2 (4.7)	-3.4 (4.7)	-6.9 (8.3)	-13.4 (7.7)			
1718	21:42:15.33	57:03:51.4 <sup>t</sup>				16.13 <sup>k</sup>	16 <sup>k</sup>	14.95 <sup>n</sup>				13.213 (29)	12.932 (32)	12.828 (34) <sup>t</sup>			-9.9 (4.1)	-6.1 (4.1)	-19.3 (7)	5.1 (7)			
1719	21:42:16.06	58:01:12.9 <sup>t</sup>						17.13 <sup>k</sup>	15.36 <sup>n</sup>			11.613 (26)	10.778 (32)	10.504 (21) <sup>t</sup>	K0 <sup>q</sup>		6.1 (3.8)	2.9 (3.8)	48.3 (8.3)	15.3 (8.9)			
1720	21:42:35.03	56:28:10.5 <sup>t</sup>					17.1 <sup>k</sup>	15.2 <sup>n</sup>				11.364 (25)	1										

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA hh:mm:ss.ss	Dec dd:mm:ss.s	MVA	WEB- DA	SHB- U 2004	<i>B</i>	<i>V</i>	<i>R</i>	<i>I</i>	<i>J</i>	<i>H</i>	<i>K</i>	SpT Class	<i>A<sub>v</sub></i>	$\mu_{\alpha}$ PPMXL mas/yr	$\mu_{\delta}$ mas/yr	$\mu_{\alpha}$ UCAC3 mas/yr	$\mu_{\delta}$ mas/yr	$\mu_{\alpha}$ MVA [j] mas/yr	$\mu_{\delta}$ mas/yr	Comments
1721	21:42:44.27	58:59:50.6 <sup>t</sup>	5113			16.05 <sup>k</sup>	15.36 <sup>n</sup>			13.356 (39)	12.847 (47)	12.636 (37) <sup>t</sup>			-5.2 (3.8)	4.1 (3.8)	-35.3 (7.6)	15.1 (7.6)			outFoV
1722	21:43:01.87	56:27:42.1 <sup>t</sup>	5114			15.95 <sup>k</sup>	15.17 <sup>k</sup>	14.34 <sup>n</sup>		12.540 (29)	12.122 (30)	12.044 (23) <sup>t</sup>	F4 <sup>q</sup>		-2.3 (4.1)	1 (4.1)	-11 (6.9)	9.5 (7.1)			outFoV
1723	21:43:04.43	56:28:52.0 <sup>t</sup>	5115			17.28 <sup>k</sup>	15.82 <sup>k</sup>	14.16 <sup>n</sup>		11.065 (27)	10.351 (30)	10.146 (21) <sup>t</sup>	K3 <sup>q</sup>		-7.3 (4.1)	-11 (4.1)	-5.5 (6.9)	-9.7 (6.9)			outFoV
1724	21:43:05.90	57:39:00.1 <sup>t</sup>	5116			16.51 <sup>k</sup>	16.47 <sup>k</sup>	15.55 <sup>n</sup>		13.342 (27)	12.835 (35)	12.701 (30) <sup>t</sup>			-18.5 (3.8)	-15.1 (3.8)	-17.9 (7.5)	-18.8 (7.5)			
1725	21:43:20.72	56:24:20.0 <sup>t</sup>	5117			16.69 <sup>k</sup>	16.63 <sup>k</sup>	15.36 <sup>n</sup>		10.984 (29)	10.033 (31)	9.710 (21) <sup>t</sup>			-6.5 (5.2)	-9.5 (5.2)	-73 (7.4)	-6.2 (7)			outFoV
1726	21:43:21.48	57:30:15.7 <sup>t</sup>	5118			16.61 <sup>k</sup>	14.79 <sup>n</sup>			9.059 (26)	7.611 (36)	7.010 (23) <sup>t</sup>			-8.3 (6.3)	1.1 (6.3)					
1727	21:43:32.55	57:24:01.6 <sup>t</sup>	5119			16.04 <sup>k</sup>	16.09 <sup>k</sup>	14.95 <sup>n</sup>		12.416 (25)	11.797 (31)	11.689 (21) <sup>t</sup>			-22.2 (4.1)	-20.9 (4.1)	-11.8 (7)	-3 (6.9)			
1728	21:43:45.56	57:07:56.7 <sup>t</sup>	5120			15.72 <sup>k</sup>	15.51 <sup>k</sup>	14.54 <sup>n</sup>		12.686 (23)	12.307 (30)	12.142 (21) <sup>t</sup>			-9.1 (4.1)	-5.3 (4.1)	0.7 (6.9)	9.2 (6.9)			
1729	21:43:46.87	59:08:13.4 <sup>t</sup>	5121			16.71 <sup>k</sup>	16.58 <sup>k</sup>	15.24 <sup>n</sup>		11.831 (23)	11.086 (32)	10.754 (21) <sup>t</sup>			-7.2 (3.8)	-5.4 (3.8)	5.9 (7.6)	-1.9 (7.2)			outFoV
1730	21:43:51.15	57:30:25.9 <sup>t</sup>	5122			16.17 <sup>k</sup>	15.94 <sup>k</sup>	15.05 <sup>n</sup>		13.020 (24)	12.705 (32)	12.549 (24) <sup>t</sup>			-4.1 (4)	-1.8 (4)	-2.4 (7.3)	-20.1 (7.3)			
1731	21:44:07.97	59:11:03.5 <sup>t</sup>	5124				16.5 <sup>n</sup>			12.363 (36)	11.554 (46)	11.219 (32) <sup>t</sup>			10.2 (3.8)	4.4 (3.8)	40.6 (8.3)	19.8 (8.2)			outFoV
1732	21:44:15.38	58:25:08.4 <sup>t</sup>	5125			16.93 <sup>k</sup>	16.23 <sup>k</sup>	14.9 <sup>n</sup>		13.349 (26)	13.006 (35)	12.820 (23) <sup>t</sup>			0.9 (3.8)	-7.3 (3.8)	-0.8 (7.4)	-17 (8.2)			outFoV
1733	21:44:25.90	57:08:28.0 <sup>t</sup>	5126				17.4 <sup>k</sup>	15.8 <sup>n</sup>		9.721 (23)	8.444 (24)	8.012 (16) <sup>t</sup>			-4.9 (5.1)	-4.8 (5.1)	33.4 (7)	13.5 (7.1)			
1734	21:44:39.59	57:20:00.6 <sup>t</sup>	5127			15.91 <sup>k</sup>	15.57 <sup>k</sup>	15.08 <sup>n</sup>		13.020 (29)	12.602 (31)	12.462 (28) <sup>t</sup>			2.1 (4.1)	-3.4 (4.1)	22.3 (7.5)	11.6 (7)			
1735	21:44:35.58	59:05:25.5 <sup>t</sup>	5128				16.2 <sup>k</sup>	15.36 <sup>n</sup>		12.232 (27)	11.470 (32)	11.235 (23) <sup>t</sup>			-13.5 (3.8)	-8.4 (3.8)	-11.6 (7.5)	-18 (7.5)			outFoV
1736	21:44:52.38	58:30:43.5 <sup>t</sup>	5129				16.86 <sup>k</sup>	15.3 <sup>n</sup>		11.643 (34)	10.815 (36)	10.562 (29) <sup>t</sup>			2.2 (3.8)	-9.8 (3.8)	-2.6 (7.2)	-13.3 (7.3)			outFoV
1737	21:45:27.46	56:32:25.1 <sup>t</sup>	5130			18.24 <sup>k</sup>	17.35 <sup>k</sup>	15.66 <sup>n</sup>		13.283 (26)	12.884 (32)	12.763 (28) <sup>t</sup>			-5.3 (4.1)	-4.2 (4.1)	-19.7 (6.8)	7.9 (7)			outFoV
1738	21:45:27.22	58:45:00.4 <sup>t</sup>	5131				17.06 <sup>k</sup>	15.42 <sup>n</sup>		11.752 (27)	11.071 (31)	10.886 (22) <sup>t</sup>			-4.4 (3.8)	-1.4 (3.8)	-2.2 (7.3)	-5.3 (7.3)			outFoV
1739	21:45:29.65	58:45:36.4 <sup>t</sup>	5132				16.67 <sup>k</sup>	15.46 <sup>n</sup>		12.595 (29)	11.999 (33)	11.775 (24) <sup>t</sup>			-2.2 (3.8)	0 (3.8)	-2.1 (7.6)	0.3 (7.5)			outFoV
1740	21:45:37.16	56:39:43.2 <sup>t</sup>	5133			16.34 <sup>k</sup>	15.51 <sup>k</sup>	14.73 <sup>n</sup>		12.777 (26)	12.407 (29)	12.273 (19) <sup>t</sup>			-5.9 (4.1)	-8 (4.1)	-24.6 (6.5)	-9.6 (6.6)			outFoV
1741	21:45:39.18	56:39:28.5 <sup>t</sup>	5134			16.81 <sup>k</sup>	16.02 <sup>k</sup>	14.72 <sup>n</sup>		12.768 (24)	12.213 (32)	12.133 (21) <sup>t</sup>			-2.1 (4.1)	-39.5 (4.1)	-15.7 (7.1)	-27.2 (6.6)			outFoV
1742	21:45:34.65	58:46:20.2 <sup>t</sup>	5135			16.24 <sup>k</sup>	15.62 <sup>k</sup>	15.23 <sup>n</sup>		13.481 (25)	13.173 (30)	13.107 (27) <sup>t</sup>			-2.5 (3.8)	-4.4 (3.8)	-2.6 (7.5)	-10 (7.3)			outFoV
1743	21:45:37.56	58:47:02.4 <sup>t</sup>	5136				15.45 <sup>k</sup>	13.9 <sup>n</sup>		11.831 (38)	11.058 (38)	10.833 (27) <sup>t</sup>			5 (5.2)	-9.7 (5.2)					outFoV
1744	21:46:09.84	56:22:14.8 <sup>t</sup>	5137			16.87 <sup>k</sup>	15.4 <sup>k</sup>	14.41 <sup>n</sup>		12.498 (32)	11.999 (32)	11.925 (26) <sup>t</sup>			17.2 (4.1)	1 (4.1)					outFoV
1745	21:46:16.67	56:21:10.7 <sup>t</sup>	5138			16.48 <sup>k</sup>	15.5 <sup>k</sup>	14.29 <sup>n</sup>		12.510 (42)	12.202 (47)	11.934 (30) <sup>t</sup>									outFoV
1746	21:46:40.60	58:02:25.6 <sup>t</sup>	5139			15.62 <sup>k</sup>	15.38 <sup>k</sup>	14.15 <sup>n</sup>		11.853 (29)	11.284 (31)	11.186 (18) <sup>t</sup>			-7.9 (3.8)	-31.4 (3.8)	4.3 (9.7)	-8.3 (10)			outFoV
1747	21:46:41.49	58:15:15.6 <sup>t</sup>	5140			16.55 <sup>k</sup>	15.94 <sup>k</sup>	14.75 <sup>n</sup>		13.184 (50)	12.728 (49)	12.613 (47) <sup>t</sup>			-24.6 (5.1)	13.2 (5.1)	-101.7 (8.9)	57.9 (12.1)			outFoV
1748	21:46:42.88	58:46:35.9 <sup>t</sup>	5141			16.75 <sup>k</sup>	15.94 <sup>k</sup>	14.87 <sup>n</sup>		12.864 (28)	12.310 (32)	12.226 (23) <sup>t</sup>			11.5 (3.8)	-21.7 (3.8)	41.4 (7)	15.5 (7)			outFoV
1749	21:46:47.32	58:25:11.3 <sup>t</sup>	5142			16.32 <sup>k</sup>	16.06 <sup>k</sup>	14.9 <sup>n</sup>		12.923 (26)	12.573 (31)	12.377 (19) <sup>t</sup>			-7.4 (3.8)	-14.3 (3.8)	-0.3 (7.3)	-19.6 (7.3)			outFoV
1750	21:46:56.82	57:10:27.3 <sup>t</sup>	5143				16.4 <sup>k</sup>	15.2 <sup>n</sup>		13.145 (27)	12.662 (31)	12.568 (26) <sup>t</sup>			-1.5 (4.1)	-9.7 (4.1)	-15.8 (6.8)	8 (6.9)			outFoV
1751	21:47:00.76	57:15:20.2 <sup>m</sup>	5144				16.41 <sup>k</sup>	14.59 <sup>n</sup>													outFoV
1752	21:47:15.86	58:00:40.3 <sup>t</sup>	5145				15 <sup>n</sup>			12.084 (23)	11.381 (31)	11.180 (22) <sup>t</sup>			-3.3 (3.8)	-2.6 (3.8)	3.1 (7.7)	-4.2 (7.3)			outFoV
1753	21:48:44.08	57:02:10.6 <sup>t</sup>	5146				16.19 <sup>k</sup>	14.74 <sup>n</sup>		12.280 (24)	11.765 (28)	11.607 (23) <sup>t</sup>			-1.2 (4.1)	-5.5 (4.1)	-9.8 (6.8)	3.4 (6.5)			outFoV
1754	21:48:45.09	57:01:07.9 <sup>t</sup>	5147			17.12 <sup>k</sup>	16.46 <sup>k</sup>	14.98 <sup>n</sup>		13.000 (24)	12.551 (30)	12.445 (24) <sup>t</sup>			-2.8 (4.1)	-0.6 (4.1)	-10.8 (6.5)	7.3 (6.5)			outFoV
1755	21:49:03.24	56:59:26.6 <sup>t</sup>	5148			16.03 <sup>k</sup>	15.98 <sup>k</sup>	14.67 <sup>n</sup>		12.626 (27)	12.189 (30)	11.995 (25) <sup>t</sup>			-12.1 (4.1)	-12.7 (4.1)	-26.3 (6.5)	-16 (6.5)			outFoV
1756	21:49:01.55	58:16:21.9 <sup>t</sup>	5149			16.18 <sup>k</sup>	16.18 <sup>k</sup>	14.28 <sup>n</sup>		12.615 (26)	12.192 (28)	12.109 (23) <sup>t</sup>			8.5 (3.8)	-0.2 (3.8)	2.6 (7.2)	-11.6 (7.2)			outFoV
1757	21:49:11.36	58:12:29.9 <sup>t</sup>	5150			16.32 <sup>k</sup>	16.09 <sup>k</sup>	14.1 <sup>n</sup>		11.755 (26)	10.773 (31)	10.425 (20) <sup>t</sup>			6.2 (3.8)	-3.1 (3.8)	11 (7.7)	-20.2 (10)			outFoV
1758	21:49:11.85	58:15:50.2 <sup>t</sup>	5151				16.51 <sup>k</sup>	15.2 <sup>n</sup>		11.806 (26)	11.060 (28)	10.777 (22) <sup>t</sup>			9.3 (3.8)	-4.8 (3.8)	13.8 (7.3)	-12.9 (7.6)			outFoV
1759	21:49:21.84	58:01:34.4 <sup>t</sup>	5152			14.40 <sup>k</sup>	14.39 <sup>k</sup>	13.57 <sup>n</sup>		11.857 (23)	11.561 (28)	11.457 (23) <sup>t</sup>			-7.9 (3.8)	-5.4 (3.8)	5.1 (7.3)	-17.3 (7.3)			outFoV
1760	21:49:44.70	57:01:08.6 <sup>t</sup>	5153				16.75 <sup>k</sup>	15.7 <sup>n</sup>		12.941 (26)	12.529 (30)	12.352 (24) <sup>t</sup>			-4.9 (4.1)	-3.1 (4.1)	-21.7 (7.6)	1.4 (7.8)			outFoV
1761	21:50:30.35	56:33:54.3 <sup>t</sup>	5154				16.43 <sup>k</sup>	15.19 <sup>n</sup>		12.573 (26)	12.039 (31)	11.882 (26) <sup>t</sup>			-19.4 (4.1)	-16.3 (4.1)	-20.7 (6.5)	-12.7 (6.5)			outFoV
1762	21:50:46.44	56:27:17.7 <sup>t</sup>	5155				16.32 <sup>k</sup>	14.7 <sup>n</sup>		11.761 (26)	11.025 (29)	10.844 (19) <sup>t</sup>			-1.2 (4.1)	5.5 (4.1)	-4.5 (6.4)	9.1 (6.4)			outFoV
1763	21:35:57.93	57:29:09.9 <sup>t</sup>								15.910 (90)	15.182 (107)	14.354 (0) <sup>t</sup>			1.1 (3.8)	-3 (4)					
1764	21:35:59.06	57:30:23.3 <sup>t</sup>								14.499 (47)	13.864 (57)	13.402 (46) <sup>t</sup>			13.3 (4.1)	16.8 (4.1)					
1765	21:36:03.89	57:27:12.2 <sup>t</sup>								14.700 (42)	13.077 (37)	12.297 (24) <sup>t</sup>									no opt. cp.
1766	21:36:06.06	57:26:34.2 <sup>t</sup>								17.635 (0)	15.540 (0)	14.450 (82) <sup>t</sup>									no opt. cp.
1767	21:36:07.45	57:34:29.7 <sup>t</sup>								14.806 (43)	13.832 (0)	12.914 (0) <sup>t</sup>			7.1 (4)	-21.2 (4)					near 1561
1768	21:36:07.98	57:26:37.1 <sup>t</sup>								18.366 (0)	17.484 (0)	14.507 (88) <sup>t</sup>									no opt. cp.
1769	21:36:14.20	57:27:57.8 <sup>t</sup>								15.265 (51)	14.520 (56)	14.395 (74) <sup>t</sup>			-31.5 (4.2)	11.2 (4.2)					
1770	21:36:16.65	57:28:40.5 <sup>t</sup>								17.017 (198)	14.958 (86)	14.026 (56) <sup>t</sup>									no opt. cp.
1771	21:36:17.00	57:26:39.9 <sup>t</sup>								14.604 (31)	13.783 (40)	13.405 (37) <sup>t</sup>									very faint opt. cp.
1772	21:36:23.69	57:32:45.2 <sup>t</sup>								14.685 (45)	13.650 (45)	13.105 (35) <sup>t</sup>			-9 (5.2)	-11.3 (5.2)					
1773	21:36:33.00	57:28:49.4 <sup>t</sup>								15.816 (76)	14.827 (70)	14.220 (64) <sup>t</sup>									no opt. cp.

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpTClass	A <sub>v</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	μ <sub>α</sub>	μ <sub>δ</sub>	Comments
		J2000	DA	DA	2004											PPMXL		UCAC3		MVA		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1774	21:36:35.32	57:29:31.2 <sup>d</sup>				14.059 (44)						12.825 ( )	12.223 ( ) <sup>t</sup>			20.5 (4)	-13 (4)					
1775	21:36:36.91	57:31:32.7 <sup>r</sup>				13.754 (31)						12.631 (37)	12.021 (26) <sup>r</sup>			-30 (5.5)	-2.3 (5.5)					
1776	21:36:38.42	57:29:17.5 <sup>t</sup>				14.265 (27)						13.013 (31)	12.303 (25) <sup>t</sup>									no opt. cp.
1777	21:36:39.15	57:29:53.3 <sup>t</sup>				11.924 (21)						10.422 (28)	9.392 (21) <sup>t</sup>			-2.9 (5)	-23.4 (5)					
1778	21:36:41.46	57:30:27.8 <sup>t</sup>				15.921 (81)						14.293 (58)	13.542 (40) <sup>t</sup>									no opt. cp.
1779	21:36:41.65	57:32:17.5 <sup>t</sup>				16.147 (102)						14.901 (85)	13.796 (46) <sup>t</sup>									no opt. cp.
1780	21:36:43.98	57:29:28.7 <sup>t</sup>				14.232 (27)						13.012 (31)	12.364 (24) <sup>t</sup>			-7.7 (5.6)	0.4 (5.6)					no opt. cp.
1781	21:36:44.01	57:28:46.8 <sup>t</sup>				12.949 (21)						12.559 (26)	12.501 (24) <sup>t</sup>			-11.5 (4)	1.6 (4)					
1782	21:36:46.60	57:29:38.5 <sup>t</sup>				16.458 ( )						15.194 (187)	12.673 (38) <sup>t</sup>									no opt. cp.
1783	21:36:47.14	57:28:53.0 <sup>d</sup>																				no opt. cp.
1784	21:36:47.89	57:31:30.7 <sup>r</sup>				16.504 (140)						14.697 (77)	13.822 (65) <sup>r</sup>									no opt. cp.
1785	21:36:52.81	57:29:43.8 <sup>t</sup>				15.666 (68)						13.956 (43)	13.286 (34) <sup>t</sup>									no opt. cp.
1786	21:36:54.50	57:30:05.2 <sup>t</sup>				13.948 (27)						12.045 (31)	10.926 (23) <sup>t</sup>									no opt. cp.
1787	21:36:54.75	57:31:45.1 <sup>r</sup>				16.017 (95)						14.796 (81)	13.909 (57) <sup>r</sup>									no opt. cp.
1788	21:36:54.90	57:30:00.4 <sup>t</sup>				16.341 ( )						15.700 (151)	13.837 (60) <sup>t</sup>									no opt. cp.
1789	21:36:55.21	57:30:30.1 <sup>t</sup>				14.714 (78)						12.665 (63)	11.382 (34) <sup>t</sup>									no opt. cp.
1790	21:36:55.43	57:31:39.1 <sup>r</sup>				14.199 (32)						12.456 (29)	11.723 (21) <sup>r</sup>									no opt. cp.
1791	21:36:56.99	57:29:22.7 <sup>t</sup>				16.991 (187)						14.564 (57)	13.195 (30) <sup>t</sup>									no opt. cp.
1792	21:36:57.84	57:30:56.1 <sup>t</sup>				17.425 ( )						15.365 (135)	14.000 (72) <sup>t</sup>									no opt. cp.
1793	21:36:57.93	57:29:10.7 <sup>r</sup>				13.621 (28)						12.025 (32)	11.215 (23) <sup>r</sup>			-10.6 (5.6)	1.7 (5.6)					no opt. cp.
1794	21:36:58.91	57:30:29.3 <sup>t</sup>				17.551 ( )						16.181 (218)	14.615 (93) <sup>t</sup>									no opt. cp.
1795	21:37:02.00	57:31:55.3 <sup>t</sup>				15.871 (87)						13.808 (44)	12.881 (30) <sup>t</sup>									no opt. cp.
1796	21:37:02.32	57:31:15.3 <sup>t</sup>				16.946 ( )						15.588 ( )	13.254 (45) <sup>t</sup>									no opt. cp.
1797	21:37:05.20	57:30:02.2 <sup>t</sup>				16.308 ( )						15.599 ( )	15.124 (155) <sup>t</sup>									no opt. cp.
1798	21:37:07.71	57:32:11.0 <sup>t</sup>				14.606 (35)						13.785 (39)	13.522 (47) <sup>t</sup>									very faint opt. cp.
1799	21:37:08.02	57:34:09.5 <sup>t</sup>				9.617 (22)						8.373 (28)	7.860 (20) <sup>t</sup>					-32.7 (6.4)	126.3 (6.8)			
1800	21:37:09.44	57:30:36.7 <sup>t</sup>				13.884 (30)						13.036 (34)	12.648 (33) <sup>t</sup>									
1801	21:37:10.14	57:31:26.6 <sup>t</sup>				14.972 (46)						14.241 (55)	13.806 (59) <sup>t</sup>									no opt. cp.
1802	21:37:24.10	57:24:11.5 <sup>t</sup>				14.198 (66)						13.293 (77)	12.821 (47) <sup>t</sup>			-21.7 (4.1)	-31.8 (4.1)					
1803	21:37:48.93	57:23:21.0 <sup>t</sup>				14.657 (55)						13.682 (63)	13.252 (49) <sup>t</sup>			1.7 (5.4)	-0.7 (5.4)					
1804	21:38:09.25	57:20:19.9 <sup>t</sup>				13.918 (31)						12.958 (33)	12.477 (23) <sup>t</sup>			-4.8 (4)	-5.3 (4)					
1805	21:38:09.79	57:29:42.8 <sup>r</sup>				14.161 (40)						13.356 (44)	12.974 (42) <sup>r</sup>									
1806	21:39:25.41	57:33:20.3 <sup>t</sup>				12.590 (25)						11.686 (29)	11.312 (18) <sup>t</sup>			-0.9 (3.8)	-8.9 (3.8)	2.1 (10.4)	6 (10.4)			
1807	21:39:31.05	57:47:14.0 <sup>t</sup>				12.410 (27)						11.491 (28)	11.023 (23) <sup>t</sup>					9.1 (8.7)	3.4 (8.4)			
1808	21:40:14.38	57:40:50.8 <sup>t</sup>				13.530 (40)						12.481 (32)	12.053 (26) <sup>t</sup>									near 651
1809	21:36:07.46	57:26:43.6 <sup>d</sup>																				no opt. cp.
1810	21:36:18.20	57:28:31.0 <sup>d</sup>																				no opt. cp.
1811	21:36:19.20	57:28:38.0 <sup>d</sup>																				no opt. cp.
1812	21:36:47.16	57:28:44.2 <sup>d</sup>																				no opt. cp.
1813	21:36:59.45	57:31:30.6 <sup>d</sup>																				no opt. cp.
1814	21:37:01.05	57:30:39.7 <sup>d</sup>																				no opt. cp.
1815	21:37:07.18	57:31:27.8 <sup>d</sup>																				no opt. cp.
1816	21:39:25.71	57:29:45.6 <sup>t</sup>										13.942 (32)	12.996 (32)			-11 (3.9)	-6.1 (3.9)					
1817	21:39:26.15	57:00:09.3 <sup>t</sup>				13.34 <sup>f</sup>	12.77 <sup>e</sup>					11.602 (21)	11.333 (28)			0.8 <sup>e</sup>	5.9 (2.7)	-1.6 (2.7)	-0.5 (0.8)	-4.8 (0.4)		
1818	21:38:31.05	57:28:00.5 <sup>t</sup>										13.658 (27)	13.010 (37)	F1 <sup>e</sup>								
1819	21:38:32.85	57:29:18.4 <sup>r</sup>										14.524 (53)	13.749 (40)									
1820	21:38:42.83	57:28:54.8 <sup>r</sup>										12.174 (23)	11.442 (28)									
1821	21:38:43.70	57:31:03.3 <sup>t</sup>										14.483 (45)	13.617 (41)									
1822	21:38:49.68	57:31:55.6 <sup>t</sup>										13.474 ( )	13.032 (48)									
1823	21:38:50.41	57:30:05.1 <sup>r</sup>										13.472 (25)	12.683 (35)									
1824	21:38:50.99	57:28:42.7 <sup>t</sup>										13.331 (34)	12.592 (40)									
1825	21:38:54.65	57:29:25.0 <sup>t</sup>										13.932 (91)	12.775 ( )									
1826	21:38:56.18	57:28:58.6 <sup>t</sup>										13.714 (50)	13.042 (41)									

Table A1 Literature data for stars in Trumpler 37 – continued

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpTClass	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments	
	hh:mm:ss.ss	dd:mm:ss.ss	DA	2004	2004											PPMXL		UCAC3		MVA	[j]		
	hh:mm:ss.ss	dd:mm:ss.ss				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr		
1827	21:38:57.62	57:30:06.1 <sup>b</sup>																					
1828	21:38:58.24	57:28:15.1 <sup>r</sup>									12.984 (27)	12.211 (32)	12.015 (24) <sup>r</sup>			5.9 (18)	-26 (18)	6.4 (8.2)	34.7 (8.2)				
1829	21:38:58.88	57:29:14.6 <sup>r</sup>									7.585 (20)	7.632 (36)	7.595 (21) <sup>r</sup>			-5.1 (1.6)	-2.4 (1.5)						
1830	21:38:59.63	57:30:08.1 <sup>r</sup>									13.485 (23)	12.600 (29)	12.108 (25) <sup>r</sup>					3.6 (9.9)	6.7 (10)				
1831	21:39:03.76	57:29:41.7 <sup>r</sup>									12.722 (31)	12.064 (40)	11.880 (29) <sup>r</sup>			-1.9 (3.9)	-6.1 (3.9)	-76.7 (7.2)	12.8 (7.2)				
1832	21:39:06.24	57:28:10.7 <sup>r</sup>									15.024 (58)	13.895 (61)	13.252 (35) <sup>r</sup>										
1833	21:39:09.19	57:30:50.3 <sup>r</sup>									12.569 (26)	11.831 (29)	11.641 (25) <sup>r</sup>			-10.7 (4)	5.2 (4)	-13.2 (6.6)	22.8 (6.7)				
1834	21:39:13.42	57:28:38.8 <sup>r</sup>									14.180 (53)	13.349 (55)	13.032 (47) <sup>r</sup>										
1835	21:39:16.38	57:31:18.8 <sup>r</sup>									13.555 (30)	12.944 (31)	12.787 (25) <sup>r</sup>			-1.3 (3.8)	-4.9 (3.8)	2.9 (7.5)	9.3 (7.5)				
1836	21:36:15.20	57:25:28.0 <sup>r</sup>									15.422 (76)	14.797 (87)	14.292 (0) <sup>r</sup>			-182.6 (5.6)	-241 (5.6)						
1837	21:36:42.47	57:25:23.2 <sup>r</sup>									14.806 (43)	14.089 (47)	13.758 (49) <sup>r</sup>										
1838	21:36:40.33	57:25:45.5 <sup>r</sup>									16.271 (94)	15.203 (99)	14.867 (113) <sup>r</sup>										
1839	21:36:45.86	57:26:22.8 <sup>r</sup>									15.192 (48)	14.582 (67)	14.378 (70) <sup>r</sup>			-0.9 (4.2)	-13.3 (4.2)						
1840	21:36:38.02	57:26:58.0 <sup>r</sup>									15.604 (72)	14.893 (73)	14.523 (80) <sup>r</sup>										
1841	21:36:54.72	57:27:26.7 <sup>a</sup>																					
1842	21:36:33.20	57:27:51.8 <sup>r</sup>									15.078 (62)	14.372 (56)	14.155 (63) <sup>r</sup>			3.1 (4.2)	0 (4.2)						
1843	21:35:51.09	57:28:12.5 <sup>r</sup>									15.465 (62)	14.983 (92)	14.523 (84) <sup>r</sup>			-6.8 (5.6)	-0.3 (5.6)						
1844	21:35:58.05	57:28:50.3 <sup>r</sup>									15.609 (127)	14.810 (164)	14.783 (177) <sup>r</sup>			-4.3 (5.7)	-6.4 (5.7)						
1845	21:36:18.97	57:29:05.1 <sup>a</sup>																					
1846	21:35:58.50	57:29:15.0 <sup>r</sup>									16.582 (167)	15.373 (125)	14.632 (100) <sup>r</sup>										
1847	21:37:17.37	57:29:20.7 <sup>r</sup>									14.091 (0)	13.557 (71)	13.130 (0) <sup>r</sup>										
1848	21:37:17.42	57:29:27.3 <sup>r</sup>									14.122 (43)	13.135 (43)	12.583 (37) <sup>r</sup>			-1.2 (4.1)	-10.8 (4.1)						
1849	21:36:36.95	57:29:28.6 <sup>r</sup>									15.670 (55)	14.979 (78)	14.664 (98) <sup>r</sup>										
1850	21:36:37.64	57:29:31.7 <sup>r</sup>									15.555 (58)	15.022 (78)	14.685 (99) <sup>r</sup>			-32.9 (5.3)	-3.9 (5.3)						
1851	21:35:53.11	57:29:37.0 <sup>r</sup>									15.300 (69)	14.774 (83)	14.513 (85) <sup>r</sup>			-7.9 (4.1)	-11.9 (4.1)						
1852	21:35:55.41	57:29:42.7 <sup>r</sup>									15.587 (74)	15.194 (111)	14.874 (113) <sup>r</sup>			-5.5 (4.1)	-4 (4.1)						
1853	21:36:17.03	57:29:48.1 <sup>r</sup>									15.858 (87)	14.704 (65)	14.288 (66) <sup>r</sup>										
1854	21:36:49.03	57:29:49.0 <sup>r</sup>									17.026 (0)	15.595 (143)	14.523 (83) <sup>r</sup>										
1855	21:36:10.98	57:29:50.7 <sup>r</sup>									15.547 (69)	14.614 (65)	14.468 (80) <sup>r</sup>			-4 (5.6)	11.6 (5.6)						
1856	21:36:56.27	57:29:52.4 <sup>r</sup>									18.527 (0)	16.098 (0)	15.200 (141) <sup>r</sup>										
1857	21:36:47.16	57:29:52.6 <sup>r</sup>									14.184 (0)	14.073 (58)	12.630 (28) <sup>r</sup>										
1858	21:37:10.56	57:29:52.7 <sup>r</sup>									15.135 (49)	14.288 (56)	14.027 (79) <sup>r</sup>			-1.8 (3.9)	-3.8 (3.9)						
1859	21:35:55.61	57:30:03.4 <sup>r</sup>									15.436 (73)	14.973 (83)	14.547 (85) <sup>r</sup>			-8.6 (3.9)	-2.3 (3.9)						
1860	21:36:13.37	57:30:16.2 <sup>r</sup>									15.593 (75)	14.999 (82)	14.778 (109) <sup>r</sup>			-9.6 (4)	-9.5 (4)						
1861	21:36:17.95	57:30:16.4 <sup>r</sup>									15.873 (93)	15.358 (129)	14.995 (122) <sup>r</sup>			17.7 (4.1)	26.6 (4.2)						
1862	21:36:53.16	57:30:19.3 <sup>r</sup>									17.860 (0)	16.019 (0)	15.125 (145) <sup>r</sup>										
1863	21:36:40.48	57:30:25.8 <sup>r</sup>									16.008 (104)	14.335 (53)	13.753 (0) <sup>r</sup>										
1864	21:36:16.15	57:30:26.8 <sup>r</sup>									14.524 (36)	14.174 (43)	13.995 (57) <sup>r</sup>			0.7 (3.8)	1.4 (3.8)						
1865	21:36:38.61	57:30:27.2 <sup>r</sup>									16.818 (181)	15.402 (138)	14.967 (126) <sup>r</sup>										
1866	21:37:11.74	57:30:35.1 <sup>r</sup>									16.175 (115)	15.520 (0)	14.928 (148) <sup>r</sup>										
1867	21:36:44.72	57:30:37.3 <sup>r</sup>									16.253 (105)	15.375 (117)	14.805 (102) <sup>r</sup>										
1868	21:36:44.09	57:30:38.2 <sup>r</sup>									15.996 (90)	15.314 (135)	14.671 (106) <sup>r</sup>										
1869	21:37:03.04	57:30:48.7 <sup>a</sup>																					
1870	21:36:01.65	57:30:49.7 <sup>r</sup>									15.617 (83)	14.986 (101)	14.778 (116) <sup>r</sup>			-55.1 (5.7)	-39.2 (5.7)						
1871	21:36:45.86	57:31:03.5 <sup>a</sup>																					
1872	21:36:12.61	57:31:26.5 <sup>r</sup>									16.504 (132)	16.161 (0)	15.136 (140) <sup>r</sup>										
1873	21:36:54.58	57:31:50.1 <sup>r</sup>									16.840 (187)	15.577 (0)	15.077 (129) <sup>r</sup>										
1874	21:36:52.62	57:31:50.3 <sup>r</sup>									14.915 (46)	13.728 (37)	13.186 (35) <sup>r</sup>			-81.5 (8.6)	56.7 (8.6)						
1875	21:36:56.53	57:31:51.4 <sup>r</sup>									17.485 (0)	15.178 (103)	13.512 (44) <sup>r</sup>										
1876	21:36:36.35	57:32:09.3 <sup>a</sup>																					
1877	21:37:05.87	57:32:12.4 <sup>r</sup>									15.130 (51)	14.284 (59)	14.139 (78) <sup>r</sup>										
1878	21:36:28.43	57:32:13.5 <sup>r</sup>									14.384 (27)	13.535 (31)	13.166 (35) <sup>r</sup>			-4.3 (5.2)	-15.5 (5.2)						
1879	21:37:00.27	57:32:23.8 <sup>a</sup>																					

**Table A1 Literature data for stars in Trumpler 37 – continued**

No.	RA	Dec	MVA	WEB-	SHB-	U	B	V	R	I	J	H	K	SpTClass	$A_V$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	$\mu_\alpha$	$\mu_\delta$	Comments
		J2000		DA	2004											PPMXL		UCAC3		MVA [j]		
	hh:mm:ss.ss	dd:mm:ss.s				mag	mag	mag	mag	mag	mag	mag	mag		mag	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	mas/yr	
1880	21:37:09.44	57:32:25.2 <sup>t</sup>				16.032 (138)	15.207 (183)	14.635 (112) <sup>f</sup>							1 (9.3)	-10.5 (9.3)						
1881	21:36:54.65	57:32:29.1 <sup>t</sup>				17.506 ( )	15.976 ( )	14.963 (150) <sup>f</sup>														
1882	21:36:51.54	57:32:53.4 <sup>t</sup>				16.082 (81)	15.203 (94)	14.749 (101) <sup>f</sup>														
1883	21:36:59.85	57:32:56.1 <sup>t</sup>				15.700 (76)	14.874 (85)	14.851 (111) <sup>f</sup>								-1.6 (4.3)	-1.4 (4.3)					
1884	21:36:25.97	57:33:10.3 <sup>t</sup>				14.883 (46)	14.195 (54)	13.958 (58) <sup>f</sup>							2.2 (4)	2.9 (4)						
1885	21:36:36.40	57:33:14.4 <sup>t</sup>				16.611 (148)	15.853 ( )	15.672 ( ) <sup>t</sup>														
1886	21:36:48.84	57:33:17.4 <sup>a</sup>				17.542	16.693	16.584 <sup>a</sup>														
1887	21:36:34.84	57:33:57.1 <sup>t</sup>				15.127 (45)	14.563 (58)	14.316 (66) <sup>f</sup>							11 (3.9)	3.6 (3.9)						
1888	21:36:12.98	57:34:05.5 <sup>t</sup>				15.055 (47)	14.118 (41)	13.690 (40) <sup>f</sup>								-17.8 (5.5)	6.7 (5.5)					
1889	21:36:16.09	57:34:48.6 <sup>t</sup>				11.836 (21)	11.068 (26)	10.835 (22) <sup>f</sup>								-2.7 (4)	-2.2 (4)	-7.5 (7.2)	3.7 (7)			
1890	21:36:45.97	57:34:55.1 <sup>t</sup>				15.153 (73)	14.501 (67)	14.303 (72) <sup>f</sup>								-41.5 (5.2)	-3.8 (5.2)					
1891	21:36:25.59	57:35:46.4 <sup>t</sup>				14.715 (40)	14.417 (48)	14.290 (65) <sup>f</sup>								-7.6 (4)	-13.1 (4)					

**Table A1** Literature data for stars in Trumpler 37

Remarks: The superscript letters behind the values indicate the source for the value:

[a] Morales-Calderón et al. (2009); [b] Mercer et al. (2009); [c] Sicilia-Aguilar et al. (2006b); [d] Sicilia-Aguilar et al. (2006a); [e] Sicilia-Aguilar et al. (2005); [f] Sicilia-Aguilar et al. (2004); [g] WEBDA (consists of Sicilia-Aguilar et al. (2004) and Morbidelli et al. (1997)); [h] Contreras et al. (2002) (used for photometry Marschall et al. (1990)); [i] Marschall et al. (1990); [j] Marschall & van Altena (1987) ( $V$  magnitudes from fitting instrumental magnitudes to photometry from Garrison & Kormendy (1976) and de Lichtbuer (1982)); [k] Kun (1986); [l] WEBDA (consists of Marschall et al. (1990), Garrison & Kormendy (1976), Simonson (1968) and other publications for few stars); [m] WEBDA (coordinate source); [n] WEBDA (consists of Marschall & van Altena (1987) and internal WEBDA information); [o] WEBDA (consists of 6 publications for 7 stars); [p] WEBDA (consists of Garrison & Kormendy (1976) and other publications for few stars); [q] WEBDA (consists of Alkansas (1958), Contreras et al. (2002), Sicilia-Aguilar et al. (2004), Balazs et al. (1996) and other publication for few stars); [r] 2MASS (Skrutskie et al. 2006). The different WEBDA tables were compiled from different literature, the main publications are given in brackets

MVA, WEBDA and SHB-2004 are star numbers in papers [j]; [l]-[q]; and [c]-[f], [h], respectively. If data from different literature are available, the more recent one is given. Please note, that the  $V$  magnitude was measured from photographic plate, photoelectrical or with CCD, making comparison difficult. The source for  $R$  and  $I$  magnitude is the same (given after  $I$ ) and the source for  $J$ ,  $H$  and  $K$  magnitude is the same (given after  $K$ ). Errors in  $JHK$ -photometry are given only, if the 2MASS quality flag is “A”, “B”, “C” or “D”, otherwise an empty parenthesis indicates uncertainties in the 2MASS photometry.

**Comments:** If two stars were located close to each other ( $< 5''$ ), the stars were marked with “near #”. “no star” or “no/faint star” means we were not able to find the star from Marschall & van Altena (1987) in our images (see also the text). “new coordinates” means, we changed the coordinates from Marschall & van Altena (1987) to match the position that was given in their finding chart (see also text). In cases of infrared data (Sicilia-Aguilar et al. 2006a), we were not able to see some stars in our optical images, resulting in comments “no opt. cp.” or “very faint opt. cp.” (opt. cp. standing for optical counterpart). Because Sicilia-Aguilar et al. (2004) used the earlier compilation of the 2MASS catalog (Cutrie et al. 2003) some stars get the comment “ $JHK$  in [f] different”. In case of two not distinguishable 2MASS sources near the star, the entry was duplicated in the consecutive row, so both sources were connected. The comment “2x[r]” was added and the fainter one marked. Probably, the other data from the literature, like optical brightness, is not resolved in this case. In Marschall & van Altena (1987) and the WEBDA database stars outside all YETI telescope fields of view (FoV) are marked with “outFoV”. In some cases stars with the same names (and properties) differ in the coordinates in different catalogs. The more reliable coordinate was used and in the comments “Dec [h] imprec.” or “[m] imprec.” was attached, meaning that problems occurred in Contreras et al. 2002 or the WEBDA database. In some entries the WEBDA entries were even wrong, resulting in “WEBDA wrong”.

Spectroscopic binaries were marked with “SB1” or “SB2” as given in Sicilia-Aguilar et al. (2006b).



Table 2 Literature data and membership predictions for stars in Trumpler 37

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	cess	bility	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/yr$	erg/s						[d]	[a,e,f]		mag	$M_{\odot}$	
2		93															h		
3		0															l		
4		92															h		
6		9															l		
8		94															h		
9		90															h		
12		37															l		
13		89															h		
14		0															l		
15		79															h		
18		14															l		
19		78															h		
20	44.9 <sup>h</sup>	83									l						h		
21		0															l		
23		86															h		
24		79															h	1.52	1.9
26		0															l		
27		92															h		
28		84															h		
30		83															h		
31		78															h		
32		73															h		
36	-8.4 <sup>c</sup>		0.7 <sup>c</sup>		-4 <sup>c</sup>	-6 <sup>c</sup>	0		c(w) <sup>c</sup>	h	l	m	l		h	h		0.58	0.2
39		24															l		
41		94															h	1.65	2.2
42		52															m		
45		0															l		
46		80															h		
47		81													l		h		
49		0															l		
50		0															l	1	4
51	30 <sup>h</sup>	93									l				l		h		
52		84															h		
53	-22.2 <sup>h</sup>	94									m						h		2.7
54		62															m		
55		0															l		
56		0															l	5.76	5
57		13															l	2.03	2.2
59		93															h	0.06	1.5
60		84															h	0.37	5
63		34															l		
64		46															l		
68		87															h		
69		89															h		
71		94															h		
72		93															h		
73		2															l		
74	3.9 <sup>h</sup>	86									l						h		
75		93															h		
76		92															h		
77		20															l		
78		71															m		
81		0															l		
83		89															h		1.4
84		59															m		
85		0															l		
88		0															l		
89		0															l	0.56	3
91		0															l		
92		75															h		
94		0															l	0.52	3.5
95	12.7 <sup>h</sup>	92									l						h	0.46	1.5
96		32															l		
97		88															h		
99		0															l		
100		93															h		
102		88															h		
103		90															h		
104		92															h		
105		87															h		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s									mag	$M_{\odot}$	
106		0															l		
107		70															m		
108		68															m		
109		0															l		
110		92															h		
111		0															l		
113		0															l		
115		8															l		
116		0															l		
117		59															m		
119		0															l		
122		0															l		
126	2.9 <sup>h</sup>	88									1						h		
128		92															h		
129	27.2 <sup>h</sup>	93									1						h	0.02	2.2
130	30.2 <sup>h</sup>	89									1						h		
131	45.6 <sup>h</sup>	89									1						h		
132		0															l		
133		68															m		
134		0															l		
135	-15.8 <sup>h</sup>	94									h						h	0.03	2
136		30															l		
137		14															l		
139		0															l		
144		91															h		
145		89															h		
146	4.9 <sup>h</sup>	88									1						h	0.06	1.7
147		0															l		
148		51															m	0.18	4
149		16															l		
150		90															h		
151	13.2 <sup>h</sup>	86									1						h	0.28	1.5
152		90															h		
154		94															h		
155		94															h		
156		0															l		
160		84															h		
163	12.4 <sup>h</sup>	92									1						h	0.69	2.5
164		90															h		
166		0															l		
167		5															l		
168		0															l		
170		63															m		
173		6															l		
174	.5	61															m		
175		86															h		
177		57															m		
180		0															l		
183	43.4 <sup>h</sup>	93									1						h		
184		70															m		
188		81															h		
189		93															h		
190		78															h		
192		0															l		
195	63.7 <sup>h</sup>	94									1						h	3.57	4
197		73															m		
198		81															h		
199	4.1 <sup>h</sup>	90									1						h		
201		0															l		
202		92															h		
203																		0.35	0.3
204		0															l		
206	-53.7 <sup>h</sup>	87									1						h	0.34	1.8
209	26.8 <sup>h</sup>	88									1						h		
210		0															l		
211	0.6 <sup>h</sup>	82									1						h		1.7
216		0															l		
218		64															m		
219		0															l		
220		93															h		
226	11.3 <sup>h</sup>	89									1						h		
227		0															l		
228		57															m		
230		6															l		

**Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued**

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass	
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]		(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/yr$	erg/s										mag	$M_{\odot}$	
231		91																		
232	11.3 <sup>h</sup>	87									l							0.68	1.4	
233		0																		
234		5																		
236		93																		
238		0																		
239	16.5 <sup>h</sup>	92									l							0.26	1.4	
240		93																		
241		0																		
242		47																		
243		91																		
245		0																		
246		0																		
247		90																		
248	-18.6 <sup>h</sup>	92									m							0.51	1.3	
249	-18.6 <sup>h</sup>	92									m							0.16	1.85	
250		0																3.81	0.1	
251		49																		
254		2																		
255		2																		
258		33																		
259		76																		
260		4																		
261		90																		
262		0																		
263		79																		
264		0																		
265		93																		
266	-17.9 <sup>h</sup>	93									h									
267		0																		
268		93																		
269		49																		
270		7																		
271	-81.3 <sup>h</sup>	93									l									
272		92																		
273		0																		
274		81																		
281		43																		
282		0																		
283	15.4 <sup>h</sup>	90									l							0.18	1.4	
285		9																		
286		92																		
287		72																		
288		79																		
289		0																		
290		39																1.62	2.7	
291		77																		
292		90																		1.3
293		0																		
294		33																		
295	-74.2 <sup>h</sup>	94									l									
296		92																1.72	0.37	
297		0																		
298		94																		
299	0.6 <sup>h</sup>	90									l									
300		60																		
301	-87.9 <sup>h</sup>	87									l									
302		93																		
303		29																		
305		0																		
306		94																		
307		67																		
308		37																		
309		3																		
310		89																		
311		93																		
315		85																		
316		85																		
317		85																		
318		0																		
319		26																		
320		12																		
321		70																		
323		93																		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass	
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	cess	bility	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s								[a,e,f]		mag	$M_{\odot}$	
324		64																		m
325		32																		l
326		93																		h
327		21																		l
328		9																		l
330		93																		h
331	-7.3 <sup>h</sup>	91									m									h
332		60																		m
333	-60.5 <sup>h</sup>	92									l									h
334		78																		h
335		89																		h
336		77																		h
337		93																		h
338	-392 <sup>h</sup>	94									l									h
339		27																		l
342		93																		h
344		92																		h
345		86																		h
346		72																		m
347		57																		m
349		50																		m
350		86																		h
351		66																		m
353		91																		h
358		94																		h
359		0																		l
360		94																		h
361		0																		l
363		0																		l
364		45																		l
365		0																		l
366		92																		h
367		92																		h
369		89																0.33	1.3	h
370		93																		h
371		93																0.93	5	h
372		2																		l
373		56																		m
374		0																		l
377		67																		m
378		92																		h
379	-5.3 <sup>h</sup>	94									m									h
380		88																		h
381		46																		l
382		92																2.99	6.67	h
384	-4 <sup>h</sup>	93									l							6.41	0.1	h
387		94																	1.9	h
388		94																		h
389		90																		h
390		0																		l
391		85																		h
392		87																		h
393	-32.7 <sup>h</sup>	89									l									h
394	-30.9 <sup>h</sup>	93					6.15	W <sup>b</sup>			l		h					0.70	2.5	h
395		0																2.93	2.45	l
398		74																		m
400		0																		l
401		0																		l
402		0																		l
403		0																		l
404		94																0.44	2.5	h
405		89																		h
406		0																		l
407		91																		h
408		94																		h
409							6.86	W <sup>b</sup>					h							h
411		94																		h
412		0																0.08	2.7	l
414		0																		l
416		0																		l
417		67					84.8	W <sup>b</sup>					h							m
418		94																		h
419		32																		l
420		94					2.63	W <sup>b</sup>					h					1.53	7	h

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass	
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	cess	bility	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s								[a,e,f]		mag	$M_{\odot}$	
421		94																		
422		5																		
423		0						5.75	W <sup>b</sup>					h						
424		89																		
425	-7.5 <sup>c</sup>	90			-10 <sup>c</sup>	-14 <sup>c</sup>	1.25	2.61	c <sup>c</sup>		h	m	h	h	h	l	h	0.38	3	
427		10																3.48	0.1	
428		81																		
429		94																		
430		94																		
435		0																		
436	-60 <sup>h</sup>	88										l								
437		0						5.74	W <sup>b</sup>					h						
438		0															l			
440	-42.1 <sup>h</sup>	91										l								
441		0																		
443		94																		
444		0																		
445		42																		
448	-21.6 <sup>h</sup>	92									m							0.42	1.5	
449		94						17.1	W <sup>b</sup>					h						
454		93																		
457		0																		
458		0																		
459		8																		
460	-19.3 <sup>h</sup>	94									m									
462	18.2 <sup>h</sup>	83										l								
465		80																		
466	-22.2 <sup>h</sup>	91										m								
469		94																		
474		94																		
475		89																		
476	-4.9 <sup>h</sup>	90										m								
477		94																8.75	3.17	
479		92																		
482		0																		
484		87																		
485		87																		
486		0																		
487		93																		
489	-15.1 <sup>h</sup>	91									h							3.71	4	
491		5																		
492		0																		
493		47																		
494		91																0.30	6	
495		54																0.74	2.7	
496		0																		
497		88																		
498		0																		
499		82																		
500		0																		
503		84																		
504	-48.4 <sup>h</sup>	92									l									
505		89																0.00	2.7	
506		94																		
507		83																		
508		93																		
509		49																		
510		94																		
511		86																		
512		4																		
513		0																		
514	-33.8 <sup>h</sup>	91										l								
515		0																1.93	1.9	
516		88																6.61	4	
517		94																		
518		0																		
519		94																		
521		68																		
522		94																1.00	2.7	
523		91																		
524		94																		
526		0																		
527		92																		
529		91																		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]		(JHK)	(models)
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s									mag	$M_{\odot}$	
530		25															l		
531		93															h		
532		81															h		
533		0															l		
534		87															h		
535		0															l		
536		0															l		
537		0															l		
538	-19 <sup>c</sup>	82			-15 <sup>c</sup>				c <sup>c</sup>	h	m						h		
539		0															l		
540		93															h	0.97	1.8
542		10															l		
543		0															l		
544		32															l		
546		90															h		
547		0															l		
549		45															l		
550		60															m		
551		0															l		
552		89															h		
553	-319 <sup>h</sup>	94								l							h		
554		0															l		
555		75															h		
556		27															l		
557		27															l		
558		45															l		
559		91															h		
560		92															h		
561		51															m		
562		0															l		
563		0															l		
564		91															h		
565		91															h		
566		91															h		
567		84															h		
569																		4.19	1.5
571		11															l		
572		93															h	2.07	4
573	-1.4 <sup>h</sup>	84								l							h		
574		0															l		
575		89															h		
576																		0.44	1.3
577		1															l		
578		0															l		
579		94															h		
580		93															h		
581		88															h		
584		85															h		
585	-53.1 <sup>h</sup>	90								l							h	0.22	1.6
586		90															h		
588		0															l		
589		81															h		
590		15															l		
591		32															l		
592		3															l		
593		81															h		
594		66															m	0.84	2.2
595	5 <sup>h</sup>	93								l							h	0.08	1.5
596		94															h		
598		94															h	0.07	1.4
599		94															h	1.07	2.7
600		86															h		
601		0															l		
602		6															l		
603		84															h		
604		27															l		
605		0															l		
606		92															h	0.60	1.6
607		51															m		
608		5															l		
609		0															l		
610		0															l		
611		0															l		
612		0															l		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]		(JHK)	(models)
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s										mag	$M_{\odot}$
613		66															m		
614		0															l		
615		84															h		
616		94															h		
617		26															l	1.11	2.7
618		0															l		
620		0															l		
621		79															h		
622		0															l		
623		0															l		
625		94															h		
627		53															m		
628		85															h		
629		87															h		
630		0															l		
633		4															l		
634		93															h		
635		14															l		
636		51															m		
637		68															m	0.95	2.7
638		0															l		
639		88															h		
640		92															h		
641		0															l		
642		62															m		
643		19															l		
644		93															h		
645		86															h		
646		48															l		
647		91															h		
648		0															l		
649		93															h		
650		93															h	2.53	2.7
651		92															h		
652		94															h	0.07	1.6
653		77															h		
654		0															l		
655		0															l		
656		88															h		
657		0															l		
658		93															h		
659		0															l		
660		5															l		
661		1															l		
662		94															h	1.35	2.1
665		62															m	0.93	1.8
666		0															l		
667		0															l		
668		79															h		
669		92															h	1.29	2.2
670		0															l		
671		0															l		
672		0															l		
673		94															h	1.21	2
674		0															l		
675		0															l		
676		0															l		
677		0															l		
678		91															h	0.17	2.5
679		0															l		
680		89															h		
681		92															h		
682		0															l		
683		91															h	1.03	3
684		88															h	0.49	3.5
685		90															h	1.34	5
686		94															h		
687		4															l		
688		94															h		
689		6															l		
690	-14.8 <sup>h</sup>	94									h						h		4
691		40															l		
692		81															h		
693		0															l		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_\odot$ /yr	erg/s									mag	$M_\odot$	
694		86															h		
695		90															h		
696		2															l	1.06	2.2
697		63															m	1.12	1.7
698		66															m		
699		88															h		
700		47															l		
701		92															h		
702		92															h		
703		9															l		
704		2															l		
706		90															h		
707	-28.8 <sup>h</sup>	93								1							h	0.15	2.2
708		5															l		
709		90															h		
710		10															l		
711		0															l		
712		86															h		
713		86															h		
714		79															h		
715		94															h		
716		81															h		
717		85															h		
718		0															l		
719		0															l		
720		10															l		
721		93															h		
722		1															l		
723		81															h		
724		87															h		
725		0															l		
726		0															l		
727		0															l		
728		13															l		
729		87															h		
730		48															l		
731		53															m		
732		0															l	2.53	3.5
734		0															l		
735	-56.7 <sup>h</sup>	91								1							h		
736		92															h		
737		75															h		
738		87															h		
739		91															h		
740		90															h		
741		88															h		
742		91															h		
743		1															l		
744		26															l		
745		93															h		
746		70															m		
747		0															l		
748		16															l	2.50	7
749		76															h		
750		55															m		
752		67															m		
753		5															l		
754		0															l		
755		90															h		
756		94															h		
757		46															l	0.64	1.4
758		28															l		
759		58															m		
760		0															l		
761		1															l		
762		12															l		
763		0															l		
764		77															h		
765		0															l	0.38	2.7
766		9															l		
767		81															h		
768		56															m		
769		46															l		
772		27															l		



Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Vari-	PM	$A_V$	Mass	
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]		(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s										mag	$M_{\odot}$	
773		19																		
774		92																		
775		91																		
776		70																		
777		0																		
778		84																		
779		0																		
780		0																		
781		94																		
782		0																1.85	3.5	
783		94																		
784		0																		
785		0																		
786		87																		
787		0																1.73	5	
788		7																		
789		83																		
790		18																		
791		93																		
792		83																		
793		36																		
794		11																		
795		41																		
796		89																		
797		5																		
798		74																		
799		0																		
800		8																		
801		90																		
802		1																1.32	2.85	
803		73																		
804		92																		
805		37																		
806		0																		
807		85																		
808		0																		
809		26																		
810		88																		
811		0																		
812		92																		
813		0																		
815		79																		
816		93																		
817		93																0.55	3	
818		0																		
819		0																1.09	7	
820		55																		
821		0																		
822		91																		
823		92																		
824		0																		
825		87																		
826		85																0.53	1.75	
827		11																		
828		50																		
829		48																		
830		87																		
831		0																		
832		0																		
833		87																		
834		0																		
835		0																		
836		0																		
837		8																		
838		75																		
839		81																		
840		0																		
841		94																		
842		93																		
844		86																7.94	0.1	
845		86																1.78	2.5	
846		0																		
847		6																		
848		0																1.41	5	

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	[a,e,f]	[j]	(JHK)	(models)	
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s									mag	$M_{\odot}$	
849		10															l		
850		89															h		
851		91															h	2.36	2.2
852		81															h		
853		86															h		
854		93															h		
855		92															h		
856		85															h		
857		77															h	0.12	4.5
858		0															l		
859		0															l		
860		0															l		
861		93															h		
862		94															h		
863		0															l		
864		90															h		
865		0															l		
866		81															h		
867		90															h		
868		84															h		
869		81															h		
870		0															l	0.07	3.5
871		68															m		
872		89															h		
873		1															l		
874		0															l		
875		76															h		
878		89															h	2.18	2.5
879		83															h		
880		92															h		
881		0															l		
882																		0.50	2.2
883		84															h		
884		94															h		
885		93															h	2.57	4
886		94															h		
887		0															l		
888		81															h		
889		94															h		
890		0															l		
891		93															h		
892		94															h	1.20	1.8
893		90															h		
894		2															l	0.93	7
895		94															h		
896		0															l		
897		94															h		
898		0															l		
899		4															l		
900		92															h		
901		84															h		
902		82															h		
903		67															m		
904		90															h		
905		66															m	1.85	3
906		91															h		
907		89															h		
908		94															h	1.93	2.7
909		93															h	0.16	3.5
910		93															h		
911		80															h	1.18	4.5
912		13															l		
913		67															m		
914		49															l		
915		94															h		
916		91															h	1.52	2.2
917		92															h		
918		0															l		
919		84															h		
920		0															l		
921		0															l		
923		78															h		
924		11															l		
925		37															l		

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV km/s	PM [%] [j]	EW(Li) max Å	EW(Li) min Å	EW(Hα) max Å	EW(Hα) min Å	$\dot{M}$ $10^{-8}$ $M_{\odot}/\text{yr}$	$L_{X,c}$ $10^{30}$ erg/s	TTS	Li	Hα	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Vari- ability [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) $M_{\odot}$
928		4																	
929		30																0.76	2.85
930		94																	
931		94																	
932		93																	
933		55																	
934		86																	
935		92																	
936		77																	
937		0																1.27	7
938		1																	
939		91																	
940		5																	
941		41																	
942		47																	
943		1																1.31	3.5
944		93																0.52	3
945		94																	
946		90																	
947		93																	
948		71																	
949		86																	
950		69																	
951		93																	
952		93																	
953		62																	
954		0																	
955		1																	
956		0																	
957		0																	
958		0																	
959		34																	
960		85																	
961		22																	
962		2																	
963		28																	
964		5																	
965		92																	
966		44																	
970		50																	
971		0																	
972		0																	
973		0																	
974		44																	
975		38																	
976		0																	
977		68																1.98	3.5
978		59																	
979		94																	
980		89																	
981		0																	
982		93																	
983		0																	
984		92																	
985		94																	
986		52																	
987		94																	
988		92																	
989		47																	
990		26																	
991		87																	
992		83																	
993		93																	
994		0																	
995		81																	
996		2																	
997		0																	
998		0																	
1000		0																	
1001		0																	
1002		92																2.89	2
1004		12																	
1005		6																	
1006		6																	

**Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued**

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ 10 <sup>-8</sup> M $_{\odot}$ /yr	$L_{X,c}$ 10 <sup>30</sup> erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Vari- ability [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) M $_{\odot}$
1007	0															l	2.70	2.7	
1010	0															l		2.5	
1011	4															l			
1013	0															l			
1016	3															l			
1017	1															l			
1018	0															l			
1019	91															h			
1020	93															h			
1023	18															l			
1025	21															l			
1027	86															h			
1028																	7.48	1	
1029	94															h			
1030	0															l			
1031	92															h			
1032	55															m			
1033	69															m			
1034	72															m			
1035	6															l		2.2	
1036	91															h			
1037	0															l			
1040	15															l			
1042	15															l			
1043	90															h			
1044	92															h	1.41	2.2	
1045	89															h			
1046	26															l			
1050	0															l			
1053	51															m			
1054	63															m			
1055	0															l			
1061	0															l			
1062	27															l	0.74	3.5	
1063	93															h			
1064	0															l			
1065	83															h			
1066	93															h			
1067	9															l			
1068	16															l			
1071	72															m			
1072	66															m			
1073	56															m			
1074	0															l			
1075	0															l			
1076	66															m			
1077	43															l			
1078	0															l	0.53	3.75	
1079	0															l	1.29	2	
1080	55															m			
1081	93															h			
1082	73															m			
1083	91															h			
1084	87															h			
1085	90															h			
1087	0															l	0.92	2.2	
1088	33															l			
1089	0															l	0.78	2.7	
1091	81															h			
1092	36															l			
1093	93															h			
1094	75															h	1.53	2.2	
1097	90															h			
1098	45															l			
1099	0															l			
1100	0															l			
1101	74															m			
1102	4															l			
1103	94															h			
1104	92															h			
1105	41															l	1.18	3.5	
1106	0															l			
1107	89															h			
1108	0															l			

**Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued**

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ $10^{-8}$ $M_{\odot}/yr$	$L_{X,c}$ $10^{30}$ erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Varia- bility [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) $M_{\odot}$
1110		0														l			
1111																	0.84	5	
1112		0														l			
1113		93														h			
1114		69														m			
1117		70														m			
1118		2														l			
1119		56														m			
1120		73														m			
1121		81														h			
1122		0														l			
1123		12														l			
1124		59														m			
1125		92														h			
1126		84														h		3	
1127		84														h			
1128		0														l			
1129		14														l	1.40	4	
1130		22														l			
1131		49														l			
1132		90														h			
1133		94														h			
1134		0														l			
1135		0														l			
1136		0														l	0.22	4	
1137		86														h	2.02	3.5	
1138		27														l			
1139		7														l			
1140		57														m			
1141		93														h			
1142		45														l	1.07	7	
1143		33														l			
1144		83														h			
1145		0														l			
1146		0														l	0.07	4	
1148		59														m			
1149		2														l			
1150		83														h	0.65	2.2	
1151		78														h			
1152		80														h			
1153		0														l			
1155		0														l			
1156		4														l			
1157		1														l			
1158		0														l			
1160		81														h			
1161		0														l			
1162		93														h			
1163		77														h			
1164		84														h			
1165		89														h			
1166		75														h			
1167		78														h			
1168		0														l			
1169		94														h			
1170		94														h			
1171		82														h			
1172		92														h			
1174		93														h			
1176		94														h			
1178		84														h			
1180		0														l			
1182		92														h			
1183		68														m			
1184		89														h			
1185		92														h			
1187		86														h			
1189		72														m			
1190		0														l			
1191		0														l			
1192		93														h			
1193		80														h			
1194		93														h			
1195		51														m			

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ 10 <sup>-8</sup> M $_{\odot}$ /yr	$L_{X,c}$ 10 <sup>30</sup> erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Vari- ability [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) M $_{\odot}$
1196		51																	m
1197		85																	h
1198		0																	l
1199		0																	l
1200		94																	h
1201		11																	l
1202		0																	l
1203		74																	m
1204		93																	h
1205		0																	l
1206		87																	h
1207		47																	l
1208		92																	h
1210		74																	m
1211		90																	h
1212		60																	m
1213		81																	h
1214		80																	h
1215		94																	h
1216		93																	h
1217		94																	h
1218		0																	l
1219		83																	h
1220		0																	l
1221		0																	l
1223		60																	m
1224		93																	h
1225		29																	l
1226		90																	h
1228		21																	l
1230		0																2.07	4
1231		68																	m
1232		91																	h
1234		0																	l
1235		93																	h
1236		92																	h
1237		18																	l
1238		78																	h
1239		91																	h
1240		73																	m
1241		0																	l
1242		0																	l
1243		91																	h
1244		52																	m
1245		0																	l
1246		93																	h
1247		0																	l
1248		91																1.23	4
1249		64																	m
1250		2																	l
1251		80																	h
1252		94																	h
1253		46																	l
1254		78																	h
1255		92																	h
1256		91																	h
1257		93																	h
1258		27																	l
1259		27																	l
1260		87																	h
1261		87																	h
1262		90																	h
1263		11																	l
1264		59																	m
1265		0																0.66	3.5
1267		91																	h
1268		0																	l
1269		94																	h
1270		85																0.11	2.35
1271		22																	l
1272		2																1.82	5.34
1273		93																	h
1274		92																	h
1275		87																	h

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ 10 <sup>-8</sup> M $_{\odot}$ /yr	$L_{X,c}$ 10 <sup>30</sup> erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray [d]	IR ex- cess [d]	Varia- bility [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) M $_{\odot}$
1276		91																	
1277		86																	
1278		0																	
1279		91																	
1280		61																	
1281		93																	
1282		77																	
1283		80																	
1284		23																	
1285		0																	
1286		31																	
1287		4																	
1288		65																	
1289		65																	
1290		16																	
1291		94																	
1292		93																	
1293		83																	
1294		93																	
1295		0																	
1296		35																	
1297		35																	
1298		93																	
1299		0																	
1300		92																	
1301		36																	
1302		80																	
1303		64																	
1304		15																	
1305		79																	
1306		93																	
1307		14																	
1308		93																	
1309		2																	
1310		0																	
1311		93																	
1312		84																	
1313		8																	
1314		14																	
1315		93																	
1316		0																	
1317	-57.6 <sup>h</sup>	90								1									
1318		78																	
1319		93																	
1320		1																	
1321		84																	
1322		71																	
1323		90																	
1324		92																	
1325		84																	
1326		84																	
1327		93																	
1328		89																	
1329		3																	
1330		82																	
1331		88																	
1332		74																	
1333		74																	
1334		0																	
1335		36																	
1338		0															0.56	3	
1339		90																	
1340		0																	
1341		0																	
1342		3																	
1343		94																	
1344		86															0.95	2	
1346		0																	
1347		0																	
1348		86															0.66	1.3	
1349		0																	
1350		89																	
1351		94																	
1352		51																	

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM	EW(Li)	EW(Li)	EW(H $\alpha$ )	EW(H $\alpha$ )	$\dot{M}$	$L_{X,c}$	TTS	Li	H $\alpha$	RV	$\dot{M}$	X-ray	IR ex-	Varia-	PM	$A_V$	Mass
	km/s	[j]	max	min	max	min	$10^{-8}$	$10^{30}$				[c]	[b]	[d]	cess	bility	[j]	(JHK)	(models)
		%	Å	Å	Å	Å	$M_{\odot}/\text{yr}$	erg/s							[a,e,f]		mag	$M_{\odot}$	
1353		0																	
1354		0																	
1355		94																	
1356		0																	
1357		88																	
1358		94																	
1359		88																	
1360		77																	
1361		93																	
1362		94																	
1363		12																	
1364		30																	
1365		73														m			
1366		83														h			
1367		86														h			
1368		31														l			
1369		57														m			
1370		0														l	1.15	7	
1371		91														h			
1372		93														h			
1373		0														l			
1374		92														h			
1375		37														l			
1376		52														m			
1377		93														h			
1378		90														h			
1379		0														l			
1380		92														h			
1381		88														h			
1382		89														h			
1383		11														l			
1384		51														m			
1385		0														l			
1386		26														l			
1387		90														h			
1388		47														l	1.17	2.7	
1390		0														l	3.02	2.75	
1391		0														l			
1392		43														l			
1393		84														h			
1394		62														m			
1395		75														h	1.07	1.95	
1396		43														l			
1397		92														h			
1398		0														l			
1401		0														l			
1402		92														h			
1403		91														h			
1404		83														h			
1405		94														h			
1407					-6.8 <sup>e</sup>	-7 <sup>c</sup>	0		w <sup>c</sup>	l	l	l	l						
1408					-13 <sup>f</sup>					h									
1409		0.6 <sup>c</sup>			-4.7 <sup>e</sup>	-5 <sup>c</sup>	0	w <sup>c</sup>		h	l	l	l	h					
1410		0.3 <sup>c</sup>			-7 <sup>c</sup>	-7.3 <sup>e</sup>	0	w <sup>c</sup>		h	l	l	l				1.04	0.2	
1411		0.5 <sup>c</sup>			-4.8 <sup>e</sup>	-5 <sup>c</sup>	0	w <sup>c</sup>		h	l	l	l	h					
1412	-14.6 <sup>c</sup>	0.5 <sup>c</sup>			-1.8 <sup>e</sup>	-2 <sup>c</sup>	0.13	w <sup>c</sup>		h	l	h	h	l	h				
1413					-3 <sup>f</sup>					l							0.49	0.15	
1414	-42.8 <sup>c</sup>	0.3 <sup>c</sup>			-5 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	l	l	l	l				
1415		1 <sup>c</sup>			-13 <sup>c</sup>	-13.4 <sup>e</sup>	0.12:	w(c) <sup>c</sup>		h	h	h	h	l	l				
1416	-17.2 <sup>c</sup>	0.4 <sup>c</sup>			-5 <sup>c</sup>		1.6	c <sup>c</sup>		h	h	h	h	h	h		2.65	0.1	
1417	-19.9 <sup>c</sup>	0.5 <sup>c</sup>		0.3 <sup>f</sup>	-43 <sup>c</sup>	-63 <sup>f</sup>	0.97-2.5	c <sup>c</sup>		h	h	m	h	h	h		1.18	0.1	
1418		0.7 <sup>f</sup>		0.5 <sup>c</sup>	-4 <sup>f</sup>	-10 <sup>c</sup>	1.1	c <sup>c</sup>		h	h	h	h	h	h		2.64	0.1	
1419	-15.4 <sup>c</sup>	0.5 <sup>c</sup>			-28 <sup>c</sup>	-33 <sup>c</sup>	16.2-13.2	c <sup>c</sup>		h	h	h	h	h	h		1.93	0.1	
1420		0.5 <sup>e</sup>			-8 <sup>e</sup>			w <sup>e</sup>		h	l			l			1.12	0.1	
1421	-9.9 <sup>c</sup>	0.4 <sup>c</sup>			-18 <sup>c</sup>	-23 <sup>c</sup>	0.8	c <sup>c</sup>		h	h	m	h	h	h		1.11	0.1	
1422					-80.8 <sup>e</sup>			c <sup>e</sup>		h				h	h		1.53	0.1	
1423		0.4 <sup>c</sup>			-3.9 <sup>e</sup>	-4 <sup>c</sup>	0	w <sup>c</sup>		h	l	l	l	l	l				
1424		0.3 <sup>e</sup>			-7.2 <sup>e</sup>			w <sup>e</sup>		h	l			l					
1425		1.3 <sup>f</sup>		0.3 <sup>c</sup>	-23 <sup>c</sup>	-37 <sup>c</sup>	<0.1	c <sup>c</sup>		h	h	m		h	l		2.21	0.1	
1426	-68.2 <sup>c</sup>				-9 <sup>c</sup>			w <sup>c</sup>		h	l			l	h				
1427	-18.4 <sup>c</sup>	0.6 <sup>c</sup>			-4 <sup>c</sup>	-4.5 <sup>e</sup>	0	w <sup>c</sup>		h	l	h	l	h	h		0.39	0.2	
1428	-16.5 <sup>c</sup>	0.2 <sup>c</sup>			-20 <sup>c</sup>	-23 <sup>c</sup>		c <sup>c</sup>		m	h	h		h	l		1.52	0.1	
1429	-15.1 <sup>c</sup>	0.6 <sup>c</sup>			-3.8 <sup>e</sup>	-4 <sup>c</sup>	0.06	w <sup>c</sup>		h	l	h	h	l	l				
1430		0.8 <sup>c</sup>			-11 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	l		l	l				



Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM [j]	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ $10^{-8}$ $M_{\odot}/\text{yr}$	$L_{X,c}$ $10^{30}$ erg/s	TTS	Li	H $\alpha$	RV	$\dot{M}$ [c]	X-ray [b]	IR ex- cess [d]	Varia- bility [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) $M_{\odot}$
1431			0.7 <sup>c</sup>		-4 <sup>c</sup>	-8 <sup>f</sup>	0	w <sup>c</sup>		h	l	l			l	h		0.02	0.1
1432	-15.8 <sup>c</sup>		0.6 <sup>f</sup>	0.5 <sup>c</sup>	-2 <sup>c</sup>	-17 <sup>c</sup>	0.81-3.3	c <sup>c</sup>		h	h	h	h		h	h		3.15	0.1
1433			0.7 <sup>c</sup>		-17 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	l			l	h			
1434	-15.6 <sup>c</sup>		0.5 <sup>c</sup>		-1.5 <sup>e</sup>	-2 <sup>c</sup>	<0.1	w <sup>c</sup>		h	l	h	m		l	h			
1435					-13 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	l			l	l		0.11	0.1
1436	-13.4 <sup>c</sup>		0.9 <sup>f</sup>	0.6 <sup>c</sup>	-13 <sup>c</sup>	-30 <sup>c</sup>	0.88	c <sup>c</sup>		h	h	h	h		h	h		0.69	0.1
1437	-25.2 <sup>c</sup>							w <sup>c</sup>				m							
1438	-15.8 <sup>c</sup>		0.6 <sup>e</sup>		-10 <sup>e</sup>		0	w <sup>c</sup>		h	h	h	l		l	l			
1439	-15.7 <sup>c</sup>		0.6 <sup>f</sup>	0.4 <sup>c</sup>	-33 <sup>c</sup>	-37 <sup>f</sup>	0.21	c <sup>c</sup>		h	h	h	h		h			0.24	0.1
1440	-19.1 <sup>c</sup>		0.4 <sup>c</sup>		-2 <sup>c</sup>	-7 <sup>f</sup>	0	w <sup>c</sup>		h	l	m	l		l	l			
1441	-16.9 <sup>c</sup>		0.4 <sup>c</sup>		-8 <sup>c</sup>	-11.3 <sup>e</sup>	<0.1	c <sup>c</sup>		h	h	h	m		h	h		0.77	0.1
1442			0.7 <sup>c</sup>		-4.8 <sup>e</sup>	-5 <sup>c</sup>	0	w <sup>c</sup>		h	l	l			l	l		1.13	0.2
1443	-117.9 <sup>c</sup>				-4 <sup>e</sup>			w w <sup>c</sup>		h	l				l	l		1.01	0.2
1444			0.7 <sup>c</sup>		-7 <sup>c</sup>		0	w <sup>c</sup>		h	l	l			l	h		0.14	0.3
1445	-26.1 <sup>c</sup>		0.4 <sup>c</sup>		-15 <sup>c</sup>	-28 <sup>c</sup>	6	c <sup>c</sup>		h	h	l	h		h	h		1.04	0.1
1446	-7.4 <sup>c</sup>		0.6 <sup>c</sup>		-3 <sup>c</sup>		0	w <sup>c</sup>		h	l	m	l		l	l			
1447	-16.7 <sup>c</sup>		0.4 <sup>c</sup>		-6 <sup>c</sup>	-6.5 <sup>e</sup>	0	w <sup>c</sup>		h	l	h	l		l	h		0.24	0.2
1448	-18.5 <sup>c</sup>		0.5 <sup>c</sup>		-7.5 <sup>e</sup>	-8 <sup>c</sup>	<0.1	w(c) <sup>c</sup>		h	l	h	m		h	l		0.37	0.1
1449					-7 <sup>c</sup>		0	w <sup>c</sup>		l	l	l			l				0.2
1450			1.6 <sup>c</sup>		-17 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	l			l	l			
1451			0.3 <sup>c</sup>		-2 <sup>c</sup>			w(c) <sup>c</sup>		h	l				l	h			0.2
1452	-4 <sup>c</sup>		0.7 <sup>c</sup>		-4 <sup>c</sup>		0	w <sup>c</sup>		h	l	l	l		l	h			
1453	-16.1 <sup>c</sup>		0.4 <sup>c</sup>		-7 <sup>c</sup>	-8 <sup>c</sup>	<0.1	c(w) <sup>c</sup>		h	l	h	m		h			1.02	0.1
1454	-15 <sup>c</sup>		0.6 <sup>c</sup>		-1.6 <sup>e</sup>	-2 <sup>c</sup>	0.28-0.37:	w <sup>c</sup>		h	l	h	h		l	h		0.06	0.3
1455	-11.2 <sup>c</sup>						0	w <sup>c</sup>				m	l						
1456	-21.8 <sup>c</sup>		0.5 <sup>c</sup>		-1 <sup>c</sup>	-7 <sup>f</sup>	0	w <sup>c</sup>		h	l	m	l		l	l		0.11	0.1
1457			0.7 <sup>c</sup>		-31 <sup>c</sup>	-107 <sup>f</sup>	10.7	c <sup>c</sup>		h	h	h	h		h	h			
1458	-15.7 <sup>c</sup>		0.9 <sup>f</sup>	0.4 <sup>c</sup>	-2 <sup>c</sup>	-4 <sup>c</sup>	0.1	c(w) <sup>c</sup>		h	h	h	h		h	h		0.48	0.2
1459					-40 <sup>c</sup>	-109 <sup>c</sup>	<0.1	c <sup>c</sup>		h	h	m	h		h	l			
1460	-15.6 <sup>c</sup>		0.5 <sup>c</sup>		-14 <sup>c</sup>	-20 <sup>c</sup>	1.6	c <sup>c</sup>		h	h	h	h		h	h		1.73	0.1
1461	-15.6 <sup>c</sup>		0.4 <sup>c</sup>		-3 <sup>c</sup>	-3.2 <sup>e</sup>	0.03	w <sup>c</sup>		h	l	h	m		l	h		0.93	0.2
1462			0.4 <sup>c</sup>		-33 <sup>c</sup>	-68.5 <sup>e</sup>	1.9-2.7	c <sup>c</sup>		h	h	h	h		h	h		1	0.1
1463	-13.8 <sup>c</sup>				-11 <sup>c</sup>			c <sup>c</sup>		h	h	h	h		h	l		1.05	0.1
1464	-13.8 <sup>c</sup>		0.6 <sup>c</sup>		-0.5 <sup>e</sup>	-1 <sup>c</sup>	0	w <sup>c</sup>		h	l	h	l		l	l		0.45	0.2
1465			0.3 <sup>c</sup>		-3 <sup>c</sup>	-3.3 <sup>e</sup>	0	w <sup>c</sup>		h	l	l	l		h	h		0.33	0.2
1466	-18.2 <sup>c</sup>				-47 <sup>c</sup>	-56 <sup>c</sup>	1.5-3.9	3.25	c <sup>c</sup>	h	h	h	h		h	l		2.80	0.1
1467																		3.66	0.2
1468			0.4 <sup>c</sup>		-6.7 <sup>e</sup>	-7 <sup>c</sup>	0	w <sup>c</sup>		h	l	l			l	h			
1469	-12.6 -16.9 <sup>c</sup>				-9 <sup>e</sup>		0	w w <sup>c</sup>		l	h	l			h	l		1.02	0.2
1470	-19.1 <sup>c</sup>		0.7 <sup>c</sup>		-0.8 <sup>e</sup>	-1 <sup>c</sup>	0	w <sup>c</sup>		h	l	m	l		h	h		0.91	0.2
1471			0.4 <sup>c</sup>		-5 <sup>c</sup>	-5.2 <sup>e</sup>	0	w <sup>c</sup>		h	l	l			l	l			
1472	-21.3 <sup>c</sup>		0.6 <sup>c</sup>		-18 <sup>c</sup>	-22 <sup>c</sup>	0.59-2.2	c <sup>c</sup>		h	h	m	h		h	l		1.12	0.1
1473			0.5 <sup>c</sup>		-6 <sup>c</sup>	-10.3 <sup>e</sup>	0.04-0.20	c <sup>c</sup>		h	h	h	h		l	h		0.26	0.2
1474	-6.3 <sup>c</sup>							w <sup>c</sup>				m							
1475	-20.3 <sup>c</sup>		0.8 <sup>f</sup>	0.6 <sup>c</sup>	-4 <sup>c</sup>	-7 <sup>f</sup>	0	w <sup>c</sup>		h	l	m	l		l	l		0.78	0.2
1476			0.5 <sup>c</sup>		-55 <sup>c</sup>		<0.1	c <sup>c</sup>		h	h	m	m		h	h		0.49	0.1
1477			0.3 <sup>c</sup>		-1.5 <sup>e</sup>	-2 <sup>c</sup>	0	w <sup>c</sup>		m	l	l			l	h		1.21	0.2
1478	-15 <sup>c</sup>		0.3 <sup>c</sup>		-5 <sup>c</sup>	-5.3 <sup>e</sup>	0	w <sup>c</sup>		h	l	h	l		h	l			
1479			0.4 <sup>c</sup>		-4.6 <sup>e</sup>	-5 <sup>c</sup>	0	w <sup>c</sup>		h	l	l			l			0.85	0.3
1480	-16.7 <sup>c</sup>		0.6 <sup>c</sup>	0.4 <sup>f</sup>	-13 <sup>c</sup>	-16 <sup>f</sup>	<0.1	c <sup>c</sup>		h	h	h	m		h	h		1.20	0.1
1481	-9.2 <sup>c</sup>		0.6 <sup>c</sup>		-5 <sup>c</sup>	-15 <sup>c</sup>	<0.1	c <sup>c</sup>		h	h	m	m		h	h		1.80	0.1
1482	-16.7 <sup>c</sup>		0.6 <sup>c</sup>		-8 <sup>f</sup>	-22 <sup>c</sup>	<0.1	c:(c) <sup>c</sup>		h	h	h	m		h	h		0.62	0.1
1483					-7 <sup>f</sup>					h					h				
1484	-22.4 <sup>c</sup>		1.2 <sup>c</sup>	0.5 <sup>f</sup>	-14 <sup>c</sup>	-65 <sup>c</sup>	<0.1	c <sup>c</sup>		h	h	m	m		h	h		2.15	0.1
1485	-25 <sup>c</sup>		0.5 <sup>c</sup>		-2 <sup>c</sup>	-2.3 <sup>e</sup>	0	w <sup>c</sup>		h	l	m	l		l	h		0.09	0.3
1486	-21.3 <sup>c</sup>		0.4 <sup>c</sup>		-2 <sup>c</sup>		0	w <sup>c</sup>		h	l	m	l		l	l		0.63	0.2
1487			0.6 <sup>c</sup>		-5 <sup>c</sup>		0.61-0.86	w <sup>c</sup>		h	l	h	h		h	h		0.41	0.2
1488	-15.7 <sup>c</sup>		0.5 <sup>c</sup>		-18 <sup>c</sup>	-35.3 <sup>e</sup>	<0.1	c <sup>c</sup>		h	h	h	m		h	h		0.64	0.1
1489					-8 <sup>c</sup>	-8.4 <sup>e</sup>	0	w <sup>c</sup>		l	l	l			h			1.03	0.1
1490			0.6 <sup>c</sup>		-18 <sup>f</sup>	-20 <sup>c</sup>		w:(c) <sup>c</sup>		h	h				h	h		2.65	0.1
1491	-7.5 <sup>c</sup>							w <sup>c</sup>				m							
1492	-7 <sup>c</sup>							w <sup>c</sup>				m							
1493			0.2 <sup>e</sup>		-26.3 <sup>e</sup>			c <sup>e</sup>		m	h				h				
1494	-10.7 <sup>c</sup>		0.9 <sup>c</sup>		-16 <sup>c</sup>		0	w(c) <sup>c</sup>		h	h	m	l		l	l		0.41	0.1
1495	-17.3 <sup>c</sup>		0.6 <sup>c</sup>		-4 <sup>c</sup>		0	w <sup>c</sup>		h	l	h	l		l	h			
1496	-16.5 <sup>c</sup>		0.5 <sup>c</sup>		-5 <sup>c</sup>		0	w <sup>c</sup>		h	l	h	l		l	l			0.2
1497	-11.8 <sup>c</sup>		0.5 <sup>c</sup>		-3 <sup>c</sup>	-3.1 <sup>e</sup>	0.23	w <sup>c</sup>		h	l	h	h		l	h			
1498			0.4 <sup>e</sup>		-7.6 <sup>e</sup>			c <sup>e</sup>		h	h				h			0.67	0.3
1499			0.4 <sup>e</sup>		-1.8 <sup>e</sup>			w <sup>e</sup>		h	l				h	l		0.13	0.1
1500	-2.6 <sup>c</sup>		0.4 <sup>c</sup>		-4 <sup>c</sup>	-4.3 <sup>e</sup>	0	w <sup>c</sup>		h	l	l	l		l	h			
1501	-14.3 <sup>c</sup>		0.5 <sup>c</sup>		-3 <sup>c</sup>	-3.2 <sup>e</sup>	0	w <sup>c</sup>		h	l	h	l		l	l		0.23	0.3
1502	-13.2 <sup>c</sup>				-51 <sup>c</sup>	-107 <sup>c</sup>	<0.1	c <sup>c</sup>		h	h	h	m		h	l		0.45	0.1
1503	-14.7 <sup>c</sup>		0.4 <sup>c</sup>		-2.8 <sup>e</sup>	-3 <sup>c</sup>	0	w <sup>c</sup>		h	l	h	l		l	h			
1504			0.3 <sup>e</sup>		-7.4 <sup>e</sup>			w <sup>e</sup>		h	l				l				

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV	PM [j]	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ 10 <sup>-8</sup> M $_{\odot}$ /yr	$L_{X,c}$ 10 <sup>30</sup> erg/s	TTS	Li	H $\alpha$	RV	$\dot{M}$ [c]	X-ray [b]	IR ex- cess [d]	Varia- bility [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) M $_{\odot}$
1505			0.5 <sup>e</sup>		-14.2 <sup>e</sup>				c <sup>e</sup>	h	h								
1506	-17.5 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1507		0.5 <sup>c</sup>			-0.6 <sup>e</sup>	-1 <sup>c</sup>	0		w <sup>c</sup>	h	l	l		l	l				
1508	-78.8 <sup>c</sup>	0.3 <sup>c</sup>			-15.9 <sup>e</sup>	-16 <sup>c</sup>	0.73		c <sup>c</sup>	m	h	l	h	h	h			0.51	0.1
1509	-13.9 <sup>c</sup>	0.5 <sup>c</sup>			-2 <sup>c</sup>	-2.2 <sup>e</sup>	<0.1		c(w) <sup>c</sup>	h	l	h	m	h	h			2.01	0.1
1510	-15.8 <sup>c</sup>	0.5 <sup>c</sup>			-1 <sup>c</sup>		0		w <sup>c</sup>	h	l	h	l	l	h			1.61	0.93
1511	-14.9 <sup>c</sup>	0.6 <sup>c</sup>			-2.7 <sup>e</sup>	-3 <sup>c</sup>			w <sup>c</sup>	h	l	h		l	l				
1512					-33.6 <sup>e</sup>	-48 <sup>c</sup>	<0.1		c <sup>c</sup>	h		m		h	h			3.07	0.1
1513		0.4 <sup>e</sup>			-1.3 <sup>e</sup>				w <sup>e</sup>	h	h			l				0.44	0.8
1514	-9 <sup>c</sup>	0.4 <sup>c</sup>			-3.6 <sup>e</sup>	-4 <sup>c</sup>	0		w <sup>c</sup>	h	l	m	l	l	l				
1515					-1.3 <sup>e</sup>				w <sup>e</sup>	l				l					0.2
1516		0.4 <sup>c</sup>			-2.6 <sup>e</sup>	-3 <sup>c</sup>	0		w <sup>c</sup>	h	l		l	h	h			1.34	0.2
1517		0.7 <sup>e</sup>			-6.7 <sup>e</sup>				w <sup>e</sup>	h	l							0.05	0.25
1518	-17 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1519	-14.9 <sup>c</sup>	0.4 <sup>c</sup>			-6 <sup>c</sup>	-6.4 <sup>e</sup>	<0.1		c:(w) <sup>c</sup>	h	l	h	m	h	h			0.54	0.1
1520	-11 <sup>c</sup>						0		w <sup>c</sup>		m	l							
1521	-19.3 <sup>c</sup>	0.4 <sup>c</sup>			-9 <sup>c</sup>	-15 <sup>f</sup>	<0.1		c <sup>c</sup>	h	h	m	m	h	h			1.47	0.1
1522	-14.5 <sup>c</sup>	0.4 <sup>c</sup>			-18 <sup>c</sup>	-47.1 <sup>e</sup>	0.62		c <sup>c</sup>	h	h	h	h	h	h			1.42	0.1
1523	-12 <sup>c</sup>	0.5 <sup>c</sup>			-2 <sup>c</sup>	-2.4 <sup>e</sup>	0		w <sup>c</sup>	h	l	h	l	l	h			0.61	0.2
1524	-11.6 <sup>c</sup>	0.5 <sup>c</sup>			-70 <sup>c</sup>	-150 <sup>c</sup>	0.79		c <sup>c</sup>	h	h	h	h		h			0.11	0.1
1525	-14 <sup>c</sup>	0.5 <sup>c</sup>			-26 <sup>c</sup>	-36.4 <sup>c</sup>	0.41		c <sup>c</sup>	h	h	h	h		h			0.66	0.1
1526	-14.9 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1527		0.4 <sup>c</sup>			-3 <sup>c</sup>	-3.3 <sup>e</sup>	0	37.4	w <sup>c</sup>	h	l	l	h	l	h				
1528	-14.4 <sup>c</sup>	0.4 <sup>c</sup>			-3 <sup>f</sup>	-4.4 <sup>e</sup>	0		w <sup>e</sup>	h	l	h	l	h	h				
1529	-11.4 <sup>c</sup>				-33 <sup>c</sup>	-61 <sup>c</sup>	0.18		c <sup>c</sup>	h	h	m	h	h	l			0.83	0.1
1530	-12.9 <sup>c</sup>	0.3 <sup>c</sup>			-73 <sup>c</sup>	-124.5 <sup>e</sup>	0.31-0.55		c <sup>c</sup>	m	h	h	h	h	h			0.11	0.1
1531	-13.1 <sup>c</sup>	0.4 <sup>c</sup>			-5 <sup>c</sup>	-5.4 <sup>e</sup>	0		w <sup>e</sup>	h	l	h	l	l	h				
1532	-15.1 <sup>c</sup>	0.5 <sup>c</sup>			-0.9 <sup>e</sup>	-1 <sup>c</sup>	0		w <sup>c</sup>	h	l	h	l	l	h			0.10	0.2
1533	-19.4 <sup>c</sup>				-10.9 <sup>e</sup>	-11 <sup>c</sup>	<0.1		c <sup>c</sup>	h	h	m	m	h	h			1.26	0.1
1534		1.3 <sup>c</sup>			-4 <sup>c</sup>		0		w <sup>e</sup>	h	h	l	l	l	h			0.78	0.3
1535	-35 <sup>c</sup>	0.5 <sup>c</sup>			-1.5 <sup>e</sup>	-2 <sup>c</sup>	0		w <sup>c</sup>	h	l	l	l	l	h			0.57	0.18
1536		0.5 <sup>c</sup>			-3 <sup>c</sup>		0		w <sup>c</sup>	h	l	l	l	l	h				
1537	-21.6 <sup>c</sup>	0.3 <sup>c</sup>			-6 <sup>c</sup>	-6.1 <sup>e</sup>	0		w <sup>e</sup>	h	l	m	l	l	h				
1538	-16.4 <sup>c</sup>	0.6 <sup>c</sup>			-4 <sup>c</sup>	-14 <sup>f</sup>	0		w <sup>c</sup>	h	h	h	l	l	h				
1539	-11 <sup>c</sup>				-1.7 <sup>e</sup>	-2 <sup>c</sup>	0		w <sup>c</sup>	l	m	l			l				
1540		0.5 <sup>e</sup>			-4.3 <sup>e</sup>				w: <sup>e</sup>	h	l								0.2
1541		0.4 <sup>e</sup>			-3.3 <sup>e</sup>				w: <sup>e</sup>	h	l								
1542	-11 <sup>c</sup>	0.1 <sup>c</sup>			-28 <sup>c</sup>				c <sup>c</sup>	l	h	m		h				1.21	0.1
1543	-73.1 <sup>c</sup>	0.4 <sup>c</sup>			-1.7 <sup>e</sup>	-2 <sup>c</sup>	0.43		w <sup>c</sup>	h	l	l	h	l				0.11	0.1
1544	-107.9 <sup>c</sup>	0.4 <sup>c</sup>			-1 <sup>c</sup>	-1.2 <sup>e</sup>	0		w <sup>e</sup>	h	l	l	l	l				0.93	0.1
1545	-14.9 <sup>c</sup>	0.6 <sup>c</sup>			-4 <sup>c</sup>	-4.2 <sup>e</sup>	0		w <sup>c</sup>	h	l	h	l	l				0.17	0.2
1546		0.4 <sup>e</sup>			-13.1 <sup>e</sup>				c <sup>e</sup>	h	h			h				0.84	0.2
1547	-16.5 <sup>c</sup>	0.5 <sup>c</sup>			-0.7 <sup>e</sup>	-1 <sup>c</sup>	0.37		w <sup>c</sup>	h	l	h	h	l				0.18	0.2
1548	-15.6 -13.4 <sup>c</sup>	0.3 <sup>e</sup>			-12.8 <sup>e</sup>		<0.1		c:(c) <sup>c</sup>	h	h	h	m	h				0.94	0.1
1549	-25.6 <sup>c</sup>								w <sup>c</sup>		m								
1550	-15.6 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1551	-9.8 <sup>c</sup>						0		w <sup>c</sup>		m	l							
1552	-8.1 <sup>c</sup>						0		w <sup>c</sup>		m	l							
1553	-22.2 <sup>c</sup>								w <sup>c</sup>		m								
1554	-22.7 <sup>c</sup>								w <sup>c</sup>		m								
1555	122 <sup>c</sup>				-16 <sup>c</sup>	-77 <sup>c</sup>	<0.1		c <sup>c</sup>	h	l	m		h				1.10	0.1
1556					-5.5 <sup>e</sup>				w: <sup>e</sup>	l									
1557	17.3 <sup>c</sup>	0.1 <sup>c</sup>			-20.7 <sup>e</sup>	-21 <sup>c</sup>	0		w:(c) <sup>c</sup>	l	h	l	l	h				2.99	0.1
1558	-12.8 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1559	-14.4 <sup>c</sup>				-4 <sup>c</sup>	-4.1 <sup>e</sup>	0		w <sup>c</sup>		l	h	l	h					
1560					-29 <sup>c</sup>	-29.4 <sup>e</sup>	<0.1		c <sup>c</sup>		h	m		h				1.04	0.1
1561	-17.1 <sup>c</sup>	0.7 <sup>c</sup>			-10 <sup>c</sup>	-23 <sup>c</sup>	<0.1		c <sup>c</sup>	h	h	h	m	h				1.20	0.1
1562	-20.5 <sup>c</sup>	0.3 <sup>c</sup>			-5 <sup>c</sup>	-5.3 <sup>e</sup>	0		w:(c) <sup>c</sup>	h	h	m	l	h				2.01	0.1
1563	-24.5 <sup>c</sup>								w <sup>c</sup>		m								
1564	-11.5 <sup>c</sup>	0.4 <sup>c</sup>			-10 <sup>c</sup>	-12 <sup>c</sup>	2.1		c <sup>c</sup>	h	h	h	h	h				0.18	0.1
1565	1.7 <sup>c</sup>	0.4 <sup>c</sup>			-8.7 <sup>e</sup>	-9 <sup>c</sup>	0		w: <sup>c</sup>	h	l	l	l	h					
1566	-8.5 <sup>c</sup>						0		w <sup>c</sup>		m	l							
1567		0.4 <sup>c</sup>			-31 <sup>c</sup>	-60.2 <sup>e</sup>	<0.1		c <sup>c</sup>	h	h	m		h				0.60	0.1
1568	-15.6 <sup>c</sup>	0.4 <sup>c</sup>			-12.7 <sup>e</sup>	-15 <sup>c</sup>	23.9		c <sup>c</sup>	h	h	h	h	h				1.90	0.1
1569	-21.3 <sup>c</sup>	0.5 <sup>c</sup>			-3 <sup>c</sup>				c:(w) <sup>c</sup>	h	l	m							
1570	-18.3 <sup>c</sup>						0		w <sup>c</sup>		h	l							
1571	-9.3 <sup>c</sup>	0.4 <sup>c</sup>			-7.8 <sup>e</sup>	-8 <sup>c</sup>			w <sup>c</sup>	h	l	m		h				0.82	0.1
1572	-15.8 <sup>c</sup>	0.6 <sup>c</sup>			-31 <sup>c</sup>	-47.1 <sup>e</sup>	0.14		c <sup>c</sup>	h	h	h	h	h				0.61	0.1
1573	-17.1 <sup>c</sup>	0.2 <sup>c</sup>			-4 <sup>c</sup>	-4.3 <sup>e</sup>	0		w <sup>e</sup>	m	l	h	l	l					
1574	-13.6 <sup>c</sup>	0.9 <sup>c</sup>			-7 <sup>c</sup>	-7.2 <sup>e</sup>	<0.1		c: <sup>c</sup>	h	l	h	m					0.44	0.1
1575	-12.4 <sup>c</sup>	0.5 <sup>c</sup>			-6.7 <sup>e</sup>	-7 <sup>c</sup>	0		w <sup>c</sup>	h	l	h	l	l				0.69	0.1
1576	-17 <sup>c</sup>						0		w <sup>e</sup>		h	l							
1577	-15.8 <sup>c</sup>				-21 <sup>c</sup>	-34 <sup>c</sup>	<0.1		c <sup>c</sup>	h	h	m		l					
1578	-5.1 <sup>c</sup>								w <sup>c</sup>		m								

Table 2 Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ 10 <sup>-8</sup> M $_{\odot}$ /yr	$L_{X,c}$ 10 <sup>30</sup> erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Varia- bility [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) M $_{\odot}$
1579	-11 <sup>c</sup>						0	w <sup>c</sup>				m	l						
1580	-13.5 <sup>c</sup>	0.5 <sup>c</sup>			-12 <sup>c</sup>	-22 <sup>c</sup>	0.05	c <sup>c</sup>	h	h	h	m					1.16	0.1	
1581		0.4 <sup>c</sup>			-75 <sup>c</sup>	-78 <sup>c</sup>	<0.1	c <sup>c</sup>	h	h		m		h			3.35	0.1	
1582	-13.2 <sup>c</sup>	0.3 <sup>c</sup>			-5 <sup>c</sup>	-18 <sup>c</sup>	<0.1	c <sup>c</sup>	h	h	h	m					0.69	0.1	
1583	-6.2 <sup>c</sup>				-16 <sup>c</sup>			c <sup>c</sup>	h		m								
1584	-13.1 <sup>c</sup>						0	w <sup>c</sup>			h	l							
1585	-19 <sup>c</sup>						0	w <sup>c</sup>				m	l						
1586					-41.3 <sup>e</sup>			c <sup>e</sup>		h				h			1.36	0.1	
1587	-16 <sup>c</sup>	0.5 <sup>c</sup>			-4 <sup>c</sup>	-8.5 <sup>e</sup>		c(w) <sup>c</sup>	h	l	h			h			2.09	0.2	
1588		0.4 <sup>e</sup>			-31.8 <sup>e</sup>			c <sup>e</sup>	h	h				h			1.79	0.1	
1589		0.3 <sup>e</sup>			-41.5 <sup>e</sup>			c <sup>e</sup>	m	h				h			1.66	0.1	
1590					-4.1 <sup>e</sup>			w <sup>e</sup>		l				h			1.36	0.2	
1591		0.4 <sup>c</sup>			-22.6 <sup>e</sup>	-23 <sup>c</sup>		w(c) <sup>c</sup>	h	h				h			1.21	0.1	
1592		0.3 <sup>c</sup>			-129 <sup>c</sup>			c <sup>c</sup>	h	h				h			2.44	0.1	
1593		0.1 <sup>c</sup>			-32 <sup>c</sup>	-54 <sup>c</sup>		c <sup>c</sup>	m	h				h			8.91	0.1	
1594					-41 <sup>e</sup>			c <sup>e</sup>		h				h			1.34	0.1	
1595		0.2 <sup>e</sup>			-21.3 <sup>e</sup>			c <sup>e</sup>	m	h				h	h		3.55	0.1	
1596					-30 <sup>c</sup>	-109 <sup>c</sup>		c <sup>c</sup>		h				h	h		3.99	0.1	
1597		0.5 <sup>c</sup>			-75.8 <sup>e</sup>	-76 <sup>c</sup>	0	w(c) <sup>c</sup>	h	h		l		h	h		5.57	0.1	
1598	-11.8 <sup>c</sup>				-46.9 <sup>e</sup>	-47 <sup>c</sup>		w:(c) <sup>c</sup>	h	h				h					
1599	-68.9 <sup>c</sup>				-78 <sup>c</sup>	-86 <sup>c</sup>		c <sup>c</sup>	h		l			h	h		2.16	0.1	
1600																	0.18	5	
1601																	0.97	7	
1602																	1.03	5	
1603																	2.52	6	
1604																	2.64	7	
1605																	0.21	4	
1606																	0.37	4	
1607																	0.53	3.5	
1608																	0.62	4	
1609																	1.44	6	
1610																	3.21	5.19	
1611																	1.39	4.5	
1612																	1.31	5	
1613																	5.64	7	
1614																	2.60	7	
1615																	2.11	7	
1616																	0.36	7	
1617																	2.35	5	
1618																	1.58	3.75	
1620																	1.22	4	
1621																	0.60	2.2	
1622																	1.79	5	
1623																	1.81	7	
1624																	3.02	6	
1625																	1.07	7	
1626																	1.01	3	
1641																	2.38	0.2	
1643																	1.61	1.4	
1651																	2.07	0.2	
1667																	0.80	1.5	
1706																	3.21	0.2	
1709																	4.63	0.43	
1713																	5.21	0.15	
1714																	1.08	2	
1719																	3.60	0.2	
1722																	1.94	1.3	
1723																	1.63	0.47	
1763															h				
1764															h				
1765															l				
1766															l				
1767							0					l							
1768															h				
1769															l				
1770															h				
1771															l				
1772							0					l			h				
1773															h				
1774															h				
1775															h				
1776															h				
1777															l				
1778															l				

**Table 2** Literature data and membership predictions for stars in Trumpler 37 – continued

No.	RV km/s	PM [j] %	EW(Li) max Å	EW(Li) min Å	EW(H $\alpha$ ) max Å	EW(H $\alpha$ ) min Å	$\dot{M}$ $10^{-8}$ $M_{\odot}/\text{yr}$	$L_{X,c}$ $10^{30}$ erg/s	TTS	Li	H $\alpha$	RV [c]	$\dot{M}$ [b]	X-ray	IR ex- cess [d]	Vari- ability [a,e,f]	PM [j]	$A_V$ (JHK) mag	Mass (models) $M_{\odot}$
1779																			
1780																			
1781																			
1782																			
1784																			
1785																			
1786																			
1787																			
1788																			
1789																			
1790																			
1791																			
1792																			
1793																			
1794																			
1795																			
1796																			
1798																			
1800																			
1801																			
1802						-60 <sup>c</sup>													
1803						-42 <sup>c</sup>													
1804	-22 <sup>c</sup>					-17 <sup>c</sup>													
1805	-17.3 <sup>c</sup>																		
1806	-14.4 <sup>c</sup>																		
1807	-15.8 <sup>c</sup>					-16 <sup>c</sup>													
1808	-12.2 <sup>c</sup>					-46 <sup>c</sup>													
1809																			
1810																			
1811																			
1814																			
1815																			
1816	-15 <sup>c</sup>							5.53	w: <sup>c</sup>			h		h					
1817																		0.31	1.5
1818								16.9	W <sup>b</sup>					h					
1819								0.75	W <sup>b</sup>					h					
1820								3.45	W <sup>b</sup>					h					
1821								2.68	W <sup>b</sup>					h					
1822								0.77	W <sup>b</sup>					h					
1823								2.17	W <sup>b</sup>					h					
1824								2.71	W <sup>b</sup>					h					
1825								1.98	W <sup>b</sup>					h					
1826								1.46	W <sup>b</sup>					h					
1827								3.47	W <sup>b</sup>					h					
1828								3.29	W <sup>b</sup>					h					
1829								19.8	W <sup>b</sup>					h					
1830								3.04	C <sup>b</sup>					h					
1831								3.47	W <sup>b</sup>					h					
1832								2.58	C <sup>b</sup>					h					
1833								0.81	W <sup>b</sup>					h					
1834								3.21	W <sup>b</sup>					h					
1835								3.08	W <sup>b</sup>					h					
1837																			
1838																			
1840																			
1845																			
1846																			
1847																			
1848																			
1856																			
1857																			
1866																			
1869																			
1872																			
1875																			
1876																			
1877																			

**Table A2** Literature data and membership probabilities for stars in Trumpler 37.

Remarks: The literature sources and numbering are the same as in Table 1, empty lines were omitted. The proper motion (PM) membership probability as it is given in [j]. If the literature gives more than one value for Li or H $\alpha$  equivalent width, the minimal and maximal values are given, otherwise the value is written in the maximum columns. The mass accretion  $\dot{M}$  is only from [c], the

corrected X-ray luminosity only from [b]. Column TTS indicates a classical (c) or a weak (w) T Tauri star. If an additional T Tauri state follows in parentheses, the classification differs between low and high resolution spectra (see source literature for more details), colons indicate uncertainty.

The next to last column gives the re-calculated extinction as described in the text. The last column contains the masses determined by the models by Siess et al. (2000) from the infrared color-magnitude diagram (Fig. 7).

**The membership prediction:** h, m and l stand for high, medium and low membership probability, as a result of the following criteria:

- Lithium absorption: see Table 3.
- H $\alpha$  emission: **if spectral type earlier than K0 and EW(H $\alpha$ ) < 0  $\rightarrow$  h, if spectral type later than K0 we follow White & Basri (2003) to distinguish between h and l.**
- radial velocity (RV): if within  $1\sigma$  (3.6 km/s) around  $-15$  km/s  $\rightarrow$  h, if within  $3\sigma$   $\rightarrow$  m, otherwise l.
- Accretion: if  $\dot{M} > 0.05 \cdot 10^{-8} M_{\odot}/\text{yr}$   $\rightarrow$  h, if  $\dot{M} > 0 \cdot 10^{-8} M_{\odot}/\text{yr}$   $\rightarrow$  m, if  $\dot{M} = 0 \cdot 10^{-8} M_{\odot}/\text{yr}$   $\rightarrow$  l.
- X-ray: [b] analyzed only bright X-ray sources with corrected luminosity  $L_{x,c} > 0.75 \cdot 10^{30}$  erg/s, so all  $\rightarrow$  h.
- Infrared excess: if excess visible in SEDs from Sicilia-Aguilar et al. (2006a), then h, otherwise l.
- Variability: if marked as “V” or “RI” in the source literature  $\rightarrow$  h, if “I”  $\rightarrow$  m, if marked as “N” or “No”  $\rightarrow$  l.
- Proper motion: if  $p \geq 75\%$   $\rightarrow$  h, if  $p \geq 50\%$   $\rightarrow$  m, otherwise l.