1976, *Astron. Astrophys. Suppl.* **23**, 393-411.

SPACE DISTRIBUTION AND KINEMATICS OF INTERMEDIATE POPULATION II STARS. PART I PHOTOMETRY AND SPECTROSCOPY IN SELECTED McCORMICK PROPER MOTION FIELDS

A. BLAAUW
Leiden Observatory, The Netherlands
C.R. TOLBERT*, R.M. WEST
European Southern Observatory

and

R.A. BARTAYA
Abastumani Astrophysical Observatory, USSR

Received July 15, 1975

uvby and Hβ photometry is reported for over 1000 stars brighter than about 13.5 mag. and located generally in the Galactic polar regions. Spectral types have also been determined for many of the stars.
These data constitute the initial phase of an extensive study of the space distribution and kinematics of the Intermediate Population II stars.

Key words: galactic structure – photoelectric photometry – spectra

1. INTRODUCTION

This report forms part I of a study of the kinematics of the Intermediate Population II stars. It brings together much of the photometric and spectral data that has been obtained to date in this project and provides a discussion of the techniques used to obtain them. Specifically, photometry has been obtained of more than 1000 stars, brighter than about 13.5 mag., in 57 fields selected from the McCormick Proper Motion Fields (van de Kamp and Vyssotsky 1937, Vyssotsky and Williams 1948). Most (51) of the fields lie within 30° of the Galactic poles. *uvby* and Hβ photometry have been completed for the proper motion stars in the fields and many of the stars have been classified on the MK system. A preliminary report on this programme was given by Blaauw (1968).

The McCormick Fields were originally selected by Vyssotsky, van de Kamp and Williams from the extensive plate material collected at the McCormick Observatory as part of its continuing parallax programme. The initial photographic plates were taken between 1914 and 1920, and proper motions were determined from this material in the 1930's and 1940's. New proper motions based on recent second epoch plates are now available for the stars in many of these fields (including all of the fields discussed in this paper) to an accuracy of 0.002 arc sec. per year or better (Blaauw, Garmany and Ianna 1976).

For the initial phase of the project, fields were selected near the Galactic poles to allow exploration of the variation of population characteristics with distance from the plane and to insure that, in practice, the number of stars per field were not excessive (about 20 stars per field at high latitudes as compared with 100 or more stars at lower latitudes). All but one of the McCormick Fields below latitude −60° have been

*On leave of absence from the University of Virginia 1974–1975. Also Visiting Astronomer at KPNO, operated by AURA, Inc., under contract with the NSF.

included in this study (25 fields) but only those fields above latitude $+60°$ containing stars fainter than magnitude 12.5 have been included (26 fields). Photometry has also been obtained in 6 fields at lower latitudes (the so-called Pilot Programme fields). Some additional fields near the NGP have been observed and will be reported elsewhere (Garmany and Ianna 1976). Figure 1 shows the distribution of the fields discussed in the present paper.

The use of *uvby* and Hβ photometry (Strömgren 1966) makes possible the clear separation of the stars into groups of differing metal content based mainly on the m_1 index. This, combined with the unambiguous reddening determinations (Crawford 1975), provides a direct method of population classification which is essential to the further analysis of the material.

2. THE PHOTOMETRY

The observations have been made during several observing runs over an eight year period at both the Kitt Peak National Observatory at Tucson, and the European Southern Observatory at La Silla in Chile. With the exception of the Hβ observations in 1971 and 1972, all the data were taken in the DC-mode, making use of the standard photometers and filters available at the two observatories. Table 1 gives a breakdown of the observing sessions based on the observer and the equipment used. In all cases the data were transformed to the standard *uvby*, Hβ system as defined at Kitt Peak and later published by Crawford and Mander (1966) and Crawford and Barnes (1970). The rms residuals for the standards were 0.019 in V, 0.012 in $(b–y)$, 0.017 in m_1, 0.023 in c_1 and 0.010 in Hβ averaged over the main observing sessions. Table 2 gives a breakdown of the residuals by observatory and equipment for these sessions. These residuals include both the error of the transformation as well as the observational error (estimated to be about 0.008 in V, 0.006 in $(b–y)$, 0.014 in m_1, 0.017 in c_1 and 0.008 in Hβ for a star of mag. $\simeq 5$).

In general, the data were reduced using the computer programmes available at KPNO and ESO, respectively. The transformation coefficients were independently determined for each filter combination during each observing run. These coefficients were then used to reduce all the data from that run. Table 3 gives the values obtained for the transformations. This table also gives the mean values of the extinction coefficients which were determined. The extinction was measured frequently during each run, but the variation was so minor that the mean values of each run were used. Note that the extinction coefficients are reasonably constant from year to year and even from observatory to observatory.

Because no automatic data acquisition was available at the time, all the observations from 1969, 1970 and 1971b and c were reduced by hand. A careful intercomparison of the data from the various sessions and observers revealed occasional systematic errors. Frequently these were small enough to be neglected (of the order of the average rms residuals), but occasionally larger systematic effects were found. For instance, the c_1 measures determined in 1970b were consistently discordant and were rejected. Apparently the H and I coefficients used were incorrect (see table 3). In the case of the Hβ observations, the inherent precision of the data enhanced the effects of the systematic differences. The 1971a observations produced β's 0.025 mag. smaller, in general, than the 1972 and the 1975 (50 cm) results. The 1971 (1 m) observations produced β's 0.030 mag. smaller. These differences do not appear to be magnitude dependent, and the standard stars reveal no systematic effect. It was assumed the cause of the deviations was connected with the fact that the standards were considerably brighter than the programme stars, this effect being accented in the case of a larger telescope. A systematic correction of the amount indicated above was therefore applied. In one case, 1971c, it was also necessary to apply a magnitude dependent correction to the *uvby* data due to an apparent miscalibration of the amplifier, and these data were then given only half weight in the final averages.

The visual magnitudes of the standard stars were taken from the Bright Star Catalog (Hoffleit 1964) if photoelectrically determined, or from the Navy Catalog of Photoelectric Photometry (Blanco *et al.* 1968). Thus it is clear that some of the residual error in the magnitudes is caused by this less than satisfactory

method of establishing the standard magnitudes for these stars. Unfortunately no general determination has yet been made of the magnitudes of the *uvby* standard stars.

In the initial SGP work, (1970b, 1971b), no visual magnitudes were determined from the data. When this fact gave rise to the lack of a magnitude for the star in the final listing, an estimated magnitude was substituted, taken from low quality observations made in 1972. These data were not used in the final averages and are only placed in the table where needed to indicate the magnitude.

Figure 2 shows the relation of the mean error per observation to the magnitude. The increase in the error towards fainter magnitudes is expected since each star was observed for a limited time in order to obtain as large a body of data as possible. In most cases the leveling off of the error around magnitude 11.5 is the result of the data for the fainter stars being taken on larger telescopes. The 1970a observations were, on the other hand, all made on a single telescope and the large errors for the fainter stars are the result. The fields observed in 1970a are marked in table 4 with a colon (:), and the stars in those fields fainter than 11.5 mag. generally have large mean errors. All of the additional scatter in the m_1 vs $(b-y)$ plot for the NGP fields (figure 4) is due to these stars.

3. SPECTROSCOPY

The spectral classes given in the McCormick Catalogues originate from several sources. Most classifications were taken over from the HD and HDE Catalogues and others were obtained from plates taken with the Metcalf 10″ telescope (mean dispersion 400 Å/mm in the blue) and the 24″ Clark reflector (mean dispersion 520 Å/mm in the blue). In order to provide a homogeneous basis for the present study, the NGP fields were reclassified in the MK System and the SGP fields were thoroughly checked by means of new plates.

For the spectral classification of programme stars in the 26 NGP fields, objective prism plates (Kodak IIa–O) were obtained in 1971 and 1972 with the 70 cm Menisc telescope in Abastumani. The spectra have a dispersion of 166 Å/mm at Hβ, the widening is 0.2 mm and the exposure time 30 min. For most of the plates, the limiting magnitude for two-dimensional classification is 12 mag. The spectral classification was carried out by one of us (R.A.B.) according to the methods discussed by Kharadze and Bartaya (1960). Most of the programme stars could be classified except for a few with severe overlapping. For the stars fainter than 12 mag. one-dimensional classification has been performed. Attempts to reach the faintest stars with unwidened spectra did not result in any significant improvement in the visual classification. Work on improving the classification by means of microphotometer recordings is in progress.

Plates of 25 SGP fields were obtained with the 40 cm GPO Astrograph at La Silla, Chile from 1970 to 1974. For details about this instrument, *cf.* Duflot and Fehrenbach (1962). Two or more plates were obtained for most of the fields, with a widening of 0.2–0.3 mm. A 2 h exposure (dispersion 110 Å/mm) reaches about 12 mag. The spectra were classified one-dimensionally by one of us (R.M.W.), according to the Marseilles scheme. The present classification was compared with the McCormick classification. No significant systematic discrepancies were noted, but several stars were wrongly classified in the McCormick Catalogue. For the present programme, the GPO spectral classes have been adopted.

The accuracy of the Abastumani MK Classification is estimated at ± 1 subclass and ± 1 luminosity class. The accuracy of the GPO classification is somewhat lower due to the strong wavelength dependence of the focal plane of the GPO; it is estimated at ± 2 subclasses.

Figure 3 is a plot of the Abastumani and GPO spectral classes against $(b-y)$. The diagram shows that there is a very good agreement between mean spectral types from Abastumani (NGP) and La Silla (SGP). The agreement with the mean Hyades relation for A5–G0 stars (Crawford and Perry 1966) is also good.

4. THE DATA

Table 4 is a listing of the fields observed, the identification of the central star, its magnitude, and its position in both the equatorial and galactic coordinate systems. The positions of the proper motion stars in the fields can

be determined relative to the central star by use of the X and Y positions listed in McCormick Publications 7 and 10. Because of the scale of the original plates, the programme stars are all within about 30 arc min. of the central star.

Table 5 contains the final values for the stars observed. Column 1 gives the McCormick Field number and column 2 gives the individual star number within each field. The spectral type and luminosity class are given in column 3 where available. Columns 4 through 11 give the photometric data along with the number of observations used to determine the magnitudes, colours, and β index, respectively. The last column contains the BD number of the star if available and references to the notes at the end of the table. Note that a colon (:) or double colon (::) beside a photometric measure indicates that the mean error per observation for that measure exceeds, respectively, 2 or 4 times the expected mean error for a 11 mag. star from figure 2. These expected mean errors for a single observation are 0.020 in V, 0.015 in $(b–y)$, 0.025 in m_1, 0.045 in c_1, and 0.025 in β.

Figure 4 is a plot of m_1, c_1 and β as a function of $(b–y)$ for all the stars in table 5. The points falling well outside the main distribution have been individually checked for computational errors and appear to be correct. Note that to insure that a β index observation was obtained for all stars earlier than G0, all the stars in several of the SGP fields were observed in Hβ. This accounts for the large number of β measures for stars later than G0 in the southern fields.

ACKNOWLEDGEMENTS

As in any large project, many peole have been very helpful in producing the final result. We particularly thank C.D. Garmany at the University of Virginia and T. van't Foort at ESO Hamburg for their help with the hand reductions. J. Barnes at KNPO and F. Middleburg at ESO Geneva provided active and indispensable assistance in the computer reductions. We also thank R. Havlen, M. de Groot, P. Ianna and C. Sterken for the use of their unpublished observations.

One of us (CRT) appreciates the kind hospitality extended by ESO Geneva and the Leiden Observatory.

This work was partially supported by NSF Grant GP 18162.

REFERENCES

Blaauw, A.: 1968, *European Southern Obs. Bull.*, **4**, 17.
Blaauw, A., Garmany, C.D. and Ianna, P.A.: 1976, (in preparation).
Blanco, V.M., Demers, S., Douglass, G.C. and FitzGerald, M.P.: 1968, *Publ. U.S. Naval Obs.* **21**, 1.
Bond, H.E.: 1970, *Astrophys. J. Suppl.* **184**, 117.
Crawford, D.L. and Perry, C.L.: 1966, *Astron. J.* **71**, 206.
Crawford, D.L. and Mander, J.: 1966, *Astron. J.* **71**, 114.
Crawford, D.L. and Barnes, J.M.: 1970, *Astron. J.* **75**, 978.
Crawford, D.L.: 1975, *Astron. J.* **80**, 955.
Duflot, M. and Fehrenbach, C.: 1965, *Comm. European Southern Obs.* **5**, 1.
Garmany, C.D. and Ianna, P.A.: 1976, (in preparation).
Hoffleit, D.: 1964, *Catalogue of Bright Stars*, Yale University Obs. New Haven.
Kamp, P. van de and Vyssotsky, A.N.: 1937, *Publ. Leander McCormick Obs.* **7**, 1.
Kharadze, E.K. and Bartaya, R.A.: 1960, *Bull. Abastumani Obs.* **25**, 139.
Strömgren, B.: 1966, *Ann. Rev. Astron. Astrophys.* **4**, 433.
Vyssotsky, A.N. and Williams, E.T.R.: 1948, *Publ. Leander McCormick Obs.* **10**, 1.

A. Blaauw
Leiden Observatory
Huygens Laboratory
Wassenaarseweg 78
NL – Leiden, The Netherlands

C.R. Tolbert
Leander McCormick Observatory
University of Virginia
Box 3818, University Station
Charlottesville, Virginia 22903, USA

R.M. West
ESO Sky Atlas Laboratory
c/o CERN
CH – 1211 Genève 23, Switzerland

R.A. Bartaya
Astrophysical Observatory
Abastumani 383762, Cruzinskaja SSR, USSR

1976A&AS...23..393B

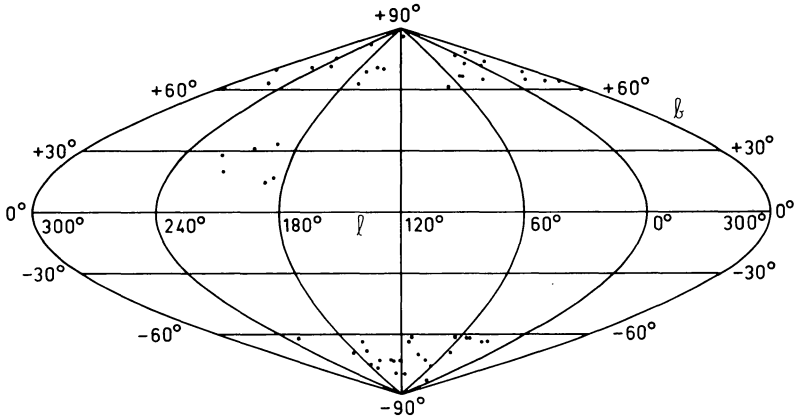

Figure 1 A plot showing the position in Galactic coordinates of the 57 McCormick Fields discussed in this paper.

Table 2 Average rms Residuals of Standard Stars (Major observing sessions only)

Date	Equipment	rms V	rms(b-y)	rms m_1	rms c_1	rms β
1968	KPNO, 91cm	0.021	0.012	0.018	0.033	--
1968	KPNO, 213cm	0.021	0.010	0.013	0.022	--
1970a	KPNO, 127cm	0.015	0.017	0.024	0.035	--
1974	ESO, 50cm	0.019	0.009	0.014	0.014	0.009
1974	ESO, 100cm	0.019	0.010	0.015	0.012	0.012
1975	ESO, 50cm	--	--	--	--	0.010
1975	ESO, 100cm	--	--	--	--	0.009

Table 1 Observing Sessions and Equipment

Date	Program	Telescope cm	Observatory	Filters	Observers
1968	NGP, Pilot	213,91	KPNO	uvby	Blaauw, Tolbert
1969	NGP	127	KPNO	Hβ	Tolbert
1970a	NGP	127	KPNO	uvby	Tolbert
1970b	SGP	100	ESO	uvby	West
1971a	NGP	127	KPNO	Hβ	Tolbert
1971b	SGP	100	ESO	uvby	West
1971c	SGP	100	ESO	uvby	Sterken
1972	NGP	91	KPNO	Hβ	Ianna
1973a	SGP	100	ESO	Hβ	Havlen
1973b	SGP	100	ESO	Hβ	de Groot
1974	SGP	100,50	ESO	uvby,Hβ	Tolbert, West
1975	NGP	100,50	ESO	Hβ	Blaauw

Table 3 Transformation and Extinction Coefficients

Date	Filters	B (m)	D	F	J	H	I	Ky	Kby	Km_1	Kc_1
1968	Set 6	0.038	1.100	0.978	-.163	1.050	.207	.155	.068	.053	.187
1968	Set 1	0	1.000	1.000	0	1.000	0	.155	.068	.053	.187
1969	9, 10	(1.320)									
1970a	Set 6	0.041	1.104	0.973	-.161	1.054	.218	.155	.068	.056	.143
1970b	uvby (1m)	-	0.906	0.922	.169	1.477	.726	-	.068	.049	.090
1971b	uvby (1m)	-	0.969	0.896	.125	0.988	.160	-	.058	.079	.184
1971c	uvby (1m)	0	1.066		0		0	.140	.055	.059	.174
1973	Hβ (1m)	(1.083)									
1974	uvby(.5m)	0.020	1.064	0.995	-.116	0.972	-.077	.150	.042	.074	.178
1974	Hβ (.5m)	(1.282)									
1974	uvby (1m)	0.051	1.040	0.984	-.108	0.944	-.040	.150	.042	.074	.178
1974	Hβ (1m)	(1.143)									
1975	Hβ (.5m)	(1.302)									
1975	Hβ (1m)	(1.043)									

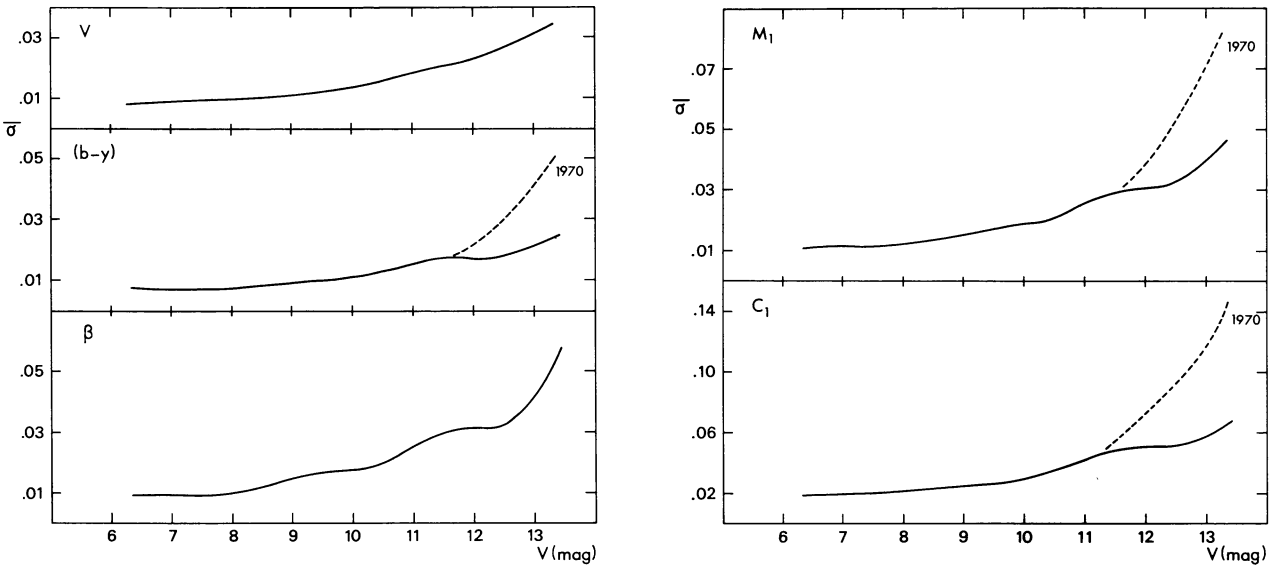

Figure 2 Rms error per observation as a function of magnitude. In most observing sessions the stars fainter than 11.5 mag. were observed on a larger telescope. The dashed line indicates the errors for the 1970a observing session when the data were taken on a single telescope.

Table 4

Field #	Central Star	α (1975)	δ (1975)	l	b	Program
3	9 Cet	$0^h\ 21^m.4$	$-12^\circ\ 21'$	81°	-73°	SGP
4	82 Cet	0 36.3	-24 54	27	-83	SGP
5	HD 3628	0 37.8	+ 2 59	110	-61	SGP
9	HD 4256	0 43.7	+ 1 40	111	-63	SGP
16	θ Cet	1 22.8	- 8 19	135	-73	SGP
23	τ Cet	1 42.9	-16 04	170	-77	SGP
26	χ Cet	1 48.5	-10 48	159	-73	SGP
31	o Cet	2 18.1	- 3 06	162	-63	SGP
32	HD 15144	2 24.8	-15 27	188	-69	SGP
43	α For	3 11.0	-29 05	229	-62	SGP
101	ι Gem	7 24.2	+27 52	189	+15	Pilot
102	ρ Gem	7 27.5	+31 51	185	+17	Pilot
112	β Cnc	8 15.2	+ 9 17	212	+20	Pilot
119	δ Cnc	8 43.3	+18 14	204	+31	Pilot
120	ι Cnc	8 45.2	+28 51	192	+33	Pilot
123	ζ Hya	8 54.1	+ 6 03	219	+28	Pilot
150	93 Leo	11 46.7	+20 21	224	+72	NGP
152	HD 103095	11 51.5	+37 54	167	+69	NGP
159:	β CVn	12 32.6	+41 29	141	+70	NGP
166:	θ Vir	13 08.7	- 5 24	304	+60	NGP
168	β Com	13 10.7	+28 01	107	+86	NGP
173:	70 Vir	13 27.2	+13 55	328	+78	NGP
174	o Vir	13 32.9	+ 3 49	319	+68	NGP
175	ζ Vir	13 33.4	- 0 28	318	+64	NGP
176	HD 118889	13 38.4	+10 53	333	+74	NGP
177:	η Boo	13 54.5	+18 32	6	+77	NGP
179:	α Boo	14 14.5	+19 19	17	+73	NGP
184	ξ Boo	14 50.2	+19 12	25	+65	NGP
189	β Boo	15 01.0	+40 29	72	+61	NGP
327	86 Aqr	23 05.3	-23 53	29	-63	SGP
328	89 Aqr	$23^h\ 08^m.6$	$-22^\circ\ 35'$	32°	-64°	SGP
332	HD 219617	23 15.7	-13 59	51	-62	SGP
346	ι Cet	0 18.2	- 8 58	99	-70	SGP
350	β Cet	0 42.4	-18 07	110	-80	SGP
352	19 Cet	0 48.9	-10 47	123	-73	SGP
356	HD 5659	0 56.8	-15 50	131	-79	SGP
359	η Cet	1 07.3	-10 19	137	-73	SGP
369	HD 10519	1 41.0	-18 01	177	-75	SGP
371	ζ Cet	1 50.2	-10 28	166	-68	SGP
542	ψ UMa	11 08.3	+44 37	166	+63	NGP
551	ν Vir	11 44.6	+ 6 39	262	+64	NGP
553:	β Leo	11 47.8	+14 42	251	+71	NGP
554	67 UMa	12 00.9	+43 11	153	+71	NGP
556:	HD 104785	12 02.8	+18 57	248	+76	NGP
562:	HD 107326	12 19.0	+26 09	221	+83	NGP
564:	γ Vir	12 40.4	- 1 19	298	+61	NGP
566:	32 Vir	12 44.4	+ 7 48	298	+70	NGP
569:	HD 111515	12 48.4	+ 1 20	301	+64	NGP
579:	HD 119850	13 44.3	+15 04	353	+72	NGP
580:	HD 120066	13 45.7	+ 6 29	338	+65	NGP
590	ρ Boo	14 30.8	+30 29	47	+67	NGP
592:	σ Boo	14 33.6	+29 51	45	+67	NGP
763	δ Aqr	22 53.4	-15 57	50	-61	SGP
769	91 Aqr	23 14.6	- 9 13	67	-61	SGP
770	HD 219834	23 17.7	-13 36	60	-65	SGP
773	HD 220515	23 23.1	-17 27	54	-68	SGP
780	HD 224619	23 58.0	-20 10	61	-76	SGP

: NGP fields observed in 1970. uvby values are uncertain for stars fainter than 11.5 mag.

Table 5

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
3	01	K0	8.49	3	0.720	0.494	0.426	3			-12 50
3	02	F2	10.93	1	0.246	0.127	0.528	3	2.696	3	-13 56
3	03	G0	11.10::	4	0.294:	0.167:	0.418	4	2.668	4	SEE NOTE 1
3	04	G5	12.01	3	0.406	0.220	0.374	3	2.632	3	
3	05	F8	9.37	1	0.343	0.166	0.374	3	2.654	3	-13 59
3	06	G8	10.81	3	0.460	0.304	0.298	3			-12 52
3	07	G5	11.10	4	0.502	0.332	0.328	4			-13 62
3	08	G2	11.48	4	0.363	0.145	0.334	4	2.622	4	-12 54
3	09	K:	12.29	3	1.013	0.299::	0.185	3			
3	10	G0	12.03	3	0.378	0.224	0.281	3	2.631:	3	
3	11	M2	9.94	3	1.104	0.416	0.676	3			-13 66
3	12	G2	11.68	3	0.441:	0.156	0.398:	3	2.618:	3	-12 57
3	13	F5	9.50	1	0.311	0.161	0.433	3	2.659	3	-12 60
4	01	G5	11.37	3	0.612	0.345	0.365	3	2.559	3	-25 203
4	02	G2	10.85	4	0.396	0.173	0.392	4	2.605	4	-25 204
4	03	K0	7.99	3	0.635	0.426	0.425	3	2.569	1	-25 207
4	04	G0	12.21	3	0.444	0.177	0.407	3			-25 208
4	05	M5	8.16	3	1.218	0.147	1.018	3			-25 212
4	06	G5	8.89	3	0.564	0.377	0.391	3	2.586	3	-25 213
4	07	F8	12.11	2	0.364	0.098	0.447	2	2.580	2	
4	08	G8	10.90	4	0.403	0.173	0.303	4			-25 215
4	09	G0	12.27	3	0.733	0.499	0.387	3	2.547	3	-25 220
4	10	G0	7.94	3	0.482	0.293	0.408	3	2.589	3	-25 221
4	11	G0	8.17	3	0.385	0.210	0.332	3	2.595	3	-25 222
4	12	G5	11.84	3	0.469	0.242	0.300	3	2.548	3	-25 224
4	13	F5	10.45	2	0.317	0.152	0.459	2	2.650	3	-25 226
4	14	G8	10.67	4	0.672	0.475	0.402	4	2.537	1	-25 232
4	15	A5	8.54	2	0.120	0.196	0.903	2	2.860	1	-25 233
4	16	K0	6.40	3	0.913	0.720	0.472	3			-25 234
5	01	F0	9.79	1	0.216	0.144	0.684	1	2.757	1	+ 2 79
5	02	F0	11.92	2	0.236	0.130:	0.615	2	2.719	2	
5	03	K0	6.40	2	0.819	0.602	0.471	2	2.553	2	+ 2 80
5	04	G0	12.04	2	0.578	0.030	0.381	2	2.681	2	
5	05	G0	9.85	1	0.381	0.182	0.365	1	2.600	1	SEE NOTE 2
5	06		11.30	2	0.399	0.179	0.333	2	2.584:	2	SEE NOTE 3
5	07	K5	7.66	2	0.633	0.452	0.400	2	2.549	2	+ 1 108
5	08	F8	11.99:	2	0.432	0.005	0.661	2	2.606	2	
5	10		11.08	3	0.317	0.100	0.425	3	2.628	3	SEE NOTE 4
5	09	G2	10.40	2	0.350	0.180	0.314	2	2.573	2	
5	12	K5	11.61	3	0.583	0.415	0.492:	3	2.532:	3	SEE NOTE 5
5	13	F5	11.69	2	0.329	0.157	0.224	2	2.608	2	
5	14	G5	11.11	2	0.566	0.344:	0.354	2	2.573:	2	
5	15	F8	12.29	1	0.406	0.115	0.526	1	2.634	1	
5	16	F5	9.75	2	0.289	0.175	0.471	2	2.670	2	SEE NOTE 6
5	18	F8	10.63	2	0.298	0.176	0.395	2	2.655	2	
5	19	G:	12.29	1	0.729	0.220	1.476	1	2.599	1	
5	20	G0	12.31	1	0.404	0.133	0.371	1	2.581	1	
5	21	K-M:	12.16	1	0.961	0.253	0.761	1	2.628	1	
5	22	G0	10.87	2	0.381	0.196	0.358	2	2.609	2	
5	23	F8	11.17	2	0.331:	0.165	0.418	2	2.630:	2	
5	24	G5	11.58	1	0.614	0.295	0.488	1	2.594	1	
5	25	G5	11.72	1	0.546	0.237	0.244	1	2.619	1	
5	26	G2	11.11	2	0.386	0.213:	0.414	2	2.622	2	
5	27	G2	12.08	1	0.401	0.114	0.205	1	2.745	1	
5	28	G2	12.02	1	0.419	0.229	0.310	1	2.632	1	

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
9	01	K0	10.09	3	0.674	0.477	0.459	3	2.604	3	+ 0 113
9	02	K0	10.60	4	0.610	0.442	0.451:	4	2.593:	4	+ 1 123
9	03	F2	8.00	4	0.225	0.166	0.708	4	2.721	4	+ 1 124
9	04	F0	11.57	3	0.251	0.127	0.553	3	2.677	3	
9	05	F2	10.51	3	0.318	0.109	0.418	3	2.628	3	
9	06	G0	12.18:	3	0.371	0.162	0.322	3	2.666	3	
9	07	F8	11.63	3	0.351	0.160	0.409	3	2.619	3	
9	08	G5	11.87	3	0.448	0.286	0.409	3	2.636	3	
9	09	G2	11.44	3	0.399	0.114	0.414	3	2.616	3	
9	10	G5	11.97	2	0.444	0.223	0.220	2	2.572	2	
9	11	K2	9.07	3	0.686	0.469	0.461	3	2.605	3	+ 0 115
9	12	K0	10.98	4	0.571	0.376	0.382	4	2.547	4	
9	13	G5	10.13	3	0.413	0.202	0.342	3	2.608	2	+ 1 134
9	14	K0	11.96	3	0.484	0.227	0.313	3	2.513	2	
9	15	K0	9.82	3	0.575	0.341	0.348	3	2.571	4	+ 1 135
16	01	K2	11.57	2	0.680:	0.446:	0.714:	2			
16	02	K0	12.07	2	0.464	0.251:	0.375:	2			
16	03	G2	11.45	3	0.413	0.175	0.317	3	2.566	3	
16	04	G8	10.02	3	0.560	0.320	0.365	3			- 8 239
16	05	K0	10.68	3	0.670	0.468	0.399	3			- 8 241
16	06	G5	9.73	3	0.607	0.377	0.448	3	2.573	3	- 9 266
16	07	F8	12.47	2	0.362:	0.104:	0.393	2	2.590	2	
16	08	G5	11.80	2	0.544	0.427:	0.319:	2	2.513	2	
16	09	G2	12.63:	2	0.505	0.075	0.343	2	2.616	2	
16	10		12.18:	2	0.461:	0.374::	0.456	2	2.473:	2	
16	11	A5	6.21	3	0.131	0.199	0.853	3	2.808	3	- 8 243
16	12	G2	10.56	3	0.387	0.169	0.357	3	2.624	3	- 9 269
16	13	G0	11.53	3	0.386	0.198	0.424	3	2.572	3	
16	14	F8	11.66	3	0.356	0.086	0.393	3	2.590	3	- 8 245
16	15	G2	11.91	3	0.438	0.254	0.401	3	2.577:	3	
16	16	K5	11.60	3	0.623:	0.560:	0.298	3			
23	01	G2	11.38	2	0.402	0.161	0.288	3	2.628	3	-16 290
23	02	F8:	12.70	2	0.387	0.189	0.328	3	2.569:	3	
23	03	G0	11.92	2	0.374	0.193	0.265:	3	2.588	3	
23	04	G5	11.26	2	0.411	0.148	0.324	3	2.622	3	-16 291
23	05	G8	12.38::	2	0.445:	0.259	0.328:	3	2.522	1	
23	06	G0	10.92:	5	0.304	0.171	0.452	6	2.607	6	SEE NOTE 7
23	08	G8	11.93:	2	0.575	0.308:	0.507:	3			
23	09	M2	11.13	2	0.983	0.755	0.391:	3			-16 294
23	10	F:	13.22::	2	0.433	0.125	0.320	3	2.526:	3	
23	11	G2	11.77	2	0.418	0.174	0.277:	3	2.558	1	
23	12	G5	12.86	2	0.558:	0.159::	0.337	3			
23	13	K0	10.90	2	0.661	0.412	0.390:	3			-16 297
23	14	F0	11.33	2	0.297	0.125	0.442	3	2.645:	5	-16 298
23	15	G0	8.50	1	0.392	0.176	0.318	3	2.607	3	-16 301
23	16	G:	13.17	2	0.449:	0.164:	0.408:	3			
23	17	G0	13.24	2	0.413	0.189	0.321	3	2.564:	4	
23	18	K0	12.90:	2	0.483	0.196	0.392	3	2.542	1	
23	19	G2	11.15	2	0.364	0.171	0.327	3	2.610	3	-16 302
23	20	F8	12.62	2	0.392	0.145:	0.302:	3	2.584	3	
26	01	F2	11.25	3	0.311	0.126	0.388	3	2.617	3	
26	02	K0	9.52	3	0.676	0.447	0.457	3			-11 348
26	03	K0	9.70	3	0.643	0.443	0.393	3			-11 349
26	04	K0	11.66	5	0.508	0.388	0.328	7	2.590	1	SEE NOTE 8
26	05	K5	10.13	3	0.938	0.691	0.433	3			-11 356

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
31	01	G8	12.52:	3	0.618	0.424:	0.448:	3			
31	02	G	12.88:	3	0.551:	0.258::	0.578	3	2.557:	3	SEE NOTE 9
31	03	K2	11.62	3	0.627	0.476	0.422	3			
31	04	F8	12.57	3	0.421:	0.112:	0.318	3	2.602	3	
31	05	K5	11.41	4	0.605	0.453:	0.427:	4			
31	06	G2	9.48	3	0.368	0.187	0.433	3	2.627	3	- 3 347
31	07		12.36:	3	0.392	0.196	0.308	3	2.572	3	
31	08	G5	12.48:	3	0.604	0.298	0.442	3	2.506:	3	
31	09	G5	10.97	3	0.408	0.248	0.333	3			- 3 348
31	10	G8	11.70	5	0.467	0.254	0.316	5			
31	11	K0	12.76:	3	0.576	0.405:	0.335:	3	2.535	2	
31	12	G5	11.13:	3	0.696	0.469	0.413	3			
31	13	K0	10.25	3	0.650	0.365	0.440	3			
31	14	M0	9.29	2	0.909	0.730	0.401	2			- 3 355
31	15	G8	11.82:	5	0.494	0.311	0.395	5			SEE NOTE 9
31	16	G5	12.76	2	0.392	0.250:	0.194:	2	2.632	2	
31	17	F5	10.64	2	0.319	0.162	0.419	2	2.675	3	- 3 356
31	18	A8	10.79::	2	0.181:	0.143	0.842	2	2.755	3	- 3 357
31	19	G2	11.19	3	0.409	0.163	0.372	3	2.638	3	
32	01	G2	11.0	0	0.391	0.154	0.329	2	2.651	1	-15 422
32	02	K2	11.5	0	0.600	0.338	0.403	2			
32	03	G0	11.2	0	0.351	0.169	0.283	2	2.601	1	
32	04	G5	10.4	0	0.476	0.288	0.307	2			-15 424
32	05	G5	10.7	0	0.561	0.330	0.301	2			-15 427
32	06	G0	12.1	0	0.511	0.300	0.420	2	2.581	1	
32	07	G2	10.5	0	0.458	0.244	0.377	2	2.610	1	-15 429
32	08	G8	10.4	0	0.463	0.242	0.225	2			-16 444
32	09	M0	10.2	0	0.865	0.755	0.265:	2			-15 432
43	01	G5	9.92	1	0.402	0.206	0.343	3			-29 1167
43	02	F8	11.5	0	0.363	0.147	0.351	2	2.589	1	-29 1168
43	03	G5	11.87:	2	0.385	0.170	0.289	4	2.579	1	-29 1171
43	04	G5	6.96	1	0.625	0.418	0.449	4			-29 1174
43	05	K0	9.83	1	0.499	0.315	0.300	3			-29 1176
43	06	F0	9.65	1	0.206:	0.170:	0.733	3	2.700	1	-29 1178
43	07	K5	11.2	0	0.657	0.495	0.403	2			-29 1179
43	08	G8	11.4	0	0.619	0.379	0.348	2			-29 1181
43	09	K0	7.71	1	0.592	0.406	0.414	3			-29 1182
43	10	K2	11.2	0	0.633	0.316	0.352	2			
43	11	G0	7.85	1	0.387	0.203	0.401	3	2.604	1	-29 1183
101	01		11.90	2	0.617	0.402	0.409	2			
101	02		11.61	4	0.588	0.318	0.392	4			
101	04		12.24	2	0.315	0.174:	0.499:	2			
101	05		12.07	2	0.454	0.233	0.270	2			
101	06		12.22	2	0.343	0.143	0.464	2			
101	07		11.31	2	0.329	0.204	0.378	2			
101	12		11.86	4	0.322	0.140	0.467	4			
101	14		9.68	2	0.563	0.348	0.406	2			+28 1379
101	16		5.78	2	0.217	0.222	0.703	2			+27 1374
101	17		10.38	2	0.548	0.404	0.308:	2			+28 1380
101	18		12.59	2	0.802	0.617	0.430	2			
101	19		9.15	2	0.353	0.155	0.449	2			+28 1381
101	20		12.42:	3	0.539:	0.182:	0.393	3			
101	21		11.55	2	0.321	0.200	0.403:	2			
101	23		11.89	3	0.617	0.362	0.394	3			

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
101	25		9.62	3	0.397::	0.192	0.485:	3			+27 1377
101	27		11.89	2	0.697	0.647	0.295	2			
101	29		11.74	4	0.230	0.160	0.706	4			
101	30		12.73	2	0.325	0.158	0.479	2			
101	31		12.55	2	0.614	0.281	0.371	2			
101	32		12.20	2	0.348	0.095	0.447	2			
101	33		12.04	3	0.521	0.291	0.354	3			
101	34		12.08	3	0.174	0.212	0.838	3			
101	36		12.41	1	0.608	0.613	0.626	1			
101	37		10.80	2	0.665	0.484	0.358	2			
101	39		11.11	2	0.249	0.166	0.835	2			
101	40		12.84	1	0.293	0.200	0.442	1			
101	41		9.78	2	0.676	0.473	0.395	2			+27 1380
101	42		11.00	2	0.897	0.694	0.283:	2			
101	43		11.16	2	0.324	0.150	0.518	2			+27 1381
101	44		11.96	4	0.353	0.148	0.489	4			
101	45		11.81	3	0.312:	0.115	0.542	3			
101	46		12.58	1	0.365	0.431	0.495	1			
101	47		10.58:	2	1.615	-1.208	2.426	2			
101	48		12.18	2	0.237	0.181	0.723	2			
101	50		12.31	1	0.339	0.075	0.615	1			
101	51		9.86::	2	0.633	0.306	0.461	2			+27 1384
101	52		12.74	1	0.532	0.436	0.298	1			
101	53		12.56	1	0.297	0.114	0.457	1			
101	54		12.58	1	0.474	0.272	0.367	1			
101	57		8.93	1	0.579	0.377	0.440	1			+27 1385
101	58		11.62	2	0.605	0.224:	0.476:	2			
101	61		12.48	1	0.484	0.403	0.575	1			
101	62		11.75	2	0.222	0.162	0.619	2			
101	63		12.66	1	0.502	0.516	0.631	1			
101	64		11.65	2	0.817	0.563	0.396::	2			
101	65		9.24	1	0.331	0.168	0.427	1			+28 1391
101	66		11.99	1	0.652	0.269	0.462	1			
101	67		12.72	1	0.682	0.436	0.364	1			
101	68		12.33	1	0.689	0.524	0.380	1			
101	69		11.92	3	0.311	0.160	0.430	3			
101	70		12.07	1	0.287	0.119	0.567	1			
102	01		7.14	2	0.550	0.303	0.428	2			+31 1574
102	02		11.75	2	0.635	0.318:	0.536:	2			
102	03		9.58	2	0.038	0.168	1.067	2			+31 1576
102	04		8.27	2	0.958	0.744	0.353	2			+32 1550
102	05		10.91	2	0.298	0.171	0.446	2			
102	06		10.08	2	0.327	0.181	0.483	2			+32 1551
102	07		11.50	2	0.308	0.186	0.438	2			
102	08		11.81	2	0.331	0.164	0.357	2			
102	09		9.98	2	0.935	0.692	0.397	2			+32 1554
102	10		11.79	2	0.696	0.377	0.442:	2			
102	11		11.71	2	0.563	0.313:	0.470:	2			
102	12		10.94	2	0.813	0.663	0.446:	2			
102	13		9.62	2	0.196	0.239	0.725	2			+31 1581
102	14		12.08	2	0.616:	0.494	0.242	2			
102	15		9.53	2	0.587	0.336	0.402	2			+32 1556
102	16		10.46	2	0.270	0.127	0.540	2			+31 1585
102	17		10.33	2	0.486	0.325	0.335	2			+31 1586
102	18		11.72	2	0.324	0.120	0.593::	2			
102	19		11.89	2	0.344	0.139	0.415	2			
102	20		9.79	2	0.559	0.185	0.483	2			+31 1588

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
102	21		11.34	3	0.323	0.134	0.411	3			
102	22		7.71	2	0.542	0.431	0.282	2			+32 1561
102	23		9.70	2	0.285	0.165	0.471	2			+31 1589
102	24		11.85	2	0.442	0.213	0.338	2			
102	25		11.51	4	0.038	0.130	1.097	4			
102	26		11.87	2	0.986:	0.709	0.558::	2			
102	27		10.71	2	0.304	0.160	0.521	2			+31 1593
102	28		11.18	2	0.622:	0.540	0.182	2			
102	29		11.89	2	0.357	0.123	0.513	2			
102	30		11.49	4	0.329	0.188	0.397	4			
102	31		10.67	2	0.585	0.271	0.461	2			
102	32		11.84	2	0.784	0.394:	0.635::	2			
102	33		11.65	2	0.321	0.190	0.378	2			
102	34		10.87	3	0.831	0.589	0.401	3			
102	35		10.22	2	0.395	0.218	0.405	2			
102	36		11.78	2	0.595	0.252	0.458:	2			
102	37		8.98	2	0.013	0.161	0.981	2			+31 1599
102	38		11.86	2	0.642	0.289:	0.530:	2			
102	39		8.98	2	0.589	0.397	0.426	2			+31 1601
112	01		11.47	2	0.351	0.204	0.302	2			
112	02		12.37	1	0.690	0.531	0.344	1			
112	03		11.62	2	0.374	0.220	0.402	2			
112	04		11.48	2	0.597	0.446	0.359	2			
112	05		11.61	2	0.381	0.210	0.321	2			
112	06		11.62	2	0.265	0.144	0.451	2			
112	07		13.50	1	0.361	0.166	0.281	1			
112	08		12.44	1	0.620	0.451	0.260	1			
112	09		12.23	3	0.737	0.556	0.520	3			
112	10		11.74	3	0.466:	0.300	0.323	3			
112	11		11.99	3	0.665	0.416	0.417:	3			
112	12		11.56	2	0.308	0.137	0.474	2			
112	13		11.82	1	0.381	0.148	0.429	1			
112	14		11.01	2	0.614	0.418	0.399	2			
112	15		12.30	1	0.566	0.328	0.279	1			
112	16		10.43	3	0.668	0.531	0.366	3			+ 9 1913
112	17		10.97	2	0.618	0.459	0.354	2			
112	18		7.64	2	0.846	0.693	0.314	2			+ 9 1915
112	19		11.43	2	1.006	0.842	0.216::	2			
112	20		12.38	1	0.293	0.236	0.417	1			
112	21		10.78	2	0.327	0.157	0.291	2			
112	22		12.20	1	0.346	0.072	0.441	1			
112	23		12.36	2	0.673:	0.426:	0.383	2			
112	24		12.64	1	0.316	0.123	0.502	1			
112	25		9.30	2	0.329	0.160	0.414	2			+ 9 1919
112	26		10.70	2	0.197	0.203	0.735	2			
112	27		12.04	1	0.320	0.177	0.392	1			
112	28		11.90	3	0.346	0.170	0.359	3			
112	29		11.64	1	0.396	0.178	0.399	1			
112	30		10.41	1	0.298	0.152	0.444	1			+ 9 1920
112	31		11.77	1	0.632	0.442	0.378	1			
112	32		12.03	2	0.269	0.152	0.490	2			
112	33		11.66	2	0.549	0.206	0.508	2			
112	34		11.34	1	0.219	0.171	0.636	1			
112	35		12.06	1	0.505	0.327	0.432	1			
112	36		11.96	3	0.595:	0.379	0.469	3			
112	37		10.64	1	0.345	0.232	0.351	1			
112	38		7.29	2	1.045	0.797	0.237	2			+ 9 1922
112	39		9.97	1	0.300	0.145	0.459	1			+ 9 1923
112	40		11.84	2	0.307	0.214	0.372	2			
112	41		12.52	1	0.466	0.293	0.369	1			
112	42		12.43	1	0.345	0.218	0.444	1			
112	43		10.09	2	0.353	0.157	0.413	2			+ 9 1924
112	44		9.33	2	0.787	0.731	0.320	2			+ 9 1926
112	45		12.05	1	0.282	0.187	0.459	1			
112	46		11.19	2	0.602	0.454	0.315	2			
112	47		12.44	1	0.604	0.394	0.346	1			
112	48		11.69	2	0.538	0.425	0.230:	2			
112	49		7.12	3	-0.076	0.114	0.389	3			+ 9 1927
112	50		8.76	3	0.107	0.276	0.854	3			+ 9 1928
112	51		12.44	1	0.339	0.133	0.405	1			
112	52		10.94	1	0.556	0.336	0.399	1			
112	53		11.64	3	0.556	0.326:	0.516	3			
112	54		12.30	1	0.330	0.160	0.435	1			
119	01		8.03	2	0.769	0.643	0.333	2			+18 2022
119	02		11.88	1	0.337	0.169	0.326	1			
119	03		11.64	1	0.204	0.188	0.642	1			
119	04		10.71	1	0.777	0.436	0.410	1			
119	05		10.32	1	0.137	0.189	0.878	1			+18 2023
119	06		10.07	2	0.854	0.658	0.394	2			+18 2024
119	07		12.37	1	0.370	0.142	0.405	1			
119	08		9.08	2	0.189	0.164	0.710	2			+18 2025
119	09		11.88	1	0.360	0.142	0.382	1			
119	10		10.98	2	0.652	0.292	0.365	2			
119	11		11.05	2	0.335	0.206	0.321	2			
119	12		11.18	2	0.315	0.157	0.508	2			
119	13		12.36	1	0.621	0.522	0.426	1			
119	14		11.63	2	0.344	0.272:	0.384	2			
119	15		12.06	2	0.567	0.282	0.381	2			
119	16		11.80	2	0.372	0.141	0.384	2			
119	17		10.38	2	1.220	0.102	0.915	2			
119	18		11.52	3	0.333	0.172	0.373	3			
119	19		9.92	1	0.325	0.162	0.429	1			+18 2026
119	20		12.63	2	0.325	0.180	0.394	2			
119	21		11.83	1	0.364	0.129	0.388	1			
119	22		11.98	2	0.367	0.114	0.440	2			
119	23		9.84	2	0.557	0.391	0.414	2			+18 2028
119	24		12.58	2	0.678	0.498	0.394	2			
119	25		9.01	2	0.257	0.191	0.518	2			+18 2030
119	26		11.92	1	0.457	0.225	0.389	1			
119	27		11.53	4	0.365	0.153	0.309	4			
119	28		11.14	1	0.749	0.575	0.336	1			
119	29		12.13	1	0.299	0.150	0.484	1			
119	30		8.27	1	0.132	0.216	0.830	1			+18 2034
119	31		9.90	1	0.419	0.284	0.284	1			+18 2036
119	32		11.38	2	0.319	0.140	0.482	2			
119	33		10.90	1	0.353	0.137	0.473	1			+18 2039
120	01		9.32	3	0.411	0.238	0.347	3			+29 1819
120	02		7.35	3	0.282	0.164	0.430	3			+28 1642
120	03		11.80	2	0.407	0.220	0.373	2			
120	04		11.39	2	0.322:	0.215	0.355	2			
120	05		11.05	2	0.593	0.255	0.583	2			+28 1643
120	06		9.48	2	0.332	0.168	0.363	2			+29 1821
120	07		11.25	2	0.413	0.166	0.296	2			
120	08		9.40:	2	0.925	0.727	0.259:	2			+29 1822
120	09		11.36	3	0.422	0.202	0.391	3			
120	11		12.31	1	0.558	0.426	0.568	1			

1976A&AS...23..393B

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
120	12		12.47	1	0.380	0.171	0.285	1			
120	13		11.35::	3	0.377	0.141	0.424	3			
120	14		12.27	1	0.402	0.160	0.386	1			
120	15		11.62	3	0.611	0.498:	0.374:	3			
120	16		11.42	2	0.726	0.419	0.507:	2			
120	17		11.96	2	0.495	0.281	0.467	2			
120	18		8.72	4	0.842	0.673	0.358	4			+29 1826
120	22		11.77	2	0.265	0.227	0.348	2			
120	23		9.19	2	0.669	0.471	0.449	2			+29 1827
120	25		11.12	2	0.435	0.140	0.385:	2			
120	26		10.94	2	0.851	0.630	-0.126:	2			
123	01		10.43	2	0.291	0.141	0.615	2			
123	02		12.39	2	0.741	0.492	0.373	2			
123	03		11.72	2	0.344	0.186	0.327	2			
123	04		12.07	2	0.298	0.142	0.495	2			
123	05		11.13	2	0.637	0.372	0.503	2			
123	06		10.74	2	0.672	0.489	0.482	2			
123	07		10.95	2	0.697	0.523	0.400	2			
123	08		10.04	2	0.345	0.154	0.357	2			+ 6 2058
123	09		10.66	2	0.379	0.234	0.410	2			
123	10		11.58	2	0.343	0.131	0.410	2			
123	11		10.90	2	0.625	0.421	0.508	2			
123	12		12.34	2	0.398	0.178	0.306	2			
123	13		10.75	2	0.437	0.169	0.345	2			
123	14		11.18	2	0.292	0.126	0.822	2			
123	15		12.43	2	0.392	0.221	0.351	2			
123	16		6.68	2	0.789	0.601	0.344	2			+ 6 2061
123	17		12.04	3	0.371	0.141	0.432	3			
123	18		12.37	2	0.525	0.272	0.334	2			
123	19		10.78	2	0.618	0.344	0.437	2			
123	20		8.95	2	1.138	0.556	0.467	2			+ 6 2063
123	21		12.58	1	0.404	0.220	0.352	1			
123	22		12.55	2	0.694	0.488	0.302	2			
123	23		9.71	2	0.171	0.217	0.822	2			+ 6 2065
123	24		12.63	2	0.649:	0.654:	0.118:	2			
123	25		10.95	2	0.297	0.153	0.476	2			
123	26		10.19	2	0.407	0.178	0.409	2			+ 6 2066
123	27		9.94	2	0.350	0.150	0.436	2			+ 6 2067
123	28		11.29	2	0.544	0.288	0.480:	2			
123	29		12.34	2	0.437	0.189	0.423	2			
123	30		11.63	2	0.607	0.300	0.484	2			
123	31		11.17	2	0.645	0.413	0.385	2			+ 6 2068
123	32		12.50	2	0.460:	0.198:	0.311	2			
123	33		11.42	2	0.419	0.246	0.330	2			
123	34		12.62	2	0.346	0.112	0.540	2			
123	35		10.09	2	0.312	0.125	0.523	2			+ 6 2069
123	36		12.13	2	0.740	0.523	0.311	2			
123	37		9.83	2	0.317	0.175	0.449	2			+ 6 2070
123	38		12.19	2	0.399	0.175	0.378	2			
123	39		8.37	2	0.773	0.597	0.315	2			+ 6 2071
150	01	K1III	11.07	3	0.487	0.343:	0.369	3			
150	02	G3III	11.58	5	0.413	0.215	0.322	5			
150	03	G8III	11.50	3	0.635	0.441:	0.387:	3			
150	04	K	12.79	2	0.559	0.332	0.343	2			
150	05	G3III-IV	11.47	6	0.415	0.187	0.286	6			

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
150	06	G6III	7.69:	4	0.585	0.343	0.388	4			+21 2353
150	07	G0III	11.38	5	0.363	0.185:	0.362	5	2.621	4	
150	08	K0III	10.47	3	0.607	0.288	0.422	3			+20 2646
150	09	K2II	9.40	4	0.663	0.480	0.432	4			+21 2354
150	10	G:	11.77	3	0.647	0.358	0.404	3			
150	11	F0:	12.34	2	0.302	0.123	0.462	2	2.682	2	
150	12	G	12.20	2	0.566	0.264	0.326	2			
150	13	G5V	11.14	3	0.358	0.155	0.343	3	2.617	4	
150	14		12.21	5	0.669	0.645	0.150	5			
150	15	F5I	7.37	3	0.307	0.158	0.458	3	2.651	5	+20 2650
150	16	K0III	9.84	3	0.620	0.326	0.394	3			+20 2651
150	17	G0IV	12.02	3	0.394	0.152	0.305:	3	2.613	2	
150	18		11.44	6	0.303	0.112	0.491	6	2.671	4	+21 2356
150	19	K1III	11.51	4	0.617	0.377	0.553:	4			+21 2359
150	20	M	12.21	2	0.761	0.674	0.115	2			
150	21	G	12.24	2	0.385	0.159	0.338	2	2.586	2	
150	22	G7IV	11.50	3	0.431	0.207	0.318	3			
150	23	A7IV	8.67	3	0.167	0.173	0.858	3	2.774	5	+21 2361
150	24	G	12.34	2	0.374	0.131	0.302	2	2.577	2	
150	25	G	12.86	2	0.435	0.164	0.350	2	2.601	1	
152	01	G6	12.03	1	0.452	0.228	0.296	1			
152	02	K2III	9.91	3	0.506	0.362	0.340	3			+38 2283
152	03	G	12.53	1	0.458	0.255	0.362	1			
152	04	K0IV	11.75	3	0.488	0.344	0.360	3			
152	05	M0	11.75	4	0.676:	0.516:	0.297	4			
152	06	M0V	11.26	3	0.717	0.645:	0.233:	3			
152	07	G2III	11.83	4	0.375:	0.207:	0.349	4	2.610	1	
152	08	G5V	11.98	4	0.498	0.317:	0.432	4			
152	09	K1II	10.90	2	0.636	0.423	0.446	2			
152	10	F8	12.36	1	0.357	0.139	0.428	1	2.643	1	
152	11	G	12.34	1	0.393	0.121	0.402	1	2.624	1	
152	12	K2III	9.70	3	0.718	0.453	0.433	3			+38 2286
152	13	F8III	10.34	3	0.331	0.158	0.363	3	2.621	1	+38 2287
152	14	G	12.50	1	0.431	0.233	0.405	1			
152	15		12.42	1	0.431	0.180	0.232	1			
152	16	F6I	9.05	3	0.299	0.172	0.456	3	2.667	1	+38 2288
152	17		11.99	1	0.371	0.220	0.318	1	2.617	1	
152	18	K0III	9.47	3	0.589	0.333	0.409	3			+38 2289
159	01	G5III	11.86:	2	0.408:	0.302	0.282	2			
159	02	F9III	10.58	2	0.368	0.115	0.354	2	2.605	1	
159	03	G6III	11.29	2	0.644	0.404	0.488	2			
159	04	G5III	11.43	2	0.708:	0.449	0.318::	2			
159	05	F8III	12.34:	2	0.337	0.134	0.396:	2	2.591	1	
159	06	G8III	11.70	2	0.454	0.357	0.342	2			
159	07	G8III	11.67	2	0.521	0.238	0.435	2			
159	08	G6III	10.64	2	0.639	0.368	0.420	2			+42 2320
159	09	G0IV	11.79	2	0.385	0.128	0.324	2	2.605	1	
159	10	G0	12.47::	2	0.390::	0.330:	0.279	2	2.565	1	
159	11	G5	12.10:	2	0.493:	0.344:	0.378	2			
159	12	K2II-III	9.74	2	0.751	0.566	0.568	2			+42 2322
159	13	F0III	9.79	2	0.200	0.157	0.613	2	2.706	1	+42 2323
159	14	G0IV	11.62::	2	0.353	0.081:	0.493	2	2.602	1	
159	15	M0V	11.66	2	1.002	0.286::	0.591::	2			
159	16	G	12.86	2	0.371::	0.348:	0.231:	2	2.612	1	
159	17	G5IV	10.61	2	0.462	0.278	0.327	2			+41 2307
159	18	F9IV	11.71	2	0.347	0.171	0.395	2	2.636	1	
159	19	K	12.50	1	0.603	0.283	0.710	1			

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
166	01	KOIII	10.88:	2	0.619	0.446	0.513	2			- 5 3638
166	02	G5III:	10.45	2	0.624	0.443	0.416	2			- 5 3639
166	03	G6III	11.45:	2	0.605	0.328	0.484	2			- 5 3642
166	04	K7	12.82:	2	0.571:	0.516:	0.277:	2			
166	05	G5IV	11.08:	2	0.400	0.193	0.364	2	2.603	2	- 4 3426
166	06	G	12.03:	2	0.348:	0.131:	0.447	2	2.643	4	
166	07	K	11.50	2	0.693	0.502	0.460	2			
166	08	G0IV	11.70	2	0.401	0.144	0.275	2	2.560	3	
166	09	KOIII	10.76:	2	0.507	0.268	0.377	2			- 4 3428
166	10	KOIII	11.70	2	0.673	0.455	0.408	2			- 4 3429
166	11	G	12.43	2	0.314::	0.268	0.342	2	2.564	3	
166	12	G0	11.58:	2	0.355	0.129	0.434	2	2.591	5	
166	13	K2III	10.46	2	0.820	0.569	0.480	2			
166	14	KOIII	9.52	2	0.517	0.319	0.406	2			- 5 3644
166	15	G	12.33::	2	0.297::	0.244:	0.350	2	2.606	4	- 4 3431
166	16	G	12.69	2	0.362:	0.098::	0.410:	2	2.600	2	
166	17	G5	12.46	2	0.374	0.192:	0.520:	2	2.613	3	
166	18	G5	11.70	2	0.495	0.308	0.378	2			
166	19	G	12.87:	2	0.501:	0.015:	0.410	2			
166	20	K	12.74:	2	0.425	0.329:	0.282:	2			
166	21	F8IV	11.12	2	0.364	0.116	0.447	2	2.630	4	- 4 3434
166	22	G	12.56	2	0.515	0.023	0.370	2			
166	23	F6IV	10.80:	2	0.341	0.160	0.406	2	2.639	5	- 4 3435
166	24	K	12.52	2	0.747::	0.421::	0.603:	2			
166	25	F8III	9.92	2	0.380	0.111	0.397	2	2.608	5	- 5 3649
166	26	G5IV	10.94	2	0.418	0.249	0.379	2			- 4 3436
166	27	G9III	12.19	2	0.528:	0.325	0.324	2			
166	28	G	12.28:	2	0.588	0.291:	0.421:	2			
166	29	G	12.43:	2	0.305	0.186:	0.400:	2	2.652	2	
168	01	G5III	10.82	2	0.419	0.159	0.342	2			+28 2190
168	02	K0IV	10.45	2	0.466	0.251	0.392	2			+28 2191
168	03	G5III	10.89	2	0.602	0.229	0.466	2			
168	04	F8IV	11.92	2	0.309:	0.143	0.457	2	2.645	2	SEE NOTE 10
168	05	G0IV	11.21	2	0.380	0.208	0.311	2	2.586	3	
168	06	G8	12.75	2	0.420	0.350	0.310	2			
168	07	K	12.74:	2	0.561::	0.387	0.081:	2			
168	08	G6	11.77	2	0.505	0.223	0.439:	2			
168	09	F6III	11.70	2	0.311	0.149	0.347	2	2.579	2	
168	10	G8III	9.67	2	0.528	0.268	0.408	2			+28 2192
168	11	G8	12.14	2	0.425:	0.177	0.259	2			
168	12		12.19	2	0.539	0.426	0.187	2			
168	13	G2IV	10.65	2	0.345	0.224	0.377	2	2.607	4	+28 2194
168	14	F-G	12.79	2	0.155:	0.368	0.408	2	2.625	1	
168	15	F9IV	10.56	2	0.339	0.151	0.448	2	2.631	5	SEE NOTE 11
168	16	K2	11.65	2	0.546	0.449	0.391:	2			SEE NOTE 12
168	18	G5	12.42:	2	0.351::	0.274::	0.298:	2			
168	19	K1IV	11.17	2	0.623	0.441:	0.502	2			
168	20	G5	11.97	2	0.391	0.171	0.465	2			
173	01	F	12.27	2	0.284:	0.214::	0.236:	2	2.624	3	
173	02	M0III	10.46	2	0.880	0.766:	0.418:	2			
173	03	F2III	11.55	2	0.254	0.106	0.591	2	2.719	3	
173	04	G8	11.98	2	0.651	0.375:	0.548	2			
173	05	F8III	11.41	2	0.305	0.205	0.348	2	2.641	3	+14 2614
173	06	G8III	12.04	2	0.507:	0.299	0.255	2			
173	07	G-K	13.23:	2	0.422	0.188	0.438	2			
173	08	F9III	10.56	2	0.352	0.149	0.355	2	2.628	6	+14 2615
173	09	KOIII	9.84	2	0.630	0.405	0.449	2			+14 2616
173	10	F0II	8.16	2	0.196	0.229	0.651	2	2.751	5	+14 2617

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
173	11	G:	13.03	2	0.437	0.424:	-0.015:	2			
173	12	G	12.79	2	0.462:	-0.025::	0.411	2			
173	13	F:	12.31	2	0.318	0.130:	0.482:	2	2.656	2	
173	14	G8II	10.46	2	0.578	0.369	0.340	2			+14 2619
173	15	K2II	9.69	2	0.654	0.516	0.426	2			+14 2620
173	16	K	12.95	2	0.533	0.164	0.266	2			
173	17	G5IV	11.21	2	0.427	0.171	0.301	2			
173	18	K:	12.62	1	0.449	0.088	0.553	1			
173	19		13.16	1	0.378	0.377	0.267	1	2.610	2	
173	20	K0II	8.59	2	0.603	0.390	0.433	2			+14 2622
173	21	K0	12.16	2	0.413	0.355:	0.151:	2			
173	22	K2IV	11.23	2	0.528	0.297	0.421	2			
173	23	G:	11.87	2	0.355	0.232:	0.376:	2	2.616	3	
173	24	F:	11.51	2	0.338	0.132	0.462	2	2.645	3	+14 2623
173	25	K3IV	11.31	2	0.556:	0.358:	0.365	2			
173	26	G8III	10.47	2	0.605	0.366	0.416	2			+14 2624
173	27	G-K	12.84	2	0.798	0.228	0.290:	2			
173	28	G	12.91	2	0.459	0.086	0.353	2	2.622	1	
173	29	G0III	11.48	2	0.361	0.101	0.359	2	2.582	2	
174	01	G5III	11.00	3	0.434	0.233	0.347	3	2.558	1	
174	02	G2III	10.78	3	0.386	0.186	0.366	3	2.607	4	+ 4 2756
174	03	K1III	11.00	2	0.689	0.478	0.574	2			+ 4 2757
174	04	K0III	10.37	3	0.657	0.459	0.494	3			+ 4 2759
174	05	G-K	12.30	2	0.750	0.413	0.455	2			
174	06	K	11.93	4	0.729	0.494:	0.562	4			
174	07	G8IV	11.23	2	0.475	0.337	0.328	2			
174	08	F:	12.28	2	0.344	0.154	0.381	2	2.678	3	
174	09	F2III	11.38	2	0.300	0.161	0.399	2	2.658	4	+ 4 2760
174	10	G-K	12.48	2	0.466	0.242	0.315	2			
174	11	G5III	8.21	3	0.554	0.319	0.405	3			+ 4 2762
174	12	A3III	8.90	3	0.090	0.179	1.053	3	2.874	4	+ 4 2763
174	13	G	12.21	2	0.308	0.189	0.476	2	2.688:	3	
174	14	G5	11.69	5	0.633	0.339	0.505:	5			
174	15	G5	11.59	3	0.614	0.313	0.512	3			
174	16	G6III	11.22	3	0.572	0.269	0.407:	3			
174	17	G2III	11.69	3	0.379	0.182	0.370:	3	2.608	3	
174	18	G	12.25	2	0.285	0.173	0.467	2	2.649	2	
174	19	G0	11.92	5	0.339	0.192:	0.394:	5	2.615:	5	
174	20	G5III	11.76	5	0.410	0.170	0.438	5			
174	21	G	12.46	2	0.392	0.211	0.305	2	2.578	2	
174	22	G	12.75	1	0.425	0.197	0.310	1	2.552	1	
174	23	G0III	11.75	5	0.368	0.187	0.333	5	2.574	3	
174	24	G	13.83	2	0.330	0.145	0.381	2	2.506	1	
175	01	F8III	11.08	3	0.338	0.137	0.375	3	2.605	1	- 0 2703
175	02	G2III	10.81	3	0.369	0.142	0.337	3	2.613	2	+ 0 3070
175	03	F6III	10.64	3	0.299	0.184	0.365	3	2.652	1	+ 0 3071
175	04	G-K	11.98	2	0.642	0.349	0.349	2			
175	05	G2III	12.05	2	0.345	0.178	0.417	2	2.602	1	
175	06	K0IV	10.98	3	0.468	0.333	0.320	3			
175	07	K4III	7.38	3	0.539	0.417	0.349	3			+ 0 3075
175	08	K2III	9.57	2	0.823	0.646	0.319	2			- 0 2706
175	09	G5IV	11.72	2	0.434	0.264	0.368	2			
175	10	K	12.14	2	0.595	0.418	0.526	2			
175	11	G5	12.51::	2	0.357	0.208	0.281	2	2.567	1	
175	12	M2V	10.26	2	0.972	0.460	0.038	2			+ 0 3077
175	13	G8	11.91:	2	0.647:	0.241:	0.482	2			
175	14	G5	12.02	2	0.434	0.243	0.270	2			
175	15	M0III	8.33	3	0.972	0.756	0.325	3			+ 0 3079

1976A&AS...23..393B

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
176	01	G5	12.47	2	0.449	0.283	0.361	2			
176	02	K	14.84	2	0.581	0.104	0.412	2			
176	03	G2III	11.10	3	0.368	0.223	0.361	3	2.610	2	
176	04	K	12.27	2	0.578	0.476	0.244	2			
176	05	G3	11.82	5	0.389	0.128	0.447	5	2.641	2	
176	06	K2III	11.09	3	0.700	0.530	0.329:	3			
176	07	M	12.99	2	0.639	0.596	0.224:	2			
176	08	G2III	11.20	3	0.366	0.217	0.334	3	2.619	2	
176	09	F5III	10.49	3	0.292	0.129	0.503	3	2.676	3	+11 2584
176	10	G	12.98	2	0.373	0.152	0.289	2	2.559	2	
176	11	M	13.67	2	0.475:	0.046:	0.294	2			
176	12	M0III	6.66	3	0.924	0.768	0.330	3	2.544	1	+11 2588
176	13	G2III	11.73	4	0.350	0.141	0.376	4	2.641	2	
176	14	K4III	11.29	4	0.623	0.433	0.316:	4			
176	15	F8III	10.68	4	0.325	0.149	0.416	4	2.654	3	
176	16	K	12.71	2	0.543	0.400	0.274	2			
176	17	F3IV	10.01	4	0.262	0.123	0.477	4	2.680	4	+11 2590
176	18	G5IV	10.64	4	0.444	0.161	0.316	4			
176	19	K	12.76	1	0.442	0.173	0.327	1			
176	20	G	12.91	1	0.401	0.258	0.418	1			
177	01	G8IV	10.14	2	0.568	0.288	0.417	2			+19 2724
177	02	K1III	11.53	2	0.694	0.345:	0.460:	2			
177	03	G2III	11.59	2	0.420	0.112:	0.534:	2			
177	04	F	12.69	2	0.222	0.311	0.326	2	2.631	1	
177	05	G6	11.88	2	0.540	0.428	0.662	2			
177	06	K0III	9.92	2	0.593	0.271	0.500	2			+18 2798
177	07	K2	12.02	2	0.548	0.453:	0.367	2			
177	08	K2III	10.31	3	0.661	0.415	0.413	3			+19 2726
177	09	F	12.84::	2	0.222::	0.256::	0.518::	2	2.681	1	SEE NOTE 9
177	10	G	12.88	2	0.399	0.348::	0.150::	2	2.574	1	
177	11	G3III	10.77	2	0.414	0.253	0.284	2			+19 2727
177	12	M0III	7.88	2	0.975	0.784	0.311	2			+19 2728
177	13	K	12.90	1	0.436	0.114	0.277	1			
177	14	G2IV	10.34	2	0.504	0.129	0.319	2			+19 2729
177	15	F	12.71	2	0.114	0.194:	0.810	2	2.803	1	
177	16	G	12.33:	2	0.484	0.337:	0.274:	2			
177	17	G	12.63	2	0.239:	0.398:	0.644	2	2.619	1	
179	01	K2III	10.44::	2	0.501	0.379	0.372	2			
179	02	G2III	11.56	2	0.349	0.197	0.241	2	2.649:	2	
179	03	M0III	8.18	2	1.038	0.694	0.418	2			+20 2945
179	04	K	11.99	2	0.636	0.407:	0.399::	2			
179	05	G2IV	10.98	2	0.356	0.172	0.365	2	2.635	3	
179	06		12.34	2	0.385:	0.191	0.187:	2	2.623	1	
179	07		12.08:	2	0.571	0.537	0.097:	2			
179	08	F6III	8.99	2	0.324	0.172	0.463	2	2.666	5	+19 2769
179	09	G8	11.62	1	0.665	0.371	0.406	1			
179	10	K0IV	11.09	2	0.753:	0.458:	0.385	2			
179	11	G	12.25	2	0.571	0.576	0.431::	2			SEE NOTE 13
179	12	A5V	9.53	2	0.136	0.223	0.787	2	2.835	4	+20 2952
179	13	G4III	9.60	2	0.404	0.227	0.327	2			+19 2768
179	14	G	11.74:	2	0.611	0.442:	0.227::	2			SEE NOTE 13
179	15	K	12.46:	2	0.661	0.545::	-0.014::	2			SEE NOTE 13
179	16	G1IV	10.62	2	0.367:	0.220	0.406	2	2.623	4	+19 2780
179	17	G4	11.67	2	0.429	0.119	0.454:	2			
179	18	G5III	10.38	2	0.581	0.252	0.311	2			+19 2781
179	19	A+F	11.76	2	0.238	0.223	0.710	2	2.796	2	
179	20	G3IV	12.03	2	0.373	0.158	0.485:	2	2.566	1	

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
179	21	K0III	10.45	2	0.642	0.388	0.427	2			+20 2955
179	22	G8IV	11.30	2	0.647	0.348	0.432	2			
179	23	K1III	10.51	2	0.659	0.425	0.368	2			
184	01	K1III	11.65	2	0.537	0.384	0.339	2			
184	02	G3	12.22	4	0.418	0.191	0.354	4			
184	03	K2III	8.44	3	0.745	0.557	0.419	3			+19 2866
184	04	G5	11.48	2	0.391	0.236	0.302	2			
184	05	G	11.37	3	0.505	0.248	0.434:	3			
184	06	K2	12.44	3	0.567	0.272	0.443	3			
184	07	G	12.89	2	0.398	0.145	0.407	2	2.527:	3	
184	08	F	12.47	3	0.360	0.122	0.476	3	2.594	2	
184	09	G2III	11.10	3	0.496	0.168:	0.529:	3			
184	10	F8III	11.65	2	0.292	0.201	0.439	2	2.627	5	
184	11	K	13.07	2	0.474	0.294	0.375	2			
184	12	G	12.77	2	0.585	0.312	0.419	2			
184	13	G	12.22	2	0.629	0.408	0.431	2			
184	14	K1	11.16	2	0.844	0.647	0.152	2			
184	15		12.79	2	0.448	0.158	0.365	2			
184	16	G	13.14	2	0.401	0.169	0.361	2	2.536	2	
184	17	G	12.58	2	0.530	0.254	0.336	2			
184	18	K2II-III	9.09	3	0.780	0.603	0.425	3			+19 2872
184	19	K2III	10.26	3	0.602	0.390	0.440	3			+19 2871
184	20	G	12.51	2	0.547	0.400	0.381	2			
184	21	M2III	8.49	3	1.163	0.619	0.456	3			+19 2873
184	22	G1	11.86	5	0.407	0.254	0.293	5			
184	23	G	12.80	2	0.354	0.167	0.437	2	2.631	3	
184	24	G	12.74	2	0.355	0.145	0.378	2	2.533::	2	
184	25	A2III	12.65	2	0.146	0.185	0.839	2	2.788	4	
184	26	G	12.19	2	0.430	0.233	0.302	2			
184	27		13.07	2	0.403	0.187	0.336	2	2.539	1	
184	28	G5	11.60	3	0.365	0.134:	0.375:	3	2.636	5	
184	29	G	12.14	2	0.353	0.106	0.426	2	2.624	3	
184	30	K2III	8.13	3	0.595	0.409	0.441	3			+19 2875
184	31	G	12.04	2	0.349	0.155	0.417	2	2.614	4	
184	32	F5III	9.98	3	0.304	0.172	0.408	3	2.667	6	+19 2877
184	33	K2III	10.45	3	0.868	0.579	0.303	3			
189	01	K1	12.07	2	0.518	0.376	0.257	2			
189	02	G8	12.41	2	0.507	0.324	0.317	2			
189	03	K0	11.57	5	0.618	0.313	0.440	5			
189	04	K0III	11.72	2	0.564	0.361	0.416	2			
189	05	K0	12.55	2	0.577	0.301	0.352	2			
189	06	M	13.00	2	0.671	0.376	0.445	2			
189	07	K0III	7.11	3	0.614	0.378	0.431	3			+40 2838
189	08	K1III	10.65	3	0.642	0.436	0.424	3			
189	09	K	12.68	2	0.629	0.278	0.462	2			+41 2548
189	10	K1III	8.76	3	0.590	0.395	0.385	3			
189	11	K	12.29	3	0.614	0.339	0.383	3			
189	12	K1	12.70	2	0.443	0.238	0.343	2			
189	13	F5III	10.45	3	0.281	0.149	0.526	3	2.694	3	+41 2549
189	14	F8III	9.43	3	0.369	0.174	0.435	3	2.619	3	+40 2841
189	15	G0	12.11	3	0.353	0.157	0.336	3	2.635	2	
189	16	G	13.07	3	0.387	0.106:	0.370:	3	2.648	1	
189	17	G	12.21	3	0.637	0.387	0.413	3			
189	18	K	12.79	3	0.575	0.491	0.290	3			
189	19	G6	11.89	6	0.419	0.247	0.367	6			
189	20	G-K	12.32	2	0.372	0.188	0.435	2	2.607	3	

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
327	01	A0	9.26	3	0.094	0.140	0.998	4	2.883	3	-24 17467
327	02	G8	12.5	0	0.586	0.271	0.384	1	2.502	2	
327	03	F5	8.48	1	0.260	0.178	0.544	2	2.692	2	-24 17479
327	04	G5	12.4	0	0.449	0.240	0.194	1	2.553	1	
327	05	G5	12.3	0	0.427	0.152	0.257	1	2.608	2	
327	06	G8	12.5	0	0.483	0.277	0.380	1			-24 17482
327	07	G2	11.8	0	0.493	0.239	0.401	1	2.524	3	-24 17483
327	08	F5	11.6	0	0.352	0.117	0.393	1	2.627	4	-24 17487
327	09	F0	9.67	1	0.228:	0.150	0.661	2	2.735	3	-24 17488
327	10	K2	9.31	1	0.704	0.551	0.439	2	2.574	1	-24 17490
327	11	G2	10.7	0	0.421	0.180	0.330	1	2.597	3	-24 17491
327	12	A-F:	12.8	0	0.386	0.116	0.405	1	2.627	3	
327	13	K2	10.02	2	0.777	0.532	0.447	3	2.557	2	-24 17499
327	14	G5	10.84	2	0.375	0.183	0.338	4	2.611	5	-24 17501
327	15	G5	11.1	0	0.602	0.343	0.393	1			-24 17502
327	16	F5	11.79	1	0.363	0.036	0.344	2	2.598	3	-24 17503
327	17	F0	12.18	1	0.317	0.039	0.301	2	2.596	3	-24 17504
327	18	F8	12.02	1	0.373	0.152	0.351	2	2.603	3	-24 17506
327	19	K0:	12.3	0	0.579	0.469	0.261	1			
327	20	K0	10.81	1	0.528	0.330	0.316	2			-24 17507
328	01	F2	11.60	3	0.312	0.138	0.485	3	2.694	3	-23 17762
328	02	F2	11.28:	3	0.293	0.171	0.369	3	2.686	3	-22 16215
328	03	G2	11.75	3	0.373:	0.257:	0.415	3	2.558	3	-23 17766
328	04	K0	11.81	2	0.538	0.229	0.450	2	2.513	2	-23 17768
328	05	K2	11.08	3	0.562	0.358	0.334	3	2.522	3	-23 17777
328	06	G0	11.71	3	0.353:	0.227:	0.296	3	2.570	3	-23 17779
328	07	G5	11.23	3	0.543	0.288:	0.397	3	2.597	3	-23 17783
328	08	G0	11.67	2	0.366	0.170	0.378	2	2.600	2	-22 16228
328	09	G2	11.57	3	0.380	0.166	0.337	3	2.600	3	-23 17784
328	10	K2	9.85	3	0.578	0.332	0.417	3	2.567	3	-22 16232
328	11	K5	11.57	2	0.614	0.570	0.138	2	2.569	2	-23 17786
328	12	F2	10.57	3	0.298	0.158	0.434	3	2.628	3	-23 17787
328	13	G5	10.96	3	0.454	0.239:	0.307	3	2.545	3	-23 17788
332	01	K0	7.89	2	0.657	0.471	0.421	2	2.574	2	-14 6429
332	02	G2	10.48	2	0.364	0.213	0.348	2	2.601	2	-14 6430
332	03	K2	10.62	2	0.638	0.425	0.428	2	2.569:	2	
332	04	G5	10.83	2	0.537	0.304	0.428	2	2.577	2	-14 6432
332	05	M0	11.64	2	0.854::	0.380:	0.175:	2	2.492	2	
332	06	K5	12.00	2	0.625::	0.395::	0.408:	2	2.460::	2	
332	07	K2	12.11	2	0.548:	0.451:	0.697:	2	2.554	2	
332	08	F2	11.39	3	0.280	0.144	0.481	3	2.720:	3	
332	09	F5	11.75::	2	0.373::	0.087	0.455	2	2.602:	2	
332	10	F5	11.79	2	0.380	0.144	0.288	2	2.681	2	
332	11	M0	10.37	1	0.879	0.689	0.437	1	2.578	1	-14 6436
332	12	F8	11.99:	2	0.401	0.030	0.421	2	2.595::	2	
332	13	K5	11.98:	2	0.741:	0.521:	0.571:	2	2.536:	2	
332	14	G5	7.76	3	0.525	0.252	0.349	3	2.553	3	-14 6438
332	15	G5	11.94	2	0.616	0.350	0.111	2	2.616	2	
332	16	F8	11.34:	5	0.345:	0.169:	0.409	5	2.662	5	SEE NOTE 14
332	17	K0	6.56	3	0.772	0.550	0.309	3			SEE NOTE 15
332	18	K0	10.47	2	0.628	0.455	0.471	2	2.554	2	-14 6442
332	19	G0	9.50	2	0.362	0.209	0.343	2	2.625	2	-14 6443
332	20	G5	10.30	3	0.403	0.225	0.410	3	2.605	3	SEE NOTE 16
332	21	G0	11.27	5	0.358	0.168	0.319	5	2.558	5	SEE NOTE 17
332	22	G0	10.32	1	0.326	0.148	0.423	1	2.633	1	-14 6446
332	23	K0	9.01	2	0.610	0.443	0.400	2	2.576	2	-14 6447

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
346	01	G2	11.96	3	0.428	0.098:	0.281	3	2.606:	3	
346	02	G8	9.48	3	0.664	0.447	0.406	3			- 9 41
346	03	G8	12.19	2	0.522	0.299	0.420	2			
346	04	G2	11.61	3	0.448	0.200	0.363	3	2.559	3	- 9 42
346	05	K2	12.03	3	0.660	0.574	0.317:	3	2.466:	3	
346	06	G0	11.92	3	0.438:	0.231	0.458	3	2.538	3	
346	07	G2	10.27	1	0.347	0.197	0.397	1	2.627	3	- 9 44
346	08	G5	10.51	1	0.413	0.205	0.324	1	2.610	3	- 9 46
346	09	K0	10.45	3	0.512	0.258	0.277	3			- 9 47
346	10	F8	8.90	1	0.365	0.144	0.427	1	2.636	3	- 9 51
346	11	G0:	12.39	3	0.394	0.133	0.310	3	2.588:	3	
346	12	K0:	12.52	3	0.623	0.435	0.412:	3			
346	13	A8	9.38	1	0.222	0.172	0.728	1			- 9 55
350	01	G5	12.55	3	0.635:	0.447:	0.435	3	2.507	3	
350	02	F8:	12.89	3	0.366:	0.285:	0.302	3	2.622	2	
350	03	G5	13.08:	2	0.385	0.180	0.324	2	2.610:	2	
350	04	G5	11.80:	3	0.529	0.346	0.384	3	2.525	3	
350	05	G2	12.80	2	0.497	0.208	0.430	2	2.496	2	
350	06	G5	13.25	2	0.536:	0.388:	0.350	2	2.433:	2	
350	07	G2	12.56	3	0.450	0.246	0.449	3	2.588	3	
350	08	G2	10.96	4	0.369	0.166	0.313	4	2.601:	4	
350	09	K2	12.43	2	0.604	0.484	0.208	2			
350	10	G5	12.27	2	0.504::	0.187:	0.526:	2	2.562:	2	
350	11	F8	13.22	2	0.312	0.082:	0.580	2	2.630:	2	
350	12	G2	12.05	2	0.482	0.172	0.334	2	2.501	2	
350	13	F8	13.22	2	0.322:	0.132:	0.354:	2	2.589	2	
350	14	K0	9.81:	4	0.653:	0.448	0.449	4			-18 122
352	01	K0	11.00	2	0.578	0.260	0.373	2			-11 146
352	02	K0	10.80	3	0.651	0.423	0.391	3			-11 148
352	03	K2	7.59	3	0.727	0.578	0.431	3	2.575	1	-11 149
352	04	G0	10.55	3	0.338	0.208	0.412	3	2.632	3	-11 150
352	05	K2	10.34	3	0.527	0.449	0.287	3			-11 151
352	06	G5	10.33	3	0.422	0.236	0.406	3	2.621	3	-11 152
352	07	G5	9.95	3	0.382	0.221	0.393	3	2.662	3	-11 154
352	08	G2:	11.55	3	0.403	0.188	0.282	3	2.598	3	
352	09	M2	10.17	3	1.088	0.614:	0.486::	3			-11 155
352	10	F5	11.69	3	0.339	0.153	0.355	3	2.599	3	
352	11	G2	10.55	3	0.371	0.147	0.388	3	2.618	3	-11 157
352	12	G2	10.65	4	0.366	0.160	0.354	4	2.611	4	-11 158
352	13	F0	10.91	4	0.302	0.086	0.356	4	2.622	4	-11 160
352	14		11.20	3	0.038	0.010	-0.193	3	2.567	3	-11 162
356	01	G0	9.85	1	0.388	0.183	0.394	3	2.599	2	-16 158
356	02	G2	11.45	1	0.363	0.182	0.380	3	2.612	2	
356	03	F8	8.62	1	0.379	0.186	0.319	3	2.590	2	-16 159
356	04	F0	7.59	1	0.261	0.109	0.557	3	2.666	2	-16 161
356	05	F8	9.84	1	0.324	0.148	0.431	3	2.641	2	-16 163
356	06	F:	12.03	1	0.354:	0.135	0.364	3	2.605	2	
356	07	G0:	11.8	0	0.377	0.154	0.284	1	2.593	2	
356	08	G:	12.4	0	0.425	0.206	0.423	2	2.523	1	
356	09	G2	12.5	0	0.394	0.186	0.327	2	2.570	2	
356	10	G2	11.20	2	0.382	0.184	0.328	3	2.523:	2	
356	11	G:	12.8	0	0.431	0.255	0.440	2	2.602	1	
356	12	K2	12.0	0	0.674	0.439	0.485	2			
356	13	G0	11.00	1	0.401	0.170	0.364	3	2.607	1	
356	14	F0	12.5	0	0.183	0.030	1.126	2	2.728	1	
356	15	G5	10.61	1	0.407	0.175	0.370	3	2.585	2	-16 164

1976A&AS...23..393B

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
356	16	G8	11.2	0	0.640	0.303	0.398	2			
356	17	F8	12.6	0	0.352	0.171	0.399	2	2.619	2	
356	18	K2	10.6	0	0.627	0.446	0.425	2			
359	01	F5	10.94	2	0.317	0.177	0.359	2	2.623	3	-11 212
359	02	F5	11.16:	3	0.310	0.167	0.506	3	2.657	4	-11 213
359	03	G2	10.45	3	0.358	0.163	0.355	3	2.618	3	-10 241
359	04	K2	7.67	2	0.656	0.504	0.478	2	2.571	2	-10 243
359	05	G8	11.18	2	0.507	0.257	0.269	2	2.564	1	-11 214
359	06	G2	10.73	2	0.355	0.232	0.425	2	2.627	3	-10 244
359	07	F5	10.75	2	0.312	0.199	0.427	2	2.623	3	-10 245
369	01	G8	11.00	3	0.596	0.361	0.443	3	2.563	3	-18 281
369	02	G0	11.76	2	0.372	0.174	0.302	2	2.573	2	
369	03	F8	12.11	2	0.358	0.227	0.249	2	2.742	2	SEE NOTE 18
369	04	G0	12.30	2	0.400:	0.087	0.404	2	2.653:	2	
369	05	G2	11.39	3	0.490	0.136	0.482	3	2.583:	3	
369	06	G5:	12.35	2	0.499	0.205:	0.603	2	2.571	2	
369	07	F5	11.70	2	0.305	0.191	0.330	2	2.605:	2	
369	08	G0	10.63	2	0.357	0.193	0.302	2	2.569	2	-18 283
369	09	F8	11.91	2	0.323	0.208	0.325	2	2.618	2	
369	10	G2	11.70	3	0.369	0.136	0.447	3	2.636	2	
369	11	F5	8.91	2	0.295	0.156	0.489	2	2.692	2	-18 286
369	12	F2	11.38	3	0.321	0.139	0.451	3	2.652	3	
369	13	G8	9.86	2	0.451	0.300	0.305	2	2.589	2	-18 288
369	14	G5	12.51	2	0.474	0.367:	0.250:	2	2.710	2	
369	15	F-G	12.67:	2	0.443	0.196	0.343	2	2.623:	2	
369	16	K2	10.75	2	0.602	0.356	0.417	2	2.634	2	-18 290
369	17	K2	10.42	2	0.633	0.410	0.443	2	2.558	2	-18 293
369	18	F2	11.39	3	0.314:	0.127	0.448	3	2.683	3	-18 294
369	19	F5	11.29	3	0.353	0.103	0.440	3	2.671:	3	-18 295
369	20	G0	10.43	2	0.394	0.181	0.290	2	2.647	2	-18 296
371	01	F5	8.38	3	0.334	0.144	0.350:	6	2.640	4	-11 353
371	02	F8	10.38	3	0.347	0.155	0.527	5	2.667	4	-10 386
371	03	K0	11.66	5	0.508	0.388	0.328	7	2.590	1	SEE NOTE 8
371	04	G5	11.83	2	0.406	0.176	0.390	4	2.619	3	
371	05	K0	10.47	2	0.579	0.370	0.355	4			-11 357
371	06	F8	9.27	3	0.332	0.168	0.463	5	2.651	3	-11 358
371	07	G5	11.30	3	0.384	0.193	0.336	5	2.587	4	
371	08	K0	11.66	2	0.559	0.324	0.403	3			
371	09	G8	10.66	3	0.423	0.220	0.360	5	2.605	3	
371	10	K2	9.43	3	0.675	0.503	0.450	4	2.581	2	-11 361
371	11	G5	11.26	3	0.368:	0.177	0.412	5	2.607	3	
542	01	G9III	10.99	4	0.516	0.276	0.411	4			+45 1893
542	02	G3	12.20	2	0.409	0.193	0.294	2			
542	03	G	12.21	2	0.466	0.286	0.313	2			
542	04	K	12.03	7	0.760	0.639:	0.378:	7			
542	05	G3III	10.95	5	0.401	0.207	0.348	5			
542	06	K	12.26	2	0.429	0.215	0.415	2			
542	07	K	12.82	2	0.570	0.323	0.409	2			
542	08	G	12.59	2	0.418	0.274	0.277	2			
542	09	G0	12.07	7	0.352	0.167	0.390	7	2.638	1	
542	10	G0IV	10.64	4	0.379	0.158	0.325	4	2.612	1	+45 1898

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
542	11	G	12.28	2	0.422	0.207	0.322	2			
542	12	K	12.57	2	0.484	0.387	0.288	2			
542	13	G	12.59	2	0.385	0.132	0.373	2	2.597	1	
542	14	K	12.01	7	0.522	0.468	0.220:	7			
551	01	F-G	12.77	1	0.310	0.165	0.369	1	2.635	3	
551	02	G7III	11.01	3	0.501	0.265	0.333	3			
551	03	F-G	12.66	1	0.317	0.131	0.452	1	2.659	3	
551	04	G	12.74	1	0.454	0.265	0.308	1			
551	05	G9III	10.93	4	1.096	0.698	0.443::	4			
551	06	F8III	10.38	4	0.359	0.191	0.366	4	2.614	4	
551	07	G	13.10	1	0.403	0.271	0.318	1	2.620	1	
551	08	G0III	10.40	3	0.380	0.190	0.345	3	2.619	4	+ 7 2481
551	09	G	12.34	1	0.926	0.466	0.535	1			
551	10	G0III	11.92	1	0.420	0.164	0.350	1	2.547:	2	
551	11	F5IV	11.78	5	0.335	0.166	0.379	5	2.629	3	
551	12	G6III	10.77	4	0.497	0.293	0.382	4			+ 6 2496
551	13	F6II-III	11.54	5	0.282	0.158	0.456	5	2.675	3	
551	14	K	12.06	1	0.657	0.506	0.406	1			
553	01	G4III	10.35	2	0.396	0.179	0.380	2	2.622	1	
553	02	G5	12.14	2	0.429	0.345	0.619::	2			
553	03	G6IV	10.68	2	0.595	0.304	0.469	2			+15 2380
553	04	K3V	10.75	2	0.627	0.540	0.327	2			
553	05	K0III	10.29	2	0.611	0.378	0.495	2			
553	06	G2III	8.44	2	0.386	0.178	0.392	2	2.604	4	+15 2382
553	07	K2I	9.98	2	0.648	0.498	0.337	2			
553	08	K1III	11.75	2	0.522:	0.414	0.238	2			
553	09	F6III	10.86	2	0.305	0.171	0.407	2	2.645	4	
553	10	K	11.78	2	0.620	0.321::	0.357	2			
553	11	F8III	12.23	2	0.254	0.200:	0.588::	2	2.656	3	
553	12	G	12.32	2	0.404	0.174	0.462	2	2.595	2	
553	13	K	12.28	2	0.487	0.250:	0.278	2			SEE NOTE 10
554	01	G2III	11.93	1	0.359	0.165	0.307	1	2.648	1	
554	02	G6III	11.80	1	0.605	0.287	0.454	1			
554	03	F9III	10.49	2	0.353	0.121	0.404	2	2.636	2	+43 2176
554	04	G5III	11.41	4	0.419	0.231	0.402	4			
554	05	F6II	8.84	2	0.309	0.158	0.366	2	2.641	2	+43 2177
554	06	M	12.21	1	0.729	0.651	0.047	1			
554	07	K3III	8.36	3	0.742	0.495	0.257	3			+43 2180
554	08	K2III	6.64	3	0.534	0.290	0.369	3			+43 2182
554	09	K0III	8.99	3	0.574	0.334	0.408	3			+44 2153
554	10	G2III	11.68	4	0.338	0.219	0.414	4	2.621	1	
554	11	G2V	11.50	4	0.367	0.206	0.341	4	2.583	1	
554	12	G8	11.92	2	0.572	0.302	0.393	2			
554	13	G2V	12.25	2	0.428	0.176	0.381	2			
556	01	G	12.96:	2	0.322::	0.225::	0.393:	2	2.632	2	
556	02	K2III	12.16	2	0.415	0.240	0.371	2			
556	03	G8III	12.32:	2	0.454	0.253::	0.090::	2			
556	04	K-M	12.85	2	0.603:	0.201:	0.487	2			
556	05	G5	11.95	2	0.510	0.208:	0.170::	2			
556	06	K	12.47	2	0.704	0.529	0.282	2			
556	07		13.04:	2	0.389::	0.038:	0.844:	2	2.641	2	
556	08	G2III	10.38	2	0.362	0.199	0.402	2	2.629	5	+19 2525
556	09	K	13.29	2	0.397	0.122	0.651	2	2.704	1	
556	10	G5IV	11.88	2	0.280::	0.163	0.282	2	2.611	4	

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
556	11	K0III	11.77	2	0.651	0.472	0.413:	2			
556	12	K0III	11.51	2	0.609	0.363	0.380	2			
556	13	G	12.13	2	0.437:	0.188:	0.587	2			
556	14	K0IV	11.28	2	0.434	0.290	0.245	2			
556	15		13.02	1	0.492	0.106	0.175	1	2.646	1	
556	16	F6III	11.16	2	0.294	0.163	0.360	2	2.630	3	
556	17	G	12.39	2	0.443	0.261:	0.213	2			
556	18	M8E	11.88	1	1.950	-2.686	2.924	1			+19 2527
556	19	K	13.01	1	0.456	0.255	1.654	1			
556	20	G	12.55	2	0.317	0.196	0.587:	2	2.670:	2	
556	21	K	13.12	2	0.436	0.216	0.386	2			
556	22	F	12.15	2	0.361:	0.232	0.357	2	2.614	3	
556	23	G	12.31	2	0.514:	0.212	0.488	2			
556	24	F8	12.01	2	0.308	0.145	0.428:	2	2.599	3	
556	25	K	13.18	2	0.320	0.154:	0.832:	2	2.643	1	
556	26	F	12.38	2	0.387:	0.117	0.340	2	2.640	3	
556	27	G5III	11.64	1	0.510	0.161	0.575	1	2.555	2	
562	01	K5IV	10.79	3	0.588	0.441:	0.258	3			+27 2113
562	02	K2III	11.49:	3	0.591::	0.351:	0.369	3			
562	03	G5	11.68:	3	0.566:	0.343::	0.315::	3			
562	04	A5III	6.42	3	0.107	0.188	0.933	3	2.850	5	+26 2326
562	05	G9III	11.44	3	0.580:	0.304	0.392:	3			
562	06	K2III	11.63	3	0.522	0.281	0.465:	3			
562	07	K:	12.40	2	0.567	0.317:	0.439	2			
562	08	K0IV	11.24	2	0.630	0.342	0.390	2			
562	09	F8III	10.40	3	0.361	0.176	0.308	3	2.639	5	
562	10	G0III	10.39	3	0.379	0.182	0.276	3	2.599	6	+26 2328
562	11	G5IV	11.85:	3	0.427	0.254	0.298:	3			
562	12	A4III	9.09	2	0.071	0.174	1.079	2	2.881	5	+26 2331
562	13	G0III	10.25	2	0.371	0.171	0.356	2	2.620	5	+26 2334
562	14	G0IV	10.91	2	0.365	0.133	0.319	2	2.633	6	
562	15	G2IV	11.39	2	0.397	0.215	0.344	2	2.609	1	
562	16	G0	12.11	2	0.402	0.164	0.292:	2	2.624	1	
562	17	G2IV	11.95	2	0.459	0.165	0.346	2			
562	18	G	12.83:	2	0.354	0.195::	0.468:	2	2.621	1	
562	19	G0	12.67	3	0.365	0.256::	0.117:	3	2.671	1	
562	20	A6I-II	8.55	3	0.342	0.180	0.348	3	2.642	4	+26 2338
562	21	F6I-II	12.68::	3	0.454::	0.637::	0.715::	3			SEE NOTE 13
562	22	G	12.81	2	0.235	0.215	0.428:	2	2.655	1	
562	23	G5	12.08	3	0.601	0.344:	0.430:	3			
562	24	F5I-II	10.02	2	0.292	0.164	0.439	2	2.701	3	+26 2339
562	25	G8	12.59	3	0.407	0.151	0.185	3			
564	01	G5III	11.66	2	0.429	0.355	0.353:	2			
564	02	G0	12.13	2	0.391	0.211	0.311	2	2.593	2	
564	03	G8IV	11.86	2	0.453	0.272	0.208:	2			
564	04	F9IV	10.89	2	0.341	0.184	0.348	2	2.616	4	- 0 2598
564	05	G	12.68	1	0.405	0.293	0.258	1			
564	06	G	12.50:	2	0.479	0.414	0.311	2			
564	07	G	12.38:	2	0.467	0.272	0.313	2			
564	08	K	12.86	2	0.649	0.306	0.562::	2			
564	09	G6	11.95	2	0.419	0.280	0.207	2			
564	10	K	12.05	2	0.605	0.527:	0.162	2			
564	11	K	12.75	2	0.567	0.419:	0.353	2			
564	12	K2III	11.37	2	0.682	0.517	0.345	2			
564	13	G	12.52:	2	0.343	0.139:	0.415	2	2.632	2	
564	14	G	12.75	2	0.384	0.337:	0.179:	2	2.595	2	
564	15	K	12.18	2	0.794	0.618	0.161	2			
564	16	G	12.20	2	0.516	0.333	0.370	2			
564	17	G5	12.10	2	0.510	0.334	0.608	2			
564	18	G	12.45	2	0.460:	0.169::	0.323	2			
564	19	G	12.55	2	0.307:	0.220:	0.398	2	2.616	2	
566	01	F7III	10.90	2	0.316	0.146	0.398	2	2.650:	4	
566	02	K	12.35:	2	0.611	0.184	0.511	2			
566	03	G9III	11.08:	2	0.552	0.357	0.422	2			
566	04	M6III	10.60	2	1.375	-0.809	2.049:	2			
566	05	K0	12.05:	2	0.445	0.471	0.500	2			
566	06	G	12.34	2	0.641	0.130	0.470	2			
566	07	G0III	10.24	2	0.342	0.173	0.328	2	2.646	4	+ 8 2640
569	01	K5III	11.29	2	0.835	0.533	0.122	2			
569	02	K3III	10.22	2	0.852	0.696	0.321	2			+ 2 2581
569	03	G5III	9.80	2	0.431	0.197	0.456	2			+ 1 2757
569	04	G8III	12.23	2	0.397	0.141:	0.299	2	2.600	2	
569	05	F9III	10.47	2	0.354	0.149	0.269	2	2.594	5	
569	06	F8III	11.61::	2	0.355	0.138	0.360	2	2.618	4	
569	07	K0II	8.19	2	0.708	0.495	0.357	2			+ 2 2582
569	08	K2II	9.95	2	0.749	0.593	0.405	2			+ 2 2583
569	09	G9III	9.84	2	0.571	0.392	0.344	2			
569	10	M0III	11.47	2	0.689	0.539	0.171	2			
569	11	F8III	11.41	2	0.312	0.156	0.366	2	2.657	3	
569	12	F6III	10.79	2	0.306	0.119	0.465	2	2.665	5	+ 2 2587
569	13	G6III	11.01	2	0.582	0.381	0.410	2			
569	14	F5III	11.95::	2	0.222	0.121	0.765	2	2.679	4	
569	15	K0III	8.71	2	0.596	0.346	0.454	2	2.597	1	+ 1 2761
569	16	F8III	9.76	2	0.330	0.238:	0.340	2	2.648	5	+ 2 2590
569	17	K7	12.45	2	0.633	0.431	0.258	2			
569	18	G0III	11.50	2	0.370	0.257	0.319	2	2.613	4	SEE NOTE 18
579	01	G0	12.50	2	0.297:	0.196:	0.413	2	2.619	2	
579	02	G0	12.22	1	0.364	0.163	0.342	1	2.608	2	SEE NOTE 19
579	03	G8III	12.10	2	0.598	0.330	0.490	2			
579	04	F5III	9.94	2	0.292	0.174	0.413	2	2.681	4	+15 2615
579	05	G0	12.38	2	0.332	0.141	0.342:	2	2.504	1	
579	06	G	12.93	2	0.515::	0.333::	0.447:	2			
579	07	G	12.48	2	0.541	0.461	0.118:	2			
579	08	G5III	11.13	2	0.580	0.290	0.312	2			+15 2616
579	09	G2	12.09	2	0.357	0.190	0.331:	2	2.646:	2	
579	10	F8III	9.55	2	0.343	0.152	0.467	2	2.644	4	+15 2617
579	11		12.21	2	0.451	0.214	0.290	2			
579	12	G5III	11.70	2	0.554	0.352	0.507	2			
579	13	G0III	11.59	2	0.356	0.182	0.432	2	2.612:	3	
579	14	G5III	11.77	2	0.631	0.322	0.431	2			
579	15	F8III	11.14	2	0.347	0.219	0.335	2	2.640	3	SEE NOTE 20
579	16	G2	11.95	2	0.411	0.194	0.396	2			
579	17	G5III	11.14	2	0.464:	0.141	0.434	2			
579	18	G5	10.69	2	0.418	0.269	0.378	2			+15 2623
579	19	G-K	11.30	2	0.390	0.210	0.452	2			
579	20	G3III	9.88	2	0.412	0.196	0.342	2			+15 2624
579	21	G	12.78	2	0.435:	0.255	0.287	2			
579	22	F8III	9.87	2	0.332	0.127	0.399	2	2.633	5	+15 2626
579	23	K	12.69:	2	0.386	0.145	0.357:	2			
579	24	G5	12.37	2	0.639	-0.036	0.607	2			
579	25	G	12.55	2	0.600	0.273	0.401	2			

1976A&AS...23..393B

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
580	01	G5III	11.02	2	0.421	0.207	0.250	2			+ 7 2687
580	02	G2	11.83	2	0.396	0.221	0.372	2	2.567	2	
580	03	G	12.36	2	0.609:	0.405	0.259	2			
580	04	F5III	11.35	2	0.311	0.174	0.359	2	2.657	4	
580	05	G	12.31	2	0.349	0.214	0.295	2	2.608	3	
580	06	G0	12.03	2	0.575	0.295	0.303:	2			
580	07	G9III	10.63	2	0.596	0.356	0.479	2			+ 7 2688
580	08	G8	11.94	2	0.484	0.231	0.526	2			
580	09	F2	11.81	2	0.226::	0.128	0.452	2	2.642	4	
580	10		12.58::	2	0.414	0.243	0.288	2			
580	11	G5III	9.23	2	0.405	0.243	0.321	2			+ 6 2792
580	12	K0	11.91	2	0.482	0.343::	0.376::	2			
580	13	G0	12.05	2	0.356	0.167	0.384	2	2.623	2	
580	14	G5	12.10	2	0.380	0.226	0.310	2	2.586	3	
580	15	K	13.43	2	0.587	0.294:	0.115	2			
580	16	G	12.31	2	0.444	0.468:	0.125:	2			
580	17	M0V	9.99	2	0.736	0.612	0.170	2			+ 7 2692
580	18	K	11.72	2	0.806	0.614	0.142	2			
580	19	G5	11.98	2	0.417	0.194	0.290	2			
580	20	M0	11.88	2	0.951	0.720	0.206::	2			
580	21	G0	12.37	2	0.313	0.169:	0.319:	2	2.605	3	
580	22	F9III	11.42	2	0.337:	0.146:	0.434	2	2.615	4	
580	23	G	12.40	2	0.402	0.168	0.250	2	2.569	1	
580	24	K2III	10.09	2	0.814	0.575	0.386	2			+ 7 2696
590	01	K1	11.41	2	0.606	0.428	0.448	2			
590	02	G0	11.90	4	0.349	0.126	0.302	4	2.602	3	
590	03	G0	12.41	1	0.353	0.188	0.335	1	2.637	1	
590	04	K0	11.52	2	0.429	0.260	0.310	2			
590	05	G0	10.81	3	0.361	0.135	0.322	3	2.619	4	+31 2625
590	06	F8	10.97	3	0.319	0.129	0.355	3	2.637	4	+30 2531
590	07	K5IV	10.50	3	0.548	0.421	0.270	3			+30 2532
590	08	F3IV	9.90	3	0.265	0.173	0.533	3	2.693	3	+31 2629
590	09		12.69	1	0.574	0.391	0.302	1			
590	10	G	10.94	3	0.436	0.232	0.246	3			
590	11	M	11.36	2	0.897	0.601	0.370	2			
592	01	K	12.31	2	0.527	0.298	0.543	2			
592	02	G0	12.39	2	0.411	0.108	0.262	2			
592	03	G5	12.27	2	0.471	0.157	0.556::	2			
592	04	G0III	9.27	2	0.347	0.157	0.425	2	2.631	3	+30 2534
592	05	K2I-II	8.95	2	0.666:	0.607:	0.392	2			+30 2535
592	06	G	12.34	2	0.522	0.176:	0.335	2			
592	07	G0	11.89	2	0.414	0.191	0.328	2			
592	08		12.12	2	0.421::	0.314	0.342	2	2.602	2	
592	09	F9III	10.51	2	0.379:	0.112:	0.360	2	2.630	3	
592	10	G3	11.44	2	0.379	0.180	0.356	2	2.594	3	
592	11	K:	12.25	2	0.540:	0.443::	0.116	2			
592	12	G0	11.89	2	0.354:	0.205	0.398	2	2.618	3	
592	13	G	12.44:	2	0.429:	0.149	0.279:	2			
592	14	K2:	12.68	1	0.501	0.460	0.295	1			
592	15	G0	12.73	2	0.421	0.213	0.344:	2			
763	01	G0:	12.6	0	0.479:	0.185	0.432	2	2.563	1	
763	02	G0	8.84	2	0.383	0.210	0.349	4	2.615	2	-16 6170
763	03	G2	11.5	0	0.512	0.194	0.407	2			
763	04	F8	12.0	0	0.425	0.153	0.409	2	2.553	1	
763	05	G5	9.4	0	0.608	0.337	0.420	2			-16 6171

Field #	Star #	Spectral Type	V	n	(b-y)	m_1	c_1	n	β	n	Comments
763	06	G2	11.94	1	0.395:	0.205	0.381	3	2.603	1	
763	07	G:	12.2	0	0.484	0.260	0.411	2			
763	08	K5	11.5	0	0.701	0.549	0.390	2			
763	09	K0	11.73	1	0.422	0.244	0.339	3			-16 6175
763	10	G8	8.76	1	0.549	0.310	0.370	4			-16 6177
763	11	G5	11.2	0	0.494	0.234	0.411	2			
763	12	F8:	12.0	0	0.385	0.128	0.456	2	2.637	1	
763	13	G2	11.4	0	0.361	0.124	0.440	2	2.690	1	
763	14	G8	9.13	1	0.605	0.377	0.413	3			-16 6178
763	15	G2	12.1	0	0.575	0.197:	0.411	2	2.569	1	
763	16	K5	9.8	0	0.900	0.689	0.498	2			-16 6179
763	17	G2:	12.0	0	0.411	0.127	0.422:	2	2.477	1	
763	18	G0	10.99	1	0.365	0.177	0.459	3	2.671	1	-16 6180
763	19	K0	12.1	0	0.440	0.154	0.490	2			
763	20	G2	11.5	0	0.606	0.445	0.263	2	2.559	1	
763	21	G0	11.8	0	0.558	0.242	0.388	2	2.533	1	
763	22	G5	11.92	1	0.594	0.390	0.379	3	2.593	1	
769	01	F5	7.56	4	0.345	0.164	0.327	4	2.594	3	- 9 6149
769	02	G2	8.20	3	0.411	0.213	0.270	3	2.607	3	
769	03	G5	9.04	4	0.390	0.219	0.366	4	2.611	3	- 9 6152
769	04	K0	12.06:	3	0.494	0.294:	0.309	3			
769	05	K0	12.17:	3	0.514	0.242	0.434	3			
769	06	K2:	12.41	3	0.741	0.402:	0.616::	3	2.578	1	
769	07	G2	12.18:	2	0.536	0.057	0.513	2	2.625	2	
769	08	F8	12.08	3	0.376	0.136	0.228	3	2.545	3	
769	09	F8	12.29	2	0.416	0.068	0.389	2	2.626	2	
769	10	G5	12.33	3	0.492:	0.364	0.353	3			
769	11	F5	11.00	3	0.349	0.176	0.391	3	2.675	3	
769	12	G8	12.26	2	0.546	0.270:	0.441	2	2.448	1	
769	13	F5	11.70:	4	0.348	0.178	0.371	4	2.659:	4	
769	14	K0	12.27:	3	0.567	0.302	0.483:	3			
769	15	K5	11.60::	4	0.600	0.454	0.269	4			
769	16	G8	11.10	3	0.427	0.178	0.331	3			
769	17	G2	10.38	3	0.370	0.165	0.346	3	2.590	3	- 9 6157
769	18	F	12.75	2	0.388	0.186	0.432	2	2.740:	2	
769	19	G5	11.15	3	0.401	0.166	0.395	3			
770	01	F8	11.34:	5	0.345:	0.169:	0.409	5	2.662	5	SEE NOTE 14
770	02	K0	8.71	2	0.714	0.568	0.442	2			-14 6440
770	03	K0	6.56	3	0.772	0.550	0.309	3			SEE NOTE 15
770	04	F5	11.36	4	0.337	0.134	0.393	4	2.633	4	-14 6444
770	05	G5	10.30	3	0.403	0.225	0.410	3	2.605	3	SEE NOTE 16
770	06	G0	11.27	5	0.358	0.168	0.319	5	2.558	5	SEE NOTE 17
770	07	M0	11.90	3	0.644	0.575:	0.493:	3			
770	08	F8	11.67	3	0.332:	0.220	0.378	3	2.695:	3	
770	09	K5	10.95	3	0.719	0.516	0.399	3	2.524	3	-14 6449
770	10	G2	11.50	4	0.532	0.314	0.352	4	2.574	4	
770	11	G5	12.20:	3	0.586:	0.244	0.558:	3	2.575:	3	-14 6451
770	12	G8	11.65	3	0.636	0.350	0.370	3	2.550	1	
770	13	M0	7.13	3	0.969	0.712	0.412	3			-14 6453
770	14	F5	8.66	3	0.299	0.170	0.494	3	2.678	3	-14 6455
773	01	G8	9.82	3	0.603	0.416	0.378	3	2.565	3	-17 6739
773	02	F8	10.93	3	0.322	0.174	0.483	3	2.664	3	-17 6740
773	03	G5	9.79	3	0.440	0.309	0.404	3	2.606	3	-17 6741
773	04	G0	10.98	3	0.369	0.133	0.438	3	2.671	3	
773	05	G5	11.43	4	0.463	0.195	0.322	4	2.615:	4	

Table 5 *(continued)*

Field #	Star #	Spectral Type	V	n	(b−y)	m_1	c_1	n	β	n	Comments
773	06	K0	10.53	3	0.651	0.392	0.478	3	2.573	3	−18 6293
773	07	G0	10.15	3	0.391	0.225	0.347	3	2.614	3	−18 6294
773	08	G0	11.11	4	0.386	0.157	0.384	4	2.586	4	−18 6296
773	09	G5	10.10	3	0.422	0.249	0.366	3	2.615	3	−17 6747
773	10	F5	11.47	4	0.343:	0.190:	0.366	4	2.578	4	
773	11	F8	11.49	4	0.362	0.133	0.388	4	2.550:	4	
773	12	G2	11.23	4	0.412	0.187	0.320	4	2.570	4	−18 6303
773	13		10.19	3	0.322	0.185	0.424	3	2.664	3	−18 6306
773	14		10.55	3	0.307	0.182	0.438	3	2.683	2	
780	01	K0	11.81	3	0.527	0.329	0.301	3	2.555	3	
780	02	G0	11.07	2	0.362	0.145	0.419	2	2.602	3	−21 6502
780	03	F0	8.86	2	0.239	0.148	0.628	2	2.707	3	−21 6505
780	04	K2	9.87	2	0.601	0.402	0.396	2			−21 6506
780	05	F2	9.65	2	0.227	0.166	0.557	2	2.692	3	−20 6681
780	06	G0	10.78	2	0.393	0.226	0.448	2	2.602	3	−20 6683
780	07	K0	9.52	2	0.532	0.292	0.391	2	2.521	1	−20 6687
780	08	G0	11.35	2	0.398	0.194	0.259	2	2.573	3	
780	09	G2	11.74	3	0.509	0.224	0.351	3			−21 6514
780	10	A0	9.87	2	0.060	0.227	0.998	2	2.872	3	−21 6515
780	11	K0	11.88	3	0.524	0.351	0.299	3	2.511	3	

NOTES

1. BD −13° 57. Variable?
2. BD + 1° 81, ADS 529. Measured together with 5-06.
3. ADS 529. Double with 5-05, measured separately.
4. ADS 549. Measured together with 5-10.
5. Close double, measured together.
6. BD + 2° 85, ADS 554. Measured together with 5-17.
7. BD −16° 292, ADS 1356. Measured together with 23-07.
8. 26-04 and 371-03 are identical.
9. Variable?
10. Double star, measured separately.
11. BD +28° 2195. Close double, measured together.
12. ADS 8827. Double with 168-17. Now appears singular.
13. Possible contamination by near-by bright star.
14. BD −14° 6439. 332-16 and 770-01 are identical.
15. BD −14° 6441. 332-17 and 770-03 are identical.
16. BD −14° 6445. 332-20 and 770-05 are identical.
17. 332-21 and 770-06 are identical.
18. Close double, measured together.
19. Double star, measured separately. Together, V = 11.97 mag.
20. BD +15° 2619. Double star, measured separately.

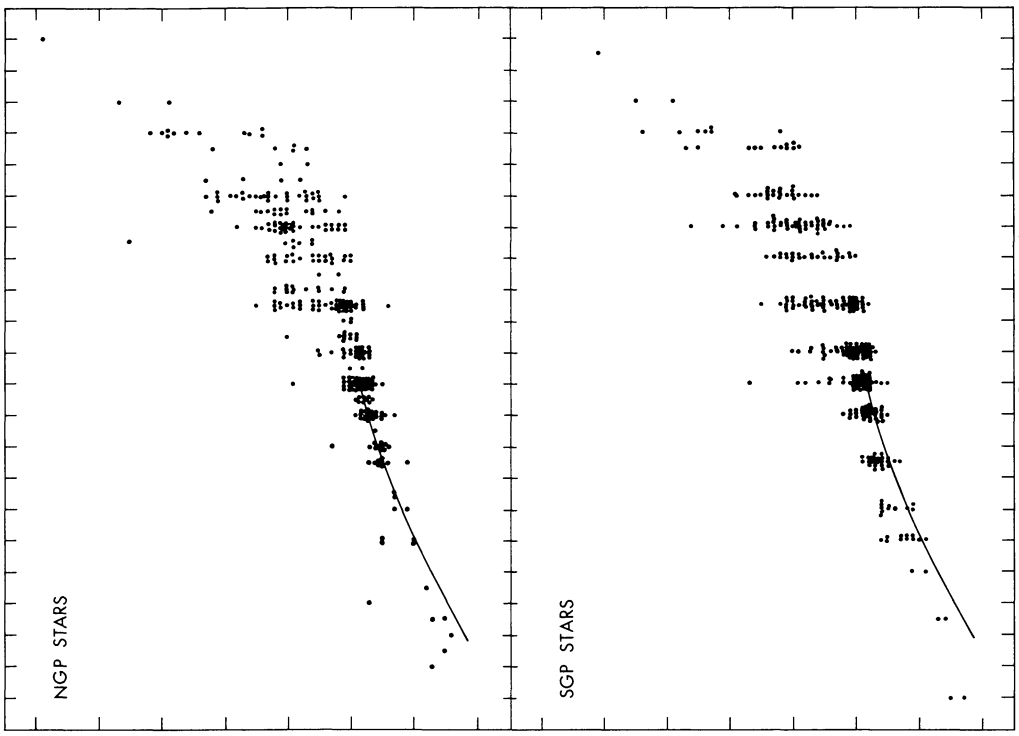

Figure 3 Spectral type versus $(b-y)$. The NGP spectral types were made from plates taken at Abastumani Astrophysical Observatory and the SGP types were made from GPO plates taken at La Silla. The solid line is the Hyades relation for A and F stars.

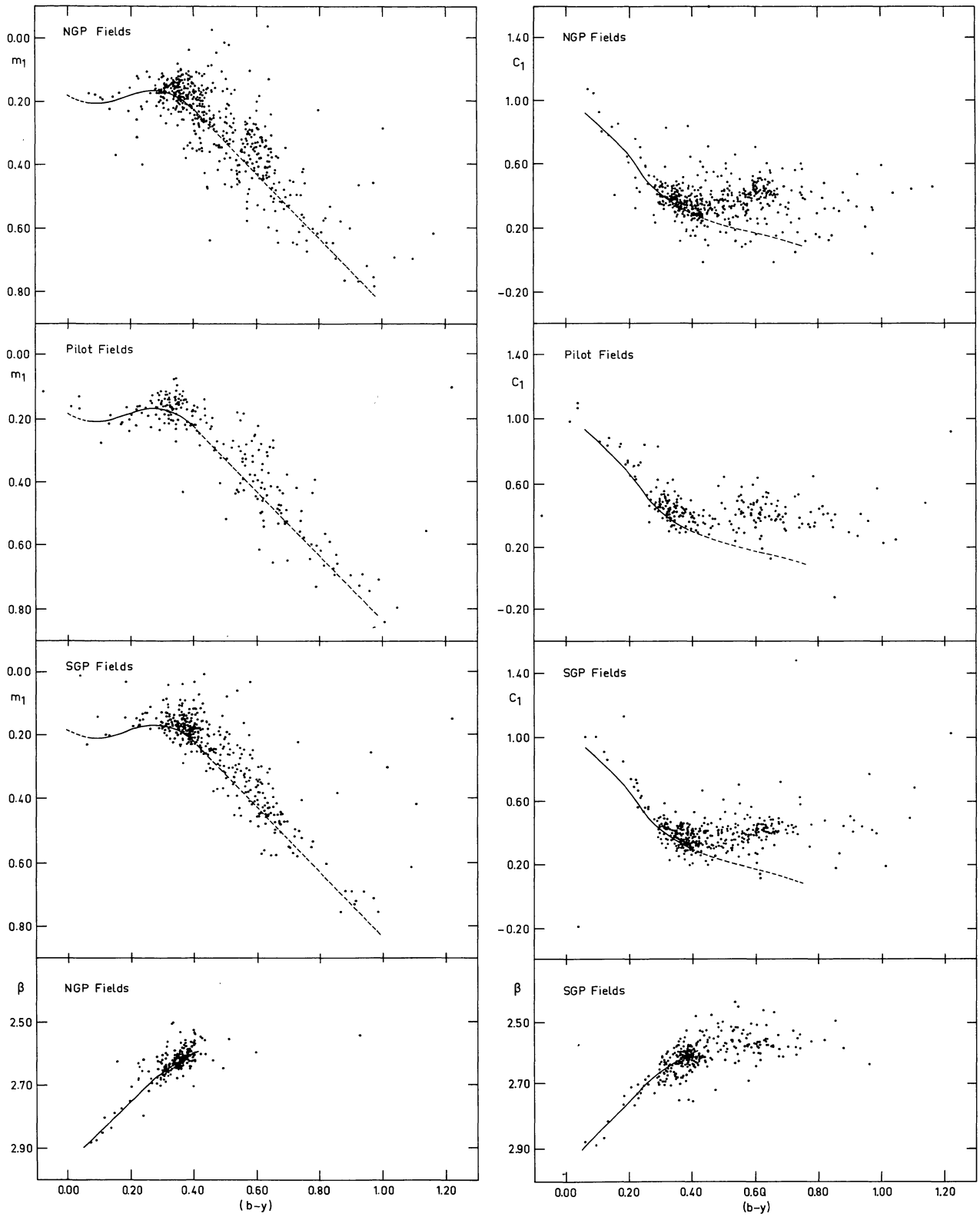

Figure 4 m_1, c_1 and β plotted against $(b-y)$. The solid line represents the Hyades relation for A and F stars and the dashed line is the extrapolation of this relation following the suggestion of Bond (1970). The higher scatter in the NGP diagrams for m_1 and c_1 is due entirely to the stars fainter than 11.5 mag. observed in 1970a.