

APPENDIX

A CATALOGUE OF [Fe/H] DETERMINATIONS

A CATALOGUE OF [Fe/H] DETERMINATIONS

M. MOREL

*Institut d'Astronomie de l'Université de Lausanne
and Observatoire de Genève, Switzerland*

and

C. BENTOLILA and G. CAYREL

Observatoire de Meudon, Paris, France

and

B. HAUCK

*Institut d'Astronomie de l'Université de Lausanne
and Observatoire de Genève, Switzerland*

Abstract. A catalogue resulting from the compilation of published values of iron/hydrogen abundances is given for 515 stars.

1. Introduction

The idea of presenting to Symposium No. 72 a catalogue of iron/hydrogen abundances coming exclusively from high dispersion analyses ($\leq 20 \text{ \AA mm}^{-1}$) came to us in remembering the high interest expressed in two previous lists of iron/hydrogen abundances, one published by R. and G. Cayrel (1966) and the other published by G. Cayrel *et al.* (1970). This time the authors have the pretension of calling the third list a 'Catalogue of [Fe/H] Determinations'.

2. The Catalogue

The catalogue consists of three tables.

In Table I, a compilation of absolute abundance determinations of iron in the solar photosphere made by Blackwell (1974) is given. These abundances are based on the scale $\log N_{\text{H}} = 12$.

In Table II, iron/hydrogen abundances of 515 stars are given. These abundances are given in the form of logarithmic differences between the iron abundance in the atmosphere of the analyzed star and the iron abundance in a standard star and written in the form:

$$\left[\frac{\text{Fe}}{\text{H}} \right]_{\text{stand}}^{\text{star}} = \log \frac{\text{Fe}}{\text{H}}(\text{star}) - \log \frac{\text{Fe}}{\text{H}}(\text{stand})$$

They come exclusively from detailed analyses based on high dispersion spectra. The chosen limit of the dispersion is about 20 \AA mm^{-1} .

In Table III, indications on the mean dispersion and the wavelength interval used in each detailed analysis are given.

In addition to the abundance parameter, Table II contains other useful spectroscopic and photometric parameters, as the effective temperature gravity and microturbulence parameters with which $[\frac{\text{Fe}}{\text{H}}]_{\text{stand}}^{\text{star}}$ has been determined. Also a column indicating the standard star used in the $[\frac{\text{Fe}}{\text{H}}]_{\text{stand}}^{\text{star}}$ determination and a column for the bibliographic references have been added. The MK spectral type of the stars contained in Table II has been chiefly taken from the new Catalogue of Jaschek and Jaschek (1975). The photometric data have been compiled by the Stellar Data Center of Strasbourg.

3. Description of Table II

This table contains 515 stars and 876 measurements. It contains in brief the following columns:

- Column 1: HD number. Stars without an HD number are grouped at the end of the Catalogue
- Column 2: star name
- Column 3: spectral type taken chiefly from the new catalogue of Jaschek and Jaschek (in preparation). Spectral types given in brackets are taken from the 'Kennedy Catalogue' or other sources.
- Column 4: visual apparent magnitude VM taken briefly from the 'Bright Star Catalogue' or from the Catalogue of Jaschek *et al.* (1972) (magnitude VM followed by an asterisk).
- Column 5: absolute magnitude MV taken from the 'Gliese Catalogue'
- Columns 6 and 7: photometric data $B-V$, $U-B$ taken from Johnson and Mitchell (1966). The values from Jaschek *et al.* or other sources are followed by a double asterisk.
- Column 8: $R-I$ (without an asterisk) taken from Johnson and Mitchell (1966) or, if followed by an asterisk, $I-K$ taken from Neugebauer and Leighton (1969)
- Columns 9 and 10: temperature parameter $\theta_{\text{eff}} = 5040/T$ with an indice (column 10):
- (1) effective temperature
 - (2) ionization temperature
 - (3) excitation temperature
 - (4) effective temperature calculated by taking $\theta_{\text{eff}} = 0.87$ and assuming:

$$\Delta\theta_{\text{exc}} = \Delta\theta_{\text{ion}} = \Delta\theta_{\text{eff}}$$
- Column 11: gravity: $\log g$

Column 12:	electron pressure: $\log Pe$
Column 13:	$[Pe]_{\text{stand}}^{\text{star}}$
Column 14:	$[V]_{\text{stand}}^{\text{star}}$
Column 15:	microturbulent velocity
Column 16:	the standard star employed in this analysis
Column 17:	the iron/hydrogen parameter $[\frac{\text{Fe}}{\text{H}}]_{\text{stand}}^{\text{star}}$
Column 18:	reference

4. Conclusion

This catalogue may have omitted some available data of iron/hydrogen determinations, up to the epoch in which it was compiled (June 1975). The authors would be happy to receive such data, as well as new data of Fe/H determinations in order to prepare revised and updated editions of the Catalogue.

The Catalogue is dedicated to Prof. Chalonge, who has contributed in so many and highly interesting ways to spectral classification.

References

- Blackwell, D. E.: 1974, *Quart. J. Roy. Astron. Soc.* **15**, 224.
 Cayrel, R. and Cayrel de Strobel, G.: 1966, *Ann. Rev.* **4**, 1.
 Cayrel de Strobel, G., Chauve-Godard, J., Hernandez, G., and Vaziaga, M. J.: 1970, *Astron. Astrophys.* **7**, 408.
 Jaschek, C. and Jaschek, M. (in preparation).
 Jaschek, C., Hernandez, E., Sierra, A., and Gerhardt, A.: 1972, *Obs. Astrophys. Nac. La Plata*, vol. 38.
 Johnson, H. L. and Mitchell, R. I.: 1966, *LPL* **4**, 99.
 Neugebauer, G. and Leighton, R. B.: 1969, The Two-Micron Sky Survey, *NASA SP-3047*.

TABLE I

Absolute abundance determinations of Fe with solar photosphere based on the scale $\log N_{\text{H}} : 12$

$\log N$ [Fe]		Publication
6.59	Fe I + Fe II	1964 (1)
7.63	Fe II	1969 (2)
7.62		1951 (3)
6.85	Fe I	1967 (4)
7.28	Fe I + Fe II	1972 (5)
7.60	Fe I	1969 (6)
6.57	Fe I + Fe II	1960 (7)
6.64	Fe I	1964 (8)
7.50	Fe II	1969 (9)
7.64	Fe I	1973 (10)
6.76	Fe I	1963 (11)
7.2	Fe I	1973 (12)
7.2	Fe I	1973 (13)
6.70	Fe I	1964 (14)
7.50	Fe II	1970 (15)
(5.8)		1925 (16)
7.55	Fe I + Fe II	1970 (17)
6.85	Fe I	1969 (18)
7.2	Fe I	1970 (19)
7.4	Fe I	1973 (20)
7.2	Fe I + Fe II	1929 (21)
6.78	Fe I	1964 (22)
7.15		1948 (23)
6.81	Fe I	1964 (24)
6.55	Fe I + Fe II	1968 (25)
6.45		1955 (26)
6.80	Fe I	1969 (27)

REFERENCES TO TABLE I

- (1) Aller, L. H., O'Mara, B. J., and Little S.: 1964, *Proc. Nat. Acad. Sci.*, Washington 51, 1238.
(2) Bašček, T., Garz, R., Holweger, H., and Richter, J.: 1969, *Astron. Astrophys.* 4, 229.
(3) Claas, W. J.: 1951, *Rech. Astron. Obs. Utrecht* 12, part I.
(4) Cowley, C. R. and Warner, B.: 1967, *Observatory* 87, 117.
(5) Foy, R.: 1972, *Astron. Astrophys.* 18, 26.
(6) Garz, T., Holweger, H., Kock, M., and Richter, J.: 1969, *Astron. Astrophys.* 2, 446.
(7) Goldberg, L., Muller, E. H., and Aller, L. H.: 1960, *Astrophys. J. Suppl.* 5 no. 45.
(8) Goldberg, L., Kopp, R. A., and Dupree, A. K.: 1964, *Astrophys. J.* 140, 707.
(9) Grevesse, N. and Swings, J. P.: 1969, *Astrophys. J.* 2, 28.
(10) Huber, M. C. E. and Tubbs, E. F.: 1973, *Astrophys. J.* 186, 1053.
(11) Leftus, V.: 1963, *Bull. Astron. Inst. Czech.* 14, 155.
(12) Lites, B. W. and Brault, J. W.: 1973, *Solar Phys.* 30, 283.
(13) Lites, B. W.: 1973, *Solar Phys.* 32, 283.
(14) Muller, E. and Mutschlecner, P.: 1964, *Astrophys. J. Suppl.* 9, 1.
(15) Nussbaumer, H. and Swings, J. P.: 1970, *Astron. Astrophys.* 7, 455.
(16) Payne, C. H.: 1925, *Stellar Atmospheres*, Harvard Observatory Monographs, Cambridge, Mass. no. 1.
(17) Richter, J. and Wulff, P.: 1970, *Astron. Astrophys.* 9, 37.
(18) Rogerson, J. B.: 1969, *Astrophys. J.* 158, 797.

- (19) Ross, J. E.: 1970, *Nature* **225**, 610.
- (20) Ross, J. E.: 1973, *Astrophys. J.* **180**, 599.
- (21) Russell, H. N.: 1929, *Astrophys. J.* **70**, 11.
- (22) Teplitskaya, R. B. and Vorob'eva, V. A.: 1964, *Soviet Astron.* **7**, 778.
- (23) Unsöld, A.: 1948, *Z. Astrophys.* **24**, 306.
- (24) Warner, B.: 1964, *Monthly Notices Roy. Astron. Soc.* **127**, 413.
- (25) Warner, B.: 1968, *Monthly Notices Roy. Astron. Soc.* **138**, 229.
- (26) Weidemann, V.: 1955, *Z. Astrophys.* **36**, 101.
- (27) Withbroe, G. L.: 1969, *Solar Phys.* **9**, 19.

TABLE II

ID	NAME	SPECT. TYP	VR	MV	B-V	U-B	1-X	Φ	lg B	lg PE	[V]	Σ^+	STANDARD	[E-/H] REF
26	644P		8.22 *		1.08	0.53 **		1.02 4		-0.5	-0.12		EPS VIR	-0.67 18
358	21ALF AND 86P		2.02		-0.11	-0.47	-0.21	0.36 1	3.5			+3	SUN	-1.5 211
886	886AH PEG 82IV		2.83		-0.23	-0.87	-0.39						SUN	+0.48 187
1461	[85IV-u]		6.45	4.5	0.68	0.29		0.85 4			+0.20	+5.1	SUN	+0.43 74
1909	[89IV]		6.66		-0.03	-0.51 **		0.377 3					HR 463	+0.23 128
2151	BET NYI 82IV		2.79	3.80	0.62	0.11		0.46 1 4	3.25	+2.20		+4	MURM A *	+0.08 160
2151								0.44 1	3.25	+2.20			53 TAU	+1.04 171
2421	[82V]		5.17		0.04	-0.01 **		0.94 2	3.80	+0.67	-0.33	+2.19	SUN	-0.30 20
2628	AND 8H		5.19		0.25	0.06 **		0.88 1	4.0			+1.5	SUN	-0.31 86
2685	[85111]		8		0.77	**		0.53 1	4.0			+3	MURM A *	-0.1 145
3360	17 ZET CAS 82V		3.61		-0.19	-0.89		0.73 2	1.56	+1.56		+4.8	MURM A *	+0.76 143
3443	85V		5.56	5.7	0.71			1.06 1	1.80	-1.51		+0.6	SUN	-1.56 42
3546	60FPS AND 85111+		4.37		0.87	0.47	1.42 *	0.73 1	4.57			+1.5	SUN	+0.48 187
3627	31UL AND K3111		3.21		1.28	1.48		1.19 2	2.44	-0.75		+2.0	68M TAU	-0.16 208
3651	5A FSC K0V		5.84	5.75	0.85	0.57		0.95 1	4.63				SUN	-0.75 43
3651								1.10 3					SUN	0.00 21
3651								0.78 1	4.4				SUN	-0.06 61
4614	24ETA CAS 80V		3.45	4.60	0.58	0.02	0.61	0.89 1	4.37				SUN	-0.32 126
4813	19PH1 20ET F8IV		5.20	4.23	0.50	-0.01	-0.74	0.84 2					SUN	-0.17 151
5015	F8V		4.83	4.1	0.53	0.12	-0.78	0.85 1	4.13				SUN	-0.17 61
5015								0.84 1	4.11				SUN	+0.03 19
5544	K0111(F)		7.71 *					1.20 1			+0.21	-0.02	SUN	+0.06 62
5737	ALF SCL 84P		4.30		-0.18	-0.57	0.16	0.52 1	5.4				SUN	+0.10 233
5737								0.27 1	3.60				SUN	+0.33 25
5780	K511-111		7.61 *		1.42	1.69 **		1.53 1	1.20				TOT KAP GEM EPS VIR, ETA HER	+0.7 205
6497	K2111+		6.43		1.18	1.27		1.32 1	2.0				R *	+0.9 206
6497								1.14 1	2.80				R *	-0.43 152
6582	30NU CAS 350P		5.12	5.75	0.67	0.09		0.94 1	4.20				SUN	-0.40 41
6582								0.94 1	4.20				SUN	+0.02 165
6582								0.95 1	4.61				SUN	-0.57 44
6582								0.95 1	4.61				SUN	-0.62 57
6582								0.95 1	4.61				SUN	-0.71 61

TABLE II (CONTINUED)

HD	NAME	SPECT. TYPE	V _H	B-V	U-B	I-K	σ	1 LB 9	LG 15	[Fe]	Σ	STANDARD	[Fe/H] REF
6330		F6V	7.68 *	0.71	0.08 **		0.97 1	2.80	-0.45		40.7	SUN	-1.04 42
6833		G8III	6.74 *	1.18	0.89 **		1.34 1	1.5			42.4	SUN	-0.85 41
6833		G8III	6.74 *	1.18	0.89 **		1.18 1	1.50		-0.07		SUN	-0.83 224
7383		A0III-F	16.07 *	0.13	-0.35 **		0.85 2	0.20			44.5	ALL SUN	-1.0 114
7383		A0III-F	16.07 *	0.13	-0.35 **		0.56 3	0.87				SUN	-0.22 207
7383		A0III-F	16.07 *	0.13	-0.35 **		0.56 3	0.87				SUN	0.00 136
8679	1ALP	UM1 F7-F8Ib-11	2.04 *	0.60	0.36	-0.80	0.87 2	3.51			46.3	SUN	-0.23 62
8626	50UPE	AM1 F8V	4.08 *	0.54	0.36	0.77 *	0.84 1	4.10	+0.33	+0.08	41.5	SUN	-0.11 75
7826		F8V	4.08 *	0.54	0.36	0.77 *	0.83 1	4.10				SUN	-0.14 98
4496		A0F	6.30				0.47 1	3.7			44	SUN	40.86 95
10307		G2V	4.74	0.62	0.11	0.55	0.85 4		-0.01	-0.01	40.20	SUN	40.20 3
10307		G2V	4.74	0.62	0.11	0.55	0.87 1	4.36			40.9	SUN	-0.03 62
10307		G2V	4.74	0.62	0.11	0.55	0.84 4		+0.04		40.16	SUN	40.16 74
10307		G2V	4.74	0.62	0.11	0.55	0.84 4				41.5	SUN	40.14 85
10380	1ueMU	F5c K3III	4.45	1.36	1.56	2.01 *	1.26 1	1.50			41.5	SUN	0.00 21
10380		F5c K3III	4.45	1.36	1.56	2.01 *	1.26 1	1.50			41.5	SUN	-0.35 152
10700	321AU	UE1 86UP	3.30	0.72	0.21	1.18 *	0.97 2		-0.44		41.5	SUN	-0.39 5
10700		UE1 86UP	3.30	0.72	0.21	1.18 *	0.91 2		-0.03	+0.16	41.5	SUN	-0.13 19
10700		UE1 86UP	3.30	0.72	0.21	1.18 *	0.91 2		-0.14		41.5	SUN	-0.37 26
10700		UE1 86UP	3.30	0.72	0.21	1.18 *	0.91 2				41.5	SUN	-0.34 61
10760		K0V	5.59	0.81	0.40	-1.03	0.76 1	4.60			41.5	SUN	40.36 61
11007		G2V	5.70	0.58	0.04 **		0.84 1	4.09			40.7	SUN	-0.24 62
11357		G8III	8.75 *	0.69	0.10 **		0.89 1	5.00			40.20	SUN	40.20 152
11709	8101	AK1 K1F	5.06	0.92	0.71 **		1.19 2	2.42	-0.58		42.0	6AK 1AU	-0.37 43
12529	15ALP	AK1 K2III	2.00	0.6	1.15	1.18	1.12 1	2.4			41.6	SUN	-0.21 151
15555	17E1A	AK1 F5V	5.23	0.44	-0.05 **		0.82 1	5.70			41.6	SUN	-0.30 98
13974	8BEL	IK1 80V	4.87	4.2	0.61		0.88 4		-0.28	-0.03		SUN	-0.43 3
13974		IK1 80V	4.87	4.2	0.61		0.93 2		-0.54			SUN	-0.51 5
13974		IK1 80V	4.87	4.2	0.61		0.90 2		-0.19	-0.03		SUN	-0.18 19
13974		IK1 80V	4.87	4.2	0.61		0.87 4					SUN	-0.24 85
15144		A7V	5.84 *	0.14	0.09	-0.16	0.60 1	4.0			47.54	UK1 P6.6	40.03 190
16234	31	AK1 [F7-F8] *	5.64 *	0.49	-0.03 **		0.85 1	3.95			41.3	SUN	-0.49 62
16417	LAM 2F0K	B5IV	5.78 *	4.0	0.66		0.87 1	4.09		-0.19	41.3	SUN	-0.20 86
16458		[AUF]	5.78 *	4.0	0.66		1.08 4		-1.57		45.5	EPS UK1 P1 6 OK1	-0.2 66
16458		[AUF]	5.78 *	4.0	0.66		1.08 4				45.5	EPS UK1 P1 6 OK1	-0.18 188

TABLE II (CONTINUED)

HU	NAME	SPEC. TYPE	VM	B-V	U-B	I-X	D	l	l _B	b _L	b _L PE [°E]	[Y]	Σ+	STANDARD	[E/F]/REF
27370	S4684	1AU K011	3.66	0.39	0.81	1.43	0.99	2	1.01	1.25		-0.39	+0.02	SUN	+0.10 6
27371							1.15	12.5						SUN	0.00 21
27372							1.01	12.5						SUN	-0.08 23
27373							1.05	12.5						ALF RUO	+0.61 47
27374							1.05	12.5						SUN	-0.1 138
27375							1.02	12.70						SUN	+0.05 151
27376							1.00	12.70						SUN	+0.24 152
27377														SUN	-0.12 224
27382	F4V		5.88	0.56	0.09		0.84	1 4.3						SUN	+0.23 23
27561	F5V		5.61	0.41	0.00		0.75	1 4.44						HD 26344	0.00 223
27569	[F-]		9.10	0.65	0.14		0.89	1 4.3						SUN	+0.24 23
27628	G0	1AU AM	5.72	0.52	0.10	-0.46	0.67	1 4.0						HR 114+906+2085+4823	0.00 123
27629							0.69	1 3.86						45 1AU	+0.16 235
27630							0.69	1 2.86						45 1AU	+0.14 235
27677	G1IIE	1AU K011	5.76	0.39	0.82	1.46	1.03	2						SUN	+0.10 6
27677														SUN	0.00 21
27677							1.01	1 2.5						SUN	-0.13 23
27677							1.04	1 2.4						SUN	-0.1 136
27677							0.76	1 3.00						SUN	+0.07 152
27677							1.00	1 2.70						SUN	-0.01 224
27749	G3	1AU AM	5.64	0.40	0.13	-0.43								SUN	+0.65 65
27749							0.65	1 4.5						SUN	+0.81 86
27749							0.65	1 4.0						SUN	+0.37 111
27749							0.79	2 4.0						HR 114+906+2085+4823	+0.28 123
27749							0.65	2 4.4						MICRAL *	+0.57 143
27749							0.65	1 4.4						SUN	+0.57 156
27749							0.66	1 3.80						45 1AU	+0.57 187
27749							0.66	1 2.80						45 1AU	+0.57 235
27749														HD 26344	+0.36 235
27808	[F-]		8.4				0.82	1 4.44						HD 26344	-0.25 223
27819	G4	1AU A/V	4.80	0.15	0.13	-0.23	0.62	1 4.00						SUN	+0.17 65
27819														HD 26344	-0.2 223
27830	[G0]		7.82	0.60	0.12		0.88	1 4.3						SUN	+0.16 23
27855	G2V		7.80	0.60	0.12		0.88	1 4.3						SUN	+0.12 23
27862	G8	1AU A2:1V	4.30	0.04	0.08	-0.19	0.55	1 4.0						SUN	+0.70 65
27862							0.54	1 4.00						HR 114+906+2085+4823	+0.35 123
27862							0.62	2						HD 26344	0.00 223
27862														2 HR	+0.87 226
27989	[G0]		7.55	0.68	0.24		0.91	1 4.3						SUN	+0.06 23
28068	G1V		8.06	0.63	0.17		0.84	4						SUN	-0.04 3
28068							0.89	1 4.3						SUN	+0.04 23
28068							0.84	4						SUN	+0.00 26
28068							0.97	3						SUN	+0.05 29
28068							0.96	3						SUN	+0.07 30
28068							0.82	4						SUN	+0.23 85
28068							0.87	1 4.50						SUN	+0.05 152
28068							0.86	1 4.50						SUN	+0.09 224

TABLE II (CONTINUED)

HD	NAME	SPECT. TYPE	V _R	RV	g-v	g-r	1-x	θ	l	b	l _S	l _S PE	[v]	Σ	STANDARD	[L-E] REF
30676		[F8]	7.12 *		0.50	0.06 **		0.84	1	4.5				45.0	SUN	+0.17 23
30810		F6V	6.76 *		0.54	0.05 **		0.84	1	4.5				45.0	SUN	+0.16 23
31295	7V1	10K1 A0V	4.66		0.08	0.07	0.14	0.57	1	4.0	42.0			44.0	ALF LTR	-0.5 1/4
31398	3101	A0K A311	2.66		1.55	1.78	1.44								SUN	0.00 21
32034		B7IA	10.01 *		0.10		**	0.61	2	1.27	40.6				EYA LEO-13 MON	-0.8 213
32147		[A3V]	6.21	5.40	1.06	1.00	1.34	1.06	1	4.5				42.0	SUN	+0.02 150
32147								1.06	1	4.4				42.1	SUN	+0.02 151
32537	Y	A0K F0V	5.00	3.4	0.34	-0.01	0.51	0.70	1	4.44				45.7	SUN	+0.10 88
32549	11	0K1 A0F	4.68		-0.05	-0.10	0.02				-0.25			44.79	0K1 PL6	-0.54 190
32923	04	1A0 GAV	4.91	4.5	0.54	0.14 **		0.88	1	5.98				40.7	SUN	-0.20 86
33254	16	0K1 A0	5.43		0.24	0.15	0.52	0.62	1	4.0				47.2	HR 114906, 2085, 4825	+0.47 123
33254								0.62	1	3.78				40.20	45 IAU	+0.63 235
33254								0.62	1	2.78				40.20	45 IAU	+0.64 235
33256	68	ER1 F5V	5.11	3.5	0.44	-0.05		0.82	1	4.18				41.5	SUN	-0.60 61
33579		A31A-0(E)	9.5 *		0.18		**	0.65	2	40.20					SUN	-0.31 103
33579								0.70	2	0.98	0.0				SUN	-0.2 129
33579								0.62	3	0.7	40.25				SUN	-0.17 185
34255		[GK4]	5.67 *		1.75	2.00 **	2.48 *	1.68	5		-2.05				SUN	-0.23 126
34334	16	A0K A3111	4.54 *		1.27	1.27	2.02 *	1.22	1	2.1				41.6	SUN	-0.39 151
34411	15LAM	A0K G0V	4.74 *	3.84	0.62	0.13	0.57	0.85	4						SUN	+0.22 3
34411								0.97	3						SUN	+0.14 29
34411								0.86	1	4.11				41.5	SUN	+0.35 61
34411								0.85	4						SUN	+0.07 85
34452		B9F	5.38		-0.19	-0.60 **		0.28	1	4.2				48	SOLAK SYSTEM	+1.7 157
34816	6LAM	LP 80.51V	4.28		-0.25	-1.01	0.40	0.16	1	4.05				44.5	SUN	+1.0 105
35620	24PHI	A0K K3P	5.07		1.40	1.66 **	2.06 *	1.20	1	1.0				45.7	SUN	-0.42 41
35620								1.22	1	1.90					EPS VIR	-0.11 99
35620								1.12	1	2.00				40.10	GAM/DELEPS TAU, EPS, VIR	-0.4 138
35620								1.20	1	1.50				40.11	SUN	-0.09 224
36916		[B6111P]	6.73 *		-0.10	-0.58 **		0.55	1	3.8	42.4				GAM GLK	+0.70 149
37043	101	0K1 B2					0.47	0.26	1	4.0				44	HR 35912 Add B	+0.1 143
37058		R30P	7.34 *		-0.16	-0.75 **		0.26	1	3.5	42.40				SUN	+0.80 81

TABLE II (CONTINUED)

HR	NAME	SPECT. TYP	VM	B-V	U-B	1-X	Θ	l	b	l ₀	b ₀	FE	[ξ]	Σ	STANDARD	[Fe/H]REF
57160	40PH 2UR1	G8111-1V	4.09	0.75	0.66	1.59 *	1.09 1								SUN	-0.30 21
57160							1.25 2	2.57	-0.70						IOT KAP GEMERS VIR, ETA HER	0.18 25
57160							0.76 1		+0.66						SUN	0.73 43
57160															SUN	+1.40 184
57762	6AM RE# K4111		5.18	1.15	1.18		1.00 1	5.30							SUN	+0.40 152
58375	1.66AM LEP F-G+K2V		5.00	0.47	0.01	0.76 *	0.89 2								SUN	-0.07 19
58751	1.52 1AU G8111		4.87	1.01	0.79 **	1.68 **	1.27 2	2.36	-0.60						6AM 1AU	-0.11 43
59003	32NU AUK K0111		5.77	1.14	1.09	1.72 *	1.09 1	2.15							SUN	-0.10 151
39091	P1 RE# G31V		5.64	0.60	0.11		0.89 1	5.74							SUN	0.00 208
59364	15HEL LEP G8111		5.77	0.98	0.71	1.55 *	1.15 1								IOT KAP GEMERS VIR, ETA HER	-0.36 25
59587	54CHI 1UK1 60V		4.41	0.59	0.08	1.04 *	0.87 2								SUN	+0.25 19
59587							0.84 1	4.44							SUN	-0.12 86
59855		K3+111-	5.66	1.53	1.84	2.38 *									SUN	0.00 21
39666	A21E		6.39	0.40	0.26 **		0.5 1	1.95	+1.44						ALF C76	+0.01 172
40183	34BE1 AUK A2V		1.90	0.03	0.05		0.57 1	5.7							NORMAL A *	0.00 176
40183	S						0.57 1	5.7							NORMAL A *	-0.03 178
40932	61NU UK1 AM		4.12	0.16	0.11	-0.27	0.89 3								UM1 PE6	+0.76 190
41312		[GK3]	5.05	1.34			1.26 1	0.70							SUN	-0.60 152
41357	40 AUK [AM]		5.27	0.23	0.11 **		0.63 1								SUN	+0.55 154
41357	S						0.60 1								SUN	+0.80 154
43039	44KAP AUK G8111		4.34	1.01	0.81	1.60 *	1.25 2	2.74	-0.72						6AM 1AU	-0.42 43
43039							1.01 1	2.8							GAM, DELEPS TAU, EPS, VIR	0.00 138
44033		K31E	5.81	1.59	1.74 **	2.52 *	1.53 3								10.0 SUN	-0.07 126
44537	46PS1 1AUK NS1AR		5.02	1.77	2.2 **	2.55 *	1.65 3								10.7 SUN	+0.06 126
44691	KR LYM AM		5.64	0.24	0.12		0.62 1	4.0							HK 11+706+2085+4825	+0.35 123
45348	ALP CAK F01B		-0.73	0.15	-0.15	0.12	0.73 2								SUN	-0.15 103
45829		K01AR	6.63 *	1.58	1.67 **		1.53 3								SUN	-0.16 126
46300	13 MON A01B		4.48	0.00	-0.17		0.63 2								SUN	-0.3 115
46A07		[KOP]	6.26	1.11	0.78		1.20 2								KAP GEM THE GEN+ALF 1NU	-0.04 15
47105	24GAM GEM A01V		1.93	0.00	0.05	-0.03	0.99 2								SUN	+0.08 16
47105							0.53 1	5.7							MURMAL A *	-0.05 65
47105							0.47 1	4.0							UM1 PE6	+0.05 190

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP.	VR	B-V	U-B	I-X	θ	l	lb	b	lb	pe	[V-E]	[V]	Σ	STANDARD	[I-E/H]	REF	
47152	53 AUR AUP		5.51	-0.01	-0.07	**	0.50	1	4.0					0.00	EYA	LED,ALF	LTR	40.4	134
48329	27EFS 6EM 681B		2.98	1.40	1.46	1.19	1.18	3				-1.95		48.7	SUN			-0.09	126
48329							1.10	1	1.00					43.5	SUN			-0.04	132
48682	56FS1 5AUR 60V		5.22	0.56	0.06	**	0.86	2					-0.04	40.00	SUN			40.15	19
48781	57FS1 6AUR K1111		5.15	1.11	1.04	**	1.06	1	2.5					43.4	SUN			-0.10	41
48915	5ALF 6A A1V		-1.47	0.00	-0.06	**	0.46	1	3.5					45	SUN			40.4	94
48915							0.56	1	4.0					45	SUN			40.71	97
48915							0.52	1	4.5					42.0	SUN			40.87	107
48915							0.50	1	4.44					45.0	SUN			-0.56	109
48915							0.50	1	4.2					43.0	SUN			40.8	117
48915							0.49	1	4.50					45.0	SUN			40.82	122
48915							0.54	1	4.5					42.0	SUN			40.70	141
48915							0.52	1	4.5					42.0	SUN			40.81	159
50778	1A1HE 6A K3+111		4.06	1.43	1.69	2.14	1.33	1	1.9					41.9	SUN			-0.22	151
52005	41 6EM [K4]		5.62	1.62	1.86	**	2.43	3	1.60	3		-2.20		48.5	SUN			-0.29	126
52711	681V		5.85	0.59	0.07	**	0.86	1	4.47					40.8	SUN			-0.15	61
53244	236AM 6A 8B11		4.10	-0.11	-0.48	0.11								41.51	UM1	PEG		-0.24	190
54605	25 DEL 6A F81A		1.84	0.67	0.54	0.58	0.79	2	40.56					12	SUN			40.01	153
55575	80V		5.58	0.58	0.03		0.85	4						40.4	SUN			-0.21	3
55575							0.87	1	3.98				-0.09	-0.04	SUN			-0.44	61
58207	60101 6EM 69111+		3.80	1.04	0.84	1.57	1.14	1						45	SUN			40.16	25
58343	83V		5.33	-0.05	-0.60	**	0.25	1	5.75					45	SUN			40.89	106
60178	66ALF 6EM A1V		2.85	2.04	0.04	0.02	0.57	1	4.25					45.0	ALF	LTR		40.45	124
60179	66ALF 6EM AM		1.99	1.14	0.03	0.01	0.49	1	4.0					45.0	ALF	LTR		40.98	124
61421	10ALF 6M1 F51V-0		0.34	2.64	0.42	0.03	0.80	4						45.0	SUN			-0.29	48
61421							0.76	4						40.85	SUN			40.03	64
61421							0.77	1						40.37	SUN			40.07	75
61421							0.86	2	3.7					42.7	SUN			0.00	84
61421							0.79	1	40.76					40.22	SUN			40.22	156
62345	77K4P 6EM 68111		3.57	0.92	0.70	1.38	1.29	3						44.1	SUN			-0.4	167
62345							1.14	1						40.00	SUN			0.00	15
62509	788E1 6EM 80111		1.15	1.00	0.86	0.98	1.25	3						44.1	SUN			-0.20	25
62644	651V		5.05	3.8	0.78		0.98	1	3.12					41.5	SUN			-0.55	86
63077	90V		5.36	4.56	0.58		0.90	2	4.3					40.6	SUN			-0.98	32
63077							0.95	4						41.5	SUN			-0.8	71
63077							0.89	1	3.70					41.5	SUN			-0.82	86
63077							0.87	1	4.15					40.7	SUN			40.90	191
63077							0.89	1	4.12					41.5	SUN			-0.70	208

TABLE II (CONTINUED)

HR	NAME	SPECT. TYPE	UM	RV	B-V	U-B	1-X	B	log b	log t _e [yr]	Σσ	STARBUKII	[Fe/H] REF
64491		[G3IV]	6.14		0.28 -0.02 **		0.73 ±		+1.6		+0.7	KRU BELM	+0.2 32
67456		AM	5.57		0.10		0.65 ±		+1.00		+5.7	SUN	-0.06 114
67523	55RHU	PUP F0II	2.88		0.43 0.17		0.73 *	0.83 ± 2.5	+0.4			SUN	+0.13 156
69897	18CH1	CNC F4V	5.13	4.1	0.47 -0.06		0.82 ±	1.4 ± 6			+1.5	SUN	-0.52 61
71369	10M1	UMH G4II-III	3.36		0.85 0.52		0.97 ±	2.50			+0.83	SUN	-0.02 152
72324	52UPS	ZUNC G9III	6.36		1.02 0.88		2.14 *	1.1 ± 1				IOT KAP GEM, EPS VIR, ETA HER	+0.32 25
72902	3P1	UMH G0V	5.64	4.67	0.62 0.37		0.87 ±	1.4 ± 0			+1.5	SUN	-0.27 61
72968	3	HYA [G2F]	5.72		-0.03 -0.01		0.45 ±	1.4 ± 0				SUN	+1.6 163
73665	59	CNC [G9III]	6.39		0.78 0.83		1.01 ±		+0.08 +0.07			6AR TAU	-0.04 12
73666		AlV	6.61 *		0.01 0.02 **		0.53 ±	1.4 ± 0			+4.0	SUN	+0.64 65
73666							0.52 ±	1.4 ± 0		+0.05		SUN	+0.1 70
73666												HD 28344	-0.5 223
73710		K0III	6.44 *		1.02 0.70 **		1.03 ±		+0.09 -0.02			6AR TAU	-0.17 12
74521	AY	CNC AUF	5.66		-0.11 -0.24 **		0.89 ±				+3.02	UM1 PEB	+0.65 190
75333	14	HYA [G9F]	5.31		-0.10 -0.35						+1.51	UM1 PEB	-0.27 190
75732	55RHU	1UNC [G8V]	5.74	5.3	0.86 0.64 **		1.13 ±		+1.65		+5.3	SUN	-0.15 126
75732							0.97 ±	1.4 ± 5				SUN	+0.24 150
75732							0.97 ±	1.4 ± 4			+1.7	SUN	+0.11 151
76294	162L1	HYA K0III	3.12		1.00 0.82		1.13 ±		+0.05		+3.6	SUN	-0.12 126
78209	15	UMH AM	4.46 *		0.27 0.12		0.71 ±	1.4 ± 20			+5.0	SUN	+0.24 91
78316	76KAP	CNC B8IIIF	5.24 *		-0.11 -0.43 **		0.56 ±	3.6			+0	SUN	+0.39 202
78316							0.55 ±	3.5			+1.58	UM1 PEB	-0.25 190
78362	14TAU	UMH AM	4.65		0.35 0.15 **		0.67 ±	1.4 ± 0	0.0		+6.5	HR 114, 706, 2085, 4824	+0.52 125
78362							0.86 ±	2.4 ± 0	+0.12		+3.8	SUN	-0.07 156
78362							0.86 ±	2.4 ± 0				SUN	+0.16 230
79452		66III	5.97		0.86 0.37		1.21 ±	2.20 -0.88			+1.89	6AR TAU	-0.85 43
79469	52THE	HYA B9.5V	3.88		-0.07 -0.12		0.45 ±	1.4 ± 2	+2.7		+2.1	ALF LYR	+0.4 174
82210	24	UMH G4III-IV	4.58	2.9	0.77 0.33		1.31 *	0.95 ± 3.58			+1.5	SUN	-0.38 61
82328	25THE	UMH F6III-IV	3.18	2.0	0.46 0.03		0.80 ±	4.0 ± 0.6	+0.36			SUN	-0.03 75
82328							0.87 ±	3.5 ± 0.6	-0.09 +0.10			SUN	+0.01 156
82885	11	LMI G8IV-V	5.41	5.60	0.77 0.44		0.92 ±	1.4 ± 1			+1.5	SUN	0.00 61

TABLE II (CONTINUED)

HD	NAME	SPECT. TYPE	VR	RV	B-V	U-B	1-K	B	I	Lo B	Lo R	[Fe]	[Y]	Z _⊙	STANDARD	[r- b]MET
83548		[A0]	5.49		1.00	0.67		0.22	2	-0.29				+4.57	THE LEM-AL JMD	+0.14
83548								0.99	1	-0.16				+2.77	ALF B00	+0.17
84441	17EPS	LEG B011	2.96 *		0.81	0.46	1.19 *	0.79	1	2.4				+2.6	SUN	-0.13
84737		B2V	5.11 *	4.20	0.62	0.08	0.51	0.86	1	4.27				+1.2	SUN	-0.04
85503	24RU	LEG K2111	5.90 *		1.22	1.40	1.73 *	1.13	1	2.00			+0.06		EPS VIK	-0.08
85503								1.06	1	2.7				0	GAM DELEPS TAU EPS VIR	+0.1
85503								1.13	1	2.4				+1.2	SUN	+0.1
85503								1.14	1	2.5				+1.3	SUN	+0.03
85503								1.14	1	2.5				+2.0	SUN	-0.11
85504		SEX A1V	6.02		-0.04	-0.09		0.50	1					+0.15	ALF CMA	+0.20
86726	20	LMI 04V	5.36	4.3	0.66	0.28		0.84	4					+0.51	SUN	+0.44
86726								0.84	2					+0.53	SUN	+0.34
86726								0.88	1	4.12				+1.3	SUN	-0.08
86766		A1V	7.99 *		0.12	0.16	**	0.66	1	2.5	+1.20				HR 16181/	-0.1
86766															HR 16181/	-0.31
87371	30ETA	LEG A01F	3.48		-0.04	-0.21	-0.01	0.62	2	+0.4				+4.6	SUN	-0.3
87737								0.49	2	2.05	+1.51			+2.25	SUN	+0.10
88218		[0V]	6.12	4.5	0.60	0.16		0.91	1	5.56				+1.5	SUN	-0.42
88264	410AM	HYA K0111	3.62		1.00	0.72	1.46 *	1.21	2	2.57	-0.57			+1.95	HRM 16U	+0.05
88264								1.01	1	2.7				**	GAM DELEPS TAU EPS VIR	+0.2
89125	39	LEG [04V]	5.82	4.7	0.50	-0.05	0.65	0.84	1	4.51				+1.5	SUN	-0.19
89286		K5111	3.44		1.55	1.70	**	1.24	1						ALF B00	+0.3
89464	410AM	1LE0 K0111	2.61		1.15	1.00	1.19	1.20	1						LOT KAP GEM EPS VIR	+0.10
89464								1.17	1	A					ETA HER	-0.22
89464								1.32	2	1.79	-1.04			+1.91	HRM 16U	-0.49
89465	410AM	2LE0 G7111+	3.80		0.91	0.65	**	1.09	1						LOT KAP GEM EPS VIR	-0.26
89465								1.24	2	2.14	-0.86			+1.93	HRM 16U	-0.71
89822	P	A0F	4.93		-0.07	-0.15	0.02	0.87	A					0.0	ALF LTK	+0.28
89822	S							0.91	A					+2.44	ALF LTK	+0.51
90277	30	LMI F0V	4.73		0.25	0.18	-0.40	0.75	2					+6.03	MURRAL *	+0.20
90508		G1V	6.44	5.0	0.60	0.05		0.85	A						SUN	-0.23
90508								0.88	A						SUN	-0.23
90537	31BET	LMI 88111-IV	4.20		0.90	0.65	1.53 *	0.99	1	3.0				-0.05	EPS VIK	+0.21
90839	36	UMA F0V	4.82	4.44	0.52	-0.01	-0.76	0.83	1	4.41				+1.5	SUN	-0.23
91324		[F0V]	4.88	5.5	0.50			0.83	1	4.70				+1.7	SUN	-0.60

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	V _R	B-V	U-B	l-x	θ	l ₀ b ₀	l ₀ b ₁	l ₀ b ₂	[Fe]	Σ _σ	STANDARD	[1-σ]/REF
92626		[K2F]	7.08 *	1.36	**	0.78 2	-0.44					44.27	THE CENTRAL IND	40.08 16
94247	44	UMA K3111	5.20	1.36	1.51 **	2.05 *	1.21 1	2.30				41.54	SUN	0.00 152
94264	46	LMI K0111-1V	3.82	1.05	0.91 **	1.58 *	1.07 1	2.5			0.00	42.5	SUN	-0.16 41
94264						1.06 1	3.0					41.65	EPS VIK	-0.28 139
95128	47	UMA 60V	5.06	0.61	0.13	0.86 1	4.31					41.5	SUN	-0.02 62
95272	/ALF	CK1 K0111	4.08	1.09	0.98	1.51 *	1.25 2	2.48	40.54			41.93	BAH TAU	-0.12 43
95418	488E1	UMA 41V	2.36	-0.02	0.00	0.21 *	0.47 1	4.30				45.0	SUN	40.78 122
95689	504L1	UMA K011-111+7V	1.79	1.07	0.92	1.05	1.14 4					41.89	BAH TAU	-0.19 34
95689						1.27 2	2.03	-0.71				45	F *	-0.23 43
96446		82111F	6.68 *	-0.16	-0.87 **	0.20 1	4.20					41.95	BAH TAU	-0.6 203
96833	52FS1	UMA K1111	3.01	1.14	1.12	1.63 *	1.23 2	-1.01				42.94	SUN	-0.39 49
97633	70THE	LEO 62V	3.31	-0.02	0.08	0.03	0.52 1	3.5				44.0	ALF LYR	40.58 124
97633						0.63 2						40.4	SUN	40.4 133
97907	73	LEO K3111	5.34	1.20	1.10 **	1.95 *	1.32 2	2.07	-0.65					-0.17 43
98230	53X1	UMA 60V	4.87	0.59	0.03 **	1.12 *	0.86 2				-0.10	40.08	SUN	-0.12 19
98231	53X1	UMA 60V	4.41	4.90		1.12 *	0.86 2				40.12	-0.06	SUN	-0.01 19
98262	54NU	UMA K3111	3.48	1.39	1.53 **	2.02 *	1.24 1	2.1				41.9	SUN	-0.19 151
10006	86	LEO[K0]	5.58			1.94 *	1.06 1	3.00				41.71	SUN	40.02 152
10103		[K0]	5.92	1.07	0.76 **	1.17 2					42.27		ALF BOU	40.48 47
10103						1.19 3					-0.50		SUN	-0.33 126
101065		[F5]	6.01 *	0.78		0.80 3					42.64		SUN	40.8 200
101501	61	UMA 68V	5.35	5.55	0.74	0.92 1	4.60					41.5	SUN	-0.14 61
101501					0.23	1.04 3		40.90				45.0	SUN	-0.40 126
102224	63CH1	UMA K0111	3.72	1.18	1.16	1.78 *	1.26 2	-0.89				42.94	SUN	-0.65 49
102365		65V	4.90	4.85	0.66	0.93 1	4.08				-0.39	41.5	SUN	-0.48 86
102634		[F8]	6.15	0.52	0.08	0.63 1	4.3					42.0	SUN	40.14 50
102870	58ET	VIR F8V	3.61	3.60	0.55	0.90 *	0.84 4				-0.02	40.05	SUN	40.33 3
102870					0.11	0.82 1	4.29					43	SUN	40.26 59
102870						0.83 1	4.12					41.3	SUN	40.28 61
102870						0.83 4		40.41			-0.04	40.10	SUN	40.15 75
102870						0.83 4							SUN	40.19 85
103095	88W	1630	6.45	6.71	0.75	0.96	1.12 2				-1.41		SUN	-1.50 35
103095					0.17	0.97 4					-0.38		SUN	-1.0 96

TABLE II (CONTINUED)

HD	NAME	SPECT. TYPE	VM	RV	B-V	U-B	1-X	D	LB	LB PE	[V]	Σ ₄	STANDARD	[L-E/R]	REF
103576	YS	LEU AOV	5.47		0.11	0.11**		0.57	1.50				SUN	-0.01	11
103877		[AV]	7.2 *					0.70	4		+0.42	+0.41	SUN	+0.66	35
103877		[AV]						0.68	4.0				HR 114,906, 2085, 4825	+0.41	125
104304		[NUV]	5.55	5.06	0.76	0.43		0.92	4.24		-0.12		SUN	+0.18	86
104779	YUM1	VJK 08111	4.11		0.99	0.84	1.83 *	1.05	3.0				EPS VJK	-0.6	186
105462	14LF	OKV F2V	4.03	3.1	0.52	-0.02	0.46	0.75	4.20				SUN	-0.60	191
105590		[AV]	6.54 *		0.84			0.89	3.90				HD 136202	-0.04	90
106304		[BV]	9.07 *		0.03	-0.05 **		0.55	2	+2.40			ALF LTK	-0.8	201
106516		F5V	6.11		0.45	-0.14		0.87	4	+0.24	-0.15		SUN	+0.05	3
106516								0.92	4	-0.72	-0.15		SUN	-0.86	3
106516								0.85	4.5				SUN	-0.40	50
107168	8	COM AM	6.27		0.17	0.14	-0.15	0.56	4.0	+1.12			HR 114,906, 2085, 4825	+0.83	123
107168								0.74	2				SUN	+0.8	230
107328	16	VJK K1111	4.95		1.16	1.15	0.73 *	1.32	2.72	-1.16			6AM TAU	-0.72	43
107328								1.14	2.4		-0.03		EPS VJK	-0.11	139
108381	1566R	COM K1111+1V	4.37		1.13	1.15	1.62 *	1.06	2.8		+0.07		EPS VJK	-0.20	139
108486		AM	6.76 *		0.16	0.10 **		0.59	4.0				HR 114,906, 2085, 4825	+0.39	123
108642		[AV]	6.54		0.18	0.11 **		0.60	4.0				HR 114,906, 2085, 4825	+0.50	123
108651		AUF	3.65		0.22	0.08 **		0.60	4.0				HR 114,906, 2085, 4825	+0.61	123
108662	17	COM AUF	5.29		-0.05	-0.12 **		0.43	4.0				U PEG	-0.11	190
109307	22	COM AAV	6.29		0.11	0.09	-0.12	0.56	4.0				HR 114,906, 2085, 4825	+0.53	123
109356	38E1	LWN 90V	4.29	4.46	0.57	0.05	1.16 *	0.88	2	-0.08	+0.03		SUN	+0.02	19
109356								0.86	4	+0.30	+0.19		SUN	+0.08	62
109356								0.85	4	+0.47			SUN	-0.23	75
109510	24	COM K2111+1V	6.72		0.25	0.11 **		0.64	1				SUN	+0.54	154
109510	S							0.64	1	+1.02	+0.25		SUN	+0.42	154
109995		AOV	7.62 *		0.04	0.11 **		0.64	2.8	+1.57			ALF LTK	-1.12	36
109995								0.64	2.8	+1.57			ALF OMA	-1.26	36
109995								0.63	2.8				HD 161817	-0.3	69
109995								0.63	2.8				HD 161817	-0.12	72
110897	10	LWN 60V	5.96	4.7	0.55	-0.03		0.87	4	-0.15	-0.10		SUN	-0.52	3
110897								0.87	4				SUN	-0.30	61
110897								0.89	4				SUN	-0.47	85
111133		AAF	6.35		-0.05	-0.08		0.52	1.5				U PEG	+1.11	118

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	VM	RV	B-V	U-B	1-X	D	l	l ₀	b	l ₀	b	l ₀	b	[Fe]	[α]	Σ *	STANDARD	[Fe/H] REF
112033	35	COM 68111+6	4.87		0.90	0.66 **	1.59 *	1.19	2	2.71		-0.28						+1.88	BAR TAU	0.00 43
112127		K1111	6.92 *		1.27	1.42 **		1.10	1	2.3								+2.4	SUN	-0.09 151
112969	37	COM K1P	4.90		1.17	1.05 **	1.92 *	1.21	2			-0.78						+3.08	SUN	-0.44 49
113226	47EFS	VIR 68111	2.81		0.94	0.74	0.95	1.02	1	2.7									SUN	+0.01 4
113226								1.0	2										C-10+E TAU	-0.15 6
113226								1.14	1										SUN	+0.04 25
113226								1.02	1	2.7									SUN	-0.03 41
113226								1.19	2	2.45		-0.46							BAR TAU	-0.15 43
113226								1.02	1	2.70									SUN	+0.02 99
113226								1.01	1	2.85									SUN	+0.04 152
113226								1.01	1	3.00									SUN	-0.1 188
113226								1.01	1	2.7									SUN	0.00 220
113226								.021	2	7.0									SUN	-0.06 224
114330	511HE	VIR ALV	4.37		-0.01	0.01	-0.05	0.53	1	4.0									MURRAL A *	0.00 145
114710	438E1	COM 60V	4.28	4.66	0.58	0.08	0.77 *	0.83	4										SUN	+0.19 3
114710								0.87	2										SUN	+0.08 19
114710								0.84	2										SUN	+0.05 37
114710								0.85	1	4.47									SUN	+0.27 62
114710								0.84	4										SUN	+0.16 74
114710								0.83	4										SUN	+0.18 85
114762		F9V	7.31 *		0.54	-0.07 **		0.86	4										SUN	-0.59 3
115043		G1V	6.83 *	4.7	0.60	0.06 **		0.85	4										SUN	-0.14 3
115043								0.97	3										SUN	-0.06 29
115383	59	VIR 60VS	5.23	4.65	0.56	0.09		0.85	1	4.44									SUN	+0.10 62
115604	20	COM F011-111P	4.71		0.30	0.20	0.15	0.64	1	3.8									SUN	+0.32 225
115604								0.67	1	4.1									SUN	+0.44 226
116657	792E	UMM AM	3.95		0.13	0.09 **		0.57	1	4.0									HR 114+706,+2085,+4625	+0.24 123
116713		[K0]	5.25		1.21	1.02 **		0.96	2			-0.49							THE GEN, ALL IND	+0.08 16
116713								1.06	1			-0.57							ALF 800	+0.5 37
116713								1.03	1										ALF 800	+0.5 177
117176	70	VIR 65V	4.98	3.6	0.71	0.26		0.92	1	3.75									SUN	-0.11 62
119796		[681A-0]	6.41		1.04			1.03	1	0.00									SUN	+0.02 131
120136	41AU	800 F7V	4.51	3.5	0.46	0.04		0.78	1	4.3									SUN	+0.28 51
120709	3	CEM 85111	4.72		-0.13	-0.60	0.18	0.26	1	3.87									SOLAR SYSTEM	+0.67 161
120709								0.28	1	3.7									0	+0.53 162
120709								0.34	2			+2.27							BAR FEB	+0.63 192
121370	8ETA	800 601V	2.69	2.72	0.58	0.20	-0.58	0.85	1	3.8									EPS VIR	+0.53 139

TABLE II (CONTINUED)

HU	NAME	SPECT. TYPE	UK	MV	B-V	U-B	1-X	θ	LIB S/LB PE [Fe]	[Y]	Σ^+	STANDARD	[E/L] REF
122563		601V	6.20		0.90	0.38		1.18	-2.7	40.00	0	SUN	-2.65
122563							1.24	-4.0	-0.05			SUN	-2.9
122563							1.09					SUN	-2.7
122563							1.10					SUN	-2.72
122563							1.20	-5.0				SUN	-2.6
123139	5THE	CEN K0111	2.05	1.2	0.99	0.90	1.29	-0.32		-0.10	42.82	SUN	40.30
123139							1.06				41.23	EPS VIR	-0.19
123299	11ALP	DKA A0111	3.64		-0.05	-0.08	0.70			0	0	SUN	40.8
124425		F61V	5.93		0.47	0.02		41.25		41.4	41.4	110 HEK	41.01
124425								41.45				110 HEK	41.62
124448		R3F	10.00	*	-0.09	-0.80	**	0.31		10	10	R *	40.2
124448							0.30	42.43		47.0	47.0	SOLAR SYSTEM	41.01
124897	16ALP	R00 K211F	0.06	-0.24	1.23	1.28	1.33					SUN	-0.30
124897							1.32					SUN	-0.30
124897							1.18			41.8	41.8	SUN	-0.40
124897							1.18		0.00			SUN	-0.70
124897							1.73					SUN	-0.43
125162	19LAM	R00 AUF	4.18	*	0.08	0.05	0.05	0.60		41.6	41.6	ALF LTK	40.1
126661	22	R00 [B _v]	5.27					0.65				SUN	40.1
128167	28S16	R00 F2V	4.45	*	3.2	0.37	0.41	41.89		42.0	42.0	ALF UK1	-0.6
128167							0.74			42.9	42.9	SUN	-0.42
128279		[G _v]	8.0	*	0.64	**		0.92		40.6	40.6	SUN	-2.05
128620	A ALF	CEN 62V	0.33	4.35	0.60	**	0.87		-0.04	-0.01		SUN	40.22
128621	B ALF	CEN KOV	1.70	5.69	0.85	**	0.94		-0.16	-0.03		SUN	40.12
129174	29F1	1800 B9F	4.54		-0.04	-0.32	0.05	0.46		47	47	SUN	-0.29
129174							0.45	3.75		45.02	45.02	U PEG	-0.64
129174							0.40	3.5		41.9	41.9	COSMIC	-1.5
129312	31	R00 68111	4.85		1.00	0.76	**	1.21	-0.71			68K TAU	-0.28
129312							1.05	2.1		44	44	GAM, DELEPS TAU EPS, VIR	0.00
130952	11	L1B 68+111-	4.95		0.98	0.70	1.65	1.22	-0.52	-0.05	41.93	68K TAU	-0.49
130952							1.03	2.9			41.50	EPS VIR	40.05
131156	37X1	R00 68V	4.54	5.53	0.77	0.29	1.35	0.91		40.02	40.20	SUN	0.00
131156							0.92	4.4		42.3	42.3	SUN	-0.26
132345	18	L1B K3F111-10+08	6.02		1.32	1.49	**	1.15		42.3	42.3	SUN	-0.02
133485		B5F	8	*			0.27	4.3		45	45	SOLAR SYSTEM	41.9
133485							0.27	4.3				SOLAR SYSTEM	41.4

TABLE II (CONTINUED)

HD	NAME	SPECT. TYPE	VM	RV	B-V	U-B	I-X	θ	$\log B$	$\log Fe$	$\Sigma \sigma$	STANDARD	[Fe/H] REF	
135722	49BEL 800	G0V+68111	3.50	0.95	0.58 **	1.57 *	1.23 2 2.32	-0.56			+1.86 +0.5	66M TAU GAM DEL. EPS TAU, EPS VIR	-0.57 43 -0.4 138	
135722							1.01 1 2.4				+1.5	SUN	-0.03 61	
136064		F8V	5.14	3.6	0.53	0.98	0.84 1 4.06				+1.5	SUN	-0.06 62 -0.17 75 0.00 70	
136202	5	SEK F8111-IV	5.06	0.54	0.06 **		0.83 1 3.85 0.83 4	+0.58 -0.07	0.00		+1.5	SUN SUN SUN		
136202							0.84 1 3.90				+1.8	SUN		
136352			5.62	4.70	0.65		0.82 1 3.92 0.82 1 4.15	-0.45			+1.1	SUN	-0.52 86 -0.46 208	
136352	HU 2LUP 62V						0.84 1 4.15				+1.3	SUN		
136512	10M1 CR8	K0111	5.51	1.02	0.77	1.84 *	1.23 2 2.64	-0.56			+1.91	66M TAU	-0.32 43	
137759	1210T 06A	K2111	3.26	1.16	1.23	1.84 *	1.11 1 2.60				+1.4	EPS VIR	+0.30 140	
137909	38ET CR8	F0P	3.66	0.29	0.11	0.15	0.65 2 4.5 0.64 2	+1.70			+4	SUN	+0.70 24 +1.01 228	
137909							0.64 2				+5.0	2 HYA		
138716	37	L1B K1111	4.62	1.01	0.85	1.59 *	1.06 1 3.2				+1.85	EPS VIR	-0.14 139	
138905	3866M	L1B G8111-IV	3.90	1.02	0.74	1.54 *	1.08 1 2.9				+1.24	EPS VIR	-0.49 139	
139195	16	SEK K0P	5.26	0.95	0.06 **		1.18 2 2.70 1.23 3	-0.29			+2.0	66M TAU	-0.06 43 -0.19 126	
139195							1.23 3				+4.2	SUN		
139669	157HE	UM1 K5111	5.14	1.58	1.69 **	2.35 *	1.38 1 1.7				+1.9	SUN	+0.20 151	
140232	22TAU 75EK	[48V]	5.72				0.65 1 4.44				+5.6	SUN	+0.52 88	
140283		F3VI	7.22 *	0.49	-0.20 **						-0.25	SUN	-2.00 3 -2.48 7	
140283							0.85 1 4.6 0.80 1 4.80	-0.6				SUN	-1.04 11	
140283							0.94 2				-0.25	SUN	-2.03 38	
140283							0.92 1 3.3				2-3	SUN	-1.69 58	
140573	24ALF	SEK K2111	2.65	1.1	1.17	1.25	1.14 4 1.09 4					SUN	+0.08 34 +0.20 60	
140573							1.11 1 2.5				+1.8	SUN	+0.23 151	
140573							1.26 1				+3	ALF 800	+0.25 231	
141004	27LAM	SEK G0V	4.43	4.30	0.60	0.10	0.89 2	-0.10 +0.05				SUN	-0.04 19	
141004							0.85 4	+0.29				SUN	+0.15 75	
141004							0.85 1 3.94	-0.07			+1.3	SUN	-0.02 86	
141556	5CHI	LUP 89IV	3.94	-0.04	-0.14	0.09	0.45 1 3.1					SUN	+0.62 94	
141714	10BEL	CR8 G5111-IV	4.62	0.80	0.37	1.37 *	0.76 1 3.1				-0.10	+1.20	EPS VIR	-0.04 139
142198	46THE	L1B K0111-IV	4.14	1.01	0.82	1.60 *	1.06 1 2.9				+0.02	+1.96	EPS VIR	-0.24 139
142267	39	SEK G2V	6.10	0.60	0.00		0.87 4	-0.19			+0.02	SUN	-0.28 3	
142373	1CHI	HER F9V	4.60	3.35	0.57	0.00	0.91 2	-0.41			+0.02	SUN	-0.40 19	
142373							0.87 1 3.95				+1.3	SUN	-0.29 61	
142373							0.85 4	+0.56			+0.09	SUN	-0.35 75	

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	VN	MV	B-V	U-B	I-X	θ	ILUS 6	ILUS PL	[y]	Σ^+	STANDARDU	[I-E]REF
142860	4168A	SER F6V	3.85	3.4	0.48	-0.03	0.95 *	0.79 1	4.0			0.9-6.5	SUN	-0.40 8
142860							0.82 1	4.0				+2	SUN	-0.07 55
142860							0.82 4		+0.45	0.00	+0.18		SUN	-0.11 75
143761	15KH0	CR8 62V	5.40	4.1	0.60	0.09	0.89 4			-0.25	-0.05	+1.3	SUN	-0.20 3
143761							0.87 1	3.98					SUN	-0.17 62
143761							0.86 4						SUN	-0.14 85
143807	1410T	CR8 40P	5.02		-0.07	-0.20	0.46 1	3.7				+2.5	SOLAR SYSTEM	+0.17 93
143807							0.40 1	3.6					SUN	+0.8 94
143807							0.42 1	3.75				+5.02	U PL8	-0.18 190
144206	60PS	HEK 89F	4.75		-0.11	-0.32	0.50 1	3.5					SUN	+0.35 94
144941			10.11 *		0.05	-0.71 **	0.23 1	3.5				00	SUN	-0.1 204
144941							0.23 1	3.5				10	SUN	-0.8 204
145389	11PH1	HEK 89F	4.27		-0.07	-0.28	0.09	0.44 1	3.5			+2.5	SUN	+0.30 94
145675	14	HEK [K0V]	6.62 *		0.88	0.67 **	0.97 1	4.5				+1.4	SUN	+0.22 150
145675							0.97 1	4.4				+1.7	SUN	+0.18 151
146233	18	S00 [61V]	5.49	4.42	0.65	0.17	0.86 1	4.18		-0.05		+1.3	SUN	+0.02 86
146816		F8V+	7.27 *		0.54	-0.07 **	0.91 4			-0.49	-0.07		SUN	-0.54 3
146856	27	BET HEK 68111	2.83 *		0.93	0.67 **	1.20 2		+1.85				ALF 800	+0.18 47
146856							1.14 2		+2.39				ALF 800	+0.64 47
149436	23TAU	S00 80V	2.82		-0.25	-1.01	0.37	0.15 1	4.1				SUN	+0.8 105
149436							0.68	0.87 2		-0.20	+0.03		SUN	+0.8 119
150680	40ZE1	HEK 601V	2.82	2.97	0.65	0.21	0.89 1	3.8				+0.85	EPS V1R	+0.07 37
150997	44ETA	HEK 68111	3.50	1.8	0.92	0.61	1.44 *	1.11 1				-0.10	EPS V1R	-0.19 139
150997							1.01 1	3.1					SUN	0.00 25
151199		A5P	5.15 *		0.07	0.11	0.58 1		+2.1				SUN	-0.21 139
151680	26EPS	S00 K2111	2.28	1.1	1.16	1.16	1.46	1.12 1	2.5				EPS V1R	+0.01 82
152792		60V	6.82 *		0.64	0.08 **	0.90 4			-0.49	0.00		SUN	-0.30 139
152792							0.89 4						SUN	-0.45 3
153210	27NAP	0PH K2111	3.19		1.16	1.16	1.60 *	1.10 1	2.3				SUN	-0.31 85
153210							1.10 1	2.3					SUN	+0.07 217
153266		AM	6.88 *		0.33	0.20 **	0.67 1	3.5					SUN	-0.06 217
154733		K4111	5.55 *		1.30	1.52	2.02 *						SUN	+0.17 137
155646		F81V	6.44 *		0.50	0.03 **	0.82 1	4.00				+3.50	HD 136202	0.00 21
155646													HD 136202	+0.02 90

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	VN	MV	B-V	U-B	I-X	σ	ll	lg B	lg B	lg PE	[Fe]	(V)	Σ +	STANDARD	[Fe/H]REF
155885	36	OPH K1V	5.33		0.86	0.49	0.43	0.99	1	4.6			-0.03			SUN	-0.01 221
155886	36	OPH KOV	5.29					0.99	1	4.6			-0.03			SUN	+0.09 221
156026		K5V	6.32	7.66	1.15	1.03	**	1.17	1	4.7			+1.3			SUN	0.00 150
156026								1.11	1	4.7			+2.0			SUN	-0.13 216
156074		K1(GL2)	7.60	*	1.14	0.92	**	1.06	1	2.05						SUN	+0.8 178
157089		F9V	6.95	*	0.59	0.00	**	0.89	4				-0.49	0.00		SUN	-0.57 3
157089								0.91	4							SUN	-0.54 85
157214	72	HEK 60V	5.39	4.71	0.62	0.07		0.90	4				-0.34	-0.05		SUN	-0.36 3
157214								0.90	1	4.27						SUN	-0.58 81
157214								0.90	4							SUN	-0.34 85
157999	49S16	OPH K311	4.34		1.50	1.58	2.10	*	1.47	3		-1.20				SUN	+0.01 126
158614		681U-V	5.34	4.58	0.72	0.31		0.90	1	4.39			-0.02			SUN	+0.02 86
160691	MU	RAA 65V	5.12	4.9	0.70	-0.00		0.90	1	4.20						SUN	+0.41 208
160693		60V	8.37	*	0.60	0.00	**	0.91	4				-0.60	-0.10		SUN	-0.69 3
160762	85101	HEK 83V	3.80		-0.18	-0.69	**	0.26	1	3.5						SUN	+0.71 94
160762								0.28	1	4.0						SUN	-0.4 104
160762								0.25	1	3.75						SUN	0.00 106
161227		F011	8.5	*				0.67	1	3.5						HK 114+906+2065+482	-0.01 125
161797	86MU	HEK 651V	3.35	3.89	0.76	0.39	**	0.91	1	3.91						SUN	+0.16 81
161797								0.93	1	3.8			-0.15			EPS VIK	+0.13 139
161817		42V1	6.98	*	0.17	0.12	**	0.66	1	3.0		+1.7				SUN	-1.21 9
161817								0.55	4							ALF OMA	-1.28 36
161817								0.67	2			+1.40				SUN	-0.54 38
161817								0.66	1	3.0		+1.34				SUN	-1.6 69
161817								0.64	1				-0.47			ALF OMA	-0.98 141
162211	87	HEK K2111	5.17		1.16	1.11	**	1.03	1	2.80						SUN	+0.07 152
164136	94MU	HEK F211	4.41	*	0.39	0.15	0.55	0.74	1	3.40						SUN	-0.28 195
165195		[K3P]	7.35	*	1.1	0.68	**	1.22	1							SUN	-2.7 14
165341	70	OPH KOV	4.02	5.67	0.86	0.51	1.45	*	1.08	3		+1.45				SUN	-0.52 126
165341								0.95	1	4.5						SUN	0.00 150
165341								0.95	1	4.4						SUN	-0.12 151
165760	71	OPH 68111-1V	4.63		0.97	0.73	1.56	*	1.03	1	2.9		-0.02	+1.71		EPS VIK	-0.21 139
165908	99	HEK F7V	5.04	4.02	0.52	-0.10		0.88	4				-0.44	-0.05		SUN	-0.51 3
165908								0.87	2				-0.40	0.00		SUN	-0.45 27
165908								0.84	1	4.2						SUN	-0.39 54
165908								0.85	1	4.17						SUN	-0.42 82
165908								0.89	4							SUN	-0.53 85

TABLE II (CONTINUED)

HB	NAME	SPECT. TYP	VM	MV	B-V	U-B	1-X	θ	l	l ₀	b	l ₀	b	[Fe]	$\Sigma \sigma$	STANDARD	[Fe/H] REF
173780		K3111	4.84		1.20	1.22	1.92 *									SUN	0.00 21
173860	31	HER A3V	4.36		0.12	0.08	-0.10	0.59								ALF LYR	-0.19 198
174638	108E1	LYR E/V	3.43		0.00	-0.57	0.53 *	0.51 3				41.10				ALF CVG	40.1 212
174704		[F 2]	7.72 *					0.66 1 3.5								HR 114+Y0672085, 4825	40.67 125
174704								0.84 2								SUN	40.3 229
174933	12	HER B711-111	5.20		-0.08	-0.42 **		0.37 1 4.0								SUN	40.62 148
174933								0.50 1 4.2								SUN	40.50 148
174933								0.36 1 3.75								U FLG	40.85 190
175829	UM6	FAV K1111-1V	5.13		1.37			1.25 1 2.0								SUN	-0.58 208
176674		K3111	7.9 *					0.99 2								THE CEN+ALF IMU	40.25 16
176532	10	AHL A4F	5.90		0.25	0.08 **		0.62 1 4.0								SUN	40.2 142
176532								0.71 2 4.18				41.1 1				SUN	40.01 144
178717		MS ₁	7.47 *		-0.07	-0.42		1.00 2								THE CEN+ALF IMU	40.13 16
179761	21	AHL B6(F)	5.14		1.07	0.88 **		0.36 1 3.0								U FLG	-0.41 190
180262		6811-111	5.52		1.00	0.78	1.06	1.17 1								HER BEM EPS VIR	40.21 25
180711	87HEL	DM A G9111	3.07		1.00	0.78	1.06	1.02 1 3.00								SUN	40.09 132
180928		[A 2]	6.28		1.43	1.57	0.83	1.25 1 1.5								SUN	-0.60 222
181615	460PS	SBR AFE	4.61		0.10	-0.53	2.00 *	0.77 3								ALF CVG	0.00 212
182490	2	SBE A2111(*)	5.96		0.07	0.04 **		0.54 1								SUN	40.64 154
182490	S							0.54 1								SUN	40.97 154
182572	51	AHL B61V	5.17	4.0	0.78	0.42		0.89 1 4.26								SUN	40.50 86
182572								0.89 4								SUN	40.51 87
182572								0.92 1								SUN	40.42 120
182572								0.87 1 4.0								EPS VIR	40.40 139
182572								0.86 1 4.13								SUN	40.44 208
183915		[R 1]	9.0 *					0.96 2								THE CEN+ALF IMU	40.30 16
184406	38MU	AHL K3111	4.44		1.18	1.24	1.80 *	1.30 2 2.17								BAR TAU	40.24 43
184406								1.07 1 2.7								GAM/DELEPS TAU/EPS VIR	40.3 138
185144	61S16	DM A KUV	4.68		0.80	0.37	0.85	0.97 1 4.60								SUN	-0.23 62
185144								0.98 1 4.4								SUN	-0.25 151
185395	13HE	CVG F 4V	4.48	3.2	0.39	-0.02	-0.56	0.78 4								SUN	40.04 64
186657		[A 0]	6.35					1.09 2								SUN	-0.51 5
186408	16	CVG B2V	5.96	4.3	0.64	0.20	0.65	0.87 4								SUN	40.22 3
186408								0.87 4								SUN	40.20 85

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	VN	MV	R-V	U-B	I-X	θ	lg P _E	lg P _E	[Fe]	[Y]	ξ_+	STANDARD	[E/H] REF
186427		G5V	6.20	4.6	0.66	0.21	0.77	0.864			-0.04	+0.07		SUN	+0.11 3
186427								0.874						SUN	+0.07 85
186791	506AM	AUL K311	2.71		1.52	1.68	1.49							SUN	0.00 21
187923		G2V	5.78 *		0.53	0.21		0.894			-0.29	+0.07		SUN	0.00 3
187923								0.872			-0.16	+0.07		SUN	+0.12 31
188054	20	CV6 K3111	5.02		1.29	1.51 **	1.99 *	1.34 2 1.79	-1.04				41.99	BAR TAU	-0.14 43
188056								1.12 1 1.9					44.5	GAM, DELEPS TAU,	-0.1 138
188512	60RET	AUL G81V	3.71		0.86	0.49	1.34 *	0.98 1 3.6				+0.17	+0.82	EPS VIR	+0.18 139
188512								0.98 1	+0.43				+0.8	LFS VIR	-0.23 184
188650		[G]	5.63		0.75	**		0.65 1 2.9						HD 204867	-0.4 232
188947	ZIE1A	CV6 K0111	3.93		1.03	0.88	1.50 *							SUN	0.00 21
189567		G2V	6.06		0.64	0.08		0.88 1 4.08			-0.22		+0.9	SUN	-0.28 86
189849	15	VUL AM	4.65		0.18	0.16	-0.25	0.63 1 3.5			+1.12		43.8	SUN	-0.02 73
189849								0.74 2						SUN	+0.02 230
190229		B811-1111	5.50		-0.11	-0.49 **		0.57 1 3.7						SUN	+1.05 94
190248	DEL	FAU G51V-V	3.55	4.76	0.76	0.44 **		1.00 2	+0.57					SUN	-0.02 113
190248								0.88 4						SUN	+0.29 135
190248								0.90 1 4.31			+0.06		41.3	SUN	+0.43 208
190360		661V+HM6	5.70	4.3	0.72	0.38		0.90 1 4.07					41.3	SUN	+0.26 61
190404		K1V	7.28 *	5.9	0.82	0.39 **		1.10 3					43.2	SUN	-0.20 39
190404								0.97 1 4.50					41.9	SUN	-0.10 41
190404								1.03 1 4.5					41.25	SUN	-0.15 150
190404								1.03 1 4.5					41.1	SUN	-0.3 216
190404								0.97 1 4.50				40.04		SUN	-0.14 224
191046		G9111	7.03 *		1.15	1.03 **		1.17 1						LK GEM, VIR, H HER	-0.42 25
191408		K3V	5.32		0.87		0.49	1.03 1 4.6				-0.03		SUN	-0.07 221
192310		X0V	5.73	6.13	0.88	0.64	-1.16	1.01 1 4.5					41.5	SUN	-0.04 150
192310								1.03 1 4.5					41.6	SUN	-0.11 216
192640	29	CV6 G2V	4.99		0.12	-0.01	+0.27	0.63 1 3.9	41.5				44.0	ALI LYR	-0.5 174
192947		GALF 2CAP G9111	3.55		0.95	0.69	1.37 *	1.01 1 3.30					40.6	SUN	+0.14 152
193370	35	CV6 F51B	5.22		0.65	0.47	0.42	0.89 2	-0.45				45.5	SUN	0.00 229
193432	8MU	CAP G9V	4.75 *		-0.04	-0.11	0.05	0.49 1 3.75					42.75	SUN	-0.12 110
193432								0.48 1 3.75					42.75	SUN	-0.1 142
193664		G5V	5.94	5.07	0.58	0.06		0.84 1 4.64					40.7	SUN	+0.06 62

TABLE II (CONTINUED)

HH	NAME	SPECT. TYP	VM	RV	K-V	U-K	1-X	θ	11	16	LS	PE	[ξ]	[ξ]	STARBUCK	[L ₁]/[REP]
206512	72	CY6 K1111	4.91		1.08	1.00	1.62	* 1.27	2	2.27		+0.65		41.98	HRK 140	-0.14 43
206088	406AR	CAP FOP	3.66		0.32	0.21	0.63	* 0.75	1	4.0		+2.15		50 LPI		40.60 194
206088								0.67	1	2.56			4.9	6.7	SUN	-1.23 210
206546	P	RM	6.22		0.27			0.66	1			+0.75	+0.41	SUN		40.76 154
206546	S							0.60	1			+1.15	+0.28	SUN		40.90 154
206778	8EFS	PE6 KC21B	2.42		1.52	1.70	1.39	1.21	1	1.0				ALF RU0		40.37 68
206778								1.19	1	1.25				SUN		-0.03 112
206778								1.52	3			-2.55		SUN		-0.06 126
206778								1.19	1	1.10				SUN		-0.05 132
206778								1.22	1					ALF RU0		40.4 177
206859	Y	PE6 BS1B	4.35		1.18	0.96	1.63	* 1.04	1	1.75				SUN		40.02 132
206952	11	LEP K0111	4.57		1.10	1.09	1.69	* 1.08	1	2.5				SUN		40.05 151
207673		A21B	6.42	*	-0.07	-0.44	**	0.57	1	1.04		+1.25		ALF CY6		-0.16 172
207857		B8111P*	6.16	*	0.42	-0.12	**	0.38	1	3.8				SUN		40.67 94
207978	15	PE6 FSU	5.51	*	0.60	0.08	**	0.82	1	3.8			+0.03	SUN		-0.69 215
208776		80V	6.95	*	0.50	-0.11	**	0.85	1	4.0				RV 136502		-0.14 90
208906		F8V	6.96	*	0.23	0.15		0.86	1	4.0				RV 136502		-0.51 90
209625	32	AGR RM	5.32		0.97	0.77	0.84	0.99	1	1.45				HR 114.906+2085+4825		40.57 123
209760	34ALF	AGR BS21B	2.93		0.34	0.09		0.67	1	4.0				SUN		40.03 132
209791	17X1	LEP RM	4.29		0.44	-0.03		0.99	*	0.88	2			HR 114.906+2085+4825		40.32 125
210027	24101	PE6 FSU	3.76		0.43	0.24		0.53	1	1.50		+1.29		SUN		-0.10 19
210221		A31B	6.14		1.55	1.72	1.38	1.32	3			-2.55		ALF CY6		40.17 172
210745	21ZET	LEP K11B	3.36		0.99	0.80	1.43	* 1.02	1	2.8				SUN		-0.10 126
211391	43THE	AGR 68111-1V	4.16		0.43	-0.13		0.95	2			-0.58		EPS VR		-0.07 139
211594		[KOP]	9.23	*	0.65	-0.06		1.03	4					THE GEN+ALF 1ND		-0.02 16
211998	NU	1ND 80V	5.28	4.3	0.43	-0.06		1.03	4					SUN		-1.17 56
211998								1.01	4					SUN		-1.3 71
211998								0.97	1	3.77				SUN		-1.54 208
212061	48GAR	AGR RVU	3.84		-0.06	-0.13		0.48	1	4.0		+2.4		ALF LYK		40.3 174
213009	DEL 16RU	65	3.96		1.03	0.81	-1.34	1.15	1	0.90				SUN		-0.48 152
214539		89V	7.22	*	0.02	**	**	0.65	2			+0.25		ETA LEG+13 RUN		-1.2 115

TABLE II (CONTINUED)

HD	NAME	SPECT. TYP	VN	RV	R-V	U-B	l-X	θ	lLb PE	[γ]	ξ_+	STANDARDU	[Fe/H] REF
214714	BP		6.02				0.93	1.29				HD 204867	-0.4 232
214994	430M1 PEG A11V		4.79	0.01	-0.01	-0.02	0.50	1.40			43.00	SUN	40.04 127
214994							0.53	1.40			43	NORMAL A *	40.1 142
214994							0.45	1.40			42.40	SUN	40.2 145
214994													0.00 190
215104	NHO GRU [K2]		4.84	1.03	0.81	-1.41	1.20	1.00			41.00	SUN	-0.50 152
215648	46A1 PEG F7V		4.19	2.6	0.50	-0.02	0.99	0.89	-0.34	40.02		SUN	-0.05 19
216228	32101 CEP K0111		3.53	1.05	0.90	1.53	1.01	3.33				SUN	40.09 132
216388	49516 PEG F7V		5.16	0.48	-0.01	1.53	0.83	3.97			40.5	SUN	-0.62 61
216735	50RHO PEG A1V		4.89	0.00	0.00	-0.02	0.53	3.5	4.0		44.0	ALT LYR	40.1 174
216763	23HEL PSA K0		4.20	0.97	0.70	1.38	1.16	1.10			40.7	SUN	-0.56 152
217014	51 PEG G4V		5.53	4.82	0.67	0.20	0.83	4.27	-0.08		41.1	SUN	40.12 86
217906	53RET PEG M211-111		2.56	1.67	1.96	1.7	3	-5.0				SUN	-0.85 168
218470	5 AMB 68111		5.73	0.42	-0.01	**	0.81	3.80				SUN	-0.31 91
218658	33P1 CEP 62111		4.42	0.82	0.45	1.41	1.18	2.67	-0.56		41.86	DM TAU	-0.30 43
219134		K3V	5.57	6.41	1.00	0.89	0.94	1.15			44.4	SUN	0.00 39
219134							1.07	1.450			42.9	SUN	40.10 41
219134							1.08	1.45			41.5	SUN	0.00 150
219134							1.08	1.44			42.2	SUN	-0.21 151
219134							1.07	1.45			42.0	SUN	0.00 216
219134							1.07	1.450	40.18			SUN	-0.01 224
219615	60AM PSC 67111		3.69	0.91	0.57	1.49	1.12	1			47.59	DM TAU	-0.16 25
219615							0.49	3.75				ETA HER	-0.18 190
219617		F81V	8.16	0.47	-0.20	**	0.89	2	40.91			SUN	-1.40 3
219617												SUN	-1.40 38
219623	[F8]		5.59	0.54	0.02	**	0.83	1.407			41.0	SUN	-0.10 61
221146	K3111		6.25	1.08	1.14	1.07	1.26				41.5	SUN	40.07 151
221170	621V		7.67	1.09	0.62	**	1.23	1	-5.5	-0.10		SUN	-2.7 14
221345	14 AMB K0111		5.22	1.02	0.86	1.78	*					SUN	-0.20 21
222107	16LHM AMB 68111-1V		3.88	1.02	0.70	1.25	2.30	-0.9			41.88	DM TAU	-0.78 43
222368	17101 PSC F7V		4.13	3.39	0.51	0.00	0.84	3.96	40.63	40.18	40.8	SUN	-0.51 61
222368							0.82	4				SUN	40.09 75
222404	356AM CEP K11V		3.22	2.27	1.03	0.95	1.26	1.34	41.20		44.9	SUN	-0.04 126
222404							1.04	3.3	-0.06	41.49	EPS VIK		-0.21 139

TABLE III

REF	DISPERSION	INTERVAL	REF	DISPERSION	INTERVAL
1	9.1-17.8	4000-4900	73	4.8-18.1	3700-6800
3	15	5160-6270	74	8	5180-5880
4	1 - 2.8	4500-6700	75	6.8-10	3600-6800
5	4.5- 9		76	9	3250-4800
6	6.0- 6.7	5100-6700	77	8	
7	10 -20	3430-8750	78	2.2	4760-5150
8	4.6-20	3800-8700	79	4.5- 8	3400-6700
9	10 -15	3300-6700	80	2.5- 6.7	4200-6900
10	20	3640-4420	81	10.2	3700-4900
11	10 -20	4000-4800	82	18	
12	13.5-16	5000-6300	83	6.7	4100-4900
13	6.5	5700-6500	84	1 - 1.5	4000-7500
14	4.5-15.3		85	15	
15	10 -15		86	6.7-10.2	4460-6800
16	6.8-15.6		87	6.7-10.2	4468-6810
17	6.7-20.4	4300-8700	88	9.9	
18	6.7-13.5	4300-6800	89	9 -18	
19	4 -16		90	10 -15	3900-6700
20	2.7		91	7.2-12.4	
21	10.2	4100-4500	92	4.5	
22	4.5		93	2 -8	3400-6700
23	9 -10	3800-4800	94	2.2- 8	3200-6600
24	2.1- 4.2		95	2	3850-4700
25	2.8-10	4170-4440	96	2.8- 6.8	3800-6600
27	10	4350-4850	97	2 - 3.7	
28	15	5167-6277	98	2 - 7	
29	13.5-15		99	2.0-12.4	
30	7 -14		100	9.7-39	3900-6300
31	15		101	12.3	3700-4800
32	11 -15		102	4.5- 6.7	
33	8		103	10.2	3700-4924
34	1.7- 4.2	4000-5000	104	2 -8	3400-6650
36	4.4-16	3800-6600	105	1.0- 6.5	
37	2.8-20.4	4000-8700	106	1.0-15.6	3448-6678
38	4.5-10		107	0.8-10	3100-8863
39	9		108	6.5-17.8	
40	15	5167-6277	109	0.8-10	3100-8868
41	9.7-12.4		110	4.5-10.4	
42	9 -14		111	4.6-15	
43	6.6	5200-6300	112	6.5	4400-6650
44	4.5	4650-6250	113	2.5	5600-6800
45	6.7	4000-4900	114	10.2	3700-4900
46	10		115	10.2-20.4	
47	6.7	5200-6300	116	2.8-10	3150-6565
50	4.5-15	3900-4650	117	0.8-10	3100-8863
51	3.2-12	4340-6700	118	12.4	3600-5000
52	1 - 1.6	5000-7025	119	1	3995-4920
53	3.2-4	4340-6750	120	2.9-12.3	
54	3 -12		121	2.9-12.9	
55	10		122	2.2-17.5	3000-6830
56	6.7-13		123	8.9-17.8	
57	6.8	4680-6770	124	2.7-16	
58	10		125	8.0-17.8	
59	4.3-15	4200-6800	126	12	3900-4600
60	1.6	5640-6320	128	8	5200-6240
61	7		129	10.2	3650-5000
62	7		130	4.5	3700-4900
63	6.7-10.2	4300-4800	131	13.4	
64	2 -8	3100-3160	132	1.6- 6.5	5000-6650
65	4.8-18.1	3700-6800	133	1.3	3700-4860
66	8 -20		134	8	3700-4600
67	4.5-9		135	6.7-10	4200-6758
68	1.5	5600-6300	136	10	4118-4630
69	9 -15	3300-6700	137	12.4	
70	10		138	8	5200-6200
72	9		139	20	5200-6400

TABLE III (CONTINUED)

REF	DISPERSTION	INTERVAL	REF	DISPERSTION	INTERVAL
140	2.2	4720-5240	185	12.3	3390-4930
141	10 -15	3800-6500	186	20	5950-6650
142	4.5	4200-4635	187	3.6-11	
143	8		188	9.4	
144	2.3- 6.9	3300-6600	189	2.8-20	3400-8860
145	4.5- 6.7		190	10	3200-3520
146	2 -8	3300-6400	191	3.2-12.4	4390-6700
147	9		192	4.5-13.5	3600-8600
148	2		193	12	
149	9.7		194	9.7-12.3	3600-6600
150	6.4-16.3		196	20	3700-4800
151	6.4-16.3		197	4	
152	3.0-12.4	4400-6300	198	15	3700-4750
153	2.7		199	16	3230-4645
154	8 -10		200	10.2	5257-6764
155	20.4	3350-5900	201	10.2	
156	2.8	4000-4800	202	2 -8	3100-6460
157	13.5-27		203	12.3	3700-4750
158	15.5	3600-4800	204	12.4-20	3100-5000
159	0.8-10	3100-8863	206	7 -20	3170-7800
160	4.5-15		207	12.3-31.3	3500-6600
161	4.5-13.5	3120-8680	208	6.7-10.2	
162	2	3732-4659	209	2.2	3400-6600
163	3 -8	3921-4623	210	2.8- 5.7	3736-6000
164	13	5350-6300	211	0.3-20.5	3734-4800
166	9.5	3700-4400	213	10.2	3700-4950
168	4.0	4090-4515	214	2	4425-4580
169	4.4-15	3200-4900	215	7.4-12.4	4000-6250
170	4.8-18.1	3700-6800	216	10 -15	3600-6800
171	9		218	9 -20	
172	9.7-12.4		219	2 -8	3456-6000
173	1.6	4500-6500	221	12.4	
174	4.5-20		223	10.5-16	
175	13.5		225	3.9-20.7	3300-8800
176	3	3900-4500	226	6.8-10	4200-4950
177	1.5	5000-7000	227	10 -15	3300-7800
178	6.7	5000-5900	229	10	
179	2	3677-4756	230	2.8- 8.6	3799-6588
180	5.6	4070-4510	231	9.7-12.4	3900-6150
181	0.9- 1.7	3600-5000	232	4.4-15.3	3800-6800
182	15.6-29	3100-6700	233	4.5	3970-4660
183	2	4425-4580	234	9	3300-4950
184	9 -18	3497-4144	235	10 -15	3900-6800

REFERENCES TO THE CATALOGUE

- 1 HELFER, H.L., WALLERSTEIN, G. AND GREENSTEIN, J.L. 1959, *ASTROPHYS. J.* 129, 700.
- 2 PAGEL, B.E.J. 1965, *ROY. OBSERV. BULL.* 104.
- 3 WALLERSTEIN, G. 1961, *ASTROPHYS. J. SUPPL.* 6, 407.
- 4 CAYREL, G. AND CAYREL, R. 1963, *ASTROPHYS. J.* 137, 431.
- 5 PAGEL, B.E.J. 1964, *ROY. OBSERV. BULL.* 87.
- 6 HELFER, H.L. AND WALLERSTEIN, G. 1964, *ASTROPHYS. J. SUPPL.* 9, 81.
- 7 BASCHEK, B. 1959, *Z. ASTROPHYS.* 48, 95.
- 8 KEGEL, W.H. 1962, *Z. ASTROPHYS.* 55, 221.
- 9 KODAIRA, K. 1964, *Z. ASTROPHYS.* 59, 138.
- 10 BASCHEK, B. 1965, *Z. ASTROPHYS.* 61, 27.
- 11 CHAMBERLAIN, J. AND ALLER, L.H. 1951, *ASTROPHYS. J.* 114, 52.
- 12 WALLERSTEIN, G. AND CONTI, P.S. 1964, *ASTROPHYS. J.* 140, 858.
- 13 HAZELHURST, J. 1963, *OBSERVATORY* 83, 128.
- 14 WALLERSTEIN, G., GREENSTEIN, J.L., PARKER, R., HELFER, H.L. AND ALLER, L.H. 1963, *ASTROPHYS. J.* 137, 280.
- 15 BURBIDGE, E.M. AND BURBIDGE, G.R. 1957, *ASTROPHYS. J.* 126, 357.
- 16 WARNER, B. 1965, *MONTHLY NOTICES ROY. ASTRON. SOC.* 129, 263.
- 17 DANZIGER, I.J. 1965, *MONTHLY NOTICES ROY. ASTRON. SOC.* 131, 51.
- 18 WALLERSTEIN, G. AND GREENSTEIN, J.L. 1964, *ASTROPHYS. J.* 139, 1163.
- 19 HERBIG, G.H. 1965, *ASTROPHYS. J.* 141, 588.
- 20 RODGERS, A.W. AND BELL, K.A. 1963, *OBSERVATORY* 83, 79.
- 21 SCHWARZSCHILD, M., SCHWARZSCHILD, B., SEARLE, L. AND MELTZER, A. 1957, *ASTROPHYS. J.* 125, 123.
- 22 PAGEL, B.E.J. 1963, *OBSERVATORY* 83, 133.
- 23 CHAFFEE, F.H., CARBON, D.F. AND STROM, S.E. 1971, *ASTROPHYS. J.* 166, 593.
- 24 HACK, M. 1958, *MEM. SOC. ITAL.* 29, 263.
- 25 GREENSTEIN, J.L. AND KEENAN, P.C. 1958, *ASTROPHYS. J.* 127, 172.
- 26 PAGEL, B.E.J. 1963, *J. QUANTIT. SPECTROSC. RADIAT.* 3, 139.
- 27 HEISER, A.M. 1960, *ASTROPHYS. J.* 132, 506. (CONTR. MCDONALD OBS. NO. 327)
- 28 WALLERSTEIN, G. AND HELFER, H.L. 1959, *ASTROPHYS. J.* 129, 347.
- 29 HELFER, H.L., WALLERSTEIN, G. AND GREENSTEIN, J.L. 1960, *ASTROPHYS. J.* 132, 553.
- 30 PARKER, R., GREENSTEIN, J.L., HELFER, H.L. AND WALLERSTEIN, G. 1961, *ASTROPHYS. J.* 133, 101.
- 31 WALLERSTEIN, G. AND HELFER, H.L. 1961, *ASTROPHYS. J.* 133, 562.
- 32 KONDO, M. 1957, *PUBL. ASTRON. SOC. JAPAN* 9, 201.
- 33 STICKLAND, D.J. 1972, *MONTHLY NOTICES ROY. ASTRON. SOC.* 159, 29F.
- 34 GRATTON, L. 1953, *MEM. SOC. ROY. SCI. LIEGE* 14, 419.
- 35 JUGAKU, J. (PRIVATE COMMUNICATION)
- 36 WALLERSTEIN, G. AND HUNZIKER, W. 1964, *ASTROPHYS. J.* 140, 214.
- 37 HELFER, H.L., WALLERSTEIN, G. AND GREENSTEIN, J.L. 1963, *ASTROPHYS. J.* 138, 97.
- 38 ALLER, L.H. AND GREENSTEIN, J.L. 1960, *ASTROPHYS. J. SUPPL.* 5, 139.
- 39 CAYREL DE STROBEL, G. 1964 *IAU SYMP.* 26, 294.
- 40 WALLERSTEIN, G. AND HELFER, H.L. 1959, *ASTROPHYS. J.* 129, 720.
- 41 CAYREL DE STROBEL, G. 1966, *ANN. ASTRON.* 29, 413.
- 42 KOELBLUED, D. 1967, *ASTROPHYS. J.* 149, 299.
- 43 HELFER, H.L. AND WALLERSTEIN, G. 1968, *ASTROPHYS. J. SUPPL.* 16, 1.
- 44 COHEN, J.G. 1968, *ASTROPHYS. J.* 154, 179.
- 45 DANZIGER, I.J. 1966, *ASTROPHYS. J.* 143, 527.
- 46 PAGEL, B.E.J. AND POWELL, A.L.T. 1966, *ROY. OBS. BULL.* 124.
- 47 GRIFFIN, R. 1969, *MONTHLY NOTICES ROY. ASTRON. SOC.* 143, 381.
- 48 EDMONDS, F.N. JR. 1965, *ASTROPHYS. J.* 142, 278.
- 49 YAMASHITA, Y. 1964, *PUBL. DOM. ASTROPHYS. OBS. VICTORIA* 12, 455.
- 50 CAYREL DE STROBEL, G. 1968, *ANN. ASTRON.* 31, 43.
- 51 SPITE, M. 1968, *ANN. ASTRON.* 31, 269. (THESE 1968)
- 52 GRIFFIN, R. AND GRIFFIN, R. 1967, *MONTHLY NOTICES ROY. ASTRON. SOC.* 137, 253.
- 53 SPITE, M. 1967, *ANN. ASTRON.* 30, 211.

REFERENCES TO THE CATALOGUE (CONTINUED)

- 54 SPITE, M. 1969, *ASTRON. ASTROPHYS.* 1, 52.
 55 SPITE, M. 1967, *ANN. ASTRON.* 30, 685.
 56 HARMER, D. L. AND PAGEL, B. E. J. 1969, *NATURE* 225, 349.
 57 CATCHPOLE, A. M., PAGEL, B. E. J. AND POWELL, A. L. T. 1967, *MONTHLY NOTICES ROY. ASTRON. SOC.* 136, 403.
 58 COHEN, J. G. AND STROM, S. E. 1968, *ASTROPHYS. J.* 151, 623.
 59 BASCHEK, B., HOLWEGGER, H., NAMBA, O. AND TRAVING, G. 1967, *Z. ASTROPHYS.* 65, 418.
 60 GRIFFIN, K. 1969, *MONTHLY NOTICES ROY. ASTRON. SOC.* 143, 223.
 61 HEARNSHAW, J. B. 1974, *ASTRON. ASTROPHYS.* 34, 263.
 62 HEARNSHAW, J. B. 1974, *ASTRON. ASTROPHYS.* 36, 191.
 63 HEARNSHAW, J. B. 1973, *ASTRON. ASTROPHYS.* 29, 165.
 64 MERCHANT, A. 1966, *ASTROPHYS. J.* 143, 336.
 65 STROM, S. E. AND STROM, K. M. 1966, *ASTRON. J.* 71, 181.
 66 NISHIMURA, S. 1966, *COLLOQUIUM ON LATE-TYPE STARS* 125.
 67 ADELMAN, S. J. AND SARGENT, W. L. W. 1972, *ASTROPHYS. J.* 176, 671.
 68 WARREN, N. AND PEAT, D. W. 1972, *ASTRON. ASTROPHYS.* 17, 450.
 69 KODAIKA, K. 1973, *ASTRON. ASTROPHYS.* 22, 273.
 70 CONTI, P. S. AND STROM, S. E. 1968, *ASTROPHYS. J.* 152, 483.
 71 BUTCHER, H. R. 1972, *ASTROPHYS. J.* 176, 711.
 72 KODAIKA, K., GREENSTEIN, J. L. AND OKE, J. B. 1969, *ASTROPHYS. J.* 155, 525.
 73 FARAGGIANA, R. AND VAN'T VEER-MENNERET, C. 1971, *ASTRON. ASTROPHYS.* 12, 258.
 74 SPINRAD, H. AND LUEBKE, W. R. 1970, *ASTROPHYS. J.* 160, 1141.
 75 POWELL, A. L. T. 1970, *MONTHLY NOTICES ROY. ASTRON. SOC.* 148, 477.
 76 SNEIJEN, C. 1973, *ASTROPHYS. J.* 184, 839.
 77 PATCHETT, B. E., MCCALL, A. AND STICKLAND, D. J. 1973, *MONTHLY NOTICES ROY. ASTRON. SOC.* 164, 329.
 78 WILLIAMS, P. M. 1973, *MONTHLY NOTICES ROY. ASTRON. SOC.* 162, 235.
 79 WOLFFRAM, W. 1972, *ASTRON. ASTROPHYS.* 17, 17.
 80 FRENCH, V. A. AND POWELL, A. L. T. 1970, *ROY. OBSERV. BULL. GREENWICH* 173.
 81 SIEVERS, H. C. 1969, *PUBL. ASTRON. SOC. PACIFIC* 81, 33.
 82 BURBIDGE, G. R. AND BURBIDGE, E. K. 1956, *ASTROPHYS. J.* 124, 130.
 83 BALL, C. AND PAGEL, B. E. J. 1967, *OBSERVATORY* 87, 19.
 84 GRIFFIN, R. 1971, *MONTHLY NOTICES ROY. ASTRON. SOC.* 155, 139.
 85 ALEXANDER, J. B. 1967, *MONTHLY NOTICES ROY. ASTRON. SOC.* 137, 41.
 86 HEARNSHAW, J. B. 1972, *MEM. ROY. ASTRON. SOC.* 77, 55.
 87 HEARNSHAW, J. B. 1971, *ASTROPHYS. J.* 168, 109.
 88 PROVOST, J. AND VAN'T VEER-MENNERET, C. 1969, *ASTRON. ASTROPHYS.* 2, 218.
 89 PAGEL, B. E. J. 1966, *COLLOQUIUM ON LATE-TYPE STARS* 133.
 90 ZIELKE, G. 1970, *ASTRON. ASTROPHYS.* 6, 206.
 91 FALIPOU, M. A. 1973, *ASTRON. ASTROPHYS.* 22, 445.
 92 HACK, M. 1960, *MEM. SOC. IT.* 31, 279.
 93 ALLER, L. H. AND ROSS, J. E. 1970, *ASTROPHYS. J.* 161, 189.
 94 ALLER, L. H. AND ROSS, J. E. 1967, *MAGNETIC AND RELATED STARS* 339.
 95 ALLER, M. F. 1972, *ASTRON. ASTROPHYS.* 19, 248.
 96 TOMKIN, J. 1972, *MONTHLY NOTICES ROY. ASTRON. SOC.* 156, 349.
 97 STROM, S. E., GINGERICH, O. AND STROM, K. M. 1966, *ASTROPHYS. J.* 146, 880.
 98 SPITE, M. AND SPITE, F. 1973, *ASTRON. ASTROPHYS.* 23, 63.
 99 BLANC-VAZLAGA, M. J., CAYREL, G. AND CAYREL, R. 1973, *ASTROPHYS. J.* 180, 871.
 100 PRADERIE, F. 1968, *ANN. ASTRON.* 31, 15.
 101 KAUFMANN, J. F., SCHÖNBEKNER, U. AND RAHE, J. 1974, *ASTRON. ASTROPHYS.* 36, 201.
 102 CHROMEY, F. R. 1969, *ASTROPHYS. J.* 158, 599.
 103 PRZYBYLSKI, A. AND BURKICKI, A. 1974, *ACT. ASTRON.* 24, 275.
 104 PETERS, G. J. AND ALLER, L. H. 1970, *ASTROPHYS. J.* 159, 525.
 105 HARDORP, J. AND SCHULZ, M. 1970, *ASTROPHYS. J. SUPPL.* 19, 193.
 106 KODAIKA, K. AND SCHULZ, M. 1970, *ASTRON. ASTROPHYS.* 6, 93.
 107 GEHLICH, U. K. 1969, *ASTRON. ASTROPHYS.* 3, 169.

REFERENCES TO THE CATALOGUE (CONTINUED)

- 108 LEE, P. 1974, *ASTROPHYS. J.* 192, 133.
 109 WARNER, B. 1966, *MONTHLY NOTICES ROY. ASTRON. SOC.* 133, 389.
 110 ADELMAN, S. J. 1973, *ASTROPHYS. J.* 182, 531.
 111 HUNDT, E. 1972, *ASTRON. ASTROPHYS.* 21, 413.
 112 VAN PARADIJS, J. AND DE RUITER, H. 1973, *ASTRON. ASTROPHYS.* 20, 169.
 113 RODGERS, A. W. 1969, *MONTHLY NOTICES ROY. ASTRON. SOC.* 145, 151.
 114 PRZYBYLSKI, A. 1972, *MONTHLY NOTICES ROY. ASTRON. SOC.* 159, 155.
 115 PRZYBYLSKI, A. 1970, *MONTHLY NOTICES ROY. ASTRON. SOC.* 146, 71.
 116 WOLF, B. 1971, *ASTRON. ASTROPHYS.* 10, 383.
 117 STROM, S. E., GINGERICH, O. AND STROM, K. M. 1968, *OBSERVATORY* 88, 160.
 118 ENGIN, S. 1974, *ASTRON. ASTROPHYS.* 32, 93.
 119 SCHULZ, M. 1967, *Z. ASTROPHYS.* 65, 1.
 120 REGO, M. E. 1970, *URANIA* 271, 3.
 121 FENANDEZ-FIGUEROA, M. J. 1973, *URANIA* 277, 3.
 122 LATHAM, D. W. 1970, *SMITHSON. INST. ASTROPHYS. OBS. RES. SPACE SCI. REP.* 321.
 123 SMITH, M. A. 1971, *ASTRON. ASTROPHYS.* 11, 325.
 124 SMITH, M. A. 1974, *ASTROPHYS. J.* 189, 101.
 125 SMITH, M. A. 1973, *ASTROPHYS. J. SUPPL.* 25, 277.
 126 BAKOS, G. A. 1971, *J. ROY. ASTRON. SOC. CAN.* 65, 222.
 127 ENGIN, S. 1974, *IN PRESS.*
 128 BELL, R. A. AND BRANCH, D. 1971, *MONTHLY NOTICES ROY. ASTRON. SOC.* 153, 57.
 129 PRZYBYLSKI, A. 1968, *MONTHLY NOTICES ROY. ASTRON. SOC.* 139, 313.
 130 STROM, S. E., STROM, K. M. AND SARGENT, W. L. W. 1970, *ASTROPHYS. J.* 157, 1265.
 131 WARREN, P. R. 1973, *MONTHLY NOTICES ROY. ASTRON. SOC.* 161, 427.
 132 VAN PARADIJS, J. 1973, *ASTRON. ASTROPHYS.* 23, 369.
 133 KRIZ, S. 1966, *BULL. ASTRON. INST. CZECH.* 17, 175.
 134 ZVEKKO, J. 1968, *BULL. ASTRON. INST. CZECH.* 24, 71.
 135 HARKER, D. L., PAGEL, B. E. J. AND POWELL, A. L. I. 1970, *MONTHLY NOTICES ROY. ASTRON. SOC.* 150, 409.
 136 KIPPER, T. 1969, *PUBL. TARTU ASTR. OBS.* 36, 227.
 137 ENGIN, S. 1974, *ASTROPHYS. SPACE SCI.* 29, 343.
 138 STROM, S. E., STROM, K. M. AND CARBON, D. F. 1971, *ASTRON. ASTROPHYS.* 12, 177.
 139 GLEBOCKI, R. 1972, *ACT. ASTRON.* 22, 141.
 140 WILLIAMS, P. M. 1974, *MONTHLY NOTICES ROY. ASTRON. SOC.* 167, 359.
 141 WALLERSTEIN, G., STONE, Y. H. AND WILLIAMS, J. A. 1962, *ASTROPHYS. J.* 135, 459.
 142 ADELMAN, S. J. 1973, *ASTROPHYS. J.* 183, 95.
 143 CONTI, P. S. AND LUONEN, J. P. 1970, *ASTRON. ASTROPHYS.* 8, 197.
 144 AUER, L. H. 1964, *ASTROPHYS. J.* 139, 1148.
 145 CONTI, P. S. AND STROM, S. E. 1968, *ASTROPHYS. J.* 154, 975.
 146 ZIMMERMANN, R. E., ALLER, L. H. AND RUSS, J. E. 1971, *ASTROPHYS. J.* 161, 179.
 147 KODAIKA, K., GREENSTEIN, J. L. AND OKE, J. B. 1970, *ASTROPHYS. J.* 159, 485.
 148 SELIGMAN, C. E. AND ALLER, L. H. 1970, *ASTROPHYS. SPACE SCI.* 9, 461.
 149 HACK, M. 1969, *ASTROPHYS. SPACE SCI.* 5, 403.
 150 FERRIN, M. N., CAYREL, R. AND CAYREL DE STRUBEL, G. 1975, *ASTRON. ASTROPHYS.* 39, 97.
 151 UINAS, V. 1974, *ASTROPHYS. J. SUPPL.* 27, 391.
 152 FOY, R. 1974, *THESIS.*
 153 BELL, R. A. AND RODGERS, A. W. 1965, *MONTHLY NOTICES ROY. ASTRON. SOC.* 129, 127.
 154 STICKLAND, D. J. 1973, *MONTHLY NOTICES ROY. ASTRON. SOC.* 161, 193.
 155 HUNGER, K. 1960, *Z. ASTROPHYS.* 49, 129.
 156 GREENSTEIN, J. L. 1948, *ASTROPHYS. J.* 107, 151.
 157 TOMLEY, L. J., WALLERSTEIN, G. AND WOLFF, S. D. 1970, *ASTRON. ASTROPHYS.* 9, 380.
 158 HUFION, P. L. 1973, *ASTRON. ASTROPHYS.* 28, 267.
 159 KOHL, K. 1964, *Z. ASTROPHYS.* 60, 115.
 160 STROM, K. M. 1969, *ASTRON. ASTROPHYS.* 2, 182.
 161 HARDORP, J. 1966, *Z. ASTROPHYS.* 63, 137.

REFERENCES TO THE CATALOGUE (CONTINUED)

- 162 HAKDORF, J., BIDELMAN, W.P. AND KRULSS, J. 1968, Z. ASTROPHYS. 69, 429.
 163 HENSBERGE, H. AND DE LOOKE, C. 1974, ASTRON. ASTROPHYS. 37, 367.
 164 GRIFFIN, R. 1975, MONTHLY NOTICES ROY. ASTRON. SOC. 171, 181.
 165 PASINETTI-FRACASSINI, L. 1975 IN PREPARATION
 166 ZVERKO, J. 1970, BULL. ASTRON. INST. CZECH. 21, 56.
 167 WRIGHT, K.O. 1951, PUBL. DOM. ASTROPHYS. OBS. VICTORIA 8, 1.
 168 YAMASHITA, Y. 1965, PUBL. ASTRON. SOC. JAPAN 17, 55.
 169 VAN 'T VEER-MENNEKEI, C. 1963, ANN. ASTRON. 26, 289.
 170 DANZIGER, I.J. 1966, ASTROPHYS. J. 143, 591.
 171 BUSCOMBE, W., CHAMBLISS, C.K. AND KENNEDY, P.H. 1968, MONTHLY NOTICES ROY. ASTRON. SOC. 140, 369.
 172 AYDIN, C. 1972, ASTRON. ASTROPHYS. 19, 369.
 173 VAN PARADIJS, J. AND MEURS, E.J.A. 1974, ASTRON. ASTROPHYS. 35, 225.
 174 BASCHEK, B. AND SEARLE, L. 1970, ASTROPHYS. J. 155, 537.
 175 KONDO, Y. AND MAC CLUSKEY, G.E. 1969, ASTROPHYS. J. 156, 1007.
 176 TOY, L.G.S. 1969, ASTROPHYS. J. 158, 1099.
 177 HYLAND, A.K. AND MOULD, J.R. 1974, ASTROPHYS. J. 187, 277.
 178 GREENE, T.F., PERRY, J., SNOW, T.P. AND WALLERSTEIN, G. 1973, ASTRON. ASTROPHYS. 22, 293.
 179 GUTHRIE, B.N.G. 1966, ROY. OBSERV. EDINBURGH 5, 181.
 180 GUTHRIE, B.N.G. 1967, ROY. OBSERV. EDINBURGH 6, 1.
 181 MACKLE, K., HOLWEGER, H., GRIFFIN, R. AND GRIFFIN, R. 1975, ASTRON. ASTROPHYS. 38, 239.
 182 HILL, P.W. 1965, MONTHLY NOTICES ROY. ASTRON. SOC. 129, 137.
 183 ALLER, L.H. AND BIDELMAN, W.P. 1964, ASTROPHYS. J. 139, 171.
 184 KACJAK, K. 1969, CONTR. ASTRON. OBS. SKALNATE PLESO 4, 63.
 185 WOLF, B. 1972, ASTRON. ASTROPHYS. 20, 275.
 186 WILLIAMS, P.M. 1972, MONTHLY NOTICES ROY. ASTRON. SOC. 155, 17F.
 187 SNIDGERS, M.A. 1969, ASTRON. ASTROPHYS. 1, 452.
 188 COWLEY, C.K. 1968, ASTROPHYS. J. 153, 169.
 189 GROTH, H.G. 1961, Z. ASTROPHYS. 51, 206.
 190 SEARLE, L., LUNGERSHAUSEN, W. AND SARGENT, W. 1966, ASTROPHYS. J. 145, 141.
 191 DA SILVA, L. 1975, ASTRON. ASTROPHYS. 41, 287.
 192 JUGAKU, J., SARGENT, W.L.W. AND GREENSTEIN, J.L. 1961, ASTROPHYS. J. 134, 781.
 193 SPITE, F. AND SPITE, M. 1975, ASTRON. ASTROPHYS. 40, 141.
 194 SELVELL, P.L. 1972, ASTRON. ASTROPHYS. 20, 325.
 195 KIPPER, I. 1969, PUBL. TARTU ASTR. OBS. TEATED 21.
 196 SCHONBERNER, D. AND WOLF, R.E.A. 1974, ASTRON. ASTROPHYS. 37, 87.
 197 CUNTI, P.S. 1970, ASTRON. ASTROPHYS. 7, 213.
 198 LUUD, C. AND RUUSK, I. 1970, PUBL. TARTU ASTR. OBS. 38, 115.
 199 HUNGER, K. AND KLINGESMITH, D. 1969, ASTROPHYS. J. 157, 721.
 200 WEGNER, G. AND PEIFORD, A.D. 1974, MONTHLY NOTICES ROY. ASTRON. SOC. 168, 557.
 201 PRZYBYLSKI, A. 1971, MONTHLY NOTICES ROY. ASTRON. SOC. 153, 111.
 202 ALLER, M.H. 1970, ASTRON. ASTROPHYS. 6, 67.
 203 WOLF, R.E.A. 1973, ASTRON. ASTROPHYS. 26, 127.
 204 HUNGER, K. AND KAUFMANN, J.P. 1973, ASTRON. ASTROPHYS. 25, 261.
 205 VILHU, O. , ANN. ACAD. SCI. FENNICAE SERIE A VI PHY. 394.
 206 SCHMIDT, 1973, ASTRON. ASTROPHYS. SUPPL. 9, 427.
 207 WOLF, B. 1973, ASTRON. ASTROPHYS. 28, 335.
 208 HEAKNSHAW, J.B. 1975, ASTRON. ASTROPHYS. 38, 271.
 209 MONTGOMERY, E.F. AND ALLER, L.H. 1969, PROC. NAT. ACAD. 63, 1039.
 210 BARCIA, Z.L. 1968, Z. ASTROPHYS. 68, 278.
 211 KHOKLOVA, V.L., ALIYEV, S. AND KUDENKO, V.M. 1969, 12 V. KRYMSK. ASTRUFIZ. OBS. 40, 65.
 212 HACK, M. 1964, IAU SYMP. 26, 22Z
 213 PRZYBYLSKI, A. 1971, MONTHLY NOTICES ROY. ASTRON. SOC. 152, 197.

REFERENCES TO THE CATALOGUE (CONTINUED)

- 214 AUER, L.H., MIHALAS, D., ALLER, L.H. AND RUSS, J.E. 1966, *ASTROPHYS. J.* 145, 153.
215 THOMAS, M. 1971, *THESIS*.
216 STROHBACH, P. 1970, *ASTRON. ASTROPHYS.* 6, 385.
217 PETERSON, K.C. 1975, *ASTROPHYS. J.* PREPRINT.
218 GUNN, J.E. AND KRAFT, K. 1962, *ASTROPHYS. J.* 137, 301.
219 LITTLE, S.J. 1974, *ASTROPHYS. J.* 193, 639.
220 CAYREL, G., CAYREL, K. AND FOY, K. 1975, *PREPRINT*.
221 PERKIN, M.N. 1975, *PREPRINT*.
222 CAYREL DE STROBEL, G. UNPUBLISHED.
223 CONTI, P.S., WALLERSTEIN, G. AND WING, R.F. 1965, *ASTROPHYS. J.* 142, 999.
224 CAYREL DE STROBEL, G., CHAUVE-GODARD, J., HERNANDEZ, G. AND VAZLAGA, M. 1970, *ASTRON. ASTROPHYS.* 7, 408.
225 ISHIKAWA, M. 1975, *PUBL. ASTRON. SOC. JAPAN* 27, 1.
226 DICKENS, R.J., FRENCH, V.A., OMSI, P.W., PENNY, A.J. AND POWELL, A.L.I. 1971, *MONTHLY NOTICES ROY. ASTRON. SOC.* 153, 1.
227 REIMERS, D. 1969, *ASTRON. ASTROPHYS.* 3, 94.
228 KOSLOVA, K.I. 1968, *ASTROFIZ. ISSLED. IZV. SPE. ASTROF. OBS.* 4, 69.
229 PRESTON, G.W. 1961, *ASTROPHYS. J.* 134, 797.
230 MICZAŁKA, G.R., FRANKLIN, F.A., DEUTSCH, A.J. AND GREENSTEIN, J.L. 1956, *ASTROPHYS. J.* 124, 134.
231 BURKHART, C. AND VAN 'T VEER, C. 1974, *COMPTES RENDUS ACAD. SCI. PARIS SERIE B* 278, 1108.
232 BAIRD, S.R., ROBERTS, W.J., SNOW, T.P. AND WALLER, W. 1975, *PUBL. ASTRON. SOC. PACIFIC* 87, 385.
233 BRANCH, D. AND BELL, R.A. 1970, *MONTHLY NOTICES ROY. ASTRON. SOC.* 151, 289.
234 BELL, R.A. 1972, *MONTHLY NOTICES ROY. ASTRON. SOC.* 157, 147.
235 CONTI, P.S. 1965, *ASTROPHYS. J. SUPPL.* 11, 47.