Table 1. The fourth supplement to the catalogue of the periods of Ap stars.

	HD HR		other name var. star name	spectral type periodicity	proposed periodicities (in days) and references
	358		α And	B9 MnHg	no var. ℓ Adelman et al. 1994
	15	*	α And	0.96 ℓ, s, v	
	3322		GC 722	B8 HgMn	no var. ℓ Winzer 1974
	149	*	PY And	4.69 ℓ	
	4778		GC 999	A1 CrSrEu	2.5616 m Leroy 1995
	234		GO And	2.562 s, ℓ, m	
	5737		α Scl	B6 He wk	21.652$\pm$0.008 ℓ Manfroid & Renson 1994a
	280	*		21.65 s, m, ℓ	
	5797		BD+59°163	A0 CrEuSr	69.0(/67.5) ? s Iliev et al. 1992
			V551 Cas	69? ℓ, s	
+	6178		σ Scl	A2 V (p)?	2.36975$\pm$0.00020(/1.37675$\pm$0.00010/others) ℓ
	293			2.37: ℓ	Manfroid & Renson 1994a
	9996		GC 1977	A0 SiSrEu	8000 : ℓ Adelman & Pyper 1993
	465	*	GY And	8000 : ℓ	
	12288		BD+68°144	A2 CrSi	34.79$\pm$0.12 m Mathys et al. 1996
			V540 Cas	35 ℓ, m	
	12932		BD$-$19°384	A5 SrEu	
			BN Cet	3.5 ? ℓ	
	14392		63 And	B9 Si	4.1920 ℓ Adelman et al. 1992
	682		PZ And	4.19 ℓ	4.1890 ℓ Adelman & Knox 1994
	15089		ι Cas A	A4 Sr	1.74050 v, s Jasiński et al. 1981
	707	*	ι Cas	1.74 s, ℓ, v	
	18296		21 Per	A0 SiSr	2.88422 s Wehlau et al. 1991
	873		LT Per	2.884 ℓ, s, v, m	2.88422 $s(UV)$ Gonzales & Artru 1993
	19832		56 Ari	B8 Si	0.727902 ℓ Adelman & Fried 1993
	954		SX Ari	0.72790 ℓ, s, v, m	0.7278925 $\ell(UV)$ Stepien & Czechowski 1993
					0.727895 s Hatzes 1993
	20629		GC 3971	A0 SiSrCr	
			XX Ari	4.7 ? ℓ	
	21699		GC 4205	B8 He wk Si	2.49246 ℓ Vetö 1993
	1063	*	V396 Per	2.49 ℓ, m, s	
+	22316		GC 4315	B9 CrHgSi	2.9761$\pm$0.0014 m Hill & Blake 1996
	1094			2.976 m	
	22470		20 Eri	B9 Si	1.92893 ℓ Adelman & Boyce 1995
	1100		EG Eri	1.929 ℓ, m	
	24155		GC 4643	B9 Si	2.53465$\pm$0.00015 m Bohlender et al. 1993
	1194		V766 Tau	2.53 ℓ, m	
	24712		GC 4729	A9 SrEuCr	12.4610 m Leroy 1995
	1217		DO Eri	12.46 s, ℓ, m	12.4610$\pm$0.0011 m Bagnulo et al. 1995
	25823		41 Tau	B9 SrSi	7.227424 s Lanz et al. 1993
	1268	*	GS Tau	7.2274 ℓ, m, v, s	7.227424 $s(UV)$ Gonzales & Artru 1993

Table 1. Continued.

	HD		other name	spectral type	proposed periodicities (in days) and references
	HR		var. star name	periodicity	
	27295		53 Tau	B9 Mn	no var. ℓ Adelman 1993
	1339	*	V1024 Tau	4.42 ? ℓ	
	27309		56 Tau	A0 SiCr	1.5688840±0.0000047 ℓ North & Adelman 1995
	1341		V724 Tau	1.569 ℓ, s	
	27962		68 Tau	A1-A4 Sr	no var. v Häupl 1980
	1389	*	V776 Tau	21.26 ? ℓ	no var. ℓ Adelman 1993
	32549		11 Ori	B9 SiCr	4.6398 s Hatzes 1993
	1638		V1032 Ori	4.64 ℓ, s	
	32650		GC 6288	B9 Si	2.73475 ℓ Adelman 1996a
	1643		BN Cam	2.735 ℓ	
	34452		GC 6497	B9 Si	2.466264±0.000050 m Bohlender et al. 1993
	1732		IQ Aur	2.466 s, ℓ, m	
+	36485		δ Ori B	B2 He	const. m Bohlender et al. 1987
	1851	*		1.708 s, ℓ, m	~1.5 s Bohlender & Walker 1991
					1.70785±0.00050 $\ell(IR), m$ Catalano & Leone 1994a
	37017		GC 6932	B2 He	0.901175 s Odell 1986
	1890	**	V1046 Ori	0.9012 s, ℓ, m	0.901195 $\ell(IR)$ Catalano & Leone 1994a
	37479		σ Ori E	B2 He	1.19080 $s, \ell(IR)$ Groote & Hunger 1982
	1932	**	V1030 Ori	1.191 ℓ, s, m	1.19081 $\ell(IR)$ Catalano & Leone 1994a
	37776		BD-1°1005	B3 He	1.53869 $\ell(IR)$ Catalano & Leone 1994a
			V901 Ori	1.539 ℓ, s, m, v	
	37808		GC 7095	B9 Si	1.09909±0.00003 ℓ, s Leone et al. 1993
	1957		V1051 Ori	1.0991 ℓ, s	
	40312		θ Aur A	A0 Si	3.6188±0.0001 ℓ Adelman 1996a
	2095	*	θ Aur	3.619 ℓ, m, s	
	47152		53 Aur	A0 EuCrHg	
	2425	**		2.8? ℓ	
	49333		12 CMa	B7 He wk Si	2.18010±0.00020 m Bohlender et al. 1993
	2509		HK CMa	2.180 s, ℓ, m	2.179232±0.000009 ℓ Catalano & Leone 1996
	49976		GC 8955	A1 SrCrEu	2.97666±0.00008 ℓ Catalano & Leone 1994b
	2534		V592 Mon	2.9867 s, ℓ, m, v	
	54118		27G. Car	A0 Si	3.27533±0.00020 m Bohlender et al. 1993
	2683		V386 Car	3.275 m, ℓ	3.27535±0.00010 ℓ Manfroid & Renson 1994a
	58260		GC 9873	B3 He	1.4876±0.0010 $\ell(IR), m$ Catalano & Leone 1994a
				1.49: s, ℓ, m	no var. ℓ Kilkenny et al. 1994
+	60344		CoD-23°5673	B5 He	1.8276±0.0010 $\ell(IR)$ Catalano & Leone 1994a
				1.83 ℓ	
	62140		49 Cam	A8 SrEu	4.2866±0.0005 m Leroy et al. 1995a
	2977		BC Cam	4.287 m, s, ℓ	4.2867 m Leroy 1995
					4.2867±0.0004 m Leroy et al. 1995b
					4.28679±0.00005 ℓ Adelman 1996a

Table 1. Continued.

	HD HR		other name var. star name	spectral type periodicity	proposed periodicities (in days) and references
	64740		216G. Pup	B2 He	1.33026 $\ell(IR)$ Catalano & Leone 1994a
	3089			1.330 s, m, ℓ	
	65339		53 Cam	A3 SrEuCr	8.0278 m Kemp & Wolstencroft 1974
	3109	*	AX Cam	8.027 m, ℓ, s	8.0267 m Leroy et al. 1993
					8.0269 m Leroy 1995
	68826		CoD-48°3586	B9 Si	1.584748$\pm$0.000005 $\ell(ecl.)$ Clausen et al. 1995
		*	AO Vel	1.5847 ℓ	
	71866		GC 11639	A1 EuSrSi	6.8 m Tuominen & Piirola 1978
			TZ Lyn	6.800 m, ℓ	6.80001 m Tuominen & Piirola 1981
					6.8005 m Leroy et al. 1993
					6.80054 m Leroy 1995
					6.80022$\pm$0.00006 m Bagnulo et al. 1995
	73340		47G. Vel	B9 Si	2.66753$\pm$0.00025 m Bohlender et al. 1993
	3413		HV Vel	2.6676 ℓ, s, m	
	74196		55G. Vel	B7 He wk	no var. ℓ Catalano & Leone 1996
	3448			0.39 ? ℓ, m	
	79158		36 Lyn	B9 He wk	3.83483 m Bohlender 1994
	3652			3.835 m, s	
	80316		BD-19°2674	A3 SrEu	2.0886: m Leroy 1995
			LX Hya	2.08 ℓ	
	81009		GC 12936	A3 CrSrEu	33.984$\pm$0.002 ℓ Adelman 1996a
	3724	*	KU Hya	34.0 ℓ, m	33.96$\pm$0.02 m Mathys et al. 1996
	83368		GC 13284	A8 SrCrEu	2.851982 ℓ Catalano & Leone 1994b
	3831	*	IM Vel	2.85198 ℓ, m	2.851982 m Mathys 1994
+	84041		CoD-28°7536	A5 SrEu	3.69$\pm$0.01 ℓ Martinez et al. 1993
		*	AI Ant	3.7 ℓ	
	89822		30H. UMa	A0 SiHgSr	no var. ℓ Adelman 1993
	4072	*	ET UMa	var.? ℓ	no var. with P = 7.56 ℓ Zboril & Budaj 1993
	90044		25 Sex	B9 SiCrSr	4.37900$\pm$0.00004 ℓ Manfroid & Renson 1994a
	4082		SS Sex	4.3790 ℓ	
	92664		217G. Car	B9 Si	1.67315$\pm$0.00010 m Bohlender et al. 1993
	4185		V364 Car	1.673 ℓ, m, s	1.6731 s Lanz et al. 1993
+	93507		CpD-67°1494	A0 SiCr	556$\pm$22 m Mathys et al. 1996
				550: m	
+	94660		235G. Vel	A0 EuCrSi	no var. during 8 d ℓ Heck et al. 1976
	4263		KQ Vel	long ℓ	no var. during 9 d ℓ Renson & Manfroid 1978
					long ℓ Hensberge et al. 1981
					long ℓ Hensberge et al. 1984
					$\sim$2700 ? ℓ Hensberge 1993
	96707		GC 15332	A8 Sr	0.92834 ℓ Zverko & Žižňovský 1991
	4330		EP UMa	0.928 ℓ	
	98088		GC 15514	A8 SrCrEu	5.905130 ℓ Catalano & Leone 1994b
	4369	*	SV Crt	5.9051 v, m, s, ℓ	5.90513 m Leroy 1995

Table 1. Continued.

	HD HR		other name var. star name	spectral type periodicity	proposed periodicities (in days) and references
	103192		β Hya	B9 SiCrSr	2.35666±0.00002 ℓ Manfroid & Renson 1994a
	4552	*	β Hya	2.3567 ℓ	
+	103789		GC 16344	A0 p ?	0.675 ℓ Mathys et al. 1986
	4571		LV Hya	0.68 ℓ	
	108662		17 Com A	A0 SrCrSi	5.0808 m, s Rice & Wehlau 1994b
	4752	*	AI Com	5.08 ℓ, m, s	5.0633 m Leroy 1995
	111133		GC 17366	A1 SrCrEu	16.3047±0.0020 ℓ Adelman et al. 1992
	4854		EP Vir	16.307 ℓ, m, s, v	16.48281±0.00040 ℓ Catalano & Leone 1994b
					16.30720±0.00032 ℓ North & Adelman 1995
	112185		ϵ UMa	A1 CrEuMn	5.0887 s Woszczyk & Michalowski 1981
	4905		ϵ UMa	5.089 v, ℓ, s, m	5.0887 s Totochava & Khokhlova 1991
	112381		GC 17563	A0 SiCr	2.84±0.04 m Bohlender et al. 1993
			V823 Cen	2.8 ℓ, m	
	112413		α^2 CVn	A0 EuSiCr	5.46939 m Kemp & Wolstencroft 1974
	4915	*	α^2 CVn	5.4693 s, v, ℓ, m	5.46939 m Romanyuk 1991
	115708		BD+27°2234	A3 SrEu	5.554(/5.077) m Leroy et al. 1993
			HH Com	5.08 ℓ, m	5.0762 m Leroy 1995
					5.07622±0.0004 m Wade et al. 1996
+	116458		67G. Mus	A0 SiEuCr	var. ? m Wood & Campusano 1975
	5049	*		148 m, ℓ	70.651 v Wood et al. 1977
					no var. ℓ, 70.651 v Maitzen & Wood 1977
					var. ? s Dworetsky et al. 1980
					147.9±0.6 ℓ Hensberge 1993
	118022		78 Vir	A2 CrEuSr	3.722084±0.000042 ℓ Catalano & Leone 1994b
	5105		CW Vir	3.7221 ℓ, m, v, s	3.7220 m Leroy 1995
	119213		GC 18496	A3 SrCr	2.4499086±0.0000047 ℓ Jetsu et al. 1992
	5153		CQ UMa	2.44991 ℓ, s, m	2.4499141±0.0000038 ℓ Žižňovský & Mikulášek 1995
	119419		GC 18555	A0 SiCrEu	2.6012±0.0010 m Bohlender et al. 1993
	5158		V827 Cen	2.601 ℓ, m, s	
	120198		84 UMa	A0 CrEu	1.380682 s, ℓ Rice & Wehlau 1994a
	5187		CR UMa	1.3807 ℓ, s	
+	121276		CoD−51°7839	A0 SiCr	6.514628 $\ell(ecl.)$ North & Richard 1995
				6.5146 ℓ	
	122532		307G. Cen	B9 Si	3.6807±0.0001 m Bohlender et al. 1993
	5269		V828 Cen	3.681 ℓ, m, s	
	123515		320G. Cen	B8 Si?	1.4594+1.5168+1.3725+2.1818 ℓ
	5296		V869 Cen	1.5 ℓ	Waelkens 1993
	124224		GC 19157	B9 Si	0.5206800±0.0000005 ℓ Adelman et al. 1992
	5313		CU Vir	0.52068 s, v, ℓ, m	0.520675 s Hatzes 1993
	125248		236G. Vir	A1 EuCr	9.2954 s Mathys 1994
	5355		CS Vir	9.295 s, m, ℓ, v	
	125823		a Cen	B5 He wk	8.817744±0.000019 ℓ Catalano & Leone 1996
	5378		V761 Cen	8.8177 s, v, ℓ, m	

Table 1. Continued.

	HD		other name	spectral type	proposed periodicities (in days) and references
	HR		var. star name	periodicity	
	126515		GC 19462	A2 SrCr	129.99±0.04 ℓ North & Adelman 1995
			FF Vir	130 m, s, ℓ	129.95±0.02 m Mathys et al. 1996
	128898		α Cir	F0 Sr	0.995350±0.000005 ? ℓ Kurtz et al. 1993
	5463	*	α Cir	4.479 v, s, ℓ, m	4.4790±0.0001 ℓ Kurtz et al. 1994
	133652		GC 20303	B9 Si	var. ? s Bonsack 1974
	5619		HZ Lup	2.304 ℓ, m	2.3040±0.0003 m Bohlender et al. 1993
	133880		56G. Lup	B9 Si	4–5 : m Borra & Landstreet 1975
	5624		HR Lup	0.8775 m, ℓ	
	134214		GC 20368	F2 SrEuCr	248: ℓ Kreidl et al. 1994
			HI Lib	248: ℓ	
	137509		GC 20810	B9 SiCrFe	4.4920 m, s Mathys 1994
			NN Aps	4.49 m, ℓ, s	
	137909		β CrB	A9 SrEuCr	18.487 m Romanyuk 1991
	5747	*	β CrB	18.487 m, v, ℓ, s	18.487 ℓ Adelman et al. 1992
					18.487 m Leroy et al. 1993
					18.4868 m Leroy 1995
	140160		χ Ser	A1 Sr	1.59583 ℓ Adelman et al. 1992
	5843		χ Ser	1.596 s, ℓ	
+	142070		BD−0°3026	A0 SrCrEu	3.3737±0.0011 m Mathys et al. 1996
				3.37 m	
	142990		GC 21442	B8 He wk	0.985±0.006(/0.982920±0.000020) m Bohlender et al. 1993
	5942		V913 Sco	0.9791 s, ℓ, m	0.979070±0.000011 ℓ Catalano & Leone 1996
	143654		CoD−51°9739	A0 (EuCrSr) ?	8.524406 ℓ(*ecl.*) North & Burnet 1994
		*	TV Nor	8.5244 ℓ	
	144334		19G. Sco	B8 He wk	1.494971 ℓ Catalano & Leone 1996
	5988		V929 Sco	1.495 ℓ, m	
+	144667		GC 21680	A0 He wk	2.028: ℓ Kurtz & Marang 1995
	6000	*		2: ℓ	
+	144897		CoD−40°10236	B8 EuCr	48.43±0.14 m Mathys et al. 1996
				48 m	
	147010		GC 21960	B9 SiCrSr	3.9210 ℓ Adelman et al. 1992
			V933 Sco	3.9207 s, ℓ, m	3.92076 m Mathys 1994
	148199		GC 22126	B9 SiFeCr	7.8±0.6(/7.7255:/1.165±0.015) m
				7.9 m, ℓ	Bohlender et al. 1993
	151965		GC 22693	B9 Si	1.60841 m Bohlender et al. 1993
			V911 Sco	1.6084 ℓ, m	
	152107		52 Her	A3 SrCrEu	3.8575 ? ℓ Adelman et al. 1992
	6254		V637 Her	3.857? m, ℓ, s, v	70.67148/2.6343(/0.92578) m Bychkov et al. 1992
					3.8575 m Leroy 1995
	153882		GC 22960	A1 CrEu	6.00890±0.00015 ℓ Catalano & Leone 1994b
	6326	*	V451 Her	6.0089 m, v, ℓ, s	

Table 1. Continued.

	HD HR		other name var. star name	spectral type periodicity	proposed periodicities (in days) and references
	153947		CoD$-37°$11215	B9 Si	2.6633$\pm$0.0001 (or nearby value) ℓ
			V974 Sco	2.66 ℓ	Poretti 1992
	159376		52 Oph	B9 Si	9.73830$\pm$0.00010 ℓ Manfroid & Renson 1994a
	6545		V2125 Oph	9.738 ℓ	
	164258		GC 24499	A3 SrCrEu	0.829$\pm$0.005 ℓ Catalano & Leone 1994b
	6709		V2126 Oph	0.83 ℓ	
+	165474		BD+12°3382	A7 SrCrEu	23.38: m Leroy 1995
		*		23.4? m	
	166596		3G. CrA	B3 Si	1.67 ℓ Hirata et al. 1987
	6804		V692 CrA	1.7 ℓ	
	168733		59G. Sgr	B8 TiSr	6.3540$\pm$0.0010 ℓ Manfroid & Renson 1994a
	6870		V4050 Sgr	6.35 m,ℓ	
	170397		GC 25232	A0 SiCrEu	2.1915 m Bohlender et al. 1993
	6932		V432 Sct	2.191 ℓ,m	
	170973		GC 25308	A0 SiCrSr	18.2(/0.945099) ? m Bohlender et al. 1993
	6958		MV Ser	18.2 ? ℓ,m	
	171247		GC 25342	B8 Si	
	6967	**		3.91 ℓ	
	173650		GC 25695	A0 SiSrCr	9.97548 ℓ Adelman et al. 1992
	7058		V535 Her	9.975 ℓ,m,s,v	
	175362		31G. CrA	B6 He wk Si	3.67375 s Lanz et al. 1993
	7129		V686 CrA	3.674 s,ℓ,m,v	3.67375$\pm$0.00004 ℓ Catalano & Leone 1996
+	177003		GC 26138	B3 He	0.66/2.1 $\ell(UV)$ Schöneich & Zelwanowa 1984
	7210			0.7 ? ℓ	0.724 ? ℓ Vetö 1993
+	180583		GC 26562	F6 Sr	1.49078 ℓ Breger 1980
	7308	*	V473 Lyr	1.4908 ℓ	1.490813 ℓ Berdnikov & Vorziskova 1995
	184905		GC 27072	A0 Si	1.84535$\pm$0.00002 ℓ Adelman et al. 1994
			V1264 Cyg	1.845 s,ℓ	
	184927		BD+30°3645	B2 He	9.536 m,s Barker et al. 1982
			V1671 Cyg	9.53 s,ℓ,m	9.52793 ℓ Vetö 1993
	187474		235G. Sgr	A0 EuCrSi	2345$\pm$15 ℓ Hensberge 1993
	7552	*	V3961 Sgr	2345: m,ℓ,s	
	188041		90G. Aql	A6 SrCrEu	223.9$\pm$0.2 ℓ Hensberge 1993
	7575	*	V1291 Aql	224 m,s,ℓ	223.9 m Leroy 1995
	189832		GC 27780	A6 SrCrEu	28.530$\pm$0.010 ℓ Manfroid & Renson 1994a
			V4133 Sgr	28.5 ℓ	
+	191495		BD+35°3987	B7 p ?	0.789 ℓ Zakirov & Arzumanyants 1995
		*		0.79 ℓ	

Table 1. Continued.

	HD		other name	spectral type	proposed periodicities (in days) and references
	HR		var. star name	periodicity	
	192678		GC 28111	A2 Cr	4.77 ? ℓ Zverko & Žižňovský 1991
			V1372 Cyg	6.42: ℓ	6.4186 m Leroy 1995
	192913		GC 28173	A0 SiCr	16.840 ℓ Adelman & Knox 1994
			MW Vul	16.8 ℓ, s	
+	196178		GC 28642	B8 Si	var. ? ℓ Winzer 1974
	7870		V2015 Cyg	1.01 ? ℓ	1.006 ? ℓ Jerzychiewicz 1993
+	200311		BD+43°3786	B9 SiCrHg	26 ℓ Adelman 1996b
				52 ℓ, m	51.75±0.13 m Mathys et al. 1996
	201601		γ Equ	A9 SrEu	≥80 y m Leroy 1995
	8097		γ Equ	long m, ℓ	
	204411		GC 30040	A6 Cr	no var. ℓ Adelman et al. 1994
	8216			0.73 ? ℓ	
	208217		GC 30695	A0 SrEuCr	8.44475±0.00011 m Mathys et al. 1996
			BD Ind	8.445 ℓ, m	
	210071		GC 30926	B9 SiCr	1.43242 ℓ Adelman et al. 1994
	8434			1.43 ℓ	
	215441		BD+54°2846	B9 Si	9.4871 s Malanushenko et al. 1992b
		*	GL Lac	9.487 ℓ, m, s	9.4871 m El'kin 1992
					9.487574±0.000030 ℓ North & Adelman 1995
	217833		GC 32116	B8 He wk	5.393 ℓ Vetö 1993
	8770	*	V638 Cas	5.4 ℓ	
	219749		GC 32437	B9 Si	1.61887 s Piskunov et al. 1994
	8861	*	ET And	1.619 ℓ, s	
	221006		33G. Tuc	A0 Si	2.31483±0.00040 $s, \ell(IR)$ Leone et al. 1995
	8919		CG Tuc	2.315 ℓ, m	
	221394		GC 32719	A0 SiSrCr	2.86031 ℓ Adelman & Boyce 1995
	8933			2.86 ℓ	
	223640		108 Aqr	B9 SiSrCr	3.735239: ℓ Adelman & Knox 1994
	9031		ET Aqr	3.7352 ℓ, s, m	
	224801		GC 33298	B9 SiEu	3.73975 ℓ Malanushenko et al. 1992a
	9080	*	CG And	3.7398 ℓ, s, v	3.739833±0.000013 ℓ Adelman & Pyper 1993
+	335238		BD+29°4202	A1 CrEu	11.173±0.020 m Mathys et al. 1996
		*		11.2 m	
			CpD−60°981	A2 (SrCrEu)?	3.174995±0.000006 ℓ Žižňovský 1992
		*	V392 Car	3.175 $\ell(ecl)$	
+			Gr.9-NGC 2169	A0 Si	1.56(/0.77) ℓ Maitzen & Lebzelter 1993
		*		1.563 ℓ	0.606 : ℓ Renson 1994
					1.56300±0.00001 ℓ Manfroid & Renson 1994b

Notes to Table 1:

HD 36485 ADS 4134C: the brighter component HD 36486 (δ Ori A = HR 1852, V = 2.23) 52" away, and a fainter component (ADS 4134B, V = 14) 33" away from A, are not physically related to HD 36485; HD 36485 is also a spectroscopic binary with P = 9.9144±0.0002 d (Morrell & Levato 1991)

HD 37017 sp. bin. P = 18.6217±0.0004 d (Morrell & Levato 1991)

HD 37479 first helium-strong star in which a large magnetic field has been detected. Light variations are mainly due to the eclipse by a ring or cloud of circumstellar material (Groote & Hunger 1982)

HD 47152 interf. bin. P = 25.8 years (Baize 1989)

HD 84041 rapid oscillating Ap star with periods near 15 min; also visual double: fainter component (V = 13) at 8"

HD 116458 sp. bin. P = 126 d

HD 143654 according to the quoted authors, this star is probably not an Ap star

HD 144667 component A (V = 6.64) of a quadruple system; companion B (V ~ 13) at 16"; companion C (HD 144668 = HR 5999 = V856 Sco, irregular variable, Sp. A7IIIe, V ~ 7.0) at 44"; companion D (V ~ 11.6) at 1.3" from C

HD 165474 ADS 11056B, component A at 7", Δm = 0.5; component C at 56" is 5 mag. fainter than A

HD 171247 ADS 11448A, companion at 38.7", Δm = 4

HD 180583 this star is probably not to be considered as an Ap star, but it is a known cepheid, as it has been noted in the *General Catalogue of Ap and Am Stars*, its luminosity class being I or II

HD 191495 star of the open cluster NGC 6871, in the association Cyg OB3

HDE 335238 (= Rns 55280): coordinates at the epoch 1950.0: $20^h\ 48.6^m\ +29^o\ 37'$

Gr.9-NGC 2169 (= Rns 11180): star N.9 in NGC 2169 (Grubissich 1959); the identification as star N.12 in Hoag et al. (1961) has also been used. Coordinates at the epoch 1950.0: $06^h\ 05.6^m$, $+13^o\ 57'$