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VARIABLE STARS IN THE LSS CATALOGUE

Among the 5132 objects contained in Stephenson and Sanduleak's (1971) catalogue of "Luminous Stars in the Southern Milky Way" are a considerable number of variable stars. Most of those known at the time were noted as such in the catalogue but, of course, many additional variables have been found since its publication. Table I lists those stars of the catalogue that are now, to the writer's knowledge, either named variables or contained in the two catalogues of stars suspected of variability. The literature search included the 3rd edition of the GCVS, its three supplements, and the 62nd through 65th variable-star naming lists (I.A.U. Var. Star Bull. Nos. 1248, 1414, 1581, and 1921). A few additional as-yet unnamed variables are also known but are not included.

The objective-prism spectral classifications of the LSS catalogue are generally expressed in terms of the OB natural group nomenclature, as is also true for the similar Case-Hamburg northern-hemisphere luminous star survey. Their significance can be judged by reference to Fig. 1, prepared by N. Sanduleak, of the writer's (1972) paper. In many cases actual MK types are also available in the literature, but this is not generally true for the fainter stars. The U Geminorum star CZ Orionis (LSS 30, OB⁻) and the large-range 8.8-day eclipsing binary AI Sagittarii (LSS 4851, OB), among others, are especially notable in this regard. It is also worthy of mention that the LSS catalogue gives accurate coordinates and useful charts for all of its entries.

TABLE I
VARIABLE STARS IN THE LSS CATALOGUE

LSS No.	Spectrum	Name or Susp. Var. No.	LSS No.	Spectrum	Name or Susp. Var. No.
30	OB ⁻	CZ Ori	1571	OB	V348 Car
38	OBce	FR CMa	1578	F3 I	102640
71	F2 ₋ II	102512	1644	OB ₋	V369 Car
94	OB ₋	EY CMa	1679	OB ₋	V380 Car
98	WC	EZ CMa	1685	OB ₋	V381 Car
104	OB ₋	6531	1761	WNh	101151
110	OB ⁺ le:h	V644 Mon	1768	WC	102653
156	OB	V569 Mon	1799	OB	DW Car
167	OB ₋	FN CMa	1839	OB(ce)	QZ Car
177	OB ₋ ce, (h)	FV CMa	1868	OBle:p	n Car
245	OBce, h	HI CMa	1883	OB	101159
255	OB ₋	GY CMa	1885	F5 II	SX Car
306	OB	UW CMa	1968	OB ₋	AA Vel
312	OB ₋	NV Pup	2008	OB	HH Car
414	F5 II(r)	VZ CMa	2033	OBce,le,h	GG Car
418	OB ₋ ce	FY CMa	2035	OBce,le,h,r	AG Car
509	F6 I-II	VX Pup	2076	WC5	102656
548	OB ₋ h	OW Pup	2091	OB ₋	HI Car
804	GO I _h	PW Pup	2117	OB ₋ or B7 II	102657
824	OB ₋	KY Pup	2151	OB ₋ (le)	QU Car
980	WR ₋	γ Vel(A)	2154	WNh	102659
1006	OB ₋ ce,le,h	MX Pup	2217	OB	6824
1094	OB ₋ le:h	FY Vel	2232	OB	EM Car
1162	OB _h	102598	2237	A7 Ib	6825
1180	OB ₋ le,h	GW Vel	2258	F4 II	GI Car
1214	OB ₋	102608	2268	OB	GL Car
1227	OB ₋	GP Vel	2361	OB	V808 Cen
1255	OB ₋	GX Vel	2369	A: I:	V809 Cen
1265	A5 Ib	6701	2370	OB	TU Mus
1317	OB	6725	2374	F0 Ib	o ² Cen
1334	OB ₋	102624	2417	OB(ce)	LW Cen
1365	OB	6754	2427	OB	102670
1376	F8 II	GX Car	2432	OB	BH Cen
1440	WCh	102634	2458	OB ₋	MO Cen
1444	OB:le,r	1575	2464	OB ₋	V346 Cen
1446	OB _h	QY Car	2468	OB ₋	V644 Cen
1489	OB ₋	6778	2471	OB ₋	MP Cen
1490	OB ₋	CO Car	2501	OB ₋	SV Cen
1495	OB ₋	HP Car	2502	OB ₋ ce,h	V801 Cen
1523	OB ⁺ le,h,r	HR Car	2511	OB	V350 Cen

TABLE I (cont.)

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LSS No.	Spectrum	Name or Susp. Var. No.	LSS No.	Spectrum	Name or Susp. Var. No.
2515	OB	LZ Cen	3899	OB + WR:	V884 Sco
2639	OB _{ce}	AB Cru	3917	OB ₊	V616 Ara
2662	OB ⁺ 1e,h,r	BI Cru	3928	OB ⁺ 1e,h	2944
2788	A5_Iab	102717	3939	OB	V457 Sco
2800	OB ⁺	BS Cru	4012	OB	101636
2806	OBh	BT Cru	4070	OB	V474 Sco
2807	OB	BU Cru	4181	OB ⁻	V499 Sco
2808	OB	BV Cru	4193	OB ⁻	V700 Sco
2816	OB ⁻	BW Cru	4225	OB ⁻	101659
2879	OBh	6978	4237	OB ⁺	101660
2900	OB	1980	4332	F8_I	V905 Sco
2933	WCh	θ Mus	4338	OB ⁺	V2076 Oph
3024	F8_Ib-II	V378 Cen	4340	Noya	V2024 Oph
3043	OB ⁻	V606 Cen	4356	OB ⁺ 1e,h	V3892 Sgr
3044	OB	7023	4368	WR	V3899 Sgr
3185	OB ⁻	QS Cen	4469	OB ⁺ ce,1e,h	V771 Sgr
3271	OB ⁻ (ce),n	7144	4571	OB	7750
3311	OB ⁻ h	7170	4700	OB	V3903 Sgr
3331	OB ⁻	7175	4791	B6 Ib	μ Sgr
3625	OB ⁺	QU Nor	4851	OB	AI Sgr
3646	OB ⁺	102803	4954	OB ⁺ r	V4029 Sgr
3654	OB ⁻	μ Nor	4956	OB ⁺ r	V4030 Sgr
3672	OB ⁺	V918 Sco	5021	OB ⁺ r	V430 Sct
3785	W(N)h	V919 Sco	5024	OB ⁺ h,r	RY Sct
3807	OB	V900 Sco	5061	OB ⁻	V2349 Sgr
3822	OB ⁻	V920 Sco	5077	F2 II	V Sgr
3834	OB1e,h	CL Sco	5079	F5_I:	X Sct
3850	OB	V861 Sco	5123	OB ⁺	MV Sgr
3854	OB ⁻	102812			
3890	OB	102814			

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