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THE NEW IDENTIFICATIONS OF THE VARIABLE STARS WITH THE STARS FROM  
THE "TWO-MICRON SKY SURVEY - A PRELIMINARY CATALOG" BY  
G. NEUGEBAUER et al. (IRC)

B. V. Kukarkin

Translation of "Novye identifikatsii peremennykh zvezd s zvezdami  
kataloga "Obzor neba na volne dva mikrona" G. Neygebauera (IRC),"  
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THE NEW IDENTIFICATIONS OF THE VARIABLE STARS WITH THE STARS FROM  
 THE "TWO-MICRON SKY SURVEY - A PRELIMINARY CATALOG"  
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A comparison of the star catalogue of G. Neugebauer et al [4]<sup>\*</sup> [1] with the variable stars from the Third Edition of the "General Catalog of Variable Stars" [2] and the "57th Name List" [3] led to the detection of 163 new identifications. However, some of them, due to the great uncertainty of coordinates, were doubtful. We present below a table which is a list of 151 variable stars. The identification of 148 of them is beyond any doubt. The identification of 3 stars is quite probable, but requires further checking. In the first column of the table we present the number according to the Neugebauer Catalog (INC), in the second column - the name of the variable star. The asterisks next to the numbers indicate that there is a note at the end of the table.

IRC	GCVS	IRC	GCVS	IRC	GCVS
-30104	ET Pup	00334	V482 Oph	+30379	PG Cyg
-30105	LU Pup	00428	V412 Aql	+30390*	V976 Cyg
-30365	V1280 Sgr	00436	V858 Aql	+30420	V557 Cyg
-30385*	V1988 Sgr	00452	V541 Aql	+30460	IN Vul
-30391	V2010 Sgr	00461	V568 Aql	+30466	V1058 Cyg
-20092	$\beta$ CMa	+10050	IK Tau	+30473	FZ Peg
-20110	EL CVa	+10118	BN Mon	+30484*	RZ Peg
-20127	DI CVa	+10131	IN Mon	+30488	GK Peg
-20149	UV Pup	+10143	GX Mon	+40014	LG And
-20320	KV Sco	+10356	V1014 Oph	+40040	II And
-20470	V1082 Sgr	+10365	V1111 Oph	+40134	IX Aur
-20480	V1984 Sgr	+10440	V685 Aql	+40205	RS LMi
-20483*	V2046 Sgr	+10497	ET Peg	+40228	AZ UMa
-20492*	V2363 Sgr	+10519	GM Peg	+40310	V566 Her
-20493	V2003 Sgr	+20045	TT Ari	+40312	V529 Her
-20524	V2059 Sgr	+20146	CG Gem	+40357	V942 Cyg
-20557	V2139 Sgr	+20168	CG Gem	+40362	V973 Cyg

<sup>1</sup>Numbers in the margin indicate pagination in the foreign text.

IRC	GCVS	IRC	GCVS	IRC	GCVS
-20562	AN Fr	+20253	FU Com	+40396	V1183 Cyg
-10143	V523 Mon	+20331	CF Her	+40421	V562 Cyg
-10148	BQ Mon	+20359	V354 Her	+40438	V1201 Cyg
-10169	KQ Pup	+20393	CG Vul	+40455	V1056 Cyg
-10177	GO Pup	+20444*	V429 Aql	+40467	V1059 Cyg
-10260	SV Vir	+20468	IK Vul	+40479	V1070 Cyg
-10299	EN Vir	+20470*	RS Del	+40484	V624 Cyg
-10329	IS Lib	+20479	ES Del	+50015*	V414 Cas
-10353	V1055 Oph	+20483*	GU Del	+50024	EH And
-10409	ES Ser	+20486*	FI Vul	+50029	EI And
-10466	GZ Sct	+20527	GI Peg	+50030	HV Cas
-10500	DZ Aql	+20541	GO Peg	+50113	FV Per
-10609	W Cet	+30090	IU Tau	+50154	LO Aur
00071	V535 Ori	+30136	DS Aur	+50166	KT Aur
00110	CQ Mon	+30159	IK Gem	+50236	ZZ Cyg
00114	V485 Mon	+30167	IS Gem	+50254	V449 Her
00116	V492 Mon	+30184	XX Gem	+50261	WZ Dra
00127	DF Mon	+30276	SY CrB	+50280	AL Del
00130	DI Mon	+30362	OU Lyr	+50302	V927 Cyg
00132	V517 Mon	+30365	OV Lyr	+50336	V1202 Cyg
00277	DX Ser	+30369	V847 Cyg	+50361	V1063 Cyg
00318	V935 Oph	+30371	V1125 Cyg	+50370*	V592 Cyg
+50394	V1088 Cyg	+60285	V786 Cyg	+60424*	EM Cas
+50427	FW Lac	+60239	V1195 Cyg	+70032	V391 Cas
+50440	GI Lac	+60314	CS Cep	+70033	V393 Cas
+50449	FO Lac	+60315	FZ Cep	+70056	AP Cam
+50460	ES And	+60336	GN Cep	+70102	VX UMa
+50470	GG And	+60366	GR Cep	+70137	AZ Dra
+60015	FZ Cas	+60388	CU Cep	+70170	AX Cep
+60034	HO Cas	+60402	V398 Cyg	+70178	CT Cep
+60045	PP Cas	+60403	V353 Cas	+80005	AG Cep
+60085	PIR Per	+60407	V356 Cas	+80017	WZ Cam
+60101	CS Cas	+60412	DS Cas	+80045	GII Cep
+60198	v UMa				

[Notes on page 3]

- Notes: -30385 Identification with LP Sgr incorrect. 16  
-20483 Identification with V 1661 Sgr incorrect.  
-20492 Identification with V 1680 Sgr incorrect.  
+20444 Identification with V 744 Aql incorrect.  
+20470 Identification with RT Del incorrect.  
+20483 Total brightness of two stars measured, southern component named GU Del, northern component also changes.  
+20486 Identification with FL Vul incorrect.  
+30390 Identification with EQ Cyg incorrect.  
+30484 Identification with RY Peg incorrect.  
+50016, +50370 and +60424 Identification quite probable, but requires further verification.

Furthermore, 475 stars of IRC were identified with stars of two catalogs of stars, the variability of which was suspected [4,5].

## REFERENCES

1. Neugebauer, G. and R. B. Leighton, Two-Micron Sky Survey, a Preliminary Catalog, NASA, Washington, 1969.
2. "Obshiy katalog peremennykh zvezd", General Catalog of Variable Stars, Vol. 3, Moscow, 1971.
3. "57th Name-List of Variable Stars," IBVS No. 480, Budapest, 1970.
4. "Katalog zvezd zapodozrennykh v peremennosti," Catalog of Stars Suspected of Being Variable, Moscow, 1951.
5. "Vtoroy katalog zvezd zapodozrennykh v peremennosti," Second Catalog of Stars Suspected of Being Variable, Moscow, 1965.