

VARIABLE STAR  
BULLETIN

SUMMARY OF THE DATABASE OF VSOLJ  
PART 3 (SER - VUL, NSV STAR, SUPER NOVA  
& VAR. STAR IN MESSIER OBJECT)

Compiled by Seiichi SAKUMA  
2-21-9, Kami-Aso, Asao-ku, Kawasaki 215

STAR NAME	JD 2400000+	NO. OF ESTS.	NO. OF OBSER-VER	STAR NAME	JD 2400000+	NO. OF ESTS.	NO. OF OBSER-VER	STAR NAME	JD 2400000+	NO. OF ESTS.	NO. OF OBSER-VER	STAR NAME	JD 2400000+	NO. OF ESTS.	NO. OF OBSER-VER
R SER 25853 48882	3052	147	1	SV 43543 43537	4	1	1	NZ 47835 47835	1	1	1	V476	47835 47835	1	1
S 23866 48582	317	29	1	SX 47835 47835	1	1	1	OP 47835 47835	1	1	1	V482	48035 48137	8	1
T 23285 48564	145	8	1	SY 45264 48591	25	2	2	OS 47835 47835	1	1	1	V500	47835 47835	1	1
U 22544 48223	128	88	1	SZ 19999 48551	568	2	2	OT 47835 47835	1	1	1	V509	47835 47835	1	1
X 46487 47712	46	2	1	TU 47861 48981	38	1	1	OV 48082 48135	371	4	4	V511	47835 47835	1	1
Z 45838 48233	18	1	1	TV 38292 44337	16	3	3	OW 47835 47835	1	1	1	V512	47835 47835	1	1
NR 38645 38649	2	1	1	TX 39087 44581	9	3	3	OX 47835 47835	1	1	1	V513	47835 47835	1	1
RT 46952 48735	20	2	1	TZ 48206 48322	9	3	3	OY 47835 47835	1	1	1	V519	47835 47835	1	1
RU 46172 48222	5	1	1	UV 48621 48621	1	1	1	OZ 47835 47835	1	1	1	V521	47835 47835	1	1
RX 47260 47260	1	1	1	UZ 45871 48987	114	5	5	PP 47835 47835	1	1	1	V525	47835 47835	1	1
RY 47260 47260	1	1	1	VV 48175 48175	1	1	1	PS 47835 47835	1	1	1	V527	47835 47835	1	1
SK 46180 46180	1	1	1	VX 47029 48885	33	3	3	PT 47835 47835	1	1	1	V528	47835 47835	1	1
LU 37673 48412	6	1	1	VY 45638 48193	78	4	4	PV 47835 47835	1	1	1	V529	47835 47835	1	1
UZ 27048 48412	662	10	1	WW 46025 47282	37	2	2	PX 47835 47835	1	1	1	V530	47835 47835	1	1
VV 46174 48202	91	1	1	XX 47111 47248	4	1	1	PY 47835 47835	1	1	1	V532	47835 47835	1	1
WV 44705 47926	13	4	1	YZ 47835 47835	1	1	1	QQ 47835 47835	1	1	1	V535	47835 47835	1	1
WX 47034 47213	3	2	1	ZZ 46881 48107	2	1	1	QS 47835 47835	1	1	1	V538	47835 47835	1	1
XX 28988 28764	8	1	1	AA 45871 48113	18	1	1	QT 47835 47835	1	1	1	V537	47835 47835	1	1
AI 46180 48222	3	1	1	AB 46025 48952	81	2	2	QU 47835 47835	1	1	1	V541	47835 47835	1	1
AM 46174 48222	4	1	1	AD 44167 44334	7	1	1	QV 47835 47835	1	1	1	V542	47835 47835	1	1
AN 45796 48175	31	1	1	AE 47115 48333	17	3	3	QW 47835 47835	1	1	1	V543	47835 47835	1	1
AO 46172 48222	5	1	1	AF 46027 48094	7	1	1	V339	47835 47835	1	1	V545	47835 47835	1	1
BC 46174 48222	5	1	1	AG 47096 48294	4	2	2	V342	47835 47835	1	1	V551	47835 47835	1	1
BD 46172 48222	4	1	1	AH 43543 43557	4	1	1	V343	47835 47835	1	1	V553	47835 47835	1	1
CD 46174 48222	4	1	1	AI 48175 48175	1	1	1	V345	47835 47835	1	1	V555	47835 47835	1	1
CE 32743 48850	144	6	6	BJ 46108 46854	4	2	2	V346	47835 47835	1	1	V556	47835 47835	1	1
CF 46180 46180	1	1	1	BK 47864 47880	2	1	1	V348	47835 47835	1	1	V557	47835 47835	1	1
CG 47404 48059	22	2	2	BL 35504 48088	1264	43	43	V349	47835 47835	1	1	V566	47835 47835	1	1
CH 46172 48222	5	1	1	BM 46588 40588	1	1	1	V352	47835 47835	1	1	V564	47835 47835	1	1
CI 45845 45920	5	1	1	BN 45670 47587	75	3	3	V355	47835 47835	1	1	V610	47835 47835	1	1
CO 48013 48923	90	4	4	BO 46174 48222	5	1	1	V356	47835 47835	1	1	V618	47835 47835	1	1
CP 40634 41622	474	26	26	BP 45758 48175	32	2	2	V357	47835 47835	1	1	V620	47835 47835	1	1
CQ 45845 45920	5	1	1	CN 48175 48175	1	1	1	V358	47835 47835	1	1	V622	47835 47835	1	1
CR 43857 47712	7	3	3	CO 47851 47851	1	1	1	V359	47835 47835	1	1	V623	47835 47835	1	1
CS 48537 48175	160	2	2	CP 44167 48038	10	3	3	V360	47835 47835	1	1	V627	47835 47835	1	1
CT 46908 48048	116	1	1	CQ 38805 48157	1308	43	43	V361	47835 47835	1	1	V629	47835 47835	1	1
CU 45412 48017	4	3	3	CR 43430 47835	4	2	2	V363	47835 47835	1	1	V630	47835 47835	1	1
CV 47231 48119	136	1	1	CS 45671 48117	30	1	1	V366	47835 47835	1	1	V639	47835 47835	1	1
CD 17405 45208	100	1	1	CG 45871 48117	30	1	1	V368	47835 47835	1	1	V634	47835 47835	1	1
CE 40873 44284	4	1	1	CH 47882 48252	25	2	2	V369	47835 47835	1	1	V641	47835 47835	1	1
CF 42540 48621	69	3	3	CI 45758 48175	32	2	2	V370	47835 47835	1	1	V642	47835 47835	1	1
R SEX 46148 46174	3	1	1	CK 48175 48175	1	1	1	V371	47835 47835	1	1	V644	47835 47835	1	1
S 17563 48088	484	20	20	CL 45671 48084	32	2	2	V372	47835 47835	1	1	V645	47835 47835	1	1
W 49147 46152	21	3	3	CM 46025 46157	9	1	1	V373	47835 47835	1	1	V646	47835 47835	1	1
X 44888 48152	14	2	2	CN 46025 46157	9	1	1	V391	47835 47835	1	1	V649	47835 47835	1	1
Y 44888 48152	2	1	1	CO 47596 47596	1	1	1	V382	47835 47835	1	1	V652	47835 47835	1	1
Z 40870 48152	7	3	3	CP 46025 46157	10	1	1	V386	47835 47835	1	1	V653	47835 47835	1	1
RR 46111 46152	4	1	1	CQ 47835 47835	1	1	1	V390	47835 47835	1	1	V654	47835 47835	1	1
RU 46148 48148	1	1	1	CR 48175 48175	1	1	1	V410	48348 48348	1	1	V657	47835 47835	1	1
RV 46148 48152	2	1	1	CX 45780 48189	33	1	1	V421	47111 47888	8	1	V658	47835 47835	1	1
R TAU 23427 48959	648	90	90	CU 33914 48207	343	5	5	V438	47835 47835	1	1	V660	47835 47835	1	1
S 23427 48680	329	25	25	CV 49875 48333	658	14	14	V440	47835 47835	1	1	V682	47835 47835	1	1
T 27784 48982	3238	79	79	CI 47835 47835	1	1	1	V441	47835 47835	1	1	V684	47835 47835	1	1
U 45708 48175	56	1	1	CK 44518 47913	23	4	4	V442	47835 47835	1	1	V685	47835 47835	1	1
V 28978 48987	531	19	19	CL 45671 48117	33	1	1	V443	47835 47835	1	1	V687	47835 47835	1	1
W 23426 48988	1201	45	45	CM 47835 47835	1	1	1	V444	47835 47835	1	1	V688	47835 47835	1	1
X 17941 48621	120	6	6	CO 47835 47835	1	1	1	V447	47835 47835	1	1	V689	47835 47835	1	1
Y 17951 48691	1434	74	74	CP 47835 47835	1	1	1	V448	47835 47835	1	1	V671	47835 47835	1	1
Z 41886 48593	53	8	8	CQ 47835 47835	1	1	1	V449	47835 47835	1	1	V677	47835 47835	1	1
RR 28562 48603	1626	23	23	CR 47835 47835	1	1	1	V452	47835 47835	1	1	V701	47835 47835	1	1
RS 44218 44248	3	1	1	CS 47835 47835	1	1	1	V453	47835 47835	1	1	V702	47835 47835	1	1
RU 43158 47210	39	4	4	CT 47835 47835	1	1	1	V454	47835 47835	1	1	V712	47835 47835	1	1
RV 32223 48987	2842	51	51	CU 47835 47835	1	1	1	V457	47835 47835	1	1	V713	47835 47835	1	1
RW 46119 48948	7	3	3	CV 47835 47835	1	1	1	V463	47835 47835	1	1	V718	47835 47835	1	1
RX 28807 48983	193	9	9	CX 47835 47835	1	1	1	V464	47835 47835	1	1	V725	47835 47835	1	1
RY 28833 47848	115	8	8	CY 47835 47835	1	1	1	V466	47835 47835	1	1	V739	47835 47835	1	1
SS 48621 48621	1	1	1	CA 47835 47835	1	1	1	V469	47835 47835	1	1	V740	47835 47835	1	1
SU 22554 48988	8008	122	122	CB 47835 47835	1	1	1	V474	47835 47835	1	1	V746	47835 47835	1	1
SV 18406 46157	101	5	5	CC 47835 47835	1	1	1	V475	47835 47835	1	1	V747	47835 47835	1	1

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V750	47835	47835	1	SK	46137	46137	1	BZ	47231	47231	5	PU	45981	48979	2007	32
V751	47835	47835	1	SV	32187	46177	37	CE	46146	47290	12	PW	45909	48187	1542	34
V753	47835	47835	1	TU	33863	46092	4	CF	47233	47233	1	PY	42632	42956	3	2
V757	47835	47835	1	TV	28542	45798	231	CG	46146	46180	3	QQ	46318	46562	8	2
V759	47835	47835	1	TX	40876	46208	116	CI	46813	48563	7	QU	46081	46124	811	18
V760	47835	47835	1	TZ	40360	48850	44	CK	46119	46222	9	QV	47189	48185	475	26
V761	47835	47835	1	UV	42853	46137	3	CL	46146	46183	5	QZ	47391	48116	5	1
V763	47835	47835	1	UX	46474	46850	343	CM	46146	46215	7					
V767	47835	47835	1	UY	42812	42839	3	CP	46146	46215	5					
V785	47835	47835	1	VW	39636	48746	175	CQ	46146	46215	5					
V787	47835	47835	1	VY	35899	48989	1378	CR	46146	46215	8					
V786	47835	47835	1	WV	45845	47645	2	CT	46146	46221	10					
V789	47835	47835	1	WZ	47919	48823	84	DE	48739	48739	1					
V790	47835	47835	1	AX	46087	46632	188	DL	45798	46172	2					
V791	47835	47835	1	AU	44577	44602	9	DM	46146	46194	3					
V793	47835	47835	1	AW	46082	46092	1	DN	46146	46194	3					
V794	47835	47835	1	BC	44216	48823	1550	EQ	46146	46202	3					
V795	47835	47835	1	BE	46915	47284	3	ER	45798	46172	3					
V796	47835	47835	1	BZ	46038	48959	2128	ES	46146	46222	6					
V797	47835	47835	1	CG	46122	46177	4	ET	45798	46172	3					
V800	47835	47835	1	CH	43625	48898	2476	EV	46146	46146	1					
V801	47835	47835	1	CI	46894	46898	426	HS	46576	48632	297					
V801	47835	47835	1	CJ	46147	46177	3	HV	46969	48795	348	13				
V810	47835	47835	1	CT	46321	48321	1	HW	46905	46908	130	2				
V811	47835	47835	1	CY	46836	48984	2130	eta	42507	42539	2	1				
V812	47835	47835	1	DI	46762	48011	20	psi	45798	45798	1	1				
V813	47835	47835	1	DV	46864	48395	81	R VUL	18564	48988	1541	68				
V814	47835	47835	1	DW	47109	47113	24	S	18535	48950	422	18				
V815	47835	47835	1	EG	46814	48188	94	T	17405	48868	823	4				
V845	47835	47835	1	EI	47109	47276	9	U	45188	47467	111	2				
V847	47835	47835	1	EJ	47112	47112	1	V	23744	48897	2181	34				
V848	47835	47835	1	EL	47228	46186	93	W	18535	48961	800	34				
V849	47835	47835	1	delta	41421	41421	1	X	46279	46919	7	1				
V851	47835	47835	1	miu	45464	46373	33	Z	45908	46017	11	2				
V852	47835	47835	1	U MI	28446	46952	1420	RR	46263	46263	16	1				
V853	47835	47835	1	S	18424	48959	2588	RS	18527	45220	14	2				
V855	47835	47835	1	T	28818	48923	650	RT	18526	45267	9	2				
V857	47835	47835	1	U	28606	46988	842	RU	25408	46966	1102	40				
V861	47835	47835	1	V	25555	48958	1778	RV	37754	43455	4	3				
V864	47835	47835	1	X	47086	48875	45	RW	25408	26122	27	1				
V865	47835	47835	1	Y	41964	41965	9	WZ	43526	48906	616	5				
V868	47835	47835	1	RR	42695	46273	14	SS	25407	27398	57	1				
V871	47835	47835	1	RU	39769	47561	29	SV	40044	48950	201	14				
V873	47835	47835	1	RW	47284	47284	1	SW	46650	48117	21	3				
V875	47835	47835	1	SS	46484	48883	690	SX	25409	28513	68	1				
V882	47835	47835	1	alpha	48924	48924	1	SZ	25415	47323	24	2				
V886	47835	47835	1	beta	43462	43462	1	TT	23750	47326	37	3				
V889	47835	47835	1	V	43462	43462	1	TU	25415	27427	52	1				
V877	47835	47835	1	AH	43923	43937	8	TW	47323	47323	1	1				
V1193	46175	46175	1	AJ	47228	47246	3	TY	47398	48959	5	2				
alpha	47830	46175	3	R VIR	18687	48961	4049	UZ	46528	47773	15	3				
delta	42805	46976	80	S	22778	48863	982	VZ	46557	48918	11	2				
lambda	17443	47851	401	T	28722	48769	167	VV	41320	41339	2	1				
R TRI	24051	48987	5920	U	28665	48959	707	VW	44909	48983	916	8				
S	44122	46976	336	V	26140	48889	324	VX	25443	27427	30	1				
T	35039	46362	11	W	18667	48739	138	VY	41957	42001	2	1				
V	47801	47801	1	X	45798	46474	5	VZ	33526	46935	89	12				
W	34000	48987	425	Y	28666	48689	249	WW	28721	48979	872	10				
X	46042	47506	31	Z	29046	48930	81	WX	25473	27414	41	1				
Y	47412	47918	26	RR	42550	46395	87	XY	47318	47318	1	1				
Z	47955	47059	1	RS	28865	48958	465	YY	47318	47318	1	1				
RW	46472	47564	249	RT	18867	46183	193	YZ	42622	46924	22	5				
SU	41734	41738	3	RU	28605	48774	476	AW	46262	46262	15	1				
TU	47412	47001	3	RV	28756	48446	41	BD	25415	48923	632	15				
TW	46847	48130	260	RW	17951	48863	401	BE	46149	47348	21	1				
TX	46622	48655	284	RX	17951	48860	221	BS	46262	46263	29	1				
UW	47059	47071	2	RZ	46146	48709	8	BU	46262	46263	38	1				
UZ	47381	46603	53	SS	27930	48888	1593	CK	47323	47679	3	2				
WY	47381	48603	51	SU	22753	48880	208	CT	47071	48537	14	2				
R UMA	23271	48988	4721	SV	41028	47295	26	DF	47801	47801	1	1				
T	18057	48988	5122	SW	26904	46183	245	DO	47433	46827	34	1				
U	22753	48988	4692	SY	43281	48597	22	DQ	47801	47801	1	1				
V	17498	47649	116	TW	28573	48988	2057	DT	47329	47348	2	1				
W	18857	48988	1027	TY	28863	30116	87	DY	40851	48988	395	23				
X	17379	48260	89	TZ	44689	48745	28	FR	46262	46263	29	1				
Y	23474	48988	201	UU	46146	46233	146	FV	46549	46926	63	3				
Z	18040	48988	3006	UV	46185	46185	1	HW	47801	47801	1	1				
RR	42436	48958	209	UY	48007	48405	13	HQ	47801	47801	1	1				
RS	22542	48959	2725	VY	46146	46172	2	IL	46972	47071	4	1				
RT	17630	33376	128	WZ	44691	48927	29	IT	47318	47318	1	1				
RU	19160	48988	189	YY	44691	46296	21	IU	47318	47318	1	1				
RV	46137	46137	1	AA	48739	48739	1	IZ	47677	47677	1	1				
RX	17687	19183	61	AE	44691	44723	7	IJ	48504	48111	2	2				
RY	24612	48767	470	AH	46119	46198	95	IV	39863	46111	755	35				
RZ	28598	48036	88	AL	46146	46222	6	IY	47318	47318	1	1				
ST	28244	48900	871	AO	42495	46222	16	IZ	47318	47318	1	1				
SU	27780	48959	3954	AP	11691	46215	11	MQ	43145	48955	445	18				
SV	19029	48823	186	BQ	48146	46202	20	OY	41978	41985	2	1				
SW	41264	48988	2667	BG	46146	46215	6	OZ	48822	48822	1	1				
				BH	46146	46940	18	PQ	48822	48822	1	1				

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BEGIN	END			BEGIN	END			BEGIN	END			BEGIN	END			
NSV00006	47835	2	1	NSV02536	47835	1	1	NSV13347	47835	1	1	SN 1861	37465	37465	1	
NSV00018	47835	2	1	NSV02539	47835	1	1	NSV13348	47835	1	1	SN 1872	41468	41437	11	
NSV00030	48184	48591	14	NSV02541	47835	1	1	NSV13356	47835	1	1	SN 1965A	46477	46481	2	
NSV00193	48703	48956	256	NSV02544	47835	1	1	NSV13370	47835	1	1	SN 1966F	46549	46550	2	
NSV00248	47835	1	1	NSV02554	47835	1	1	NSV13379	47835	1	1	SN 1966I	46578	46578	1	
NSV00264	47835	1	1	NSV02559	47835	1	1	NSV13380	47835	1	1	SN 1968M	46790	46790	1	
NSV00277	47835	1	1	NSV02572	47835	1	1	NSV13381	47835	1	1	SN 1987D	46919	47560	2	
NSV00284	47835	1	1	NSV02577	47835	1	1	NSV13382	47835	1	1	SN 1987D	46919	46919	1	
NSV00308	47824	47856	3	NSV02578	47835	1	1	NSV13383	47835	1	1	SN 1987E	46913	46940	6	
NSV00312	47835	1	1	NSV02579	47835	1	1	NSV13384	47835	1	1	SN 1987F	46913	46919	3	
NSV00313	47835	1	1	NSV02580	47835	1	1	NSV13391	45560	45581	2	1	SN 1987H	46917	46920	4
NSV00367	47823	1	1	NSV02581	47835	1	1	NSV13395	47835	1	1	SN 1988A	47184	47200	15	
NSV00398	48322	48980	220	NSV02584	47835	1	1	NSV13397	47835	1	1	SN 1988R	47402	47404	2	
NSV00447	48569	48928	5	NSV02586	47835	1	1	NSV13402	47835	1	1	SN 1989B	47559	47833	79	
NSV00637	48600	48603	2	NSV02672	45394	45402	2	NSV13405	47835	1	1	SN 1989I	47721	47733	3	
NSV00660	48201	48227	3	NSV03005	47543	1	1	NSV13407	47835	1	1	SN 1991T	48367	48418	39	
NSV00895	48108	48603	14	NSV03032	45584	46470	153	NSV13409	47835	1	1	U2 V6	47025	47137	33	
NSV00905	47045	47071	3	NSV03230	47899	47970	4	NSV13413	47835	1	1	U2 V7	47025	47057	4	
NSV00987	47824	47856	3	NSV03434	48530	47597	4	NSV13414	47835	1	1	U2 V11	46286	48968	354	
NSV01020	48125	48682	48	NSV04945	45464	46153	2	NSV13415	47835	1	1	U3 V4	46233	48664	331	
NSV01077	48564	48906	38	NSV04989	47957	48654	56	NSV13430	45591	1	1	U3 V101	46973	47006	7	
NSV01096	47844	48987	178	NSV05034	47957	48654	54	NSV13431	47835	1	1	U3 V102	46442	46444	4	
NSV01238	47835	1	1	NSV05035	47957	48654	54	NSV13432	47835	1	1	U3 V103	47419	47419	1	
NSV01239	47835	1	1	NSV05044	47957	48613	57	NSV13445	47835	1	1	U3 V104	47052	47346	3	
NSV01241	47835	1	1	NSV05052	45463	45798	3	NSV13460	47835	1	1	U3 V105	47053	47348	3	
NSV01247	47835	1	1	NSV05447	48005	48037	2	NSV13461	47835	1	1	U3 V106	47053	47348	3	
NSV01249	47835	1	1	NSV05518	48038	48046	3	NSV13479	47835	1	1	U3 V107	47053	47348	3	
NSV01250	47835	1	1	NSV05527	45464	46153	4	NSV13479	47835	1	1	U3 V108	47053	47348	3	
NSV01251	47835	1	1	NSV05534	48038	48045	11	NSV13479	47835	1	1	U3 V109	47053	47348	3	
NSV01256	47835	1	1	NSV05543	47214	48798	8	NSV13483	47835	1	1	U3 V110	47053	47348	3	
NSV1268	47835	1	1	NSV05564	46215	1	1	NSV13483	47835	1	1	U3 V111	47053	47348	3	
NSV1269	47835	1	1	NSV05565	45464	46153	5	NSV13483	47835	1	1	U3 V112	47053	47348	3	
NSV1276	47835	1	1	NSV05571	46194	46233	72	NSV13483	47835	1	1	U3 V113	47053	47348	3	
NSV1278	47835	1	1	NSV06208	45464	46153	5	NSV13504	48185	1	1	U3 V114	47053	47348	3	
NSV01281	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V115	47053	47348	3
NSV01286	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V116	47053	47348	3
NSV01289	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V117	47053	47348	3
NSV01287	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V118	47053	47348	3
NSV01300	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V119	47053	47348	3
NSV01301	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V120	47053	47348	3
NSV01304	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V121	47053	47348	3
NSV01309	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V122	47053	47348	3
NSV01311	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V123	47053	47348	3
NSV01312	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V124	47053	47348	3
NSV01313	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V125	47053	47348	3
NSV01317	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V126	47053	47348	3
NSV01329	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V127	47053	47348	3
NSV01336	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V128	47053	47348	3
NSV01344	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V129	47053	47348	3
NSV01346	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V130	47053	47348	3
NSV01347	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V131	47053	47348	3
NSV01350	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V132	47053	47348	3
NSV01352	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V133	47053	47348	3
NSV01353	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V134	47053	47348	3
NSV01355	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V135	47053	47348	3
NSV01356	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V136	47053	47348	3
NSV01358	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V137	47053	47348	3
NSV01360	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V138	47053	47348	3
NSV01361	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V139	47053	47348	3
NSV01362	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V140	47053	47348	3
NSV01365	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V141	47053	47348	3
NSV01367	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V142	47053	47348	3
NSV01368	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V143	47053	47348	3
NSV01374	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V144	47053	47348	3
NSV01376	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V145	47053	47348	3
NSV01377	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V146	47053	47348	3
NSV01379	47835	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V147	47053	47348	3
NSV01448	48276	48207	4	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V148	47053	47348	3
NSV01488	48263	48591	14	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1	U3 V149	47053	47348	3
NSV01671	48950	1	1	NSV06208	45464	46153	5	NSV13509	48143	48591	12	1				

THE 3RD GENERAL MEETING  
OF  
VARIABLE STAR OBSERVERS LEAGUE IN JAPAN

The 3rd general meeting of VSOLJ was held on August 22 and 23, 1992 at Ogawamura Observatory by courtesy of honorary director Mr. Yoshio Sakai, director Mr. Yoshihito and Masahito Sakai of the observatory. The observatory is situated at the site of 1000 meter heights, 25 km apart from Nagano city, and has 80 cm reflector and CCD cameras.

26 members attended. The activities after the 2nd meeting (Feb. 1991) were reported as follows:

- (1) Completion of MIRA (Million data Input, Reduction and Archiving) Project
- (2) Issue of VSOLJ Bulletin Nos. 13 - 15.
- (3) Issue of "Light Curves of Variable Stars by VSOLJ 2. Cataclysmic Variable Stars etc. for JD 2447000 - 24480000"
- (4) Announce of Predicted Dates of Max. and Min. of Long Period and Semi-Regular Type Variables Derived from the Recent Observation of VSOLJ.
- (5) Scientific Collaboration with Astronomers.
  - 1) Fukushima Univ. (RZ Cas)
  - 2) Dohdaira Observatory (M type variables)
  - 3) Tokyo Univ. (T Tau type variables)
  - 4) HIPPARCOS Project
- (6) Computer Software Development for Variable Star Observation

After the meeting, some members carried out observation of X-ray Nova GROJ 0422+32 by telescope and CCD camera.

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VARIABLE STAR OBSERVERS LEAGUE  
IN JAPAN

NATIONAL SCIENCE MUSEUM  
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