

VARIABLE STAR  
BULLETIN

No. 16

May 1993

SUMMARY OF THE DATABASE OF VSOLJ  
PART 1 ( AND - FOR )

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2-21-9, Kami-Aso, Asao-ku, Kawasaki 215

The computer readable database of variable star observation in Japan has completed by many members of VSOLJ under supervising of Archiving Committee (Chairman : Seiichiro Kiyota ) after several years efforts. The outline of the database was announced at the 1991 fall meeting of the Astronomical Society of Japan. Total number of the observation carried out between 1906 and 1990 is more than 1,000,000.

About 4000 observations monthly reported by the active 50 members of VSOLJ are computerized, processed and added regularly to the data files on each star which contain individual observations of visual magnitude estimates in order of Julian date. At the same time, error checking of the database is continuing. After finishing error correction, we are considering to deliver the data in diskettes upon request.

In order to inform the contents of the database, summary ( as of the end of 1992 ) is compiled.

Column 1 of the table shows the name of variable star. The name of constellation is omitted except the first star of the constellation. Database contains many observations of suspected variables. Most of them are the comparison stars for the registered variables. These kind of stars are omitted from the table. As far as suspected variables concerned, table contains only those in the New Catalogue of Suspected Variable Stars ( NSV ) and those have Bayer and Flamsteed notation in the GCVS 4th ed. Vol.4. Consequently, for instance AS, PG, and FBS stars and some QSO and Seyfert Galaxy are omitted from the table. Under error checking is the reason why these stars are omitted.

Column 2 and 3 gives the Julian date of the begin and the end of observation respectively, omitting the first two digits (24).

Column 4 gives the total number of estimation.

Column 5 gives the number of observers.

Japanese first observation of variable star was carried out by Dr. Naozo Ichinohe in 1906 at Yerkes Observatory in USA. This is the first time to record his individual observation. (10969 estimations, 1906-1911). The record of the observation carried out by successive pioneer observer such as M. Yamasaki (1262, 1914-42), I. Yamamoto (746, 1920-24), S. Kanda (98, 1920-23), K. Nakamura (1517, 1921-30) is not remained in Japan. Their observation was reported to AAVSO until Japanese organization starts to accept variable star observation. By courtesy of AAVSO, we add their data to the database in order to record the pioneers observation. We would like to express our sincere thanks to Dr. J.A. Mattei, director of AAVSO.

STAR NAME	ID	NO. OF OBSERVATIONS	NO. OF ESTIMATES	STAR NAME	ID	NO. OF OBSERVATIONS	NO. OF ESTIMATES	STAR NAME	ID	NO. OF OBSERVATIONS	NO. OF ESTIMATES	STAR NAME	ID	NO. OF OBSERVATIONS	NO. OF ESTIMATES	
R AND	22673	48987	5111	AZ	42660	42685	4	VI289	47326	48556	5	beta	44981	48903	12	
T	23743	48982	925	BT	46340	46340	1	VI290	46941	48926	117	epsilon	17437	48988	3622	
U	23704	48982	204	BZ	43163	43500	23	VI292	48590	48509	287	psi	43186	48974	2	
W	23279	48987	1827	CV	45973	48868	399	VI302	46276	48924	475	pi	39832	48983	25	
X	28638	48982	362	CX	46261	47040	14	VI315	46649	48956	79	psi	35132	48930	232	
Y	17586	48982	635	DS	47620	46528	29	VI339	47364	47437	3	psi	39011	48947	73	
Z	23267	48988	4970	DV	45193	48942	43	VI341	48947	47474	157	delta	31547	48976	170	
RR	28537	48982	280	DX	45193	45194	2	VI370	45002	47762	18	R BOO	18528	48988	4252	
RS	24520	48987	1033	EG	47024	48953	16	VI376	48301	48187	410	S	22542	48967	1403	
RT	39859	47450	124	EY	47024	47030	2	VI378	47803	48116	3	T	46141	48950	627	
RU	28951	48982	411	EV	47053	47829	3	VI407	46585	47364	56	U	22580	48983	449	
RV	28630	46140	100	FO	46723	48923	38	VI412	47445	47445	1	V	18859	48984	4457	
RW	38943	48675	387	HL	47382	47423	2	VI877	43221	43221	1	W	39626	48957	444	
RX	19159	48988	7064	V450	41534	41534	1	VIARA	42371	42378	5	X	46148	46215	5	
RY	45258	47939	69	kh	46937	46445	75	AE	47364	47364	1	Y	29340	45845	6	
RZ	30448	48959	18	R AQL	22569	48928	3140	AT	47364	47364	1	Z	29018	48958	187	
SA	39848	46011	25	S	22560	46074	942	BF	47364	47364	1	RR	17584	48923	444	
SB	20160	18194	136	T	11814	45988	79	R ART	22701	48988	3029	RS	46146	46458	53	
SC	45223	45922	1	U	17405	47732	392	S	28156	48983	78	RT	41122	48923	312	
SD	17806	48923	331	V	8516	46986	1740	S	18704	48960	2441	RV	28609	48975	138	
SE	47182	47479	10	W	38115	48922	194	U	28978	48923	688	RW	28608	48975	78	
SF	40565	48285	87	X	24474	48896	426	V	40924	41276	6	RX	38547	48983	299	
SG	43461	43486	2	Y	43278	47437	1	W	41592	48586	13	RY	28688	48921	17	
SH	28732	48753	147	Z	35367	48952	358	W	46018	46157	5	RZ	44049	46215	11	
SI	29259	48982	1111	RR	43400	48920	213	RR	24408	48984	281	AA	46146	46184	7	
SJ	18186	48144	813	RR	23744	48186	86	R	48161	48167	9	AB	47712	48885	50	
SK	41745	42859	7	T	24005	48920	470	RX	27771	28425	95	AD	46146	46184	7	
SL	48140	48192	4	RU	40149	48844	178	RZ	42727	48987	271	AE	46146	46184	7	
SM	28939	48977	289	RU	21827	48952	275	SU	47419	48187	33	AF	46146	46184	7	
SN	28732	45220	17	RZ	22991	46272	53	SV	46496	48986	666	AG	46146	46184	7	
SO	45194	48987	209	RZ	47623	48507	2	SV	41357	48944	922	AH	46146	46184	7	
SP	47075	48975	85	RZ	47623	48507	2	TT	47507	47506	1	AI	46146	46184	7	
SQ	48909	48909	202	RZ	47623	48507	2	TX	39811	48984	86	AJ	46146	46184	7	
SR	23704	48982	202	SV	48526	48175	20	VK	42388	43582	22	AK	46146	46184	7	
SS	42503	47593	1	SY	43400	48944	105	alpha	42388	43582	22	AL	46146	46184	7	
ST	39137	48982	50	SY	17728	48920	181	B AHR	20130	48987	2342	AM	46146	46184	7	
SV	28687	48976	203	TU	44750	48118	8	T	38877	48185	9	AN	46146	46184	7	
SW	48231	48827	2	TV	44622	44622	1	U	25206	48987	536	AO	46146	46184	7	
SX	28732	48974	29	TV	43361	48938	73	V	18745	48987	745	AP	46146	46184	7	
SY	46722	46722	2	UV	27719	48948	2823	W	18029	48987	2587	AQ	46146	46184	7	
SZ	44101	44948	217	UV	39428	39857	41	X	17951	48157	34	AR	46146	46184	7	
TA	46017	46081	5	VW	40149	43453	85	Y	17951	48157	34	AS	46146	46184	7	
TB	26223	48955	196	VY	41957	41857	1	Z	42310	48983	318	AT	46146	46184	7	
TC	47042	47835	18	XY	46968	48835	3	RS	28485	48988	130	AV	46146	46184	7	
TD	47022	47858	5	AA	46286	46383	210	R	17938	48982	626	AW	46146	46184	7	
TE	45932	48903	5	AD	46274	46406	27	RU	35887	48746	126	AX	46146	46184	7	
TF	47742	47812	30	AE	38286	38887	5	RV	46973	46157	1	AY	46146	46184	7	
TG	28139	48983	75	AF	47326	48928	1	RW	48984	48987	3695	AZ	46146	46184	7	
TH	43147	48988	2350	AG	46952	48841	22	RX	45938	46111	9	BA	46146	46184	7	
TI	43400	48958	11	AH	47328	48795	14	RY	19125	48988	10600	98	BB	28688	48987	357
TJ	48150	48988	15	AI	46951	46581	1	S	18788	48982	27	BC	46146	46184	7	
TK	43147	48975	193	AL	48004	48948	818	SU	45938	48952	490	BD	46146	46184	7	
TL	48276	48276	1	AM	48115	48115	2	SV	26833	48988	637	BE	46146	46184	7	
TM	45220	48955	9	AN	46581	46581	1	SW	25499	48948	34	BF	46146	46184	7	
TN	44514	48923	223	AO	26154	47782	12	SY	48982	46157	4	BG	46146	46184	7	
TO	44167	44309	8	AP	44049	48986	32	SK	46982	46157	4	BH	46146	46184	7	
TP	45258	48982	112	AQ	44487	48926	192	SL	46009	48984	12	BI	46146	46184	7	
TQ	46017	46017	8	AR	40321	48928	78	SM	45938	47581	43	BJ	46146	46184	7	
TR	46017	46017	8	AS	48281	48566	310	TU	28490	46157	130	BK	46146	46184	7	
TS	47075	48988	56	AT	42612	42747	35	TV	18383	48982	53	BL	46146	46184	7	
TT	42013	42013	1	AV	48416	48924	10	TX	18383	48982	53	BM	46146	46184	7	
TU	43147	48988	2256	AW	47404	47404	1	TY	18383	48982	53	BN	46146	46184	7	
TV	41537	48982	111	AX	47404	47404	1	UZ	24114	48982	143	BO	46146	46184	7	
TV	42013	48206	2	AY	48038	48038	1	UV	25536	48987	589	BP	46146	46184	7	
W	46017	46017	1	AZ	48038	48038	1	VW	18181	46157	578	BQ	46146	46184	7	
WA	48777	48987	574	BA	47760	47760	1	WX	18181	46157	578	BR	46146	46184	7	
WB	48017	48917	1	BB	47760	47760	1	XY	46025	46157	7	BS	46146	46184	7	
WC	44513	48982	190	BC	47760	47760	1	YZ	48084	48872	2	BT	46146	46184	7	
WD	47098	47173	4	BD	47760	47760	1	VX	44441	48982	314	BU	46146	46184	7	
WE	47088	48988	42	BE	45220	45948	101	VY	28684	48988	654	BV	46146	46184	7	
WF	46731	48988	574	BF	49340	47161	10	VZ	46515	47125	4	BW	46146	46184	7	
WG	46731	48988	916	BG	28695	43993	53	AA	33004	48624	313	BY	46146	46184	7	
WH	46731	48988	114	BH	48245	47085	5	AB	26597	30073	5	BZ	46146	46184	7	
WI	45220	48956	195	BI	48004	48119	159	AC	28507	48988	54	CA	46146	46184	7	
WJ	46275	46317	341	BJ	48587	48587	1	AD	28862	29503	37	CB	46146	46184	7	
WK	47835	47835	1	BK	48587	48587	1	AE	25532	48988	143	CC	46146	46184	7	
WL	47835	47835	1	BL	48587	48587	1	AF	23704	48988	589	CD	46146	46184	7	
WM	46386	48953	488	BM	28704	30315	180	AG	28841	48566	11	CE	46146	46184	7	
WN	47835	47835	1	BN	40083											

STAR NAME	JD	NO. OF ESTS.	NO. OF OBSERVATIONS	STAR NAME	JD	NO. OF ESTS.	NO. OF OBSERVATIONS	STAR NAME	JD	NO. OF ESTS.	NO. OF OBSERVATIONS	STAR NAME	JD	NO. OF ESTS.	NO. OF OBSERVATIONS
DW	47122	47122	1	DK	47835	47835	1	FF	48208	48275	24	Z	23906	48970	2765
EG	45344	48748	615	EN	47835	47835	1	FX	48114	48114	1	RR	35430	47835	22
FR	40280	40284	1	EP	47835	47835	1	FZ	45904	45904	1	RS	25028	48988	2378
R CVN	26058	48959	1283	EQ	45559	48849	126	GK	45584	48418	314	RT	23423	48988	5289
S	46137	46144	4	ES	47835	47835	1	IV	41145	48117	251	RU	18514	48987	1524
T	23301	48959	397	EV	47835	47835	1	MO	45903	48980	286	RV	28536	48986	430
U	41039	48988	241	EW	47835	47835	1	OR	48202	48591	11	RW	23415	48374	804
V	23808	48988	71	EX	43401	43404	2	V959	47835	47835	1	RK	45194	47031	2
W	18070	18182	7	GY	47030	48603	62	V962	46185	48987	314	RY	28726	48119	18
X	23994	48988	1706	GZ	44218	48988	2391	beta	41533	41533	1	RZ	27723	48798	288
Y	36330	36349	4	HT	47006	47322	15	delta	17405	48924	1941	SS	18710	48988	23329
RS	44589	48678	115	IJ	41728	48987	372	epsilon	39698	39721	4	ST	28456	48823	391
RN	46149	46149	1	IZ	47381	48115	38	mu	17405	48983	2783	SU	18006	48950	387
RY	46137	48578	9	KN	46796	48798	1	niu	38688	38721	3	SV	23241	48893	76
RU	46137	48578	9	KO	46708	46826	15	R CET	25172	48588	1453	SW	47831	47031	1
TU	40303	48988	1050	KU	43147	48986	1407	S	28509	48982	440	SX	28867	48746	420
TX	42788	42846	7	KV	47381	48115	38	T	17444	48883	3604	SY	28543	28543	1
TY	44889	48928	468	KW	47381	48115	38	U	18705	48983	329	SZ	20160	47031	10
UZ	47712	47712	1	LY	47835	47835	1	V	42344	48982	137	TT	25209	48923	1681
VY	46137	48578	9	LN	46820	46820	1	W	25528	48840	377	TU	27597	48881	1486
R CMA	17998	48935	282	LO	47835	47835	1	X	22415	48982	1005	TV	20160	47031	13
Z	32273	37755	12	LP	46184	48901	33	Y	23380	28711	28	TW	44544	48564	156
SS	44609	47835	352	MP	47096	47156	4	Z	28867	48926	447	TX	41720	47835	8
SS	45057	48988	96	PQ	47096	47835	5	RS	30640	48961	700	TY	18535	48983	340
SS	28531	28834	39	QR	47835	47835	1	RT	40448	40449	2	TZ	28480	48892	333
TY	44889	48988	109	QU	47835	47835	1	TV	27751	48958	100	UZ	47748	47748	1
TX	18586	28560	49	QV	47835	47835	1	TW	28549	30019	174	VU	47031	47031	1
TY	44889	48988	109	QW	47835	47835	1	TZ	47474	48821	37	VV	26170	48974	366
UZ	44931	47180	145	QX	47835	47835	1	V	35046	48207	918	WX	40531	48982	32
VY	44889	48974	224	V374	47835	47835	1	VX	28507	28850	68	XY	45184	45117	3
WV	28526	48988	119	V375	47835	47835	1	VY	28589	29884	77	YZ	47031	47031	1
XX	47109	47882	7	V442	46223	48186	339	W	45268	48988	483	AA	47031	47031	1
YY	44889	48974	224	V443	46223	48186	339	WX	45822	48852	1735	ZZ	47031	47031	1
AA	47031	47031	1	V444	46223	48186	339	WV	47474	47477	2	alpha	17405	48988	11356
AB	47031	47031	1	V445	46223	48186	339	WY	47474	47477	2	R COL	45287	48978	94
AC	47031	47031	1	V446	46223	48186	339	XA	47835	48981	387	S	45349	48988	138
AD	47031	47031	1	V447	46223	48186	339	XB	47835	48981	387	S	23625	48988	483
AE	47031	47031	1	V448	46223	48186	339	XC	47835	48981	387	RR	32128	48822	40
AF	47031	47031	1	V449	46223	48186	339	XD	47835	48981	387	TV	46734	47855	34
AG	47031	47031	1	V450	46223	48186	339	XE	47835	48981	387	R COW	46177	46177	1
AH	47031	47031	1	V451	46223	48186	339	XF	47835	48981	387	T	46177	46177	1
AI	47031	47031	1	V452	46223	48186	339	XG	47835	48981	387	W	47181	48796	71
AJ	47031	47031	1	V453	46223	48186	339	XH	47835	48981	387	SW	46177	46177	1
AK	47031	47031	1	V454	46223	48186	339	XI	47835	48981	387	SY	46177	46177	1
AL	47031	47031	1	V455	46223	48186	339	XJ	47835	48981	387	TV	46177	46177	1
AM	47031	47031	1	V456	46223	48186	339	XK	47835	48981	387	U	46177	46177	1
AN	47031	47031	1	V457	46223	48186	339	XL	47835	48981	387	AL	44389	48988	553
AO	47031	47031	1	V458	46223	48186	339	XM	47835	48981	387	AS	43235	48988	86
AP	47031	47031	1	V459	46223	48186	339	XN	47835	48981	387	AT	48532	48798	92
AQ	47031	47031	1	V460	46223	48186	339	XO	47835	48981	387	GP	47182	48938	7
AR	47031	47031	1	V461	46223	48186	339	XP	47835	48981	387	IM	47849	47849	1
AS	47031	47031	1	V462	46223	48186	339	XQ	47835	48981	387	R CRA	47364	47364	1
AT	47031	47031	1	V463	46223	48186	339	XR	47835	48981	387	S	28008	47364	3
AV	47031	47031	1	V464	46223	48186	339	XS	47835	48981	387	U	47364	47757	2
AW	47031	47031	1	V465	46223	48186	339	XT	47835	48981	387	V	27683	48917	68
AX	47031	47031	1	V466	46223	48186	339	XU	47835	48981	387	W	47364	47364	1
AY	47031	47031	1	V467	46223	48186	339	XV	47835	48981	387	AM	47364	47364	1
AZ	47031	47031	1	V468	46223	48186	339	XW	47835	48981	387	AN	47364	47364	1
BA	47031	47031	1	V469	46223	48186	339	XX	47835	48981	387	AO	47364	47364	1
BB	47031	47031	1	V470	46223	48186	339	XY	47835	48981	387	AP	47364	47364	1
BC	47031	47031	1	V471	46223	48186	339	Y	47835	48981	387	AQ	47364	47364	1
BD	47031	47031	1	V472	46223	48186	339	alpha	17405	48988	11356	AR	47364	47364	1
BE	47031	47031	1	V473	46223	48186	339	beta	41533	41533	1	AS	47364	47364	1
BF	47031	47031	1	V474	46223	48186	339	gamma	30893	48987	3968	AT	47364	47364	1
BG	47031	47031	1	V475	46223	48186	339	delta	17405	48988	11356	AV	47364	47364	1
BH	47031	47031	1	V476	46223	48186	339	epsilon	39698	39721	4	AW	47364	47364	1
BI	47031	47031	1	V477	46223	48186	339	zeta	24294	39990	10	AX	47364	47364	1
BJ	47031	47031	1	V478	46223	48186	339	eta	30893	48987	3968	AY	47364	47364	1
BK	47031	47031	1	V479	46223	48186	339	theta	45292	48798	15	BA	47364	47364	1
BL	47031	47031	1	V480	46223	48186	339	iota	42272	42290	2	BB	47364	47364	1
BM	47031	47031	1	V481	46223	48186	339	kappa	30893	48987	3968	BC	47364	47364	1
BN	47031	47031	1	V482	46223	48186	339	lambda	42272	42290	2	BD	47364	47364	1
BO	47031	47031	1	V483	46223	48186	339	mu	39977	48887	2337	BE	47364	47364	1
BP	47031	47031	1	V484	46223	48186	339	nu	45987	48938	408	BF	47364	47364	1
BQ	47031	47031	1	V485	46223	48186	339	xi	41948	48988	113	BG	47364	47364	1
BR	47031	47031	1	V486	46223	48186	339	omicron	17495	48988	11356	BH	47364	47364	1
BS	47031	47031	1	V487	46223	48186	339	pi	23911	48794	1381	BI	47364	47364	1
BT	47031	47031	1	V488	46223	48186	339	rho	29372	30143					

STAR NAME	JD 2400000+	NO. OF OBSERVATIONS	STAR NAME	JD 2400000+	NO. OF OBSERVATIONS	STAR NAME	JD 2400000+	NO. OF OBSERVATIONS	STAR NAME	JD 2400000+	NO. OF OBSERVATIONS
LX	48550 48989	138 5	V632	46549 48953	623 11	V1492	47748 47835	2 1	SZ	48882 48882	1 1
LY	48550 48889	89 1	V650	48733 48753	1 1	V1494	47835 47835	1 1	TW	28834 28776	2 2
LP	48550 47098	5 2	V680	47002 48778	95 3	V1495	47835 47835	1 1	TX	42370 43250	2 2
HR	47073 47098	5 1	V688	47414 47414	1 1	V1497	47835 47835	1 1	UY	46282 46282	1 1
MS	46550 47096	3 1	V788	48017 48017	1 1	V1500	42654 48287	1403 54	UZ	48582 48582	1 1
NW	47748 47748	1 1	V791	47031 47031	1 1	V1509	47005 48586	29 3	YY	46288 46288	5 1
NT	47058 48186	9 1	V799	48776 46776	1 1	V1511	47053 47405	10 1	AZ	48208 48219	2 1
NW	47059 48186	8 1	V732	47031 47031	1 1	V1515	43505 48922	337 11	AG	42334 42334	1 1
OX	47762 47762	1 1	V747	48515 48926	1 1	V1531	47748 47748	1 1	CI	44897 47721	2 1
PV	38216 38227	2 2	V751	43805 48908	391 8	V1532	47748 47748	1 1	CT	42281 48983	748 25
PX	47037 47037	1 1	V782	47835 47835	1 1	V1533	47835 47835	1 1	DH	42254 42313	3 1
QZ	47837 48790	2 1	V788	47031 47031	1 1	V1536	47835 47835	1 1	ER	48012 48219	14 1
V947	47835 47835	1 1	V778	47835 47835	1 1	V1537	47835 47835	1 1	ES	48119 48882	12 2
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V953	47835 47835	1 1	V792	48918 48117	242 2	V1550	47835 47835	1 1	FF	48340 48348	3 1
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V963	27332 40584	48 4	V840	45832 48888	27 4	V1563	47031 47031	1 1	alpha	39736 40383	59 4
V967	45186 48384	122 1	V841	46920 48923	278 5	V1565	47031 47031	1 1	epsilon	39775 40383	22 2
V969	40491 48902	269 7	V847	47108 47108	1 1	V1565	47031 47031	1 1	et	39775 40383	22 2
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V982	45932 47748	12 2	V901	47748 47748	1 1	V1566	47031 47031	1 1	S	18424 48976	1845 98
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V514	47835 47835	1 1	V1173	46874 48754	27 2	V1770	47031 47031	1 1	AI	48038 48066	6 1
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V574	47031 47031	1 1	V1329	43374 46979	1272 17	gamma	40633 48333	51 1	AY	48989 48037	212 1
V575	47031 47031	1 1	V1330	44140 48953	140 5	ks	45487 46386	51 1	AZ	48989 48037	212 1
V576	47031 47835	2 1	V1331	45225 48802	91 9	rho	48817 48817	2 1	BA	4	