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BAV results of observations 2024: Visual maxima and minima of variable stars

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Abstract: *In this 102nd compilation of BAV results, visual observations of variable stars, obtained primarily in the year 2024, are presented, providing 113 maxima and 56 minima of eclipsing binaries, pulsating and eruptive stars.*

We present 113 maxima and 56 minima of selected variable stars. The observations were obtained by six amateur astronomers based in Germany, with most observations conducted in 2024. The observations were made at private observatories.

For access to all related BAV publications, refer to [1].

This paper contains only unpublished observations. The types of the variable stars are taken from the GCVS-catalog [2]:

Table 1: Explanation of the table columns

column 1	Variable	designation from the GCVS
column 2		constellation
column 3	Ext	phase: maximum (max) or (primary) minimum (min)
column 4	HJD 24.....	heliocentric UTC timings of the observed max or min
column 5	U	if HJD uncertain, marked with „ : “
column 6	Mag	visual magnitude, if determined
column 7	Obs	abbreviations (see reference table)
column 8	Type	type of the variable star
column 9	n	The number of observations in a light curve that were used to determine a maximum or minimum.

Table 2: Times of minima and maxima

Variable	Cons	Ext	HJD 24+	U	Mag	Obs	Type	n
W	And	max	60192		8.0	VOH	M	31
R	And	max	60369		6.6	VOH	M	26
AQ	And	min	60122		8.7	VOH	SRB	44
AQ	And	max	60244		7.5	VOH	SRB	50
AQ	And	min	60448		9.0	VOH	SRB	47
R	Aql	max	60477	:	6.2	SM	M	22
R	Aql	min	60091		10.4	VOH	M	57
R	Aql	max	60217		6.1	VOH	M	52
R	Aql	max	60481		6.4	VOH	M	62
R	Ari	max	60195		8.9	VOH	M	32
R	Ari	max	60562		8.7	VOH	M	27
T	Ari	max	60233		8.1	VOH	M	36
T	Ari	min	60328		10.3	VOH	M	23
R	Aur	max	60499		7.2	VOH	M	47
UV	Aur	max	60373		8.4	VOH	M	52
AZ	Aur	max	60330		9.7	VOH	M	39
R	Boo	max	60413	:	6.8	SM	M	14
R	Boo	max	60183		8.2	VOH	M	42
R	Boo	max	60413		7.7	VOH	M	42
V	Boo	max	60449		7.9	SM	SR	29
V	Boo	min	60301		9.6	VOH	SR	34
V	Boo	max	60354		9.0	VOH	SR	36
V	Boo	min	60403		9.4	VOH	SR	34
V	Boo	max	60456		8.5	VOH	SR	37
X	Cam	max	60464		8.6	VOH	M	9
R	CVn	max	60356		7.2	VOH	M	58
R	Cas	max	60443		5.0	VOH	M	43
T	Cas	max	60495		8.6	VOH	M	45
U	Cas	max	60409		8.8	VOH	M	12
V	Cas	max	60393		7.9	VOH	M	22
RZ	Cas	min	60414.33			SPI	EA	15
RZ	Cas	min	60500.39			SPI	EA	18
RZ	Cas	min	60573.30			SPI	EA	20
SV	Cas	max	60172		7.0	VOH	SR	54
SV	Cas	min	60310		9.2	VOH	SR	54
SV	Cas	max	60384		8.5	VOH	SR	54
SV	Cas	min	60509		10.0	VOH	SR	54
V0667	Cas	max	60445		9.3	VOH	M	21
T	Cep	max	60116.9		6.5	RCR	M	56
T	Cep	max	60095		7.1	VOH	M	116
T	Cep	min	60330		9.8	VOH	M	116
RU	Cep	min	60508		9.0	SM	SR	20
RU	Cep	max	60537	:	8.5	SM	SR	20
PQ	Cep	min	60202		10.3	VOH	M	85
S	CrB	max	60518		7.4	VOH	M	48
T	CrB	max	60207		10.2	VOH	NR	155
T	CrB	min	60252		10.6	VOH	NR	155
T	CrB	max	60310		10.2	VOH	NR	155
T	CrB	min	60392		10.8	VOH	NR	155
T	CrB	max	60445		10.2	VOH	NR	155
T	CrB	min	60490		10.6	VOH	NR	155
R	Cyg	max	60386		9.0	VOH	M	28
U	Cyg	max	60413		7.6	VOH	M	42
W	Cyg	min	60524		6.7	VOH	SRB	30
Z	Cyg	max	60410		8.4	VOH	M	28
RS	Cyg	min	60423		9.5	VOH	SRA	40
RT	Cyg	max	60183		7.3	RCR	M	27
RT	Cyg	max	60190		7.5	VOH	M	29
RT	Cyg	max	60379		7.3	VOH	M	29

Variable		Ext	HJD 24+	U	Mag	Obs	Type	n
RU	Cyg	max	60400		8.2	VOH	SRA	42
TY	Cyg	max	60538		9.7	VOH	M	19
AA	Cyg	min	60125		10.3	VOH	SRB	68
AA	Cyg	max	60235		8.9	VOH	SRB	68
AA	Cyg	min	60368		10.3	VOH	SRB	38
AA	Cyg	max	60443		9.2	VOH	SRB	30
AF	Cyg	max	60230	:	6.7	SM	SRB	11
AF	Cyg	min	60491		7.4	SM	SRB	30
AF	Cyg	max	60340		7.1	VOH	SRB	19
AF	Cyg	max	60406		7.1	VOH	SRB	43
AF	Cyg	min	60489		8.0	VOH	SRB	36
AF	Cyg	max	60519		7.1	VOH	SRB	26
CH	Cyg	min	60164		8.5	VOH	ZAND+SR	139
CN	Cyg	max	60492		9.3	VOH	M	23
khi	Cyg	max	60085	:	4.8	SM	M	15
khi	Cyg	max	60507		4.5	SM	M	30
khi	Cyg	max	60508		4.4	VOH	M	65
U	Del	max	60442		6.5	VOH	SRB	18
R	Dra	max	60320		7.2	VOH	M	47
S	Dra	max	60334		8.6	VOH	SRB	46
SV	Dra	max	60430		10.6	VOH	M	23
CZ	Dra	max	60430		10.7	VOH	M	26
R	Gem	max	60423		7.2	VOH	M	30
ST	Gem	max	60307		10.0	VOH	M	23
S	Her	max	60412		7.2	VOH	M	31
T	Her	max	60119	:	7.9	RCR	M	7
T	Her	max	60123		8.3	VOH	M	45
T	Her	max	60439		7.7	VOH	M	38
U	Her	max	60359		7.8	VOH	M	34
W	Her	max	60193		9.0	VOH	M	50
W	Her	max	60469		8.3	VOH	M	51
RS	Her	max	60327	:	8.1	VOH	M	15
RS	Her	max	60557		8.5	VOH	M	37
RU	Her	max	60404		9.3	VOH	M	48
SX	Her	max	60392	:	8.1	SM	SRD	24
SX	Her	min	60450		9.2	SM	SRD	24
SX	Her	min	60337		8.7	VOH	SRD	121
SX	Her	max	60393		8.2	VOH	SRD	121
SX	Her	min	60448		8.8	VOH	SRD	121
SX	Her	max	60503		8.2	VOH	SRD	121
UU	Her	max	60223		8.4	SM	SRD	10
UU	Her	min	60402		9.3	SM	SRD	26
UU	Her	min	60481		9.3	SM	SRD	26
AC	Her	min	60455		8.0	SM	RVA	13
AC	Her	min	60533		8.1	SM	RVA	23
R	Hya	min	60360		8.0	SM	M	24
T	Hya	max	60390	:	7.5	SM	M	12
W	Hya	max	60444		5.1	SM	SRA	21
RT	Hya	min	60334	:	8.5	SM	SRB	29
RT	Hya	max	60382	:	7.5	SM	SRB	29
S	Lac	max	60378		8.4	VOH	M	13
Y	Lac	max	60529.25		9.2	KB	DCEP	39
R	Leo	max	60392		5.7	SM	M	28
R	Leo	max	60390		6.1	VOH	M	63
W	Lyr	max	60212		7.9	VOH	M	42
W	Lyr	max	60408		8.2	VOH	M	37
RR	Lyr	max	60512.43			SPI	RRAB	13
RR	Lyr	max	60516.40			SPI	RRAB	19
RR	Lyr	max	60533.40			SPI	RRAB	33
bet	Lyr	min	60521.54			SPI	EB	26

Variable		Ext	HJD 24+	U	Mag	Obs	Type	n
bet	Lyr	min	60560.36			SPI	EB	34
bet	Lyr	min	60573.30			SPI	EB	20
U	Mon	min	60326		6.2	SM	RVB	31
U	Mon	min	60371		7.3	SM	RVB	31
U	Mon	max	60249		5.4	VOH	RVB	52
U	Mon	min	60280		6.9	VOH	RVB	52
U	Mon	max	60304		5.4	VOH	RVB	52
U	Mon	min	60322		6.3	VOH	RVB	52
U	Mon	max	60339		5.3	VOH	RVB	52
U	Mon	min	60370		7.1	VOH	RVB	52
X	Mon	max	60364		6.9	SM	SRA	22
X	Oph	max	60169		6.8	RCR	M	34
X	Oph	max	60494		6.7	VOH	M	60
Z	Oph	max	60457		8.2	VOH	M	43
Y	Ori	max	60271		9.9	VOH	M	14
U	Per	min	60212		10.7	VOH	M	61
U	Per	max	60393		7.6	VOH	M	61
bet	Per	min	60339.48			SPI	EA/SD	14
bet	Per	min	60531.58			SPI	EA/SD	40
R	Sge	min	60486		9.8	SM	RVB	33
R	Sge	min	60527		9.9	SM	RVB	33
R	Sct	min	60486		6.7	SM	RVA	20
R	Sct	min	60489		6.9	VOH	RVA	23
R	Ser	max	60440		6.9	SM	M	23
R	Ser	max	60444		6.8	VOH	M	55
S	Tau	max	60235		10.7	VOH	M	20
V	Tau	max	60297		9.8	VOH	M	21
R	Tri	min	60258		11.5	VOH	M	36
R	UMa	max	60332		7.3	VOH	M	41
S	UMa	max	60253		8.1	VOH	M	34
S	UMa	max	60482		8.2	VOH	M	16
T	UMa	max	60223		7.8	VOH	M	26
Z	UMa	max	60047		6.6	SWZ	SRB	24
Z	UMa	max	60263		7.0	VOH	SRB	77
Z	UMa	min	60360		9.2	VOH	SRB	77
RY	UMa	min	60116		7.9	VOH	SRB	90
RY	UMa	max	60240		7.0	VOH	SRB	90
RY	UMa	min	60367		7.8	VOH	SRB	90
S	UMi	max	60184		8.9	VOH	M	38
S	UMi	max	60492		8.6	VOH	M	37
T	UMi	max	60416		10.9	VOH	M	12
U	UMi	max	60343		7.7	VOH	M	52
R	Vir	max	60433	:	6.7	SM	M	15
R	Vir	max	60299		7.2	VOH	M	14
R	Vir	max	60440		7.2	VOH	M	35
R	Vul	max	60499		9.2	VOH	M	9
V	Vul	min	60120		9.2	SM	RVA	15
V	Vul	min	60457		8.9	SM	RVA	21
V	Vul	min	60495		9.2	SM	RVA	21
V	Vul	min	60537		9.1	SM	RVA	13

Observers

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RCR	Raetz,	Kerstin	Herges-Hallenberg
SM	Sturm,	Arthur	Saarburg
SPI	Spiess,	Wolfgang	Ertingen
SWZ	Schwarz,	Bernd	Laubach
VOH	Vohla,	Frank	Altenburg

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