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The bibliographical entries for *Individual Stars* and *Collections of Data*, as well as a few *General* entries, are categorized according to the following coding scheme. Data from archives or databases, or previously published, are identified with an asterisk. The observation codes in the first four groups may be followed by one of the following wavelength codes.

g.	γ-ray.	i.	infrared.	m.	microwave.	o.	optical
r.	radio	u.	ultraviolet	x.	x-ray		

1. Photometric data

a. CCD b. Photoelectric c. Photographic d. Visual

2. Spectroscopic data

a. Radial velocities b. Spectral classification c. Line identification d. Spectrophotometry

3. Polarimetry

a. Broad-band b. Spectropolarimetry

4. Astrometry

a. Positions and proper motions b. Relative positions only c. Interferometry

5. Derived results

a. Times of minima
b. New or improved ephemeris, period variations
c. Parameters derivable from light curves
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f. Apsidal motion and structure constants
g. Physical properties of stellar atmospheres
h. Chemical abundances
i. Accretion disks and accretion phenomena
j. Mass loss and mass exchange
k. Rotational velocities

6. Catalogues, discoveries, charts

a. Catalogues
b. Discoveries of new binaries and novae
c. Identification of optical counterparts of γ-ray, x-ray, IR, or radio sources
d. Finding charts

7. Observational techniques

a. New instrument development
b. Observing techniques
c. Reduction procedures
d. Data-analysis techniques

8. Theoretical investigations

a. Structure of binary systems
b. Circumstellar and circumbinary matter
c. Evolutionary models
d. Loss or exchange of mass and/or angular momentum

9. Statistical investigations

10. Miscellaneous

a. Abstract b. Addenda or errata

Abbreviations

AD	accretion disk	HMXB	high-mass x-ray binary	QPO	quasi-periodic oscillation
BH	black hole	IP	intermediate polar	RV	radial velocity
CB	close binary	LC	light curve	SB	spectroscopic binary
CV	cataclysmic variable	LMXB	low-mass x-ray binary	WD	white dwarf
EB	eclipsing binary	NS	neutron star	WR	Wolf-Rayet star

Individual Stars

Z And	*Tarasova, T.N., Skopal, A.* 2012, ARep 56, 218. (1b, 2d, 5gij) Formation of the disk and jets during periods of activity in 2006-2010.
V455 And	*Silvestri, N.M. et al.* (7 authors) 2012, AJ 144, 84. (1aou, 5i) Photometry three years after major dwarf nova outburst.
V515 And (XSS J00564+4548)	*Kozhevnikov, V.P.* 2012, MNRAS 422, 1518. (1bo, 5b) Two coherent oscillations with accurate periods corresponding to WD spin period with orbital sideband detected in IP system.
AE Aqr	*Ikhsanov, N.R., Beskrovnaya, N.G.* 2012, ARep 56, 595. (8cd) AE Aqr represents a new subclass of CVs.
	Oruru, B., Meintjes, P.J. 2012, MNRAS 421, 1557. (1x*, 5ij) Soft thermal x-ray emission is pulsed at spin period of WD; flares due to sporadic accretion.
EF Aqr	*Vos, J. et al.* (7 authors) 2012, A&A 540, A64. (1ao, 2ao, 5abcdeh)
FO Aqr	*Pekön, Y., Balman, S.* 2012, AJ 144, 53. (2dx, 5i) X-ray spectroscopy over orbital cycle.
V1333 Aql (Aql X-1)	*Sakurai, S. et al.* (7 authors) 2012, PASJ 64, 72. (2dx, 5i) Accretion geometry in soft/hard states.
V1343 Aql (SS 433)	*Bisnovatyi-Kogan, G.S., Krivosheev, Yu.M.* 2012, ARep 56, 167. (8d) A study of jet heating mechanisms with application to microquasar.
	Khabibullin, I.I., Sazonov, S.Yu. 2012, AstL 38, 443. (2x*c, 8bd) X-ray line formation in SS 433.
	Volkov, I. 2012, IBVS No. 6022. (1a, 5b) SS433 in active state in 2011.
V 1413 Aql	*Kolotilov, E.A. et al.* (5 authors) 2012, AstL 38, 468. (1coi, 5c) New activity cycle of classical symbiotic star.
V1487 Aql (GRS 1915+105)	*Neilsen, J., Petschek, A.J., Lee, J.C.* 2012, MNRAS 421, 502. (1x, 2dx, 5ij) Wind-jet interaction of microquasar observed.
	Neilsen, J., Remillard, R.A., Lee, J.C. 2012, ApJ 750, 71. (2dx) Explanation of diversity in x-ray LCs.
	Polyakov, Y.S., Nielsen, J., Timashev, S.F. 2012, AJ 143, 148. (5i, 7a) Stochastic variability of x-ray emission.
	Ratti, E.M., Belloni,T.M., Motta, S.E. 2012, MNRAS 423, 694. (1x, 5bcgi) On the harmonics of the low-frequency QPO.
V1494 Aql	*Helton, L.A. et al.* (10 authors) 2012, ApJ 755, 37. (2io, 5h) Elemental abundances.
V801 Ara (4U 1636−53)	*Sanna, A. et al.* (4 authors) 2012, MNRAS 424, 2936. (1x*, 5bcgi) Detection of kilohertz QPOs.
V821 Ara (GX 339-4)	*Buxton, M.M. et al.* (7 authors) 2012, AJ 143, 130. (1aoi, 5g) Long-term monitoring of transitions between hard and soft states.
	Cassatella, P. et al. (4 authors) 2012, MNRAS 422, 2407. (1x, 5cgi, 8a) Joint spectral-timing modelling of the hard lags.
	Nandi, A. et al. (4 authors) 2012, A&A 542, A56. (2dx*, 5i) 2010-11 outburst of the HMXB.
	Rahoui, F. et al. (9 authors) 2012, MNRAS 422, 2202. (1rx, 2bcio, 5cdghi) A comprehensive multiwavelength study with a focus on the OIR spectral continuum.
ϵ Aur	*Mourard, D. et al.* (19 authors) 2012, A&A 544, 91. (2c) A high angular and spectral resolution view into the hidden companion.

RW Aur	*Bisikalo, D.V. et al.* (6 authors) 2012, ARep 56, 686. (4c, 5i) Reverse rotation of the AD: observations and a physical model. *Dodin, A.V., Lamzin, S.A., Chuntonov, G.A.* 2012, AstL 38, 167. (2ac, 5gi) Magnetic field.
ZZ Boo	*Kang, Y.-W. et al.* (5 authors) 2012, AJ 144, 35. (2d, 5gh) Abundances of elements not the same in each component.
CK Boo	*Yang, Y.-G., Qian, S.B., Soonthornthum, B.* 2012, AJ 143, 122. (1ao, 5abc) Contact binary with possible magnetic activity and third body.
Z Cam	*Saitou, K. et al.* (4 authors) 2012, PASJ 64, 88. (1x, 2dx, 5i) X-ray spectroscopy at the onset of an optical outburst.
BQ Cam (V 0332+53)	*Sasaki, M. et al.* (5 authors) 2012, A&A 540, A35. (2dx, 5i) X-ray pulsar profiles, geometry and beam pattern in the HMXB.
V470 Cam (HS 0705+6700)	*Beuermann, K. et al.* (23 authors) 2012, A&A 540, A8. (5ab) Search for companions to post-common envelope binaries.
CU Cnc	*Qian, S.-B. et al.* (10 authors) 2012, MNRAS 423, 3646. (1ao, 5cg) Discovery of optical flares and flaring oscillations.
Z CMa	*Canovas, H. et al.* (5 authors) 2012, A&A 543, 70. (3b, 8b) Constraining the circumbinary envelope via imaging polarimetry.
CZ CMi (GSC 0763-0572)	*Kriwattanawong, W., Pooseekheaw, P.* 2012, RAA 12, 1291. (1ao, 5abc) LC analysis and period change. *Wang, J.-J. et al.* (9 authors) 2012, PASJ 64, 83. (1ao, 5abce) LC analysis and period study.
η Car	*Abramowski, A. et al.* (193 authors) 2012, MNRAS 424, 128. (1g, 5cg) HESS observations of the Carina nebula and its enigmatic colliding wind binary η Carinae. *Groh, J.H. et al.* (4 authors) 2012, MNRAS 423, 1623. (2bcou, 5deg, 8a) 2D radiative transfer modelling of the ultraviolet and optical spectra.
GG Car	*Marchiano, P. et al.* (6 authors) 2012, A&A 540, A91. (2ao, 5dg)
OY Car	*Copperwheat, C.M. et al.* (9 authors) 2012, MNRAS 421, 149. (2acoi, 5dik) Metal lines of donor star and AD of eclipsing dwarf nova used to derive RV curve of secondary and distorted disc.
V395 Car (2S 0921−630)	*Ashcraft, T.A., Hynes, R.I., Robinson, E.L.* 2012, MNRAS 424, 620. (1aio, 5bcegi) Results of optical and infrared photometric monitoring.
AZ Cas	*Galan, C. et al.* (10 authors) 2012, IBVS No. 6027. (1a, 6d) Call for observations of eclipse and periastron passage of 2012-2014.
DZ Cas	*Yang, Y.-G., Li, L.-H., Dai, H.-F.* 2012, AJ 144, 50. (1ao, 5abc) Algol with probable light-time effect from third body.
V615 Cas (LS I +61°303)	*Massi, M., Ros, E., Zimmermann, L.* 2012, A&A 540, A142. (4cr) VLBA images of the HMXB precessing jet.
V635 Cas (4U 0115+63)	*Sasaki, M. et al.* (5 authors) 2012, A&A 540, A35. (2dx, 5i) X-ray pulsar profiles, geometry and beam pattern in the HMXB.
V850 Cen (GX 304-1)	*Klochkov, D. et al.* (13 authors) 2012, A&A 542, L28. (2dx, 5i) Outburst in HMXB.

V1258 Cen (CTCV J1300−3052)	*Savoury, C.D.J. et al.* (7 authors) 2012, MNRAS 422, 469. (2aoi, 5de) Absorption lines of secondary star of eclipsing CV measured; absolute component masses found with Monte Carlo technique in good agreement with photometric solution.
EE Cep	*Galan, C. et al.* (90 authors) 2012, A&A 544, 53. (6b) International observational campaigns of the last two eclipses: 2003 and 2008/9.
YY Cet	*Williamon, R.M., Sowell, J.R.* 2012, PASP 124, 411. (1bo, 2a*, 5a*bcde) Short-period Algol system.
DX Cha (HD 104237)	*Fumel, A., Böhm, T.* 2012, A&A 540, A108. (2do) Herbig Ae star with K3 close companion. Non-radial pulsations, mode analysis, and fundamental parameters.
AF Crt (IRAS 11472−0800)	*Van Winckel, H. et al.* (5 authors) 2012, A&A 542, A53. (1ao, 2adoi, 5h) Extremely depleted pulsating binary post-AGB star.
BP Cru (GX 301-2)	*Ikhsanov. N.R., Beskrovnaya N.G.* 2012, ARep 56, 589. (8d) Signs of magnetic accretion in x-ray pulsars.
	Ikhsanov, N.R., Finger, M.H. 2012, ApJ 753, 1. (1x*) Magnetic accretion present?
SS Cyg	*Revnivtsev, M.G. et al.* (8 authors) 2012, AstL 38, 238. (1a, 5i) On the change of the inner boundary of an optically thick AD around WDs using the dwarf nova SS Cyg as an example.
	Voikhanskaya, N.F. 2012, AstBu 67, 216. (9) On the distance to CVs: SS Cygni.
CG Cyg	*Kozhevnikova, A.V. et al.* (5 authors) 2012, ARep 56, 281. (1b, 5cg) Observations of spot activity during maximum spottedness.
V407 Cyg	*Nelson, T. et al.* (5 authors) 2012, ApJ 748, 43. (1aou, 2dx) Observed during outburst.
	Shore, S.N. et al. (7 authors) 2012, A&A 540, A55. (2cdox) Symbiotic-like recurrent nova during the 2010 outburst.
V1357 Cyg (Cyg X-1)	*Fabian, A.C. et al.* (12 authors) 2012, MNRAS 424, 217. (1x, 5ceg) Determination of the spin from x-ray reflection spectra.
	Zdziarski, A.A. 2012, MNRAS 422, 1750. (1r*, 5ij) Orbital modulation of radio emission provides constraints on structure of inner jet.
	Zdziarski, A.A., Lubínski, P., Sikora, M. 2012, MNRAS 423, 663. (1gx, 5cg, 8a) Study of the average x-ray and soft γ-ray spectrum in the hard spectral state.
V1521 Cyg (Cyg X-3)	*Corbel, S. et al.* (19 authors) 2012, MNRAS 421, 2947. (1gxr, 5ij) Multi-wavelength campaign during quenched state with radio, soft x-ray and high γ-ray flux, ended by giant radio flare; connection to accretion processes and relativistic jets proposed.
	Sitarek, J., Bednarek, W. 2012, MNRAS 421, 512. (1g) Study of γ-rays from inner jet of microquasar and their interaction with AD.
	Zdziarski, A.A. et al. (6 authors) 2012, MNRAS 421, 2956. (1gxr, 5j) Study of γ-ray emitting jet.
V1974 Cyg	*Helton, L.A. et al.* (10 authors) 2012, ApJ 755, 37. (2io, 5h) Elemental abundances.
V2028 Cyg	*Polster, J. et al.* (7 authors) 2012, A&A 542, A57. (2ado) Star displaying the B[e] phenomenon.
V2083 Cyg	*Zasche, P., Svoboda, P., Šlechta, M.* 2012, MNRAS 421, 1196. (1ao, 2ao, 5bcd) First LC and RV analysis of triple system.

BB Dor	*Schmidtobreick, L. et al.* (6 authors) 2012, MNRAS 422, 731. (2ao) Hα satellite emission during low state of SW Sex-type CV ascribed to irradiated surface areas of secondary.
AG Dra	*Formiggini, L., Leibowitz, E.M.* 2012, MNRAS 422, 2648. (1aou*, 5cdegk) Analysis of historical optical LC.
BF Dra	*Lacy, C.H.S. et al.* (5 authors) 2012, AJ 143, 129. (1ao, 2ao, 5abcdef)
CM Dra	*Kuznetsov, M.K. et al.* (4 authors) 2012, AASP 2, 15. (2ac, 5g) Physical parameters of the components. *MacDonald, J., Mullan, D.J.* 2012, MNRAS 421, 3084. (8a) Precise modelling of dM4.5+dM4.5 EB including magnetic fields and spots. *Spada, F., Demarque, P.* 2012, MNRAS 422, 2255. (1ao, 2bco, 5cdeg, 8a) Modelling the components of the system.
EF Dra	*Yang, Y.-G.* 2012, RAA 12, 419. (1ao, 5abc) LC analysis and period study.
FU Dra	*Liu, L. et al.* (6 authors) 2012, PASJ 64, 48. (1ao, 5abce) LC analysis and period study.
CP Eri	*Armstrong, E., Patterson, J., Kaup, J.* 2012, MNRAS 421, 2310. (1ao, 5bc) Precise superhump and orbital periods of AM CVn system determined.
YY Gem	*Hussain, G.A.J. et al.* (6 authors) 2012, MNRAS 423, 493. (1x, 5ceg, 8ab) Chandra study of the binary.
SZ Her	*Hinse, T.C. et al.* (5 authors) 2012, AJ 144, 34. (8a) Orbit models indicate proposed quadruple system would be unstable.
CC Her	*Liakos, A., Niarchos, P.* 2012, Ap&SS 340, 281. (1a, 2c, 5c, 8c) New photometric and spectroscopic study: physical parameters and evolutionary status.
HZ Her (Her X-1)	*Igna, C.D., Leahy, D.A.* 2012, MNRAS 425, 8. (1x, 5ei, 8a) Production of light-curve dips through accretion.
V795 Her	*Šimon, V. et al.* (5 authors) 2012, A&A 540, A15. (1ao, 5i) Cycles in the CV.
V1034 Her	*Zhang, L.-Y.* 2012, RAA 12, 438. (1ao, 5abc) LC analysis with surface spots and activity relation of short-period RS CVn binaries.
V1067 Her (1SWASP J174310.98+432709.6)	*Lohr, M.E. et al.* (6 authors) 2012, A&A 542, A124. (1ao, 5b) Period decrease in EB candidate near the short-period limit.
AV Hya	*Yang, Y.-G., Li, L.-H., Dai, H.-F.* 2012, AJ 144, 50. (1ao, 5abc) Algol with probable light-time effect from third body.
HS Hya	*Zasche, P., Paschke, A.* 2012, A&A 542, L23. (1abo, 5c) EB about to turn off its eclipses.
AR Lac	*Lu, Y., Xiang, F.-U., Shi, X.-Mi.* 201, PASJ 64, 84. (5a*b) A study of period variation.
CM Lac	*Liakos, A., Niarchos, P.* 2012, Ap&SS 340, 281. (1a, 2c, 5c, 8c) New photometric and spectroscopic study: physical parameters and evolutionary status.
UV Leo	*Manzoori, D.* 2012, Astron. Nachr. 333, 256. (1ao*, 5cef) LC analysis of spotted Algol-type EB yields absolute parameters and age; cyclic period variations suggest presence of third body.
β Lyr	*Lomax, J.R. et al.* (5 authors) 2012, ApJ 750, 59. (1aio, 2do) Geometrical constraints on hot spot.

MV Lyr	*Scaringi, S. et al.* (6 authors) 2012, MNRAS 421, 2854. (1ao*, 5i) Linear rms-flux relation of accreting WD in CV similar to that of x-ray binaries.
V447 Lyr	*Ramsay, G. et al.* (7 authors) 2012, MNRAS 425, 1479. (1ao, 2bc, 5bcd, 8a) Results from *Kepler* observations.
V524 Mon	*He, J.-J., Wang, J.-J., Qian, S.-B.* 2012, PASJ 64, 85. (1ao, 5abc) LC analysis and period study.
ν Oct	*Quarles, B., Cuntz, M., Musielak, Z.E.* 2012, MNRAS 421, 2930. (8a) Theoretical study of stability of suggested planet in K-type binary system.
V2216 Oph (4U 1728−16)	*Mukherjee, A., Bhattacharyya, S.* 2012, ApJ 756, 55. (1x) Decline of QPO frequency with higher energies for LMXBs.
V1647 Ori	*Semkov, E.H., Peneva, S.P.* 2012, IBVS No. 6025. (1ao) VRcIc LCs during the second outburst.
RU Peg	*Dunford, A., Watson, C.A., Smith, R.C.* 2012, MNRAS 422, 3444. (2abo, 5degi, 8a) Roche tomography of the secondary star.
IM Peg	*Bietenholz, M.F. et al.* (6 authors) 2012, ApJS 201, 7. (1r, 2r, 4c) VLBI evolution of the radio structure. *Ransom, R.R. et al.* (7 authors) 2012, ApJS 201, 6. (1ao, 4c) Gravity probe B determination of proper motion and parallax. *Ratner, M.I. et al.* (7 authors) 2012, ApJS 201, 5. (1r, 2r, 4c) VLBI analysis of the orbit and the source.
X Per (4U 0352+309)	*Doroshenko, V. et al.* (4 authors) 2012, A&A 540, L1. (2dx*, 5ij) Accreting pulsar in orbit around Be star.
CK Per (Nova 1901)	*Shara, M. et al.* (6 authors) 2012, AJ 143, 143. (2d, 4ab, 5j) HST observations of ejecta show details.
HO Psc	*Samec, R.G. et al.* (5 authors) 2012, PASP 124, 693. (1ao, 2b, 5abc) New EB that came into contact recently.
UU Sge	*Shimansky, V.V. et al.* (4 authors) 2012, ARep 56, 456. (1a, 5cg) Observations of eclipses.
9 Sgr	*Rauw, G. et al.* (9 authors) 2012, A&A 542, A95. (2do, 5d) Uncovering an 8.6-year period O-type SB.
V4046 Sgr	*Argiroffi, C. et al.* (14 authors) 2012, ApJ 752, 100. (1x, 2x) Rotationally modulated emission from accretion shocks.
V393 Sco	*Mennickent, R.E. et al.* (4 authors) 2012, MNRAS 421, 862. (1aoi, 5bci) LC anaysis of double-periodic variable.
V818 Sco (Sco X-1)	*Hynes, R.I., Britt, C.T.* 2012, ApJ 755, 66. (1ao, 5b) Precise ephemeris determined.
V1033 Sco (GRO J1655−40)	*Neilsen, J., Homan, J.* 2012, ApJ 750, 27. (2dx) Suggest hybrid magnetically/thermally driven wind. *Zhang, S.-N., Liao, J., Yao, Y.* 2012, MNRAS 421, 3550. (1x, 2ac) BH mass of LMXB measured from absorption lines originating in AD wind.
V1151 Sco (NTTS 155808−2219)	*Mace, G.N. et al.* (6 authors) 2012, AJ 144, 55. (2ao, 5d) Triple system.
MY Ser (HD 167971)	*De Becker, M. et al.* (5 authors) 2012, MNRAS 423, 2711. (4co, 5ceg, 8a) Resolving the two wide components.
NP Ser (GX 17+2)	*Lin, D. et al.* (4 authors) 2012, ApJ 756, 34. (1x, 2x) Spectral evolution of NS XRB.
GV Tau (Haro 6-10)	*Wilking, B.A. et al.* (6 authors) 2012, ApJ 753, 143. (1r, 4c) Evidence for a subarcsecond binary.

V471 Tau	*Sion, E.M. et al.* (7 authors) 2012, ApJ 751, 66. (2du, 5gi) Study of magnetically controlled accretion onto the WD.
KZ TrA (4U 1626−67)	*Iwakiri, W.B. et al.* (10 authors) 2012, ApJ 751, 35. (2cdx) Suggest very dense plasma close to surface of Be star.
65 UMa	*Zasche, P. et al.* (7 authors) 2012, A&A 542, A78. (1ao, 2ao, 5bcde) Sextuple system with EBs and SBs.
SU UMa	*Imada, A. et al.* (7 authors) 2012, PASJ 64, L5. (1ao) Discovery of superhumps during an isolated normal outburst.
ER UMa	*Ohshima, T. et al.* (22 authors) 2012, PASJ 64, L3. (1ao, 5i) Discovery of "negative" superhumps during a superoutburst.
V382 Vel	*Helton, L.A. et al.* (10 authors) 2012, ApJ 755, 37. (2io, 5h) Elemental abundances.
BF Vir	*Zhu, L., Qing, S.-B., Li. L.* 2012, PASJ 64, 94. (1ao, 5ab) New period study.
HW Vir	*Beuermann, K. et al.* (4 authors) 2012, A&A 543, 138. (8c) The quest for companions to post-common envelope binaries III. A reexamination of HW Vir.
UY Vol (EXO 0748−676)	*Paul, B., Archana, M., Saripalli, L.* 2012, BASI 40, 93. (1aox*) Detection of a large number of optical bursts simultaneous with the thermonuclear x-ray bursts.
BS Vul	*Zhu, L.-Y. et al.* (6 authors) 2012, AJ 144, 37. (1ao, 5abc) Near-contact EB.
V458 Vul (Nova 2007)	*Rajabi, S. et al.* (9 authors) 2012, ApJ 755, 158. (1i, 2i, 4c) Interferometric study of classical nova.

HR, HD, HDE, BD, CoD, CPD, SAO Objects

HR 6497	*Griffin, R.E.M., Griffin, R.F.* 2012, Astron. Nachr. 333, 613. (2aobc, 5abde) Spectroscopic analysis of triple system consisting of outer G8 III giant and close inner B9.5+B9.5 binary.
HD 23052	*Scarfe, C.D., Griffin, R.F.* 2012, RMxAA 48, 257. (2ao, 5d) Solar analogue SB1.
HD 32297	*Boccaletti, A. et al.* (9 authors) 2012, A&A 544, 85. (5i) Morphology of the very inclined debris disk around HD 32297.
HD 50230	*Degroote, P. et al.* (17 authors) 2012, A&A 542, A88. (1ao, 2ado, 5c, 6b) Hybridly pulsating SB2.
HD 50870	*Mantegazza, L. et al.* (17 authors) 2012, A&A 542, A24. (1ao, 2do) δ Scuti-type SB seen almost pole-on.
HD 90512	*Scarfe, C.D., Griffin, R.F.* 2012, RMxAA 48, 257. (2ao, 5d) Giant SB1 with nearly circular orbit, P$\sim$100 d.
HD 104237	(see DX Cha)
HD 110432	*Torrejon, J.M., Schulz, N.S, Nowak, M.A.* 2012, ApJ 750, 75. (2dx) Study of magnetically controlled accretion onto the WD.
HD 142527	*Biller, B. et al.* (14 authors) 2012, ApJ 753, L38. (1i, 4c) Low-mass companion of disk star.
HD 150136	*Mahy, L. et al.* (7 authors) 2012, A&A 540, A97. (2ado, 5dek) A physically bound third component in O-type star system.

HD 163296	*Fedele, D. et al.* (8 authors) 2012, A&A 544, 9. (5i) Warm H_2O and OH in the disk around Herbig star.
HD 167971	(see MY Ser)
HD 215227 (MWC 656)	*Casares, J. et al.* (6 authors) 2012, MNRAS 421, 1103. (2ao, 5d) Spectroscopy of optical counterpart MWC 656 of γ-ray source suggests compact companion in eccentric orbit; orbital elements derived.
HDE 259440 (MWC 148)	*Casares, J. et al.* (6 authors) 2012, MNRAS 421, 1103. (2ao, 5d) Spectroscopy of optical counterpart MWC 148 of γ-ray source suggests compact companion in eccentric orbit; orbital elements derived.
HDE 327083	*Wheelwright, H.E. et al.* (5 authors) 2012, A&A 543, 77. (2c) AMBER and CRIRES observations of binary sgB[e] star: evidence of a gaseous disk traced by CO bandhead emission.
BD +53°2790 (4U 2206+54)	*Reig, P., Torrejón, J.M., Blay, P.* 2012, MNRAS 425, 595. (1gx, 5bceg) Investigation of spin evolution.
BD +46°442	*Gorlova, N. et al.* (12 authors) 2012, A&A 542, A27. (2ado, 5gj) Gas streams and jet creation in evolved binary with a disk.
BD +39°1560 (TYC 2930-872-1)	*Fleming, S.W. et al.* (62 authors) 2012, AJ 144, 72. (2ad, 5d, 6b) Low-mass companion and possible third star.
CPD −63°2495 (PSR B1259−63)	*Khangulyan, D. et al.* (4 authors) 2012, ApJ 752,L17. (1g) Analysis of γ-ray flare from PSR binary. *Takata, J., et al.* (10 authors) 2012, ApJ 750, 70. (5c) Model of high energy LCs.

X-ray sources with constellation names

Aql X-1	(see V1333 Aql)
Cyg X-1	(see V1357 Cyg)
Cyg X-3	(see V1521 Cyg)
Her X-1	(see HZ Her)
LMC X-3	(see 1RXS J053855.6−640457)
Sco X-1	(see V818 Sco)

Objects with names including RA and DEC

2MASS J00244419−2708242 (LHS 1070)	*Köhler, R., Ratzka, T., Leinert, C.* 2012, A&A 541, A29. (4b) Orbits and masses in the multiple system. Star A may be a binary. *Rajpurohit, A.S. et al.* (11 authors) 2012, A&A 545, 85. (8c) Very low mass multiple system - a testbed for model atmospheres for the lower end of the main sequence.
XSS J00564+4548	(see V515 And)
XMMU J010633.1−731543	*Coe, M.J. et al.* (9 authors) 2012, MNRAS 424, 282. (1aiox, 2bc, 5cdg, 6bc) A new Be/x-ray binary system.
XMMU J010743.1−715953	*Coe, M.J. et al.* (9 authors) 2012, MNRAS 424, 282. (1aiox, 2bc, 5cdg, 6bc) A new Be/x-ray binary system.
ASAS J011328−3821.1	*Haislip, J.B. et al.* (5 authors) 2012, MNRAS 425, 1245. (1ao, 2abc, 5cdge, 8a) Orbital and physical parameters.

4U 0115+63	(see V635 Cas)
2MASS J01411638+6121185 (GSC 4031-0791)	*Galan, C. et al.* (8 authors) 2012, IBVS No. 6028. (1a, 5b, 6b) New EB of Algol type.
2MASS J03093252+4252387 (GSC 2855-0585)	*Koo, J.R. et al.* (5 authors) 2012, PASP 124, 559. (1ao, 2a, 5abcde, 6b) New EB near V432 Per.
V 0332+53	(see BQ Cam)
4U 0352+309	(see X Per)
RX J0440.9+4431	*La Palombara, N. et al.* (5 authors) 2012, A&A 539, 82. (1a,2x) XMM-Newton observations of persistent Be/NS x-ray binary pulsar.
	Tsygankov, S.S., Krivonos, R.A., Lutovinov, A.A. 2012, MNRAS 421, 2407. (1x) INTEGRAL and RXTE observations of Be/x-ray binary pulsar during outburst give estimate of NS magnetic field strength of 3.2×10^{12} G.
1RXS J053855.6−640457 (LMC X-3)	*Smale, A.P., Boyd, P.T.* 2012, ApJ 756, 146. (1x*,2x*) Anomalous low states and long term variability.
	Zhang, S.-N., Liao, J., Yao, Y. 2012, MNRAS 421, 3550. (1x, 2ac) BH mass of HMXB measured from absorption lines originating in AD wind.
SSTISAGEMC J053857.30−690709.5 (VFTS 698)	*Dunstall, P.R. et al.* (10 authors) 2012, A&A 542, A50. (1abo*, 2dox, 5g, 6b) Peculiar Be-like supergiant in interacting binary orbiting a veiled, more massive companion.
IGR J05414−6858	*Sturm, R. et al.* (10 authors) 2012, A&A 542, A109. (1ao*, 2b, 2dox) HMXB in the LMC with a probable 19.9-day orbital period.
IGR J06074+2205	*Simon, A.O., Bondar, A.V., Metlova, N.V.* 2012, PZ 32, 5. (2c, 5i) Spectroscopic evidence for appearance of a new decretion disk.
PSR J0610−2100	*Pallanca, C. et al.* (8 authors) 2012, ApJ 755, 180. (1ao) ESO VLT recovery of optical companion to ms PSR.
2MASS J06541234+6021314 (TYC 4110-1037-1)	*Wisniewski, J.P. et al.* (45 authors) 2012, AJ 143, 107. (2ado, 5de) Solar-type star with very low-mass stellar companion.
MXB 0656−072	*Yan, J. et al.* (5 authors) 2012, ApJ 753, 73. (1ax, 2ox) Multi-wavelength study of HMXRB.
HS 0705+6700	(see V470 Cam)
PSR J0737−3039	*Ferraro, F.R. et al.* (13 authors) 2012, ApJ 749, 84. (1ao) Constraint on the optical emission.
	Yuen, R. et al. (7 authors) 2012, ApJ 752, L32. (1r) Changes in polarization angle across the eclipse of a binary pulsar.
EXO 0748−676	(see UY Vol)
DASCH J075731.1+201735	*Tang, S. et al.* (7 authors) 2012, ApJ 751, 99. (1co*, 1ao, 2ao) Possible nova-like activity in archival data.
2MASS J09142593+1853543 (TYC 1404-1687-1)	*Samec, R.G. et al.* (5 authors) 2012, Observatory 132, 98. (1ao, 5abc) Extreme mass-ratio contact binary.
2S 0921−630	(see V395 Car)
SDSS J092646.88+132134.5	*Dobbie, P.D. et al.* (8 authors) 2012, MNRAS 421, 202. (1ao*, 2abc, 4a, 5dehj, 6b) Discovery of double-degenerate binary with non-magnetic DA WD and highly magnetic WD (SDSS J092647.00+132138.4) components; WD masses derived and evolutionary history discussed.
PG 1018−047	*Deca, J. et al.* (10 authors) 2012, MNRAS 421, 2798. (2aco, 5bd) sdB+K dwarf binary with longest orbital period known (759 d); possible formation channels discussed.

2MASS J10501366−0000323	*Clem, J.L., Landolt, A.U.* 2012, PASP 124, 535. (1ao, 5abc) Contact binary in the field of UY Sex.
IRAS 11472−0800	(see AF Crt)
SDSS J121130.94−024954.4	*Rebassa-Mansergas, A. et al.* (13 authors) 2012, MNRAS 423, 320. (2abc, 5bdeg, 8ac) Study of post-common envelope binaries from.
SDSS J125044.42+154957.3	*Breedt, E. et al.* (7 authors) 2012, MNRAS 423, 1437. (1ao, 2abc, 5bcdeg, 8c) Evolutionary state.
PSR B1259−63	(see CPD $-63°2495$)
CTCV J1300−3052	(see V1258 Cen)
CXOU J132527.6−430023	*Burke, M.J. et al.* (21 authors) 2012, ApJ 749, 112. (2dx, 6b) Compact object likely is a BH rather than a NS.
1SWASP J133105.91+121538.0	*Lohr, M.E. et al.* (6 authors) 2012, A&A 542, A124. (1ao, 5b) Period decrease in EB candidate near the short-period limit.
WDS J14545+1606B (Gliese 569b)	*Kenworthy, M.A., Scuderi, L.J.* 2012, ApJ 752,131. (1ai) IR observations of binary brown dwarf.
SDSS J150746.48+521002.1	*Dobbie, P.D. et al.* (8 authors) 2012, MNRAS 421, 202. (1ao*, 2abc, 4a, 5dehj, 6b) Discovery of double-degenerate binary with non-magnetic DA WD and highly magnetic WD (SDSS J150746.80+520958.0) components; WD masses derived and evolutionary history discussed.
SDSS J151415.65+074446.5	*Breedt, E. et al.* (7 authors) 2012, MNRAS 423, 1437. (1ao, 2abc, 5bcdeg, 8c) Evolutionary state.
MAXI J1543−564	*Stiele, H. et al.* (4 authors) 2012, MNRAS 422, 679. (1x) Spectral-timing analysis during faint outburst of BH x-ray binary candidate.
CXOPS J154305.5−522709	*Servillat, M. et al.* (6 authors) 2012, ApJ 748, 32. (2dx, 5e) Measurement of mass and radius of NS.
2S 1553−542	*Pahari, M., Pal, S.* 2012, MNRAS 423, 3352. (1gx, 5cegi, 8a) Analysis of observations of recent flaring activity.
NTTS 155808−2209	(see V1151 Sco)
RX J1602.8+2520 (GSC 2038-0293)	*Dal, H.A., Sipahi, E., Özdarcan, O.* 2012, PASA 29, 523. (1o, 5c) Spot model and magnetic activity.
4U 1626−67	(see KZ TrA)
IGR J16318−4848	*Chaty, S., Rahoui, F.* 2012, ApJ 751, 150. (2dir) Probed the material surrounding the supergiant.
4U 1636−53	(see V801 Ara).
XTE J1650−500	*Walton, D.J. et al.* (5 authors) 2012, MNRAS 422, 2510. (1x, 5cg, 8a) Similarity of broad iron lines in the binary and active galactic nuclei.
GRO J1655−40	(see V1033 Sco)
OAO 1657−415	*Mason, A.B. et al.* (8 authors) 2012, MNRAS 422, 199. (2ai, 5d) Near IR spectroscopy of HMXB yields dynamically determined NS mass of 1.42 $M_\odot$ and donor star mass of 14.3 $M_\odot$; formation and evolutionary state discussed.
IGR J17091−3624	*Capitanio, F. et al.* (6 authors) 2012, MNRAS 422, 3130. (1x, 5bcgi) The peculiar 2011 outburst. *Rebusco, P. et al.* (4 authors) 2012, A&A 540, L4. Period doubling and non-linear resonance in BH candidate.
PSR J1719−1438	*Horvath, J.E.* 2012, RAA 12, 813. (8a) An exotic quark object rather than a light helium/carbon WD for the compact companion.

	van Haaften, L.M. et al. (4 authors) 2012, A&A 541, A22. (8d) Companion in 2.2 h orbit likely a He or CO WD.
SDSS J172406+562003	*Shimansky, V.V. et al.* (6 authors) 2012, ARep 56, 441. (1a, 2ac, 5bcdeg) Intermediate-age pre-CV.
4U 1728−16	(see V2216 Oph)
KS 1731−260	*Ozel, F., Gould, A., Guver, T.* 2012, ApJ 748, 5. (1ai, 2do, 6d) New CV.
PSR J1738+0333	*Antoniadis, J. et al.* (8 authors) 2012, MNRAS 423, 3316. (1ao, 2abc, 5cdeg, 8a) Mass determination and evolutionary history. *Freire, P.C.C. et al.* (10 authors) 2012, MNRAS 423, 3328. (1r, 5ceg, 8a) Results of a 10-year timing campaign.
XTE J1739−302	*Farinelli, R. et al.* (9 authors) 2012, MNRAS 424, 2854. (1gx, 5cgi, 8a) Results from observations of the most recent outbursts.
H 1743−322	*Altamirano, D., Strohmayer, T.* 2012, ApJ 754, L23. (1x, 2x) BH binary with QPOs seen in NS binaries. *Miller-Jones, J.C.A. et al.* (18 authors) 2012, MNRAS 421, 468. (1rx, 4ac) Jet ejection in outburst of galactic BH candidate x-ray binary resolved.
1SWASP J174310.98+432709.6	(see V1067 Her)
1RXS J174320.1−042953	*Denisenko, D.V., Martinelli, F.* 2012, PZ 32, 3. (1a, 5c) Study of CV.
1A 1744−361	*Gavriil, F.P., Strohmayer, T.E., Bhattacharyya, S.* 2012, ApJ 753, 2. (2x, 5h) Fe XXIV absorption line.
EXO 1745−248	*Barret, D.* 2012, ApJ 753, 84. (1x, 2x) kHz QPOs in x-ray transients in Terzan 5. *Degenaar, N., Wijnands, R.* 2012, MNRAS 422, 581. (1x, 5i) Strong x-ray variability during quiescent state of LMXB with NS component found. *Serino, M. et al.* (8 authors) 2012, PASJ 64, 91. (1x, 2dx) X-ray detection of a superburst.
IGR J17473−2721	*Chen, Y-P. et al.* (5 authors) 2012, ApJ 752, L34. (1x, 2x) Corona on NS XRB.
1RXS J174755.8−263352 (GX 3+1)	*Piraino, S. et al.* (10 authors) 2012, A&A 542, L27. (2dx, 5ei) Relativistic iron emission line from the NS in the LMXB.
IGR J17480−2446	*Barret, D.* 2012, ApJ 753, 84. (1x, 2x) kHz QPOs in x-ray transients in Terzan 5.
Swift J1749.4−2807	*Degenaar, N., Patruno, A., Wijnands, R.* 2012, ApJ 756, 148. (1x, 2x) Accreting MS x-ray pulsar-EB.
SAX J1750.8−2900	*Lowell, A.W. et al.* (9 authors) 2012, ApJ 749, 111. (2dx) May contain the hottest, most luminous NS known.
IGR J17511−3057	*Paizis, M.A. et al.* (7 authors) 2012, ApJ 755, 52. (1x, 2x) Chandra observations of bursting ms x-ray pulsar.
IGR J17544−2619	*Farinelli, R. et al.* (9 authors) 2012, MNRAS 424, 2854. (1gx, 5cgi, 8a) Results from observations of the most recent outbursts.
1RXS J180108.7−250444 (GX 5-1)	*Sriram, K., Choi, C.S., Rao, A.R.* 2012, ApJS 200, 16. (1x, 2x) Possible evidence for a truncated AD.
PSR J1816+4510	*Kaplan, D.L. et al.* (24 authors) 2012, ApJ 753, 174. (1agoru) Companion to ms pulsar studied.
XTE J1817−330	*Sriram, K., Rao, A.R., Choi, C.S.* 2012, A&A 541, A6. (2dx*, 5i) Fast transition of type-B QPOs in the BH transient.

MAXI J1836−194	*Reis, R.C., et al.* (5 authors) 2012, ApJ 751, 34. (2cdx) Identify compact object as BH.
AX J1841.0−0536	*Kawabata Nobukawa, K. et al.* (4 authors) 2012, PASJ 64, 99. (1x, 2dx) X-ray detection of many short flares and a large flare.
4U 1907+09	*Şahiner, Ş., Inam, Ş.C., Baykal, A.* 2012, MNRAS 421, 2079. (1x*) Pulse period history of accretion powered pulsar revised; orbital phase-dependent H column density and x-ray flux.
2MASS J19083956+3922369 (KIC 4247791)	*Lehmann, H. et al.* (5 authors) 2012, A&A 541, A105. (1ao*, 2ao, 5cde) A quadruple system with two EBs.
GRS 1915+105	(see V1487 Aql).
2MASS J19225242−4832106 (TYC 8380-1953-1)	*López-Santiago, J., Stelzer, B., Saxton, R.* 2012, PASP 124, 682. (1x, 2abde, 5g, 6b) New chromospherically active binary found first by x-ray observations.
2MASS J19293152+3804359 (KIC 2856960)	*Armstrong, D. et al.* (10 authors) 2012, A&A 545, 4. (7b) A transiting companion to EB detected.
2MASS J19365001+4201436 (KIC 6614501)	*Silvottil, R. et al.* (20 authors) 2012, MNRAS 424, 1752. (1a, 2a, 5abcde, 8a) Orbital properties.
2MASS 19383260+4603591	*Bartow, B.N., Wade, R.A., Liss, S.E.* 2012, ApJ 753, 101. (1oi*, 5abc) Analysis of Kepler photometry yields Romer delay and mass ratio of sdB+dM EB.
2MASS J19495420+4106514 (KOI-126)	*Spada, F., Demarque, P.* 2012, MNRAS 422, 2255. (1ao, 2bco, 5cdeg, 8a) Modelling the components of the system.
SWIFT J1955+2614	*Šimon, V. et al.* (12 authors) 2012, MNRAS 422, 981. (1aoi, 5j) Optical synchrotron emission and flares of ultracompact x-ray binary after γ-ray burst in 2007.
RE J2013+4002	*Shimansky, V.V. et al.* (6 authors) 2012, ARep 56, 441. (1a, 2ac, 5abcdeg) Intermediate-age pre-CV.
2MASS J20200045+0437564 (NSVS 14256825)	*Almeida, L.A. et al.* (4 authors) 2012, MNRAS 423, 478. (1aio, 2a, 5abcdeg, 8a) Photometric and spectroscopic study.
	Beuermann, K. et al. (23 authors) 2012, A&A 540, A8. (5ab) Search for companions to post-common envelope binaries.
	Kilkenny, D., Koen, C. 2012, MNRAS 421, 3238. (1bo, 5ab) Orbital period of eclipsing sdB+dM binary is rapidly increasing.
4U 2206+54	(see BD +53°2790)
SDSS J222108.45+002927.7	*Rebassa-Mansergas, A. et al.* (13 authors) 2012, MNRAS 423, 320. (2abc,5bdeg, 8ac)Study of post-common envelope binaries from.
2MASS J22455869+5628318 (GSC 3992-2510)	*Samec, R.G. et al.* (7 authors) 2012, IBVS No. 6035. (1a, 5abc, 6bd) UBVRI photometry of near contact EB.
1SWASP J234401.81−212229.1	*Lohr, M.E. et al.* (6 authors) 2012, A&A 542, A124. (1ao, 5b) Period decrease in EB candidate near the short-period limit.
2MASS J23461047+7129554 (GSC 4487-0347)	*Kozyreva, V.S., Kusakin, A.V., Menke, J.* 2012, IBVS No. 6020. (1a, 5abcf) Apsidal motion in eccentric EB.

Objects with other designations

Gliese 569b	(see WDS J14545+1606B)
GRS 1915+105	(see V1487 Aql)

GSC 0763-0572	(see CZ CMi)
GSC 2038-0293	(see RX J1602.8+2520)
GSC 2855-0585	(see 2MASS J03093252+4252387)
GSC 3992-2510	(see 2MASS J22455869+5628318)
GSC 4031-0791	(see 2MASS J01411638+6121185)
GSC 4487-0347	(see 2MASS J23461047+7129554)
GX 3+1	(see 1RXS J174755.8−263352)
GX 5-1	(see RXS J180108.7−250444)
GX 17+2	(see NP Ser)
GX 301-2	(see BP Cru)
GX 304-1	(see V850 Cen)
GX 339-4	(see V821 Ara)
Haro 6-10	(see GV Tau)
Holmberg II X-1	*Kajava, J.J.E. et al.* (4 authors) 2012, MNRAS 422, 990. (1x, 2dx, 5i) Ultraluminous x-ray source with possible stellar-mass BH component.
KIC 2856960	(see 2MASS J19293152+3804359)
KIC 2991403	*Pablo, H. et al.* (19 authors) 2012, MNRAS 422, 1343. (1ao) KEPLER data of close sdB+dM binary used for asteroseismologic analysis of pulsating sdB component; sdB star rotates much slower than in synchronized case.
KIC 4247791	(see 2MASS J19083956+3922369)
KIC 6614501	(see 2MASS J19365001+4201436)
KIC 11179657	*Pablo, H. et al.* (19 authors) 2012, MNRAS 422, 1343. (1ao) KEPLER data of close sdB+dM binary used for asteroseismologic analysis of pulsating sdB component; sdB star rotates much slower than in synchronized case.
KOI-126	(see 2MASS J19495420+4106514)
LHS 1070	(see 2MASS J00244419−2708242)
LS I +61°303	(see V615 Cas)
MOA-2011-BLG-090	*Shin, I-G. et al.* (130 authors) 2012, ApJ 755, 91. (1ao) Low-mass binary system (M-type) observed in gravitational microlensing events.
MWC 148	(see HDE 259440)
MWC 656	(see HD 215227)
NGC 188 5438	*Griffin, R.F.* 2012, AJ 144, 51. (2a*, 5d) Alternative orbit provides improved fit to data.
NGC 1291	*Luo, B., et al.* (10 authors) 2012, ApJ 749, 130. (2dx, 6b) Discovery of likely XRBws in galaxy.
NGC 6652	*Stacey, W.S., et al.* (5 authors) 2012, ApJ 751, 62. (1ax) Detection, discovery of XRB's in globular cluster.
NGC 6791	*Brogaard, K. et al.* (14 authors) 2012, A&A 543, 106. (5h) Age and helium content of the open cluster NGC 6791 from multiple EB members. II. Age dependencies and new insights.
NIK 1	*Barclay, T. et al.* (5 authors) 2012, MNRAS 422, 1219. (1ao, 5c, 6b) New dwarf nova of SU UMa type found from KEPLER observations 7 arcsec from 2MASS J19394843+3927236 (KIC 4378554); superoutburst with superhumps covered.

NSVS 14256825	(see 2MASS J20200045+0437564)
OGLE-2007-BLG-514	*Miyake, N. et al.* (81 authors) 2012, ApJ 752, 82. (1ao, 2o) Binary system observed in gravitational microlensing event.
OGLE-2011-BLG-417	*Shin, I-G. et al.* (130 authors) 2012, ApJ 755, 91. (1ao) Low-mass binary system (M-type) observed in gravitational microlensing event.
OGLE-BLG-RRLYR-02792	*Pietrzyński, G. et al.* (17 authors) 2012, Nature 484, 75. (2ado, 5bcde) RR Lyrae-type pulsations from a 0.26-solar mass star in a detached, double-lined EB.
PNG135.6+01.0	*Seigel, M.H. et al.* (5 authors) 2012, AJ 144, 65. (1aou, 6b) Central giant star found to have hot companion.
PTF 11kx	*Dilday, B. et al.* (35 authors) 2012, Science 337, 942. (2cdo, 5gi) Type Ia SN with a symbiotic nova progenitor.
SN2011fe	*Liu, J. et al.* (4 authors) 2012, ApJ 749, 141. (1ao, 2dx) Attempt to identify the progenitor of Type Ia SN in M 101.
SS 433	(see V1343 Aql)
TYC 1404-1687-1	(see 2MASS J09142593+1853543)
TYC 2930-872-1	(see BD +39°1560)
TYC 4110-1037-1	(see 2MASS J06541234+6021314)
TYC 8380-1953-1	(see 2MASS J19225242−4832106)
UCAC2 31686238	*Clem, J.L., Landolt, A.U.* 2012, PASP 124, 535. (1ao, 5abc) Contact binary in the field of UY Sex.
VFTS 698	(see SSTISAGEMC J053857.30−690709.5)

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Cyg, V469 Cyg, V484 Cyg, V488 Cyg, V494 Cyg, V496 Cyg, V502 Cyg, V505 Cyg, V512 Cyg, V541 Cyg, V616 Cyg, V635 Cyg, V675 Cyg, V680 Cyg, V700 Cyg, V711 Cyg, V725 Cyg, V728 Cyg, V753 Cyg, V789 Cyg, V796 Cyg, V859 Cyg, V869 Cyg, V873 Cyg, V877 Cyg, V889 Cyg, V891 Cyg, V907 Cyg, V931 Cyg, V934 Cyg, V941 Cyg, V947 Cyg, V959 Cyg, V961 Cyg, V962 Cyg, V963 Cyg, V965 Cyg, V974 Cyg, V975 Cyg, V1004 Cyg, V1011 Cyg, V1013 Cyg, V1034 Cyg, V1061 Cyg, V1083 Cyg, V1141 Cyg, V1147 Cyg, V1171 Cyg, V1256 Cyg, V1305 Cyg, V1401 Cyg, V1411 Cyg, V1414 Cyg, V1417 Cyg, V1437 Cyg, V1481 Cyg, V1763 Cyg, V1815 Cyg, V1823 Cyg, V1908 Cyg, V1918 Cyg, V2080 Cyg, V2181 Cyg, V2240 Cyg, V2261 Cyg, V2263 Cyg, V2277 Cyg, V2364 Cyg, V2456 Cyg, Z Dra, RR Dra, TZ Dra, WX Dra, AU Dra, AX Dra, MU Dra, MY Dra, AV Gem, FT Gem, GQ Gem, GZ Gem, AK Her, V342 Her, V490 Her, V857 Her, V1054 Her, V1055 Her, V1062 Her, V1066 Her, V1073 Her, V1092 Her, V1100 Her, V1101 Her, V1103 Her, WY Hya, V470 Hya, SW Lac, UY Lac, VV Lac, VY Lac, ZZ 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Psc, UV Psc, AQ Psc, DZ Psc, U Sge, V Sge, TU Sge, CU Sge, CW Sge, DK Sge, DL Sge, FF Sge, FH Sge, V384 Ser, RW Tau, TY Tau, AP Tau, CU Tau, GR Tau, V1022 Tau, V1121 Tau, V Tri, RV Tri, RW Tri, ST Tri, VZ Tri, WW Tri, BU Tri, BV Tri, W UMa, NT UMa, W UMi, AG Vir, LU Vir, AW Vul, AX Vul, AZ Vul, BG Vul, BK Vul, BO Vul, BQ Vul, BS Vul, CD Vul, EO Vul, EQ Vul, EU Vul, EV Vul, EY Vul, FF Vul, FM Vul, FR Vul, GI Vul, GP Vul, GU Vul, HS Vul, KN Vul, NO Vul, V467 Vul, GSC 00871-00486, GSC 01100-01182, GSC 01127-01808, GSC 01383-00181, GSC 01383-01023, GSC 01643-01880, GSC 02038-00293, GSC 02040-00212, GSC 02140-01485, GSC 02157-00014, GSC 02161-01310, GSC 02192-01283, GSC 02484-00139, GSC 02537-00520, GSC 02569-00553, GSC 02610-00088, GSC 02656-04286, GSC 02660-04155, GSC 02673-02495, GSC 02677-00988, GSC 03547-02135, GSC 03575-06239, GSC 03612-00014, GSC 03618-00448, GSC 03619-00047, GSC 03619-00715, GSC 03679-02129, GSC 03688-01184, GSC 03949-01072, GSC 04009-00670, GSC 04285-00122, GSC 04339-01166, GSC 04827-02862, GSC 04827-02889, GSC 04965-00293, GSC 06281-00246, NSV 2146, NSV 24737, NSV 5501, NSVS 10105062, NSVS 10123419, NSVS 103152, NSVS 1701206, NSVS 1810013, NSVS 1857770, NSVS 4307145, NSVS 4319623, NSVS 5811775, USNO-A2 1200-07442402, USNO-A2 1200-11760524, USNO-A2 1200-12680286, USNO-A2 1275-16067829, USNO-A2 1500-01208912, USNO-B1 1092-0472807, USNO-

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