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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
d. Elements derivable from velocity curves
e. Absolute dimensions, masses
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

47 And	*Fekel, F.C. et al.* (4 authors) 2011, AJ 142, 69. (2a, 5d) New precise orbit.
HU Aqr	*Schwope, A.D. et al.* (4 authors) 2011, A&A 531, A34. (2ao, 5de) Dissecting the donor star in eclipsing polar.
V1333 Aql (Aql X-1)	*Cackett, E.M. et al.* (5 authors) 2011, MNRAS 414, 3006. (1x, 5cgi) Quiescent x-ray variability.
	Raichur, H., Misra, R., Dewangan, G. 2011, MNRAS 416, 637. (1x, 5cgi) Broad-band spectral analysis.
V1343 Aql (SS 433)	*Blundell, K.M., Hirst, P.* 2011, ApJ 736, L7. (1ix) Wind ejecta from major flare.
	Bowler, M.G. 2011, A&A 531, A107. (2c, 5i) More on the circumbinary disk.
V1408 Aql (4U 1957+115)	*Bayless, A.J. et al.* (4 authors) 2011, ApJ 730, 43. (2ao) Orbital modulation caused by irradiation of secondary star.
V1487 Aql (GRS 1915+105)	*Maccarone, T.J. et al.* (5 authors) 2011, MNRAS 413, 1819. (1x, 5bcgi) Coupling between QPOs and broad-band noise components.
	Török, G. et al. (4 authors) 2011, A&A 531, A59. (1a, 2x) Confronting the models of 3:2 quasiperiodic oscillations with the rapid spin of the microquasar.
V1721 Aql	*Hounsell, R. et al.* (6 authors) 2011, A&A 530, A81. (1d, 2o) A very luminous, highly extinguished, very fast nova.
V801 Ara (4U 1636−536)	*Shih, I.C., Charles, P.A., Cornelisse, R.* 2011, MNRAS 412, 120. (1aox*, 2dx, 5i) Simultaneous optical, soft and hard x-ray monitoring of LMXB.
V821 Ara (GX 339-4)	*Kolehmainen, M., Done, C., Trigo, M.D.* 2011, MNRAS 416, 311. (1x, 5cgi, 8a) Modelling the high-mass accretion rate spectra.
UX Ari	*Peterson, W.M. et al.* (5 authors) 2011, ApJ 737, 104. (4c) VLBI observations of orbit of triple star system.
α Aur	*Weber, M., Strassmeier, K.G.* 2011, A&A 531, A89. (2ao, 5de) New precise spectroscopic orbit.
ϵ Aur	*Chadima, P. et al.* (15 authors) 2011, A&A 530, A146. (1bo, 2co) EB prior to and during the 2009-2011 eclipse.
FS Aur - 79	*Austin, S.J. et al.* (5 authors) 2011, AJ 141, 124. (1ao, 2do, 5cdeg) Near-contact system close to FS Aur; study of chromospheric activity.
VW Boo	*Liu, L. et al.* (5 authors) 2011, AJ 141, 147. (1ao, 5abc) Shallow W-type contact binary.
DU Boo	*Pribulla, T. et al.* (5 authors) 2011, Astron. Nachr. 332, 607. (1bo, 2ao, 5bcde) A-type contact system with strong O'Connell effect.
AS Cam	*Pavlovski, K., Southworth, J. Kolbas, V.* 2011, ApJ 734, L29. (2o) Apsidal motion, misaligned rotation and orbital axes plus asynchronous rotation?
BL Cam	*Álvarez, M. et al.* (6 authors) 2011, RMxAC 40, 266. (1a, 2d) Possible triple system with SX Phe-type primary.
EH Cnc	*Yang, Y.-G. et al.* (4 authors) 2011, PASP 123, 895. (1ao, 5abcj) Possible third body.
	Yang, Y.-G. et al. (4 authors) 2011, PASP 123, 1138. (10b) Erratum to PASP 123, 895.

EZ CMa

Flores, A. et al. (4 authors) 2011, RMxAA 47, 261. (2do, 5ghj) High-resolution study of WR binary.

η Car

Artigau, É. et al. (6 authors) 2011, AJ 141, 202. (1ai, 5j) New IR AO imaging of nebulosity.

Bednarek, W., Pabich, J. 2011, A&A 530, A49. (2dxg*) High-energy radiation from the massive binary system.

Kashi, A., Soker, N., Akashi, M. 2011, MNRAS 413, 2658. (2co, 5dgj, 8a) Explaining the transient fast blue absorption lines.

Smith, N., Frew, D. J. 2011, MNRAS 415, 2009. (1do, 5cg) Revised historical light curve and timing of close periastron encounters.

OY Car

Khruzina, T.S. 2011, ARep 55, 425. (5ic, 8bd) Synthetic LCs of CBs in a cool-disk model. The 'hot line' and 'hot spot' as visual indicators of interaction between the flow and disk.

V429 Car (WR 22)

Parkin, E.R., Gosset, E. 2011, A&A 530, A119. (8bd) 3D hydrodynamical models for the massive WR+O binary.

V474 Car

Bubar, E.J. et al. (4 authors) 2011, AJ 141, 140. (2ado, 5dgh) High-velocity halo RS CVn-type binary.

38 Cas

Fekel, F.C. et al. (4 authors) 2011, AJ 142, 69. (2a, 5d) New precise orbit.

V615 Cas (LS I +61°303)

Acciari, V.A. et al. (86 authors) 2011, ApJ 738, 3. (1gx, 2gx) Three years of observations.

Li, J. et al. (9 authors) 2011, ApJ 733, 89. (1ax,2dx) Analysis of spectral variability and flares.

McSwain, M.V. et al. (6 authors) 2011, ApJ 738, 105. (12r) Search for pulsar in HMXB.

Nunez, P.D., LeBohec, S., Vincent, S. 2011, ApJ 731, 105. (5e) Compact object has mass > 2.5 $M_\odot$, implying BH.

V662 Cas (2S 0114+65)

Wang, W. 2011, MNRAS 413, 1083. (1x, 2dx) Long-term hard x-ray monitoring, study of pulse period and spin-up rate of HMXB.

V1037 Cas (IGR J00291+5934)

Papitto, A. et al. (6 authors) 2011, A&A 528, A55. (2dx) Spin down during quiescence of the accretion-powered PSR in the LMXB.

EQ Cep

Liu, L. et al. (8 authors) 2011, MNRAS 415, 3006. (1ao, 5abceg, 8ac) Photometric investigation.

ER Cep

Liu, L. et al. (8 authors) 2011, MNRAS 415, 3006. (1ao, 5abceg, 8ac) Photometric investigation.

LZ Cep

Mahy, L. et al. (5 authors) 2011, A&A 533, A9. (1ao, 5ac, 8c) The two components of the evolved massive binary: testing the effects of binarity on stellar evolution.

V371 Cep

Liu, L. et al. (8 authors) 2011, MNRAS 415, 3006. (1ao, 5abceg, 8ac) Photometric investigation.

WW Cet

Fertig, D. et al. (4 authors) 2011, PASP 123, 1054. (1x, 5i) X-ray and optical variations anticorrelated.

XY Cet

Southworth, J. et al. (6 authors) 2011, MNRAS 414, 3740. (1ao, 2ab, 5abcdeg) A photometric and spectroscopic study.

ES Cet

Copperwheat, C.M. et al. (11 authors) 2011, MNRAS 413, 3068. (1ao, 5abcej) Period variation and period evolution.

BR Cir (Cir X-1)

Moin, A. et al. (8 authors) 2011, MNRAS 414, 3551. (4cr, 5cgi) Monitoring of the quiescent and flaring radio emission.

BW Cir (GS 1354−64)	*Reynolds, M.T., Miller, J.M.* 2011, ApJ 734, L17. (2dx) Observations show the system to be anomalously quiescent.
CC Com	*Köse, O. et al.* (5 authors) 2011, Astron. Nachr. 332, 626. (1ao, 2ao*, 5abcde) Absolute parameters of low-mass contact EB; period variations and evolutionary state discussed.
ϵ CrA	*Wilson, R.E., Raichur, H.* 2011, MNRAS 415, 596. (1ao, 5cdeg) Distance and temperature from absolute LC.
Q Cyg (Nova 1876)	*Kolobow, C., Sion, E.* 2011, PASP 123, 892. (2dux, 5gi) Analysis of archival IUE spectrum yields new estimates of accretion rate and distance.
WZ Cyg	*Lee, J.W. et al.* (6 authors) 2011, AJ 142, 12. (1ao, 5abce) Marginal contact binary with possible third component.
BF Cyg	*McKeever, J. et al.* (5 authors) 2011, PASP 123, 1062. (2ado, 5gj) Study of spectra at start of 2006 outburst.
KU Cyg	*Tang, S. et al.* (4 authors) 2011, ApJ 738, 7. (1c*) Archived Harvard observations from 1899-1904 reveal 5-year dust-accretion event of Algol system.
V404 Cyg	*Hernandez, J.J.G. et al.* (6 authors) 2011, ApJ 738, 95. (2o, 5h) Chemical abundances of the secondary component.
V444 Cyg (HD 193576, WR 139)	*Eriş, F.Z., Ekmekçi, F.* 2011, Astron. Nachr. 332, 616. (1bo, 2cu*, 5a*b-cej) Absolute parameters, period variability and stellar-wind mass loss of WN5 + O6 system studied. *Sitnik, T.G.* 2011, ARep 55, 616.(1ri, 4c) Structure and kinematics of the ISM near WR star.
V456 Cyg	*Nelson, R.H.* 2011, IBVS 5994. (1ab, 5abcd) Detached EB.
V1143 Cyg	*Wilson, R.E., Raichur, H.* 2011, MNRAS 415, 596. (1ao, 5cdeg) Distance and temperature from absolute LC.
V1341 Cyg	*Bałucińska-Church, M. et al.* (8 authors) 2011, A&A 530, A102. (1ao, 2dox, r, 5i) LMXB multi-wavelength campaign.
V1357 Cyg (Cyg X-1)	*Axelsson, M. et al.* (5 authors) 2011, MNRAS 412, 2260. (8d) Origin of BH spin in HMXB discussed. *Laurent, P. et al.* (6 authors) 2011, Science 332, 438. (3bx) Polarized γ-rays from the BH. *Rahoui, F. et al.* (7 authors) 2011, ApJ 736, 63. (1ix, 2ix) First mid-IR detection of compact jets. *Xiang, J. et al.* (4 authors) 2011, ApJ 738, 78. (1x, 2x) Using x-ray dust scattering to determine distance and dust distributions. *Zdziarski, A., Pooley, G.G., Skinner, G.K.* 2011, MNRAS 412, 1985. (1xr) Superorbital modulation of x-ray emission in hard state. *Zdziarski, A.A. et al.* (4 authors) 2011, MNRAS 416, 1324. (1rx, 5cgi, 8a) X-ray variability patterns and radio/x-ray correlations.
V1521 Cyg (Cyg X-3)	*Cerutti, B. et al.* (7 authors) 2011, A&A 529, A120. (2dg, 5i) Absorption of high-energy γ-rays in the HMXB. *Williams, P.K.G. et al.* (10 authors) 2011, ApJ 733, L20. (1grx) Multi-wavelength observations of flaring episode.
V1770 Cyg (HD 192163)	*Rustamov, D.N., Cherepashchuk, A.M.* 2011, ARep 55, 347. (2ado) WR star as a possible evolutionary progenitor of a LMXB.
V1898 Cyg	*Dervişoğlu, A. et al.* (4 authors) 2011, RMxAA 47, 297. (1ao*, 2ao, 5abcde) New spectroscopic study.

V2214 Cyg (KPD 1930+2752)	*Reed, M.D. et al.* (61 authors) 2011, MNRAS 412, 371. (1ao) WET campaign to observe complex non-radial sdB pulsations in a close sdB + WD binary with total mass close to 1.4 $M_\odot$.
V2491 Cyg (Nova 2008 No.2)	*Darnley, M.J. et al.* (4 authors) 2011, A&A 530, A70. (1ao) On the progenitor system of the nova.
	Ness, J.-U. et al. (15 authors) 2011, ApJ 733, 70. (1agx) XMM-Newton observations during supersoft source phase show similarities to RS Oph.
	Ribeiro, V.A.R.M. et al. (7 authors) 2011, MNRAS 412, 1701. (2a, 5j) Kinematical study of nova ejecta suggests expanding polar blobs and equatorial ring; relationship to central CB discussed.
AV Del	*Ghoreyshi, S.M.R., Ghanbari, J., Salehi, F.* 2011, PASA 28, 38. (1ao*, 2ao*, 5ei) Reanalysis of LCs and an optically thick AD model around the primary.
LT Del	*Arkhipova, V.P. et al. (5 authors)* 2011, AstL 37, 343. (1b, 2b, 5c) Phase variations of emission spectrum and parameters of cool component of symbiotic halo star
AA Dor (LB 3459)	*Kilkenny, D.* 2011, MNRAS 412, 487. (1ao, 5ab) Eclipse timings between 2000 and 2010 of sdOB + cool secondary CB yield precise constant period.
	Klepp, S., Rauch, T. 2011, A&A 531, L7. (1a*, 2c*, 5g, 8a) On the surface gravity of the sdOB primary of the post common-envelope binary.
BB Dor	*Schmidtobreick, L. et al.* (5 authors) 2011, RMxAC 40, 288. (2do, 5g) Structure in quiescence.
MT Dra	*Zubareva, A.M. et al. (6 authors)* 2011, ARep 55, 224. (1a, 5aci) Photometric study in 2005-2009.
66 Eri	*Makaganiuk, V. et al.* (10 authors) 2011, A&A 529, A160. (3bo) Chemical spots in the absence of a magnetic field in the binary HgMn star.
u Her	*Saad, S., Nouh, M.* 2011, BASI 39, 277. (2ao, 5dg) A spectroscopic study.
HZ Her (Her X-1)	*Leahy, D.A., Igna, C.* 2011, ApJ 736, 74. (1x*) X-ray LC.
	Sazonov, A.N. 2011, ARep 55, 230. (1b, 5ci) Multicolour photoelectric WBVR observations in 1986-1988: method and observations.
V446 Her (Nova 1960)	*Honeycutt, R.K., Robertson, J.W., Kafka, S.* 2011, AJ 141, 121. (1ao, 9) Long-term study of dwarf nova outbursts.
VW Hyi	*Fertig, D. et al.* (4 authors) 2011, PASP 123, 1054. (1x, 5i) X-ray and optical variations anticorrelated.
SW Lac	*Şenavcı, H.V. et al.* (4 authors) 2011, A&A 529, A11. (2o) Doppler imaging of the contact binary.
DK Lac (Nova 1950)	*Honeycutt, R.K. et al.* (8 authors) 2011, AJ 141, 122. (1ao, 2do) Long-term photometric study including low state 2001-3.
Y Leo	*Pop, A., Turcu, V., Marku, A.* 2011, Ap&SS 333, 17. (5b) Intriguing orbital-period variability.
XY Leo	*Qian, S.-B. et al.* (6 authors) 2011, AJ 141, 151. (1ao, 5abc) Totally eclipsing W UMa system with extreme mass ratio.
β Lyr	*Bonneau, D. et al.* (19 authors) 2011, A&A 532, A148. (4c, 5gj) Large Hα line-forming region; evidence for evolution with mass loss.
MV Lyr	*Godon, P., Sion, E.* 2011, PASP 123, 903. (2du*, 5gi) Analysis of archival FUSE spectrum yields estimates of boundary-layer temperature and accretion rate.
UX Mon	*Sudar, D. et al.* (6 authors) 2011, A&A 528, A146. (1abco*, 2ao*, 5bcde) W Ser binary.

BX Mon	*Elia, M. Leibowitz, E.M., Formiggini, L.* 2011, MNRAS 414, 2406. (1ao*u*, 5bcg, 8a) Period switching.
HI Mon	*Williams, S.J. et al.* (5 authors) 2011, AJ 142, 5. (1ao, 2a, 5cde) ASAS data (see also Collections of Data).
IM Mon	*Bakiş, H. et al.* (8 authors) 2011, PASJ 63, 1079. (1ao*, 2ao*, 5bcd) Detailed photometric and spectroscopic analyses of the binary in Ori OB1a association.
V578 Mon	*Garcia, E.V. et al.* (5 authors) 2011, AJ 142, 27. (1ab*, 5cf) Photometric solution including apsidal motion.
V694 Mon	*Zamanov, R. et al.* (7 authors) 2011, IBVS 5995. (1bc) UBVRI observations of flickering of symbiotic star.
QX Nor (4U 1608−522)	*Takahashi, H., Sakurai, S., Makishima, K.* 2011, ApJ 738, 62. (1x, 2x) Observations of LMXB in upper banana state.
V381 Nor (XTE J1550−564)	*Chaty, S., Dubus, G., Raichoor, A.* 2011, A&A 529, A3. (1ao, 3bi) Near-IR jet emission in the LMXB.
	Orosz, J.A. et al. (7 authors) 2011, ApJ 730, 75. (1ao, 2ai, 5bce) Mass ratio is 30.
	Steiner, J. et al. (9 authors) 2011, MNRAS 416, 941. (1x*, 5cegi, 8a) Measuring the spin via continuum-fitting and Fe-line methods.
RS Oph	*Adamakis, S. et al.* (4 authors) 2011, MNRAS 414, 2195. (1aoix, 5ceg, 8a) A pre-outburst signal in the long-term optical LC.
	Nelson, T. et al. (5 authors) 2011, ApJ 737, 7. (1ux, 2ux) Quiescent signatures of accretion and shocked gas.
	Patat, F. et al. (6 authors) 2011, A&A 530, A63. (2coi) Connecting symbiotic recurrent nova to type Ia SNe.
V2368 Oph	*Harmanec, P. et al.* (11 authors) 2011, A&A 531, A49. (1ao, 2a, 5e) An EB and SB2 used as a photometric comparison star for U Oph.
FT Ori	*Sabby, J. et al.* (4 authors) 2011, AJ 141, 195. (1ao, 2a, 5abcdef)
V1055 Ori (4U 0614+09)	*Hakala, P.J., Charles, P.A., Muhli, P.* 2011, MNRAS 416, 644. (1aox, 5cgi, 8a) Results of fast optical and x-ray variability.
II Peg	*Roettenbacher, R.M. et al.* (4 authors) 2011, AJ 141, 138. (1ao, 5k) Study of differential rotation by starspot imaging.
V404 Peg	*Gürol, B. et al.* (5 authors) 2011, Astron. Nachr. 332, 690. (1ao, 2ao*, 5cde) Light and RV curve analysis of A-type W UMa system.
V407 Peg	*Zasche, P.* 2011, IBVS 5991. (1a, 5a) CB with displaced secondary minimum.
β Per	*Peterson, W.M. et al.* (5 authors) 2011, ApJ 737, 104. (4c) VLBI observations of orbit of triple star system.
V963 Per	*Odell, A.P. et al.* (7 authors) 2011, IBVS 6001. (1ab) New LC and Ephemeris for CB.
WX Pyx	*Joshi, V.H., Ashok, N.M., Banerjee, B.P.K.* 2011, BASI 39, 259. (1ai, 5bj) Spin and orbital periods.
WZ Sge	*Kuulkers, E. et al.* (6 authors) 2011, A&A 528, A152. (1abdo, 1c*) Development of a cavity in the inner dwarf nova disk.
υ Sgr	*Bonneau, D. et al.* (19 authors) 2011, A&A 532, A148. (4c, 5gj) Large Hα line-forming region; evidence for evolution with mass loss.
V350 Sgr	*Evans, N.R. et al.* (5 authors) 2011, AJ 142, 87. (2a, 5de) New orbit and mass of Cepheid in binary system.

V4634 Sgr (GS 1826−238)	*Cocchi, M., Farinelli, R., Paizis, A.* 2011, A&A 529, A155. (2dx) BeppoSAX view of the NS-LMXB.
V5588 Sgr	*Tanaka, J. et al.* (8 authors) 2011, PASJ 63, 911. (2bdo) Spectral evolution of very slow nova.
δ Sco	*Meilland, A. et al.* (21 authors) 2011, A&A 532, A80. (2b, 5g) The binary Be star δ Scorpii at high spectral and spatial resolution. I. Disk geometry and kinematics before the 2011 periastron.
V818 Sco (Sco X-1)	*Aleksić, J. et al.* (152 authors) 2011, ApJ 735, L5. (1xg) No γ-rays detected.
V1309 Sco	*Stepien, K.* 2011, A&A 531, A18. (5e, 8c) Evolution of the progenitor binary before merger. *Tylenda, R. et al.* (11 authors) 2011, A&A 528, A114. (1aoi*) Contact binary merger.
V479 Sct (LS 5039)	*McSwain, M.V. et al.* (6 authors) 2011, ApJ 738, 105. (1r, 2r) Search for pulsar in HMXB. *Rea, N. et al.* (8 authors) 2011, MNRAS 416, 1514. (1x, 5cg, 8a) Searching for periodicity in the x-ray emission.
V725 Tau (3A 0535+262)	*Acciari, V.A. et al.* (75 authors) 2011, ApJ 733, 96. (1ax) γ-ray observations during giant x-ray outburst. *Moritani, Y. et al.* (5 authors) 2011, PASJ 63, L25. (2do) Drastic variability of emission line profiles.
V1123 Tau	*Zhang, X.-B. et al.* (4 authors) 2011, RAA 11, 583. (1ao, 5abce) Photometric study and absolute dimensions.
V1128 Tau	*Liu, L. et al.* (7 authors) 2011, Ap&SS 334, 131. (5b) Discovery of a cyclic period change in the contact binary system. *Zhang, X.-B. et al.* (4 authors) 2011, RAA 11, 583. (1ao, 5abce) Photometric study and absolute dimensions.
QS Tel	*Traulsen, I. et al.* (7 authors) 2011, A&A 529, A116. (2dx) CV, x-ray soft polar.
BZ UMa	*Godon, P. et al.* (4 authors) 2011, PASP 123, 1071. (2du, 5ghi) HST UV spectrum yields temperatures and abundaces.
TX UMa	*Glazunova, L.V., Mkrtichian, D.E., Rostopchin, S.I.* 2011, MNRAS 415, 2238. (2abc, 5bdeghijk) New orbit, spin rotation and chemical composition of components.
δ Vel	*Merand, A. et al.* (9 authors) 2011, A&A 532, A50. (2c, 5e) Self-consistent fundamental parameters and distance of nearby EB. *Pribulla, T. et al.* (11 authors) 2011, A&A 528, A21. (1ao, 2ao, 5cde) First reliable EB orbit.
GP Vel (Vela X-1)	*Doroshenko, V., Santangelo, A., Suleimanov, V.* 2011, A&A 529, A52. (2dx) Witnessing the magnetospheric boundary at work.
AG Vir	*Pribulla, T. et al.* (5 authors) 2011, Astron. Nachr. 332, 607. (1bo, 2ao, 5bcde) A-type contact system with strong O'Connell effect.
LU Vir	*Zasche, P.* 2011, IBVS 5991. (1a, 5a) CB with displaced secondary minimum.
NY Vir (PG 1336−018)	*Kilkenny, D.* 2011, MNRAS 412, 487. (1ao, 5ab) Eclipse timings between 2000 and 2010 of pulsating sdB + cool secondary CB yield precise period and decrease rate.

QS Vir	*Parsons, S.G. et al.* (4 authors) 2011, MNRAS 412, 2563. (2acou, 5j) Stellar prominences in WD + red dwarf binary detected; detached configuration of a pre-CV candidate suggested.
UY Vol (EXO 0748−676)	*Degenaar, N. et al.* (11 authors) 2011, MNRAS 412, 1409. (1x, 2dx) X-ray spectra reveal cooling NS component of x-ray binary in quiescence. *Díaz Trigo, M. et al.* (5 authors) 2011, A&A 528, A150. (2dx) LMXB in quiescence. *Jain, C., Paul, B.* 2011, RAA 11, 577. (1x) No detection of any pulsations near the burst-oscillation frequency of 44.7 Hz. *Zhang, G. et al.* (4 authors) 2011, MNRAS 414, 1077. (1x, 5cg, 8a) Measuring the distance and internal composition of the NS.
ER Vul	*Wilson, R.E., Raichur, H.* 2011, MNRAS 415, 596. (1ao, 5cdeg) Distance and temperature from absolute LC.
V406 Vul (XTE J1859+226)	*Rodriguez, J., Varniere, P.* 2011, ApJ 735, 79. (1x, 2x) Harmonics in QPO observations.

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

HR 5692	*Stefanik, R.P. et al.* (6 authors) 2011, AJ 141, 144. (2ao, 2du*, 4a*, 5deg) Orbit and study of WD companion.
HR 8467	*Fekel, F.C. et al.* (4 authors) 2011, AJ 142, 69. (2a, 5d) New precise orbit.
HD 24623	*Fekel, F.C., Williamson, M.H., Henry, G.W.* 2011, AJ 141, 145. (1bo, 2ao, 5d) F-type SB2.
HD 132563	*Desidera, S. et al.* (13 authors) 2011, A&A 533, A90. (5g) VB with one component a SB and the other hosting a giant planet.
HD 181068	*Derekas, A. et al.* (45 authors) 2011, Science 332, 216. (1ao, 2ao, 4c, 5cde) A red giant in a triply eclipsing compact hierarchical triple system.
HD 192163	(see V1770 Cyg)
HD 193322	*ten Brummelaar, T.A. et al.* (18 authors) 2011, AJ 142, 21. (2a, 4c, 5de) Interferometric and spectroscopic study of triple system.
HD 193576	(see V444 Cyg)
HD 196885	*Chauvin, G. et al.* (4 authors) 2011, A&A 528, A8. (4b, 2ao*) Planetary system in CB.
CD −35°9931 (MML 53)	*Hebb, L. et al.* (6 authors) 2011, A&A 531, A61. (2b, 5e) Precise orbit solution of low-mass, pre-main sequence EB.
CPD −63°2495 (PSR B1259−63)	*Kong, S.W. et al.* (4 authors) 2011, MNRAS 416, 1067. (5g, 8ac) Modelling the x-ray and TeV observations. *Moldon, J. et al.* (5 authors) 2011, ApJ 732, L10. (4br) Discovery of extended, variable radio structure. *Negueruela, I. et al.* (6 authors) 2011, ApJ 732, L11. (2dou, 5c) Discussion of constraints on compact object. *Okazaki, A.T. et al.* (7 authors) 2011, PASJ 63, 893. (8ab) 3-D simulations of tidal and wind interactions in this Be-pulsar system. *Pavlov, G.G., Chang, C., Kargaltsev, O.* 2011, ApJ 730, 2. (1ax) Observed emission from pulsar wind nebula.

van Soelen, B., Meintjes, B.J. 2011, MNRAS 412, 1721. (1aio) Effect of IR emission of Be circumstellar disk on inverse Compton γ-ray production in Be + pulsar binary studied.

X-ray sources with constellation names

Aql X-1	(see V1333 Aql)
Cir X-1	(see BR Cir)
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)
Vela X-1	(see GP Vel)

Objects with names including RA and DEC

IGR J00291+5934	(see V1037 Cas)
GALEX J003535.7+462353	Wils, P. at al. (4 authors) 2011, IBVS 5982. (1ab, 5a) New eclipsing dwarf nova.
XMMU J005011.2−730026	*Coel, M.J. et al.* (13 authors) 2011, MNRAS 414, 3281. (1x, 2o, 5cdg, 6c) Discovery of a new hard x-ray transient.
2MASS J00592888−2631054 (LTT 560)	*Tappert, C. et al.* (4 authors) 2011, A&A 532, A129. (1o, 2c, 5e) Accretion in detached post-common-envelope binary.
2S 0114+65	(see V662 Cas)
ASAS J021209+2708.3	*Acerbi, F., Barani, C., Martignoni, M.* 2011, RAA 11, 843. (1ao, 5abc) Photometric study and preliminary elements.
2MASS J02424290−1146451 (PHL 1445)	Wils, P. at al. (4 authors) 2011, IBVS 5982. (1ab, 5a) New eclipsing cataclysmic variable.
IGR J05007−7047	*D'Aì, A. et al.* (7 authors) 2011, A&A 529, A30. (2dx*) HMXB orbital period revealed by Swift-BAT.
3A 0535+262	(see V725 Tau)
1RXS J053855.6−640457 (LMC X-3)	*Straub, O. et al.* (9 authors) 2011, A&A 533, A67. (1x, 5i) Testing slim-disk models on thermal spectra.
4U 0614+09	(see V1055 Ori)
HESS J0632+057	*Bongiorno, S.D. et al.* (8 authors) 2011, ApJ 737, L11. (1x) Discovery of binarity.
	Moldón, J., Ribó, M., Paredes, J.M. 2011, A&A 533, L7. (1g, 2a, 6b) Revealing the extended radio emission from the γ-ray binary.
	Rea, N., Torres, D.E. 2011, ApJ 737, L12. (1x, 2x) Observations in low and high x-ray states.
SDSS J065133.33+284423.3	*Brown, W.R. et al.* (6 authors) 2011, ApJ 737, L23. (1i, 2o) Discovery of detached WD eclipsing binary with 12.75-min period.
VSX J074727.6+065050	*Woudt, P.A., Warner, B.* 2011, Ap&SS 333, 17. (1x, 5b) A dwarf nova with a non-radially pulsating WD primary.
EXO 0748−676	(see UY Vol)

2MASS J08111275+1057169 (PN G211.9+22.6, EGB 5)	*Geier, S. et al.* (4 authors) 2011, A&A 528, L16. (2au, 5de) A low-mass companion to the hot subluminous PN central star, discovered by the SPY survey.
SDSS J082053.53+000843.4	*Geier, S. et al.* (14 authors) 2011, ApJ 731, L22. (1ao, 2ao) Binary with subdwarf B and brown dwarf.
HS 0922+1333	*Vogel, J., Schwope, A.D., Schwarz, R.* 2011, A&A 530, A117. (1ao, 2adox, 5bcd) Pre-polar.
GRO J1008−57	*Naik, S. et al.* (4 authors) 2011, MNRAS 413, 241. (1x, 2dx) Pulse timings and broad-band spectral properties of transient HMXB pulsar during decline after outburst.
2MASS J10093888+1734522 (TYC 1422-01328-1)	*Fleming, S.W. et al.* (31 authors) 2011, AJ 142, 50. (1ao*, 2a, 5cde) Combining data from surveys leads to solution.
1A 1118−61	*Devasia, J. et al.* (4 authors) 2011, MNRAS 414, 1023. (1x, 2d, 5bcgi) timing and spectral studies during an outburst.
IGR J11215−5952	*Liu, Q.Z., Chaty, S., Yan, J.Z.* 2011, MNRAS 415, 3349. (5g, 8ac) Evolutionary scenarios.
PSR J1141−6545	*Antoniadis, J. et al.* (5 authors) 2011, MNRAS 412, 580. (1ao) Optical observations of $1.02\,M_\odot$ WD companion to pulsar.
2MASS J11461020+0141151 (TYC 0272-00458-1)	*Fleming, S.W. et al.* (31 authors) 2011, AJ 142, 50. (1ao*, 2a, 5cde) Combining data from surveys leads to solution.
SDSS J125733.63+542850.5	*Marsh, T.R. et al.* (7 authors) 2011, ApJ 736, 95. (2ao) Discovery of a massive WD companion to a 0.2 solar mass WD.
PSR B1259−63	(see CPD −63°2495)
IGR J13186−6257	*D'Aì, A. et al.* (7 authors) 2011, A&A 529, A30. (2dx*) HMXB orbital period revealed by Swift-BAT.
PG 1336−018	(see NY Vir)
1E1339.8+2837	*Stacey, W.S. et al.* (6 authors) 2011, ApJ 732, 46. (2dx) Perhaps the greatest CV x-ray luminosity.
GS 1354−64	(see BW Cir)
SWIFT J1539.2−6227	*Krimm, H.A. et al.* (7 authors) 2011, ApJ 735, 104. (1ux, 2ux) Discovery of a BH candidate.
XTE J1550−564	(see V381 Nor)
4U 1608−522	(see QX Nor)
PSR J1614−2230	*Bhalerao, V.B., Kulkarni, S.R.* 2011, ApJ 737, L1. (1o) Detection of an 0.5 solar mass binary companion.
SDSS J162520.29+120308.7	*Olech, A. et al.* (16 authors) 2011, A&A 532, A64. (1x) A new SU UMa star in the period gap.
Swift J1626.6−5156	*İçdem, B., İnam, S., Baykal, A.* 2011, MNRAS 415, 1523. (1x, 5cgi) Timing and x-ray spectral features. *Reig, P. et al.* (4 authors) 2011, A&A 533, A23. (2x) Multi-frequency observations.
4U 1636−536	(see V801 Ara)
IGR J16493−4348	*D'Al, A. et al.* (6 authors) 2011, A&A 532, A73. (1x, 6c) Evidence for a resonant cyclotron line from the Swift-BAT hard x-ray survey.
XTE J1652−453	*Han, P. et al.* (8 authors) 2011, MNRAS 413, 1072. (1x, 2dx) New x-ray transient and BH candidate observed during 2009 outburst.

1RXS J165443.5−191620	*Scaringi, S. et al.* (15 authors) 2011, A&A 530, A6. (1abo, 2o, 5bk) Confirmation of CV as an IP, and its orbital and spin periods.
MAXI J1659−152	*Kalamkar, M. et al.* (6 authors) 2011, ApJ 731, L2. (1ax) Suggested BH candidate.
	Muñoz-Darias, T. et al. (4 authors) 2011, MNRAS 415, 292. (1x, 5cgi) Spectral and timing analysis during its 2010 outburst.
XTE J1701−462	*Ding, G.Q. et al.* (5 authors) 2011, AJ 142, 34. (1x, 2x, 5i) Study of AD and NS magnetic field.
	Fridriksson, J.K. et al. (9 authors) 2011, ApJ 736, 162. (1x, 2x) Variable quiescent x-ray emission of NS-LMXB.
IGR J17091−3624	*Rodriguez, J. et al.* (8 authors) 2011, A&A 533, L4. (1rux, 6c) First simultaneous multi-wavelength observations of the BH candidate. ATCA, INTEGRAL, Swift, and RXTE views of the 2011 outburst.
XTE J1710−281	*Jain, C., Paul, B.* 2011, MNRAS 413, 2. (1x, 5ab) X-ray eclipse timing analysis yields precise and constant orbital period.
LSQ 172554.8−643839	*Rabinowitz, D. et al.* (8 authors) 2011, ApJ 732, 51. (1ai, 2ado, 5ab, 6b) New eclipsing CV may be a polar.
IGR J17285−2922 (XTE J1728−295)	*Sidoli, L. et al.* (5 authors) 2011, MNRAS 415, 2373. (1x, 5cgi) XMM-*Newton* and *INTEGRAL* observations.
MXB 1728−34 (4U 1728−34)	*Egron, E. et al.* (11 authors) 2011, A&A 530, A99. (2bcdx) X-ray spectroscopy of LMXB.
	Tarana, A. et al. (5 authors) 2011, MNRAS 416, 873. (1x, 5cg, 8a) Spectral states evolution.
IGR J17354−3255	*D'Aì, A. et al.* (7 authors) 2011, A&A 529, A30. (2dx*) HMXB orbital period revealed by Swift-BAT.
H1743−322	*Coriat, M. et al.* (10 authors) 2011, MNRAS 414, 677. (1rx, 5cgi, 8a) A study of the long-term radio/x-ray correlation.
EXO 1745−248	*Mukherjee, A., Bhattacharyya, S.* 2011, ApJ 730, L32. (1ax) Discovery of a highly coherent KHz QPO.
IGR J17480−2446	*Chakraborty, M., Bhattacharyya, S.* 2011, ApJ 730, L23. (1ax) Conclude that x-ray outbursts are from nuclear, not gravitational source.
	Linares, M., Chakrabarty, D., van der Klis, M. 2011, ApJ 733, L17. (1ax) X-ray outbursts have nuclear source.
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XTE J1751−305	*Riggio, A. et al.* (7 authors) 2011, A&A 531, A140. (5g) Secular spin-down of the accreting millisecond pulsar.
IGR J17511−3057	*Falanga, M. et al.* (9 authors) 2011, A&A 529, A68. (2dx*) Spectral and timing properties of the accreting x-ray millisecond PSR.
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XTE J1752−223	*Miller-Jones, J.C.A. et al.* (7 authors) 2011, MNRAS 415, 306. (1aor, 4ac, 5cgi) Accurate position and re-interpretation of the VLBI data.
GRS 1758−258	*Soria, R. et al.* (7 authors) 2011, MNRAS 415, 410. (1rx, 5cegi) A radio and x-ray study of accretion states.
PSR J1802−2124	*Chen, W.-C., Li, X.-D., Xu, R.-X.* 2011, A&A 530, A104. (8cd) He-star evolutionary channel to the intermediate-mass binary PSR.

IGR J18027−2016	*Mason, A.B. et al.* (5 authors) 2011, A&A 532, A124. (2x) The masses of the NS and donor star in the HMXB.
1RXS J180834.7+101041	*Southworth, J., Copperwheat,C.M.* 2011, Observatory 131, 66. (1ao, 5c) AD only is eclipsed, WD is not.
XTE J1817−330	*Roy, J. et al.* (4 authors) 2011, MNRAS 412, 1011. (1x*) Hard x-ray QPOs.
XTE J1818−245	*Zurita Heras, J.A., Cadolle Bel, M., Prat, L.* 2011, MNRAS 413, 235. (1ao, 2acdo, 5i) Study of irradiated AD and companion star of x-ray binary.
GS 1826−238	(see V4634 Sgr)
IGR J18410−0535	*Bozzo, E. et al.* (9 authors) 2011, A&A 531, A130. (1aoi, 6c) XMM-Newton observations of the ingestion of a clump by supergiant fast x-ray transient.
IGR J18483−0311	*Liu, Q.Z., Chaty, S., Yan, J.Z.* 2011, MNRAS 415, 3349. (5g, 8ac) Evolutionary scenarios.
XTE J1859+226	(see V406 Vul)
PSR J1903+0327	*Freire, P.C.C. et al.* (19 authors) 2011, MNRAS 412, 2763. (1aor, 2ao) Precise mass of millisecond pulsar in orbit with $1\,M_\odot$ companion; origin and evolution of binary discussed.
4U 1907+09	*Gvaramadze, V.V. et al.* (4 authors) 2011, A&A 529, A14. Discovery of a bow shock in the HMXB from Spitzer.
GRS 1915+105	(see V1487 Aql)
2MASS J19161817+5145267 (Kepler 16)	*Doyle, L.R. et al.* (49 authors) 2011, Science 333, 1602. (1ao, 2ao, 5cde) A transiting circum-EB planet.
2MASS J19211161+4758430 (KIC 10661783)	*Southworth, J. et al.* (17 authors) 2011, MNRAS 414, 2413. (1ao, 5abceg) A binary star with total eclipses and δ Scuti pulsations.
IGR J19294+1816	*Bozzo, E. et al.* (4 authors) 2011, A&A 531, A65. (1a, 2a) INTEGRAL and Swift observations of outburst.
KPD 1930+2752	(see V2214 Cyg)
PSR J1952+2630	*Knispel, B. et al.* (37 authors) 2011, ApJ 732, L1. (4br, 6b) Discovery of new binary pulsar.
4U 1957+115	(see V1408 Aql)
2MASS J20150023+7654182 (GSC 4589-2999)	*Liakos, A. et al.* (4 authors) 2011, Astron. Nachr. 332, 602. (1ao, 2abo, 5bcde) Absolute parameters for recently discovered Algol-type EB.
IPHAS J205836.43+503307.2	*Corradi, R.L.M. et al.* (8 authors) 2011, A&A 529, A56. (1aoi, 2do) A new carbon symbiotic star.

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CS 1246	*Barlow, B.N., Dunlap, B.H., Clemens, J.C.* 2011, ApJ 737, L2. (1o, 2o) Detection of low mass companion.
ETHOS 1	*Miszalski, B. et al.* (8 authors) 2011, MNRAS 413, 1264. (1ao, 2aco, 5j, 6b) Discovery of planetary nebula with CB as central star and polar outflows.
GSC 4589-2999	(see 2MASS J20150023+7654182)
GX 339-4	(see V821 Ara)

IC 10 X-1 — *Bulik, T., Belczynski, K, Prestwich, A.* 2011, ApJ 730, 140. (8c) Expect the system to evolve to a BH-BH binary.

Kepler-16 — (see 2MASS J19161817+5145267)

KIC 10661783 — (see 2MASS J19211161+4758430)

LB 3459 — (see AA Dor)

LTT 560 — (see 2MASS J00592888−2631054)

LS 5039 — (see V479 Sct)

LS I +61°303 — (see V615 Cas)

M4 V47 — *Liu, L., Qian, S.-B., Fernández-Lajús, E.* 2011, MNRAS 415, 1509. (1ao, 5abceg) An extreme contact binary system in the globular cluster M4.

M4 V53 — *Liu, L., Qian, S.-B., Fernández-Lajús, E.* 2011, MNRAS 415, 1509. (1ao, 5abceg) An extreme contact binary system in the globular cluster M4.

M5 V101 — *Hourihane, A.P. et al.* (4 authors) 2011, MNRAS 414, 184. (1aoix, 2ac, 5bcdegj) Photometric and spectroscopic study.

M22 CV1 — *Hourihane, A.P. et al.* (4 authors) 2011, MNRAS 414, 184. (1aoix, 2ac, 5bcdegj) Photometric and spectroscopic study.

MML 53 — (see CD −35°9931)

NGC 300 X-1 — *Bulik, T., Belczynski, K, Prestwich, A.* 2011, ApJ 730, 140. (8c) Expect the system to evolve to a BH-BH binary.

NGC 1313 X-1 — *Pintore, F., Zampieri, L.* 2011, Astron. Nachr. 332, 337. (2x, 5hi) Super-Eddington accretion model fit and chemical abundances.
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OGLE-2005-BLG-018	*Shin, J.-P. et al.* (8 authors) 2011, ApJ 735, 89. (1) Binary star lensing event, masses, semimajor axes determined.
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PHL 1445	(see 2MASS J02424290−1146451)
PN G211.9+22.6	(see 2MASS J08111275+1057169)
R139 in 30 Dor	*Taylor, W.D. et al.* (25 authors) 2011, A&A 530, L10. (2abo, 5de, 6b) The VLT-FLAMES Tarantula Survey. II. R139 revealed as a massive binary system.
SMC 3	*Sturm, R. et al.* (10 authors) 2011, A&A 529, A152. (2dx) Symbiotic binary.
SS 433	(see V1343 Aql)
TYC 0272-00458-1	(see 2MASS J11461020+0141151)
TYC 1422-01328-1	(see 2MASS J10093888+1734522)
USNO-B1.0 1320-0390658	*Denisenko, D.V.* 2011, PZ 31, 3. (6b) New CV in Lyra.
USNO-B1.0 1321-0397655	*Denisenko, D.V.* 2011, PZ 31, 3. (6b) New CV in Lyra.
W239	*Clark, J.S. et al.* 2011, A&A 531, A28. (2a, 5b, 8c) A VLT/FLAMES survey for massive binaries in Westerlund 1. III. The WC9d binary W239; implications for massive stellar evolution.
WR 22	(see V429 Car)
WR 139	(see V444 Cyg)

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HS Leo, GSC 1965-735, WZ LMi, CF Lyn, CL Lyn, EH Lyn, V400 Lyr, V563 Lyr, V2394 Oph, V2640 Oph, BO Peg, WY Sex, XX Sex, GQ Tau, HV UMa, OQ UMa, IK Vir, IR Vir, V384 Vul.

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Cnc, XZ Cnc, YY Cnc, AB Cnc, AC Cnc, AD Cnc, AE Cnc, AH Cnc, AO Cnc, EH Cnc, FF Cnc, GQ Cnc, GW Cnc, IL Cnc, IO Cnc, IR Cnc, IU Cnc, GSC 224-44, GSC 794-1208, GSC 795-590, GSC 800-1379, GSC 808-1106, GSC 809-569, GSC 815-1932, GSC 817-322, GSC 817-411, GSC 819-48, GSC 819-595, GSC 1383-181, GSC 1388-132, GSC 1395-877, GSC 1397-1030, GSC 1407-222, GSC 1927-862, GSC 1928-943, GSC 1936-40, GSC 1950-1942, NSV 4158, NSV 4188, NSV 4269, RV CVn, VV CVn, VZ CVn, YZ CVn, BI CVn, BO CVn, CI CVn, DF CVn, DH CVn, DI CVn, DK CVn, DQ CVn, DR CVn, DX CVn, DY CVn, EE CVn, EF CVn, EI CVn, EN CVn, RR CMa, SX CMa, GSC 5375-811, GSC 5375-1015, GSC 5404-2421, GSC 5406-2659, GSC 5407-2794, GSC 5934-2133, TU CMi, TX CMi, UZ CMi, XZ CMi, AC CMi, AM CMi, AV CMi, BF CMi, BX CMi, BZ CMi, CZ CMi, DG CMi, GSC 167-251, GSC 174-700, GSC 179-696, GSC 180-2135, GSC 181-1576, GSC 189-821, GSC 191-41, GSC 762-958, GSC 763-1042, GSC 764-235, DO Cas, OX Cas, V775 Cas, V952 Cas, V1137 Cas, CO Cep, EK Cep, V743 Cep, TV Cet, XY Cet, RW Com, RZ Com, SS Com, UX Com, AQ Com, CC Com, CM Com, CN Com, DD Com, EK Com, EQ Com, LL Com, LO Com, LP Com, LR Com, MM Com, GSC 871-248, GSC 880-55, GSC 881-218, GSC 1445-866, GSC 1446-1499, GSC 1446-2377, GSC 1994-465, GSC 1994-935, RT CrB, RW CrB, TU CrB, TW CrB, YY CrB, AR CrB, AS CrB, AV CrB, W Crv, ASAS J115645-1420.8, GSC 5532-1333, GSC 6085-670, GSC 6094-1317, GSC 6095-294, V Crt, AC Crt, GSC 5500-260, GSC 5507-705, GSC 5509-447, GSC 5509-1073, GSC 5509-1347, GSC 5516-355, GSC 6077-1825, GSC 6085-670, EN Cyg, V477 Cyg, V498 Cyg, V962 Cyg, V974 Cyg, V1004 Cyg, V1136 Cyg, V1355 Cyg, GSC 3152-1202, Z Dra, RX Dra, AR Dra, AX Dra, BF Dra, BL Dra, BX Dra, CM Dra, FU Dra, IV Dra, GSC 3883-926, GSC 4190-894, GSC 4193-44, GSC 4194-2180, GSC 4207-158, GSC 4391-1203, GSC 4392-717, GSC 4401-1126, GSC 4412-1734, GSC 4421-50, GSC 4424-1787, GSC 4424-1958, GSC 4424-2294, GSC 4429-655, WW Eri, GSC 5323-652, GSC 5323-1798, SX Gem, TZ Gem, AF Gem, AV Gem, AY Gem, CW Gem, DD Gem, FG Gem, FT Gem, HR Gem, LO Gem, V388 Gem, GSC 1330-287, GSC 1335-1907, GSC 1336-717, GSC 1337-1137, GSC 1351-225, GSC 1360-49, GSC 1368-1411, GSC 1368-1825, GSC 1370-156, GSC 1883-1299, GSC 1886-1869, GSC 1909-2392, GSC 1914-933, TT Her, BC Her, CC Her, CT Her, DD Her, FN Her, GL Her, HS Her, IK Her, MS Her, V338 Her, V359 Her, V366 Her, V381 Her, V387 Her, V477 Her, V681 Her, V687 Her, V718 Her, V719 Her, V728 Her, V731 Her, V733 Her, V789 Her, V811 Her, V842 Her, V856 Her, V857 Her, V861 Her, V878 Her, V1005 Her, V1024 Her, V1025 Her, V1026 Her, V1031 Her, V1033 Her, V1034 Her, V1035 Her, V1036 Her, V1038 Her, V1039 Her, V1040 Her, V1041 Her, V1042 Her, V1044 Her, V1045 Her, V1046 Her, V1047 Her, V1049 Her, V1053 Her, V1054 Her, V1057 Her, V1061 Her, V1095 Her, V1096 Her, V1097 Her, V1104 Her, V1119 Her, V1133 Her, GSC 381-743, GSC 394-1770, GSC 950-560, GSC 954-418, GSC 960-163, GSC 960-1531, GSC 965-581, GSC 967-1277, GSC 968-876, GSC 971-933, GSC 973-1212, GSC 985-533, GSC 987-1570, 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UMa, BM UMa, BQ UMa, BS UMa, ES UMa, IW UMa, KM UMa, LO UMa, MS UMa, MT UMa, OQ UMa, GSC 3011-1150, GSC 4134-141, GSC 4375-620, RT UMi, RU UMi, RZ UMi, GSC 4407-351, GSC 4412-1967, GSC 4418-800, GSC 4541-1805, GSC 4577-707, GSC 4579-1005, VV Vir, AG Vir, AH Vir, AW Vir, AX Vir, AZ Vir, BD Vir, BF Vir, BH Vir, CG Vir, CM Vir, CX Vir, DM Vir, DY Vir, FQ Vir, HW Vir, IR Vir, PS Vir, PY Vir, QX Vir, V337 Vir, V340 Vir, V342 Vir, GSC 272-94, GSC 272-630, GSC 274-437, GSC 279-35, GSC 279-822, GSC 286-631, GSC 291-860, GSC 296-9, GSC 303-36, GSC 303-65, GSC 303-735, GSC 304-73, GSC 314-388, GSC 314-1184, GSC 316-99, GSC 317-161, GSC 317-1142, GSC 318-1169, GSC 322-760, GSC 323-602, GSC 329-256, GSC 329-639, GSC 330-1394, GSC 332-302, GSC 873-411, GSC 873-420, GSC 878-260, GSC 881-920, GSC 883-1116, GSC 886-340, GSC 887-564, GSC 891-117, GSC 892-892, GSC 897-470, GSC 898-3, GSC 4955-767, GSC 4956-1196, GSC 4958-415, GSC 4958-697, GSC 4965-293, GSC 4968-751, GSC 4969-725, GSC 4977-1397, GSC 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