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REPORTS ON NEW DISCOVERIES

<b>Date:</b> 17 September 2009			
<b>Observer(s) and affiliation(s):</b> Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr			
<b>RA(J2000)</b> 20 12 12	<b>Dec(J2000)</b> 19 20 45	<b>type</b> DSCT	<b>Mag.</b> 11.9 (V) (GSC)
<b>Period</b> 0.0310772d		<b>Epoch</b> -	
<b>Cross-identification(s):</b> GSC 1626-1303			

<b>Date:</b> 28 April 2010			
<b>Observer(s) and affiliation(s):</b> Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr			

Remark: In the field of TU UMi.

<b>RA(J2000)</b> 14 49 43	<b>Dec(J2000)</b> 76 15 29	<b>type</b> DSCT	<b>Mag.</b> 12.1 (V)
<b>Period</b> 0.06055(1) d		<b>Epoch</b> -	
<b>Cross-identification(s):</b> GSC 4559-2536			

<b>Date:</b> 23 August 2010			
<b>Observer(s) and affiliation(s):</b> Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr			

Remark: Detected in the FoV of AW Vul.

<b>RA(J2000)</b> 20 27 57.36	<b>Dec(J2000)</b> 24 53 02.9	<b>type</b> EB	<b>Mag.</b> V=12.940 mag (NOMAD-1 cata- logue)
<b>Period</b> 0.7974(1) d		<b>Epoch</b> 2455396.495(2)	
<b>Cross-identification(s):</b> 2MASS J20275736+2453029			

<b>Date:</b> 28 October 2010
<b>Observer(s) and affiliation(s):</b> Liakos, A . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

Remark: Detected in the FoV of V407 Lac.

<b>RA(J2000)</b> 22 23 48	<b>Dec(J2000)</b> +41 19 56	<b>type</b> EA	<b>Mag.</b> B=12.7 mag (USNO-A2.0 Cata- logue)
<b>Period</b> 1.1597(1) d		<b>Epoch</b> 2455399.4818(7)	
<b>Cross-identification(s):</b> GSC 03208-02644			

Remark: Detected in the FoV of UW Cyg.

<b>RA(J2000)</b> 20 23 24	<b>Dec(J2000)</b> +43 24 22	<b>type</b> EA	<b>Mag.</b> B=12.8 mag (USNO-A2.0 Cata- logue)
<b>Period</b> 4.4377(1) d		<b>Epoch</b> 2455392.4033(3)	
<b>Cross-identification(s):</b> GSC 03164-01558			

Remark: Detected in the FoV of UW Cyg.

<b>RA(J2000)</b> 20 23 46	<b>Dec(J2000)</b> +43 30 14	<b>type</b> DSCT	<b>Mag.</b> B=10.85 mag (Ty- cho Reference Cat- alogue)
<b>Period</b> 0.13844(4) d		<b>Epoch</b>	
<b>Cross-identification(s):</b> GSC 03164-01517			

<b>Date:</b> 1 December 2010
<b>Observer(s) and affiliation(s):</b> Marrero Corujo, A.L. - AAGC Observatory (MPC J56), Apdo. de correos 6015, CP 35007, Las Palmas de Gran Canaria, Spain, anlumaco@hotmail.com

Discovered by Wachmann (1940). O'Connel effect.

<b>RA(J2000)</b> 20 10 58.8	<b>Dec(J2000)</b> +35 27 05.0	<b>type</b> EB	<b>Mag.</b> 14.13 - 13.29 mag
<b>Period</b> 0.796461 d		<b>Epoch</b> 2455401.49048	
<b>Cross-identification(s):</b> NSV 12875			

<b>Date:</b> 2 December 2010
<b>Observer(s) and affiliation(s):</b> Liakos, A . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

Remark: Detected in the FoV of AU Lac.

<b>RA(J2000)</b> 22 14 15.12	<b>Dec(J2000)</b> +48 30 51.84	<b>type</b> EB	<b>Mag.</b> R=14.5 mag (The USNO-A2.0 Catalogue)
<b>Period</b> 0.44149(3) d		<b>Epoch</b> 2455441.3567(7)	
<b>Cross-identification(s):</b> USNO-A2.0 1350-16144088			

Remark: Detected in the FoV of YY CMi.

<b>RA(J2000)</b> 08 05 45.53	<b>Dec(J2000)</b> +02 03 01.6	<b>type</b> EB	<b>Mag.</b> R=14.9 mag (The USNO-A2.0 Catalogue)
<b>Period</b> 0.41958(7) d		<b>Epoch</b> 2455231.336(4)	
<b>Cross-identification(s):</b> GSC 00198-02061			

<b>Date:</b> 19 January 2011
<b>Observer(s) and affiliation(s):</b> Liakos, A . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

Remark: Detected in the FoV of V1149 Tau, RZ Tau, NSV 1664 .

<b>RA(J2000)</b> 04 38 50	<b>Dec(J2000)</b> +18 40 19	<b>type</b> DSCT	<b>Mag.</b> B=12.0 mag (The USNO-A2.0 Catalogue)
<b>Period</b> 0.08744(1) d		<b>Epoch</b> -	
<b>Cross-identification(s):</b> GSC 01270-00926			

Remark: Detected in the FoV of SS Cam .

<b>RA(J2000)</b> 07 14 55.9	<b>Dec(J2000)</b> +73 15 40.26	<b>type</b> EA	<b>Mag.</b> R=12.4 mag (The USNO-A2.0 Cata- logue)
<b>Period</b> 1.19992(2) d		<b>Epoch</b> 2455466.533(5)	
<b>Cross-identification(s):</b> GSC 04372-00831			

Remark: Detected in the FoV of AU Lac .

<b>RA(J2000)</b> 22 14 03.6	<b>Dec(J2000)</b> +48 35 18.9	<b>type</b> EB	<b>Mag.</b> R=13.9 mag (The USNO-A2.0 Cata- logue)
<b>Period</b> 0.65321(3) d		<b>Epoch</b> 2455538.316(3)	
<b>Cross-identification(s):</b> USNO-A2.0 1350-16136263			

<b>Date:</b> 15 February 2011
<b>Observer(s) and affiliation(s):</b> Liakos, A . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P . - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

Remark: Detected in the FoV of AV CMi and GSC 00770-00523 (newly discovered variable)

<b>RA(J2000)</b> 07 09 56.3	<b>Dec(J2000)</b> 12 06 08.9	<b>type</b> EB	<b>Mag.</b> R=14.6 mag (The USNO-A2.0 Cata- logue)
<b>Period</b> 0.50460(3) d		<b>Epoch</b> 2455594.4123(6)	
<b>Cross-identification(s):</b> USNO-A2.0 0975-04721840			

<b>Date:</b> 30 March 2011
<b>Observer(s) and affiliation(s):</b> Vaccaro, T. - Francis Marion University, P.O. Box 100547, Florence, SC, USA, tvaccaro@fmarion.edu Stone, K. - Francis Marion University, P.O. Box 100547, Florence, SC, USA, tvaccaro@fmarion.edu

Remark: HD 185587 has been used as a comparison/check for the eclipsing binary V1379 Aql (HD185510). HD1887 appears to have multiple frequencies. The multiple periodic nature of this star and its A0 classification indicate a low-amplitude delta Scuti variable. The constancy of the comparison (HD185567) was determined by comparing it to V1379 Aql, which was at phase  $\approx 0.46$  (Frasca et al., 1998). Data outside eclipse are expected to be constant for a given night due to its 20d orbit.

<b>RA(J2000)</b> 19 40 02.866	<b>Dec(J2000)</b> -06 06 12.48	<b>type</b> DSCT	<b>Mag.</b> V=9.1 mag (Loyd Evans et al., 1983)
<b>Period</b> 0.0313 d		<b>Epoch</b> -	
<b>Cross-identification(s):</b> HD 185587 = GSC 05157-03060			

<b>Date:</b> 6 April 2011
<b>Observer(s) and affiliation(s):</b> Monninger, G. - Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV), Munsterdamm 90, DE-12169 Berlin, Germany, gerold.monninger@online.de

Remark: In the field of view of CW Ser, a delta scuti variable. USNO-B1.0 0961-0254829 is a high amplitude DSCT.

<b>RA(J2000)</b> 15 52 51.41	<b>Dec(J2000)</b> +06 06 07.0	<b>type</b> DSCT	<b>Mag.</b> 16.04 (R1mag - USNO B1.0)
<b>Period</b> 0.054927 d		<b>Epoch</b> 2455625.6301	
<b>Cross-identification(s):</b> USNO-B1.0 0961-0254829 = USNO-A2.0 0900-08288718 = SDSS J155251.38+060606.0 = GSC2.3 N3QU004103			

<b>Date:</b> 6 July 2011
<b>Observer(s) and affiliation(s):</b> Yang Y.-G. - School of Physics and Electronic Information, Huaibei Normal University, Huaibei 235000, Anhui Province, China, yygc@163.com Zhou, A.-Y. - National Astronomical Observatories, Chinese Academy of Sciences, Beijing 100012, China, aiying@nao.ac.cn Dai, H.-F. - School of Physics and Electronic Information, Huaibei Normal University, Huaibei 235000, Anhui Province, China Yang, Y.-J. - School of Physics and Electronic Information, Huaibei Normal University, Huaibei 235000, Anhui Province, China

Remark: In the field of view of EF Dra. GSC 4433-0827 is a multiperiodic  $\delta$  Scuti star.

<b>RA(J2000)</b> 18 04 58.8	<b>Dec(J2000)</b> +69 42 53.4	<b>type</b> DSCT	<b>Mag.</b> 10.8 (TYC V)
<b>Period</b> 0.05875 d		<b>Epoch</b> -	
<b>Cross-identification(s):</b> GSC 4433-0827 = TYC 4433-827-1			

<b>Date:</b> 27 July 2011
<b>Observer(s) and affiliation(s):</b> Martignoni, Massimiliano - Stazione Astronomica Betelgeuse, Magnago, Milano, Italy, massimiliano.martignoni@alice.it

Remark: in the field of view of V373 Sge. UCAC3 214-271232 is a small amplitude Beta Lyrae star.

<b>RA(J2000)</b> 20 16 50.8	<b>Dec(J2000)</b> 16 53 19.7	<b>type</b> EB	<b>Mag.</b> 12.0-12.3 (V)
<b>Period</b> 1.97783d		<b>Epoch</b> 2452724.64	
<b>Cross-identification(s):</b> UCAC3 214-271232			

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Lloyd Evans, T., Koen, M.C.J., and Hultzer, A.A., 1983, SAAOC, 7, 82  
Wachmann, A. A., 1940, BZ, 22, 10