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NEW OR UNDESIGNATED VARIABLES

GLENN GOMBERT

1041 Yorkshire Place, Dayton, Ohio 45419 U.S.A., (gleng@infnet.com)

The Amateur Sky Survey (Droege and Gombert 1998), Dayton, Ohio station, has discovered a number of new variables in Aquila which are not included in the General Catalog of Variable Stars (Kholopov et al., 1985). Table 1 shows positions and magnitudes in Johnson–Cousins V/I photometric bands. Cross-references with the SAO, PPM catalogs and Hubble Guide-Star Catalog (version 1.1) were made where ever possible. Many of these new variables are long-period (or semi-regular) types with V–I magnitudes of >2.0 or more. V and I photometric magnitudes were obtained using all-sky photometry, transformation coefficients are calculated using Landolt standard-stars in the region of –4.5 to –1.5 degrees in declination. Magnitudes transformed to Johnson–Cousins V/I bands have an uncertainty of about ± 0.025 magnitude for 8.5–9.0 magnitude stars.

The data was taken with three custom-made CCD cameras using Kodak KAF–0400 chips and 135 mm camera lenses operating in drift-can (Time Delay Integration) mode. More information on the Amateur Sky Survey project can be found on the TASS Home Page maintained by Michael Richmond at the URL <http://www.tass-survey.org>.

Data was reduced using a suite of photometric programs written by Arne Henden (Henden and Kaitchuck, 1982) of the United States Naval Observatory, Flagstaff station. Light curves and period estimates will be published for these new variables when the analysis has been completed. I am grateful to A. Henden for adapting some of his photometric programs used his equatorial survey project with the Naval Observatories 1 meter FASTT (transit telescope) for use in the Amateur Sky Survey Project.

Table 1

Identifier	RA (J2000) (hh:mm:ss)	Dec(J2000) (d:mm:ss)	V–Range (Max–Min)	I–Range (Max–Min)
GSC 4666:014	00:05:57	–2:41:39	13.03–13.28	11.36–11.74
GSC 4663:915	00:07:07	–2:14:52	14.29–14.67	12.51–13.24
GSC 4667:521	00:15:34	–3:54:36	13.00–13.29	11.31–12.13
GSC 4668:241	00:21:46	–2:40:02	13.61–14.59	12.13–13.08
GSC 4665:391	00:22:25	–2:10:40	13.64–14.70	11.88–12.98
GSC 4672:302	00:33:54	–2:24:41	12.96–13.24	11.35–11.67
GSC 4675:802	00:35:13	–2:55:32	13.86–14.28	12.06–12.91
GSC 4675:758	00:36:30	–4:22:01	12.71–14.06	12.27–12.74
GSC 4675:618	00:37:53	–3:04:36	13.82–14.53	12.05–13.04
GSC 4673:801	00:45:14	–1:56:46	13.84–14.38	12.21–13.33
GSC 4677:585	00:51:13	–4:06:04	14.35–13.46	11.92–12.77
GSC 4682:709	01:19:59	–1:47:39	11.34–11.53	10.09–9.45
GSC 4685:1287	01:44:17	–2:18:42	13.00–14.27	11.61–12.87
GSC 4701:109	02:37:16	–2:53:12	11.75–12.42	6.63–7.19
GSC 4703:103	02:55:42	–2:49:04	12.06–13.03	11.19–11.38
GSC 4711:145	03:15:58	–3:00:37	13.31–14.01	11.57–12.22

Table 1 (cont.)

Identifer	RA (J2000) (hh:mm:ss)	Dec(J2000) (d:mm:ss)	V-Range (Max-Min)	I-Range (Max-Min)
GSC 4719:055	03:35:41	-2:33:52	12.59-13.59	11.88-12.26
GSC 5137:716	19:11:38	-4:25:03	13.01-13.89	8.89-8.47
GSC 5134:2375	19:15:03	-3:18:09	10.89-11.36	6.30-6.67
GSC 5152:1416	19:33:40	-4:13:25	12.55-13.94	10.38-10.62
GSC 5153:2032	19:39:23	-4:24:39	11.42-12.27	7.16-7.71
GSC 5153:1095	19:40:41	-4:04:47	12.69-14.04	10.60-11.51
GSC 5159:664	19:42:53	-2:25:58	11.75-12.17	7.40-7.60
GSC 5151:1336	19:52:57	-3:39:08	11.58-11.95	7.47-7.64
PPM 708160	20:03:04	-2:56:03	10.72-11.11	9.22-9.60
GSC 5180:385	20:03:15	-2:07:13	10.24-10.63	6.26-6.59
GSC 5166:1783	20:17:02	-3:15:38	11.66-12.64	6.86-7.31
GSC 5166:397	20:17:47	-3:00:30	12.50-13.52	12.46-13.52
PPM 708313	20:21:14	-4:12:45	10.18-10.59	6.39-6.67
GSC 5167:1846	20:29:20	-3:20:43	11.16-11.86	9.17-9.42
PPM 708469	20:33:48	-4:02:20	10.18-10.63	8.08-8.26
PPM 708544	20:39:06	-3:59:32	10.31-10.57	7.39-7.46
GSC 1581:2005	20:40:46	-3:14:43	11.84-14.01	12.99-12.29
GSC 5182:006	20:45:38	-2:09:25	13.31-15.04	12.78-13.07
GSC 5182:1726	20:46:15	-3:31:50	11.46-12.33	9.32-9.40
PPM 788711	20:49:25	-2:55:39	10.58-11.03	7.67-7.84
GSC 5182:005	20:51:27	-2:52:38	11.39-11.84	6.89-7.12
GSC 5182:241	20:51:30	-2:31:10	13.68-14.27	12.17-12.37
GSC 5183:1306	20:52:49	-3:25:16	13.14-13.64	11.25-11.76
GSC 5183:1745	20:56:09	-3:31:04	11.27-11.91	7.28-6.86
GSC 5183:464	20:56:50	-2:42:10	11.55-12.36	7.65-7.97
GSC 5183:1745	20:56:59	-3:21:04	11.27-11.91	6.86-7.28
GSC 5196:1584	21:00:29	-3:28:15	12.94-13.31	11.31-11.49
GSC 5196:423	21:03:15	-2:34:39	11.65-11.22	9.62-10.01
GSC 5193:678	21:11:52	-1:45:10	10.87-11.31	7.89-8.13
GSC 5210:184	21:14:35	-3:57:04	12.79-14.53	11.17-11.68
SAO 145250	21:16:08	-1:57:48	9.63-10.11	6.44-6.69
GSC 5199:639	21:22:45	-3:40:11	11.08-11.47	6.24-6.51
GSC 5199:441	21:29:20	-2:14:06	12.06-12.84	8.79-9.21
GSC 5216:162	21:31:44	-3:55:01	12.63-13.02	10.92-11.30
GSC 5219:750	21:57:29	-4:10:20	11.11-12.01	6.64-7.90
GSC 5224:453	22:01:15	-2:14:17	11.81-13.44	11.90-11.34
GSC 5224:474	22:05:11	-1:52:21	13.19-14.54	13.14-11.09
GSC 5236:257	22:32:47	-2:49:10	13.38-14.05	12.15-11.75
GSC 5234:1509	22:40:52	-1:49:11	12.71-13.74	11.35-11.56
GSC 5238:210	22:52:38	-2:31:52	12.71-13.45	11.07-11.58
GSC 5245:290	23:02:25	-2:31:22	12.83-14.36	12.50-13.28
GSC 5246:459	23:13:16	-2:44:11	11.22-12.02	7.06-7.38
GSC 5258:758	23:40:24	-5:04:07	13.43-14.16	11.80-12.24
GSC 5255:370	23:42:07	-3:05:58	11.85-12.42	10.06-10.91
GSC 5255:365	23:45:18	-4:10:30	13.26-13.80	11.57-12.23
GSC 5252:391	23:47:18	-1:48:30	13.18-13.57	12.89-11.96
GSC 5253:950	23:51:36	-2:20:27	12.66-14.69	12.79-13.03
GSC 5256:315	23:58:41	-3:06:58	13.88-14.52	11.11-11.88
GSC 5256:240	23:59:42	-3:35:11	13.06-13.47	11.53-12.07

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