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AUTOMATIC PHOTOELECTRIC TELESCOPE: FIRST QUARTER 1984 OBSERVATIONS

The Automatic Photoelectric Telescope at Fairborn Observatory West in Phoenix, Arizona began its second quarter of operation on the night of 1 January 1984. Photometry from this date through the end of March 1984 included a program of 71 groups of stars, with each group consisting of a variable, a comparison star, a check star, and a sky position. During this time 3017 group observations were made. Since each group observation consisted of a sequence of 33 different 10-second observations, there was a total of 99561 observations.

The individual differential magnitudes have been sent to the I.A.U. Commission 27 Archive for Unpublished Observations of Variable Stars, where they are available (Breger, 1982) as File No. 136, which contains four parts. Part I is a summary of the contents of the file. Part II is a summary listing of the names of the 71 groups observed. Part III is a listing of detailed information on the 71 groups of stars observed. Part IV contains the actual observational results. Data on specific variables can be requested, if the entire contents of the file are not needed.

Table I lists the 71 groups in the program. The first column is the group number. The second is the group name. And the last is the number of pages of reduced data in File No. 136. No data were obtained for six of the groups, which were below the horizon.

The sequence of UBV observations within a group, the extinction and transformation coefficients used in the reduction, and other particulars on the acquisition, reduction, and presentation of the data have been given by Boyd, Genet, and Hall (1984).

An automatic photoelectric telescope produces a large amount of data, all of which we do not expect to utilize fully. Therefore we plan to deposit our data from the automatic telescope in the I.A.U. Commission 27 Archive expeditiously and invite other investigators to make good use of

Table I  
The 71 Groups on the First-Quarter 1984 Observing Program

no.	name	obsv.	pages	no.	name	obsv.	pages
1	lambda And	20	1	36	II Peg	0	0
2	39 AY Cet	13	1	37	TZ Tri	28	1
3	sigma Gem	91	3	38	53 xi UMa (B)	122	4
4	V711 Tau	45	2	39	BH CVn	99	3
5	27 & 28 LMi	125	4	40	HD 26337	35	1
6	HR 9024	25	1	41	HD 8357	19	1
7	HR 7428	8	1	42	HR 454	47	2
8	IM Peg	7	1	43	HR 1362	45	2
9	HR 7275	13	1	44	HD 37824	57	2
10	HR 6469	72	2	45	HR 3337	85	3
11	DK Dra	43	2	46	HD 116204	71	2
12	R Sct	0	0	47	theta CrB	83	3
13	12 BM Cam	47	2	48	iota Peg	5	1
14	33 Psc	4	1	49	HD 217188	0	0
15	5 Cet	3	1	50	HD 219989	15	1
16	UX Ari	51	2	51	beta Lyr	19	2
17	59 d Ser	8	1	52	V367 Cyg	0	0
18	FS Com	98	3	53	zeta Aur	42	2
19	HK Lac	6	1	54	31 Cyg	0	0
20	AR Lac	2	1	55	32 Cyg	0	0
21	29 Dra	9	1	56	HD 25893	61	2
22	54 Cam	90	3	57	HD 28591	65	2
23	51 & 52 Aur	76	3	58	HD 136901	47	2
24	CE Tau	52	2	59	HD 9312	36	1
25	TV Psc	16	1	60	HR 503	35	1
26	RZ Ari	43	2	61	3 Cam	80	3
27	rho Per	69	2	62	HR 1970	41	2
28	IN Hya	45	2	63	1 Gem	57	2
29	epsilon Aur	63	2	64	HR 4430	100	3
30	zeta And	30	1	65	HR 6950	24	1
31	13 Cet	9	1	66	HR 7260	16	1
32	TZ CrB	30	1	67	81 Psc	16	1
33	omicron Dra	17	1	68	11 Hya	85	3
34	V350 Lac	3	1	69	31 Com	103	3
35	93 Leo	132	4	70	37 Com	88	3
				71	HR 1023	26	1

it in their own research. We ask only that the source of the data be referenced properly in any paper which results.

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References:

- Breger, M. 1982, I.B.V.S. No. 2246.  
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