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Expedition auf der Königlichen Sternwarte bei Kiel.

Herausgeber: Prof. Dr. C. A. F. Peters.

Band 96.

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20.

Observations of Minor Planets, made at the Litchfield Observatory of Hamilton College.

1) (16) Psyche.

1879	Ham Coll. m. t.	Planet — Star Δ^a	Star Δ^d	Nr. of Comp.	Planet's apparent α	δ	$\log(p''\Delta)$ in α in δ	Comp. star
July 1	15 ^h 5 ^m 0 ^s	— 1 ^m 2 ^s 48	— 33' 9"	8 _r	20 ^h 31 ^m 6 ^s 69	— 16° 15' 20" 5	0.334 0.879	a

2) (68) Letho.

March 21	11 32 21	+ 1 1.57	+ 1 43.9	16 _r	11 58 45.49	+ 9 18 2.8	9.925 0.694	a
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3) (77) Frigga. (Re-discovered July 16.)

July 17	14 39 5	+ 49.30	+ 4.4	11 _r	21 32 7.38	— 17 44 43.2	0.168 0.884	a
19	12 51 10	— 1 55.82	+ 2 17.7	10	30 48.59	17 51 0.8	0.160 0.884	b
20	11 14 52	— 2 1.59	+ 1 15.2	10	30 8.64	17 54 9.8	0.372 0.880	c
21	13 6 3	— 52.92	— 1 6.6	12	29 21.14	17 57 49.0	9.853 0.873	d
24	10 14 32	— 13.59	— 1 24.0	10	27 9.55	18 7 59.0	0.688 0.853	e
28	13 19 5	— 14.09	— 51.9	5	23 47.04	18 22 51.7	9.804 0.889	f
Aug. 9	12 9 18	— 44.20	+ 10.6	10	13 2.44	19 5 48.2	9.453 0.892	g
20	10 21 37	+ 5.20	— 55.3	10	21 3 6.75	19 39 30.4	0.129 0.892	h
Sept. 15	9 7 45	— 30.49	+ 40.1	15	20 46 45.24	20 13 50.7	8.043 0.897	i
17	8 54 17	— 35.74	— 17.1	3	46 9.96	20 13 25.3	9.212 0.896	k
20	8 15 34	— 1 16.24	+ 1 10.7	5	45 29.44	20 11 57.7	9.979 0.895	k
Oct. 4	7 8 32	+ 31.76	+ 1 27.5	10	20 45 37.25	— 19 52 34.8	0.117 0.893	l

4) (194) Prokne. (Discovered Mar. 21.)

March 21	14 15 47	+ 16.86	+ 2 51.8	20	12 12 3.91	+ 9 26 30.2	0.521 0.700	a
31	9 23 6	+ 46.57	+ 29.8	6	4 20.19	11 1 4.7	0.537 0.685	b
31	9 23 17	+ 41.16	+ 19.2	6	4 19.95	1 3 10.5	0.537 0.685	c
April 1	9 11 13	+ 2 26.39	— 2 13.7	10	12 3 34.63	11 10 1.6	0.556 0.685	d
12	12 11 18	+ 54.43	— 1 17.1	10	11 55 36.06	12 37 51.8	0.447 0.661	e
23	9 33 36	— 1 34.02	+ 3 0.8	10	49 30.16	13 40 0.6	9.412 0.635	f
29	12 29 56	+ 17.98	— 1 43.2	10	47 3.63	14 3 43.2	0.699 0.680	g
May 3	10 36 3	+ 1 12.26	— 42.8	10	45 55.59	14 14 36.6	0.437 0.641	h
12	9 43 28	+ 20.67	+ 3 1.1	6 _r	44 34.41	14 27 58.8	0.364 0.634	i
13	9 31 4	+ 18.35	+ 3 29.0	10	44 32.09	14 28 26.8	0.318 0.632	i
19	9 26 3	+ 31.80	+ 2 33.6	10	44 45.47	14 27 36.2	0.414 0.636	i
21	9 13 53	+ 46.66	+ 58.2	10	11 45 0.31	+ 14 25 56.7	0.391 0.635	i

5) $\textcircled{196}$ Philomela. (Discovered May. 14.)

1879		Ham. Coll. m. t.	Planet — Star		Nr. of Comp.	Planet's apparent		log($p''\Delta$)		Comp. star.
			$\Delta\alpha$	$\Delta\delta$		α	δ	in α	in δ	
May	14	11 ^h 56 ^m 31 ^s	+ 3 ^m 18 ^s 54	— 1' 21'' 3	12 _r	12 ^h 16 ^m 39 ^s 05	+ 6°52' 46'' 4	0.682	0.736	a
	14	"	+ 2.32.70	+ 55.1		38.96	47.4			b
	16	10 37 6	+ 56.17	+ 1 46.6	10	16 21.21	6 48 5.7	0.509	0.724	c
	18	12 25 36	+ 16.47	+ 10.0	10	16 6.75	6 42 30.7	0.747	0.747	d
	20	9 50 42	— 49.23	+ 1 41.6	6	15 58.05	6 36 56.5	0.391	0.723	e
	20	9 51 25	— 35.20	+ 2 2.1	6	15 58.35	6 36 57.4	0.391	0.723	f
	25	10 22 18	+ 2. 8.71	— 20.1	10	15 57.02	6 19 57.8	0.572	0.731	g
June	5	10 6 56	+ 1.30.16	+ 1 11.9	9	17 37.14	5 32 34.6	0.634	0.742	h
	7	10 45 26	+ 56.95	+ 2 4.2	10	18 10.49	5 22 25.3	0.716	0.750	i
	11	10 38 50	+ 1 4.36	+ 1 19.7	10	19 28.66	5 1 16.8	0.726	0.753	k
	13	9 56 46	+ 26.34	— 1 42.0	10	20 13.33	4 50 15.9	0.671	0.749	l
	18	10 24 57	+ 15.88	— 59.8	10	22 24.56	4 20 46.1	0.739	0.758	m
	22	10 42 11	+ 2 17.52	— 26.4	9	24 26.47	3 55 45.6	0.771	0.764	n
July	5	9 37 33	+ 20.31	— 3 42.0	(3)	32 34.95	2 27 20.1	0.749	0.768	o
	9	9 44 23	+ 59.27	+ 19.2	11	35 33.15	1 57 53.6	0.768	0.772	p
	10	9 51 28	— 56.77	+ 1 52.7	5	12 36 19.52	+ 1 50 25.7	0.777	0.773	q

6) $\textcircled{197}$ A r e t e.

May	28	14 27 2	— 11.69	+ 24.4	8; 4	15 55 11.67	— 15 30 21.6	0.677	0.851	a
	29	12 40 31	— 1 4.60	— 7.4	12 _r	54 18.76	15 30 53.5	0.343	0.875	a
June	9	13 7 55	+ 1 47.60	+ 1 28.7	10	44 19.68	15 41 38.6	0.632	0.858	b
	13	12 18 52	+ 1 31.50	— 15.4	10	41 9.16	15 47 20.2	0.551	0.867	c
	20	11 19 22	— 1 22.19	+ 1 5.3	12 _r	15 36 21.00	— 16 0.11.4	0.455	0.874	d

7) $\textcircled{199}$ B y b l i s. (Discovered July 9.)

July	9	11 36 48	+ 25.82	— 1 38.0	4 _r	17 22 1.16	— 23 22 7.2	0.411	0.898	a
	10	12 32 24	— 14.19	— 7 0.2	8 _r	21 21.15	23 27 29.5	0.623	0.880	a
	12	10 26 15	+ 15 37	— 35.3	12 _r	20 10.73	23 37 30.9	9.945	0.907	b
	13	10 16 0	+ 1 53.91	+ 1 26.2	12 _r	19 36.14	23 42 30.9	9.849	0.908	c
	14	9 43 43	+ 13.43	— 39.6	12 _r	19 3.84	23 47 35.7	9.189 _n	0.909	d
	19	10 2 40	— 47.11	+ 24.3	10	16 37.74	24 12 46.6	0.048	0.909	e
	20	9 42 3	+ 23.78	+ 30.6	10	16 14.17	24 17 48.8	9.788	0.910	f
	25	11 49 27	+ 29.89	— 1 6.0	9 _r	17 14 34.02	— 24 42 8.7	0.681	0.873	g

8) $\textcircled{200}$ D y n a m e n e. (Discovered July 27.)

July	27	14 51 44	+ 6.18	+ 2 37.9	10	21 42 46.66	— 15 37 56.8	0.417	0.869	a
	28	14 15 31	— 40.78	+ 59.9	10	41 59.71	39 34.7	0.239	0.874	a
	30	13 55 43	+ 1 5.93	— 2 1.7	10	40 21.37	15 42 58.5	0.159	0.875	b
Aug.	9	11 21 41	— 56.24	— 1 36.5	10	31 30.02	16 0 44.3	0.218 _n	0.876	c
	26	13 2 3	+ 34.97	+ 2 30.9	10	15 45.24	26 41.7	0.550	0.865	d
Sept.	10	12 21 21	+ 13.43	— 2 21.0	10	4 56.60	33 8.8	0.628	0.857	e
	11	11 4 26	— 17.76	— 2 7.7	10	4 25.40	32 55.5	0.380	0.874	e
	15	10 13 48	+ 2 0.22	— 3 54.2	4	21 2 29.19	— 31 0.9	0.166	0.878	f

1879	Ham. Coll. m. t.	Planet — Star		Nr. of	Planet's apparent		log (p'' Δ)		Comp. star.	
		Δ α	Δ δ		α	δ	in α	in δ		
Sept.	20	8 ^h 51 ^m 55 ^s	+ 10 ^s 61	+ 31'0	10	21 ^h 0 ^m 39 ^s 53	—16°26' 35'9	9.488 _n	0.881	f
Oct.	3	7 21 22	— 1 ^m 2.94	— 37.7	10	20 59 5.89	3 42.8	0.150 _n	0.877	g
	4	8 1 26	— 58.59	+ 1' 14.0	10	20 59 10.23	—16 1 51.1	9.110 _n	0.879	g

9) (202) Chryseis. (Discovered Sept. 11.)

Sept.	11	12 +					23 51 16	— 8 53 5				
	21	13 18 27	—	48.91	+	14.1	10	44 15.77	9 57 58.0	0.432	0.841	a
	23	12 7 56	—	11.37	+	1 28.8	9	42 53.50	10 9 34.7	0.009	0.848	b
	26	12 46 49	—	22.90	+	1 15.7	10	23 40 48.28	10 26 52.9	0.395	0.845	c
Oct.	4	8 56 13	+	2 51.17	+	2 13.4	6	35 39.12	11 6 58.7	0.469 _n	0.846	d
	7	9 57 50	+	55.84	+	46.4	12 _r	33 48.79	11 20 24.3	9.942 _n	0.855	e
	15	9 33 9	+	3 22.48	—	12.4	10	29 32.83	11 49 0.6	9.748 _n	0.858	f
	20	8 10 47	+	57.82	—	2 21.8	10	27 25.12	12 1 45.3	0.356 _n	0.854	g
Nov.	8	9 0 5	—	1 16.23	—	2.5	12 _r	23 27.89	12 14 19.1	0.140	0.858	h
	10	8 2 26	—	2 32.21	—	8.1	6	23 28.11	12 12 26.7	8.716 _n	0.860	i
	13	7 45 13	+	1 45.85	—	2 0.7	12	23 37.45	12 8 30.6	9.330 _n	0.860	k
Dec.	7	6 55 6	+	16.47	+	19.6	14 _r	23 31 0.17	—10 55 27.7	9.929	0.852	l

10) (203) Pompeja. (Discovered Sept. 25.)

Sept.	25	14 48 21	— 29.45	— 40.1	12 _r	0 57 6.16	+ 8 15 31.4	0.547	0.710	a
	26	13 41 15	+ 3.23	+ 1 26.4	10	56 19.48	8 12 11.5	0.280	0.705	b
Oct.	4	10 33 3	— 33.50	+ 1 11.7	9	49 38.80	7 41 47.5	0.364 _n	0.711	c
	4	11 21 57	— 35.37	+ 1 2.8	5	49 36.93	7 41 38.6	9.982 _n	0.707	c
	9	9 23 26	+ 37.79	— 2 42.9	10	45 21.12	7 21 5.2	0.541 _n	0.721	d
	14	10 2 7	+ 2 31.76	+ 1 50.7	6	41 4.82	6 59 44.9	0.267 _n	0.717	e
	20	9 11 56	+ 29.29	— 1 23.3	10	36 19.05	6 35 10.3	0.387 _n	0.723	f
Nov.	16	9 13 4	— 3 16 08	+ 22.4	8 _r	0 23 20.87	+ 5 24 22.8	9.968	0.731	g

11) (206) Hersilia. (Discovered Oct. 13.)

Oct.	13	14 35 52	— 1 13.28	+ 2 46.4	15	1 0 36.63	+ 1 24 52.2	0.671	0.771	a
	14	10 43 25	— 6.74	+ 1 24.7	10	0 59 56.54	1 19 54.5	0.085 _n	0.768	b
	16	9 51 24	+ 8.22	+ 1 3.6	10	0 58 23.49	1 9 11.0	0.376 _n	0.770	c
	20	9 46 52	— 6.24	— 1 0.0	10	0 55 17.30	+ 0 48 11.5	0.300 _n	0.773	d

12) (209) Dido. (Discovered Oct. 22.)

1879 Oct.	22	14				1 23 49	+ 13 23 1			
	25	11 12 36	+ 13.33	+ 2 5.8	10	21 32 94	13 14 27.6	9.351	0.640	a
	26	10 49 56	— 32.53	— 1 1.2	10	20 47.08	13 11 20.4	9.476 _n	0.641	a
Nov.	7	12 1 6	— 38.32	— 37.9	4 _r	12 15.28	12 34 8.0	0.511	0.666	b
	15	11 20 12	— 2 37.18	— 2.5	12 _r	7 46.94	12 12 59.3	0.493	0.669	c
Dec.	7	8 0 51	— 3 18.64	+ 5.0	8 _r	1 59.60	11 42 50.1	9.115	0.660	d
	13	8 45 46	— 3 8.75	— 36.3	5	2 9.44	11 43 21.1	0.317	0.666	d
1880 Jan.	1	7 5 46	+ 23.89	+ 1 20.4	10	7 22.01	12 10 55.2	0.087	0.656	e
	5	7 29 21	— 29.53	— 4.8	16 _r	9 18.93	12 21 29.8	0.356	0.660	f
	8	7 41 47	+ 2 24.35	+ 1 13.3	11	10 56.22	+ 12 30 20.8	0.458	0.664	g

20*

The remarks made in former communications hold also for these observations. The differences between star and planet are corrected for refraction. The ring-micrometer comparisons (— an equal number north and south of center, and outer and inner edge of ring together —) are indicated by *r*.

The mean places of the comparison stars, for the beginning of the resp. year, have been assumed upon the following authorities.

For (16) *Psyche*:

a	20 ^h 32 ^m 5 ^s 14	—16° 14' 58" 0	Mean of
	32 5.12	14 57.4	Oe. Arg. 20691, and
	5.16	58.6	Lam. 1235.

For (68) *Leto*:

a	11 57 41.02	+ 9 16 36.2	Ham. Coll. Zones (approx.)
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For (77) *Frigga*:

a	21 31 13.89	—17 45 6.6	Mean of
	31 14.00	45 10.5	R. Nachtr. 80 (1 obs.)
	13.65	3.9	Lam. 1432 (1)
	14.05	5.3	Oe. Arg. 21525 (1)
	13 88	6.1	Y. 9443 (2; 4)
	13.87	9.1	Kremsmünster, Berl. Circ. 124 (1)
b	21 32 40.18	—17 53 36.8	Mean of
	32 40.16	53 37.3	by 5 filar micr. comp. with Oe. Arg. 21591 and
	40.20	36.4	Kremsm., Berl. Circ. 127.
c	21 32 5.98	—17 55 43.2	by. 5 fil. micr. comp. with Oe. Arg. 21591
d	21 30 9.78	—17 57 0.8	Mean of
	30 9.87	57 3.2	by 4 fil. micr. comp. with Oe. Arg. 21591 and
	9.70	56 58.4	Kremsm., Berl. Circ. 122
e	21 27 18.79	—18 6 53.2	Kremsm., Berl. Circ. 122
f	21 23 56.70	—18 22 18.0	Ham. Coll. Zones (approx.)
g	21 13 42.02	—19 6 16.4	By 4 filar micr. comp. with
	21 18 55.85	—19 6 26.2	mean of

	21 ^h 18 ^m 56 ^s 00	—19° 6' 28" 0	R. Nachtr. 63
	55.61	25.6	Lam. 1401
	56.03	25.0	Argel. Bonn. Obs. VI pag. 364.
h	21 2 56.83	—19 38 51.6	* 10 ^m 5; det. by 5 fil. micr. comp. with
	0 38.36	34 17.4	2 Washington Merid. Circle observat.
i	20 47 11.11	—20 14 44.9	* 9 ^m ; by 4 fil. micr. comp. with the fol- lowing and 4 with <i>k</i>
	20 48 44.10	16 42.4	mean of
	48 43.87	16 40.2	Lam. 1308 [correcting Decl. by —10']
	43.90	45.5	Washington Transit Z. 190.28
	44.53	41.4	Wash. Merid. C. Z. 146.56
k	20 46 41.11	—20 13 22.2	3 Washington Mer. Circle obs.
l	20 45 1.12	—19 54 15.4	* 10 ^m ; 4 fil. micr. comp. with
	20 41 47.72	—19 55 27.1	mean of
	41 47.63	55 24.8	Oe. Arg. 20866, and
	47.81	29.4	Lam. 1286

For (194) *Prokne*.

a	12 11 44.15	+ 9 23 57.9	* 11 ^m det. by 5 fil. micr. with
	12 19.58	21 30.2	(Dm.+9°26'14) Lam. 564. [NB. Not obs. by Piazz, as errone- ously stated in Durchm.]
b	12 3 30.66	+11 0 52.8	Arg. + 11°24'32
c	12 3 35.83	+11 1 1.8	Arg. + 11°24'33
d	12 1 5.28	+11 12 33.0	Mean of
	1 5.41	12 36.9	LL. 22747
	5.35	33.3	W. 11 ^h 1016,
	5.16	26.4	R. 3820
	5.10	35.3	Lam. 553
e	11 54 38.67	+12 39 25.4	Mean of
	54 38.62	39 25.0	W. 11 ^h 918 [corr. <i>d</i> by—3'], (weight 1) and
	38.69	25.5	(weight 2), by compa- rison with mean of
	37.13	42 2.4	W. 11 ^h 915, and
	36.74	4.8	Schj. 4329

f	11 ^h 51 ^m 1 ^s 26	+13°37' 15"1	Mean of
	51 1 13	37 15.4	W. 11 ^h 854, and
	1.39	14.8	by 3 fil. micr. comp. with
	53 10.68	34 7.2	W. 11 ^h 888
g	11 46 42.77	+14 5 40.9	(LL. 22402. W. 11 ^h
			785); mean of
	46 42.81	5 40.8	Y. 4971 (9 and 2 obs.)
	42.72	40.9	Schj. 4284—6 (3 obs.)
h	11 44 40.48	+14 15 33.2	W. 11 ^h 751
i	11 44 10.97	+14 25 11.1	* 10 ^m det. by 3 fil.
			micr. comp. with
	46 39.84	25 8.9	(Dm. + 14°244.8 ^m 5)
			Cambridge, Enge,
			Obs. 1849.

For (196) Philomela:

a	12 13 17.69	+ 6 54 23.7	Schj. 4445
b	12 14 3.44	+ 6 52 8.4	(W. 12 ^h 202. 3°98;
			13°6 rejected); by
			3 fil. micr. det. from
			Schj. 4445.
c	12 15 22.24	+ 6 46 35.0	(Dm. + 6°2595).
			Det. by 5 fil. micr.
			comp. with
	12 13 36.90	+ 6 42 46.9	Mean of
	13 36.77	42 46.7	W. 12 ^h 189 (1 obs.)
	36.97	45.9	Arg. + 6°2588 (2 obs.)
	36.82	48.0	Schj. 4446 (1 obs.)
d	12 15 47.49	+ 6 42 36.5	(Dm. + 6°2597). Det.
			by 2 fil. micr. comp.
			with
	12 13 36.90	+ 6 42 46.9	(s. before)
e	12 16 44.50	+ 6 35 30.7	(LL. 23178) R. 3937
f	12 16 30.77	+ 6 35 11.0	(LL. 23172). Mean of
	16 30.92	35 10.1	Lam. 896 (w. 1), and
	30.70	11.5	Schj. 4459 (w. 2)
g	12 13 45.57	+ 6 20 33.3	(LL. 23095. W. 12 ^h
			193). Mean (by
			weight) of
	13 45.65	20 31.3	R. 3911 (3 obs.)
	45.63	33.3	Lam. 878 (1 obs.)
	45.54	34.0	Y. 5138 (9 obs.)
h	12 16 4.33	+ 5 31 37.6	(LL. 23156). Mean of
	16 4.45	31 36.8	W. 12 ^h 235, and
	4.21	38.4	Lam. 892
i	12 17 10.91	+ 5 20 35.9	Mean of
	17 11.01	20 35.7	Lam. 898, and
	10.81	36.0	Schj. 4465

k	12 ^h 18 ^m 21 ^s 70	+ 5° 0' 11"8	(LL. 23212). Mean of
	18 21.70	0.11.7	Lam. 903
	21.69	12.0	Arg. + 5°2623
l	12 19 44.46	+ 4 52 12.1	Mean, by weight, of
	19 44.54	52 11.3	W. 12 ^h 294 (1)
	44.37	10.4	R. 3966 (1)
	44.49	11.7	Lam. 910 (3)
	44.36	12.5	Y. 5181 (3)
	44.27	13.2	Schj. 4477 (2) [The
			star perhaps has
			a small proper mo-
			tion).
m	12 22 6.13	+ 4 22 0.3	(LL. 23321). Mean of
	22 6.13	21 59.7	W. 12 ^h 341
	6.21	22 0.2	Lam. 922
	6.05	1.0	Schj. 4485
n	12 22 6.43	+ 3 56 26.3	(LL. 23322. W. 12 ^h
			342); adopted from
	22 6.45	56 25.4	Lam. 923 (3 obs.)
	6.38	27.2	Cambridge, Eng., Ob-
			serv. 1849 (1 obs.)
o	32 12.20	+ 2 31 16.2	Mean of Y. and Schj.,
			as from the foll.
			the star appears to
			possess a sensible
			proper motion:
	32 12.46	31 20.4	LL. 23616 (1 obs.)
	12.57	17.2	W. 12 ^h 513 (2 obs.)
	12.48	15.5	Lam. 3793 (3 obs.)
	12.26	16.0	Y. 5269 (5; 3 obs.)
	12.14	16.4	Sch. 4553 (1 obs.)
p	12 34 31.46	+ 1 57 48.5	Mean of
	34 31.51	57 47.7	W. 12 ^h 552, and
	31.42	49.3	by 3 fil. micr. comp.
			with
	12 36 17.89	+ 1 59 41.6	W. 12 ^h 584
q	12 37 13.87	+ 1 48 47.1	Mean, by weight, of
	37 13.88	48 46.2	Cambridge, Eng., Ob-
			serv. 1849 (1)
	13.87	47.5	Lam. 3824 (2)

For (197) A r e t e.

a	15 55 19.67	-15 30 31.6	* 10 ^m ; det. by 3
			fil. micr. comp. with
			mean of
	15 49 53.01	-15 28 35.7	Oe. Arg. 15053, and
	52.91	33.5	Kremsm., Berl. Circ.
			116

b	15 ^h 42 ^m 28 ^s 35	—15°42'52"2	* 9 ^m 5; det. by 4 fil. micr.comp. with
	15 50 13.77	—15 40 43.9	LL. 28997
	14.22	44.9	Oe. Arg. 15055
	14.09	45.9	Arg. Bonn Obs. VI. — This adopted.
c	15 39 33.92	—15 46 49.6	Mean of
	39 33.81	46 49.5	Cambridge, Eng., Ob- serv. 1849
	33.95	50.8	Wien, Annalen 3.
	33.95	49.1	Oe. Arg. 14859
	33.95	49.0	Kremsmünster, Berl. Circ. 116
d	15 37 39.45	—16 1 1.5	Y. 6483.

For ⁽¹⁹⁹⁾ Byblis:

a	17 21 30.96	—23 20 21.7	(Oe. Arg. 16826) Berl., A. N. Nr. 2090.
b	17 19 50.97	—23 36 47.8	* 10 ^m 6; det. by 3 fil. micr.comp. with
	17 22 5.31	—23 32 12.4	mean of
	22 5.35	32 10.8	Oe. Arg. 16873—4, and
	5.27	13.9	Arg. Bonn Obs. VI.
c	17 17 37.85	—23 43 49.0	Oe. Arg. 16731 (chec- ked by 2 ringmicr. comp. with Oe. Arg. 16713—4
d	17 18 46.03	—23 46 48.1	Oe. Arg. 16768
e	17 17 20.47	—24 13 2.6	* 10 ^m 5; det. by 3 fil. micr.comp. with
	17 21 36.29	—24 14 0.3	Oe. Arg. 16829—30
f	17 15 46.01	—24 18 11.0	* 9 ^m ; det. by 3 fil. micr. comp. with
	17 19 28.87	—24 16 28.3	Oe. Arg. 16778
g	17 13 59.77	—24 40 54.0	Mean of
	13 59.82	40 53.9	Oe. Arg. 16650, and
	59.72	54.1	Arg., Bonn Obs. VI.

For ⁽²⁰⁰⁾ Dynamene:

a	21 42 36.19	—15 40 54.2	Mean of
	42 36.50	40 61.5	W. 21 ^h 985 (1)
	35.92	57.2	Lam. 1469 (1)
	36.21	50.8	Kremsm., Berl. Circ. 122 (1)

	21 ^h 42 ^m 36 ^s 18	—15°40'52"5	by 3 fil. micr. comp with b. (3)
b	21 39 11.09	—15 41 16.2	(W. 21 ^h 911). Mean of
	39 11.05	41 17.9	R. Nachtr. 109 (1)
	11.13	14.3	Oe. Arg. 21621 (1)
	11.09	14.2	Kremsm., Berl. Circ. 124 (1)
	11.10	17.2	by 3 fil. micr. comp. with a, (2)
c	21 32 21.74	—15 59 27.1	Mean of
	32 21.95	59 28.2	Oe. Arg. 21542
	21.74	26.0	Kremsm., Berl. Circ. 124
d	21 15 5.64	—16 29 26.6	Mean of
	15 5.65	29 28.7	R. 9124 (2 obs.)
	5.64	23.9	Oe. Arg. 21325
	5.65	26.1	Lam 1390
	5.59	25.4	Kremsm., Berl. Circ. 124
e	21 4 38.58	—16 13 4.6	Mean, by weight, of
	4 38.69	31 2.5	Oe. Arg. 21190—91 (2 obs.)
	38.40	5.6	Lam. 1355 (1 obs.)
	38.56	5.6	R. 8942 (3 obs.)
	38.56	3.1	Kremsm., Berl. Circ. 123, (1 obs.)
f	21 0 24.43	—16 27 23.0	(LL. 40861. Pi. 20 ^h 460). Mean of
	0 24.44	27 22.7	AR. from R. 8863, Decl. from compa- risons wits 3 neigh- boring stars,
	24.42	23.9	Kremsm., Berl. Circ. 124
g	21 0 4.50	—16 3 20.8	Mean, by weight, of
	0 4.51	3 21.0	Oe. Arg. 21115 (1 obs.)
	4.50	20.4	Y. 9223 (5; 2 obs.)
	4.50	21.4	Kremsm., Berl. Circ. 127 (1 obs.)

For ⁽²⁰²⁾ Chryseis:

a	23 45 0.16	—9 58 40.5	Mean, by weight, from
	45 0.00	58 33.4	(w. 1) Kremsm., Berl. Circ. 124, and
	0.21	42.9	(w. 3), by 5 fil. micr. comp. with
	23 47 49.70	—9 57 44.0	(LL. 46829), mean, by weight, of

	23 ^h 47 ^m 50 ^s 01	—	9 ^h 57' 49'' 6	W. 23 ^h 949 (1) ^{*)}
	49.62		46.3	Genève, Obs. 1849. (3)
	49.46		35.8	Kremsm., Berl. Circ. 124 (1)
b	23 43 0.33	—10 11 31.7		Mean of
	43 0.36	11 31.4		Kremsm., Berl. Circ. 127, and
	0 31	32.0		from 5 fil. micr. comp. with
	23 43 15.78	—10 14 3.7		(W. 23 ^h 860) Schj. 9856
c	23 41 6.63	—10 28 36.6		Mean of
	41 7.10	28 36.1		W. 23 ^h 807
	6.43	41.8		R. 11565
	6.34	32.0		Kremsm., Berl. Circ. 124
d	23 32 43.38	—11 9 39.4		* 9 ^m 5; det. 4 fil. micr. comp. with
	23 29 11.91	—11 13 25.3		Gill's star <i>r</i> , M. Not. 1878 Dec. pag. 120
e	23 32 48.39	—11 21 37.9		by 5 fil. micr. comp. with
	23 29 41.95	—11 21 26.2		mean of
	29 41.91	21 24.9		W. 23 ^h 583
	41.88	25.8		by 5 fil. micr. comp. with W. 23 ^h 585
	42.15	29.1		Lam. 4071
	41.87	24.8		Kremsm., Berl. Circ. 127
f	23 26 5.82	—11 49 14.5		Mean of
	26 5.71	49 16.2		W. 23 ^h 495, and
	5.93	12.8		Kremsm., Berl. Circ. 127
g	23 26 22.80	—11 59 49.4		Kremsm., Berl. Circ. 127
h	23 24 39.77	—12 14 40.9		By 5 fil. micr. comp. with
i	23 25 55.99	—12 12 42.8		(LL. 40685) R. 11295
k	23 21 47.32	—12 6 53.7		Gill's star <i>m</i> , M. Not. vol. 39 p. 120
l	23 30 39.66	—10 56 9.9		* 11 ^m ; det. by 4 fil. micr. comp. with
	23 34 13.88	—10 53 50.9		Schj. 9771.

*) The star perhaps has a sensible proper motion, though LL. seems not to confirm it.

For ²⁰³ Pompeja:				
a	0 ^h 57 ^m 31 ^s 14	+ 8 ^h 15' 42'' 7	* 11 ^m ; det. by 3 filar micr. comp. with	
	1 0 23.32	+ 8 13 8.8	Mean of	
	0 23.43	13 7.1	R ₂ . 510	
	23.25	8.5	Schj. 366	
	23.28	10 8	Kremsm., Berl. Circ. 124	
b	0 56 11.77	+ 8 10 16.2	(LL. 1805. Pi. 0 ^h 262). Mean of	
	56 11.89	10 15.5	Cambridge, Eng., Obs. 1850 (w. 1)	
	11.76	15.6	Y. 529 (w. 2)	
	11.68	18.0	Kremsm., Berl. Circ. 124 (w. 1)	
c	0 50 7.75	+ 7 40 6.3	Mean of	
	50 7.74	40 5.2	by 4 fil. micr. comp. with W. 0 ^h 769	
	7.63	5.0	by 4 fil. micr. comp. with Schj. 292	
	7.88	8.6	Kremsm., Berl. Circ. 127.	
d	0 44 38.76	+ 7 23 18.2	Mean, by weight, of	
	44 38.72	23 18.2	Y. 429 (3; 2 obs).	
	38.87	* 18.1	Kremsm., Berl. Circ. 127 (1 obs.)	
e	0 38 28.48	+ 6 57 24.1	(LL. 1184). Mean of	
	38 28.62	57 24.2	W. 0 ^h 643	
	28.27	23.7	R ₂ . 270	
	28.55	24.5	Kremsm., Berl. Circ. 127	
f	0 35 45.18	+ 6 36 3.3	Mean of	
	35 45.27	36 3.3	W. 0 ^h 572 (1 obs.) [W.'s AR. to be corrected + 1 ^m]	
	45.13	3.6	Y. 329 (2 obs.) [Y.'s AR. likewise to be corr. + 1 ^m]	
	45.17	2.7	Kremsm., Berl. Circ. 127, (1)	
g	0 26 32.40	+ 5 23 30.6	Mean of	
	26 32.51	23 28.7	W. 0 ^h 422	
	32.30	32.5	Ann Arbor, Brünnow Not. Nr. 4.	

For $\odot$ 206 Hersilia:

a	1 ^h 1 ^m 45 ^s 31 + 1 ^h 21' 36'' 5	29 Ceti; from Radcl., Schj. Y., Greenw. Catal. 1864, (by weight), the annual prop. motion adopted from Mädler's Bradley.
b	0 59 58.68 + 1 18.10.2	(Dm. + 1°207). Mean of
	59 58.65 18 9.8	by 4 fil. micr. comp. with 29 Ceti
	58.72 10.6	Kremsm., Berl. Circ. 127
c	0 58 10.68 + 1 7 37.8	Mean of
	58 10.70 7 37.5	Arg. + 0°177
	10.65 38.2	Kremsm., Berl. Circ. 127
d	0 55 18.93 + 0 48 42.0	Mean of
	55 18.97 48 42.5	Kremsm., Berl. Circ. 127, and
	18.89 41.5	by 4 fil. micr. comp. with
	0 57 51 69 + 0 51 33.5	Arg. + 0°176

For $\odot$ 209 Dido:

a	1 21 14.84 + 13 11 51.9	Mean of
	21 14.95 11 52.0	W. 1 ^b 332
	14.72 51.4	Lam. 206

	1 ^h 21 ^m 14 ^s 85 + 13° 11' 52'' 3	Kremsm., Berl. Circ. 127
b	1 12 48.85 + 12 34 15.4	2 Wash. Mer. C. obs., kindly communicated by prof. Eastman.
c	1 10 19.39 + 12 12 31.2	* 10 ^m ; det. by 5 fil. micr. comp. with
	1 14 26.05 + 12 13 36.8	(W. 1 ^b 201). Mean, by weight, of
	14 25.99 13 35.9	Arg. + 12°165 (2; 1)
	26.11 36.4	Y. 658 (2; 3)
d	1 5 13.66 + 11 42 14.9	Mean, by weight, of
	5 13.90 42 18.4	W. 1 ^b 42 (1)
	13.95 11.6	Lam. 159 (1)
	13.57 14.9	Y. 609 (5; 2)
e	1 6 56.92 + 12 9 24.9	* 11 ^m ; det. by 4 fil. micr. comp. with
	1 11 45.23 + 12 7 42.1	Arg. + 11°165
f	1 9 47.28 + 12 21 24.9	(Dm. 12°154). Det. by 2 fil. micr. comp. with each of the foll. stars:
	1 6 7.44 + 12 24 5.5	(w. 3). Mean of Lam. 164, Y. 611, Berlin A.N.Nr. 1428, star 53 (corr. + 10'').
	1 14 6.20 + 12 18 28.5	(w. 1) Arg. + 12°163
g	1 8 30.74 + 12 28 58.0	Mean of
	8 30.39 28 51.8	Arg. + 12°150
	31.09 64.2	Lam. 173

(Schluss folgt.)

Entdeckung eines Planeten.

Herr Director Palisa meldet telegraphisch:

Planet $\odot$ 214 1880 März 1.11^h 22^m 40^s + 3° 33'Tägliche Bewegung — 52^s + 4' Grösse 12.

Berlin, 1880 März 2.

V. Knorre.

Inhalt:

Zu Nr. 2300. C. H. F. Peters, Observations of Minor Planets, made at the Litchfield Observatory of Hamilton College. 305. — V. Knorre. Entdeckung eines Planeten. 319.

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