

1917	x	y	1917	x	y	1917	x	y	1917	x	y	1917	x	y
	+	+		+	+		+	+		+	+		+	+
Aug. 12	175.72	92.21	Sept. 11	165.09	96.06	Okt. 11	153.59	95.72	Nov. 10	143.37	91.19	Dez. 10	136.61	83.24
13	.37	.39	12	164.71	.08	12	.25	.62	11	.11	90.99	11	.47	82.97
14	.03	.55	13	.34	.10	13	152.91	.52	12	142.84	.80	12	.32	.69
15	174.70	.69	14	163.99	.13	14	.57	.44	13	.57	.61	13	.16	.40
16	.38	.84	15	.64	.16	15	.23	.36	14	.28	.42	14	135.99	.10
17	174.08	92.98	16	163.29	96.20	16	151.88	95.29	15	141.98	90.22	15	135.83	81.77
18	173.78	93.13	17	162.95	.25	17	.52	.23	16	.67	.00	16	.69	.42
19	.48	.29	18	.59	.31	18	.14	.15	17	.36	89.76	17	.56	.06
20	.18	.45	19	.22	.38	19	150.75	.06	18	.05	.49	18	.46	80.69
21	172.88	.63	20	161.83	.44	20	.36	94.96	19	140.77	.20	19	.39	.33
22	172.56	93.82	21	161.43	96.49	21	149.96	94.82	20	140.50	88.91	20	135.34	79.99
23	.23	94.01	22	.01	.53	22	.56	.66	21	.26	.61	21	.30	.68
24	171.87	.19	23	160.58	.54	23	.19	.48	22	.04	.32	22	.25	.38
25	.50	.36	24	.16	.53	24	148.83	.30	23	139.84	.05	23	.20	.09
26	.11	.52	25	159.74	.49	25	.50	.11	24	.64	87.80	24	.14	78.81
27	170.71	94.65	26	159.34	96.44	26	148.19	93.94	25	139.43	87.57	25	135.06	78.53
28	.32	.75	27	158.96	.38	27	147.88	.79	26	.21	.34	26	134.98	.23
29	169.93	.83	28	.59	.33	28	.57	.65	27	138.98	.11	27	.89	77.91
30	.56	.91	29	.24	.30	29	.24	.53	28	.73	86.87	28	.82	.57
31	.21	.98	30	157.89	.29	30	146.91	.41	29	.48	.60	29	.77	.21
Sept. 1	168.88	95.07	Okt. 1	157.53	96.29	31	146.55	93.28	30	138.23	86.32	30	134.74	76.85
2	.55	.17	2	.15	.30	Nov. 1	.19	.13	Dez. 1	.00	.01	31	.73	.48
3	.22	.29	3	156.76	.30	2	145.82	92.96	2	137.79	85.69	32	.74	.12
4	167.87	.43	4	.35	.30	3	.46	.77	3	.59	.36	33	.77	75.78
5	.50	.57	5	155.93	.27	4	.11	.55	4	.42	.03	34	.81	.45
6	167.11	95.70	6	155.51	96.21	5	144.78	92.32	5	137.27	84.70			
7	166.71	.82	7	.09	.14	6	.47	.09	6	.13	.39			
8	.30	.91	8	154.69	.04	7	.18	91.85	7	.00	.08			
9	165.88	.98	9	.31	95.94	8	143.90	.62	8	136.88	83.79			
10	.48	96.03	10	153.94	.83	9	.63	.40	9	.75	.51			

Der mittlere Ort für 1917.0 ist nach A. N. 200.248

$$\alpha_0 = +182^{\circ}09$$

$$\beta_0 = +79^{\circ}28$$

Bei der Reduktion der Beobachtungen ist häufig die genäherte Kenntnis des Stundenwinkels und der Deklination erwünscht. Deshalb sind im folgenden die polaren Koordinaten RA. und Polabstand in 20-tägigen Intervallen gegeben.

1917	α	β
Jan. 0	1 ^h 41 ^m	172"
20	33	170
Febr. 9	24	171
März 1	18	175
21	14	180
April 9	13	187
29	15	193
Mai 19	20	198
Juni 8	26	201
28	33	202

1917	α	β
Juni 28	1 ^h 33 ^m	202"
Juli 18	41	202
Aug. 7	49	199
27	56	195
Sept. 16	2	189
Okt. 6	7	183
26	9	175
Nov. 15	10	168
Dez. 5	7	161
25	1	156

Straßburg (Els.), 1916 Sept.

K. Schiller.

Ephemeride der Polarissima [BD +89° 37] für 1917. Von L. Courvoisier.

Die Berechnung der folgenden Ephemeride wurde, der Besselschen Konstanten des Berliner Jahrbuchs von Fräulein M. Frosch ausgeführt und von mir nachgeprüft. Für

das Äquinoktium 1917.0 ergeben sich nach A.N. 194.315 die rechtwinkligen Koordinaten:

$$x_0 = -602''036 \quad y_0 = -341''210.$$

Die Faktoren der Besselschen Konstanten für 1917.0 sind:

$$\begin{aligned} a_x &= -19''.969 \\ b_x &= 0 \\ c_x &= +0.0013 \\ d_x &= -1.0000 \end{aligned}$$

$$\begin{aligned} a_y &= -0''.135 \\ b_y &= +1.0000 \\ c_y &= +1.0007 \\ d_y &= 0. \end{aligned}$$

Ephemeride für 0^h Sternzeit Greenwich.

Datum in m. Z. Greenwich	x	y	Datum in m. Z. Greenwich	x	y	Datum in m. Z. Greenwich	x	y	Datum in m. Z. Greenwich	x	y
1917	—	—	1917	—	—	1917	—	—	1917	—	—
Jan. 0.223	628.71	347.26	Febr. 14.100	622.99	359.80	März 30.977	609.84	362.80	Mai 14.854	599.09	354.48
1.220	.69	.56	15.097	.77	.95	31.975	.54	.76	15.852	598.91	.21
2.217	.68	.85	16.095	.56	360.12	Apr. 1.972	.24	.72	16.849	.73	353.91
3.215	.68	348.12	17.092	.35	.31	2.969	608.92	.66	17.846	.58	.59
4.212	.69	.41	18.089	.14	.51	3.966	.59	.60	18.843	.44	.26
5.209	628.70	348.72	19.086	621.91	360.73	4.964	608.25	362.51	19.841	598.33	352.92
6.207	.71	349.04	20.084	.66	.95	5.961	607.92	.40	20.838	.24	.59
7.204	.71	.37	21.081	.38	361.16	6.958	.59	.28	21.835	.17	.27
8.201	.69	.72	22.078	.08	.35	7.955	.27	.13	22.833	.10	351.97
9.198	.66	350.09	23.076	620.76	.51	8.953	606.97	361.97	23.830	.04	.69
10.196	628.60	350.44	24.073	620.45	361.64	9.950	606.70	361.80	24.827	597.97	351.42
11.193	.53	.79	25.070	.14	.74	10.947	.44	.63	25.824	.89	.15
12.190	.44	351.13	26.067	619.85	.83	11.944	.20	.48	26.822	.80	350.88
13.187	.33	.45	27.065	.57	.92	12.942	605.96	.34	27.819	.70	.60
14.185	.22	.76	28.062	.30	362.01	13.939	.73	.22	28.816	.60	.32
15.182	628.10	352.06	März 1.059	619.04	362.10	14.936	605.48	361.11	29.813	597.51	350.02
16.179	.00	.33	2.056	618.78	.22	15.934	.21	.00	30.811	.41	349.69
17.177	627.90	.59	3.054	.51	.34	16.931	604.93	360.88	31.808	.33	.36
18.174	.81	.85	4.051	.23	.48	17.928	.63	.74	Juni 1.805	.26	.01
19.171	.74	353.12	5.048	617.93	.60	18.925	.33	.56	2.803	.22	348.65
20.168	627.68	353.40	6.046	617.62	362.73	19.923	604.04	360.36	3.800	597.20	348.30
21.166	.61	.71	7.043	.30	.84	20.920	603.76	.14	4.797	.20	347.95
22.163	.52	354.04	8.040	616.96	.94	21.917	.51	359.90	5.794	.22	.62
23.160	.42	.38	9.037	.61	363.01	22.914	.28	.66	6.792	.26	.31
24.157	.29	.72	10.035	.27	.07	23.912	.07	.43	7.789	.28	.02
25.155	627.13	355.04	11.032	615.93	363.10	24.909	602.86	359.21	8.786	597.30	346.74
26.152	626.95	.34	12.029	.59	.11	25.906	.67	.01	9.783	.30	.47
27.149	.76	.62	13.026	.28	.11	26.904	.46	358.82	10.781	.29	.19
28.147	.56	.86	14.024	614.98	.11	27.901	.25	.64	11.778	.27	345.89
29.144	.38	356.09	15.021	.70	.11	28.898	.03	.46	12.775	.24	.56
30.141	626.20	356.32	16.018	614.43	363.13	29.895	601.80	358.26	13.772	597.23	345.21
31.138	.04	.54	17.015	.16	.16	30.893	.56	.06	14.770	.24	344.85
Febr. 1.136	625.89	.77	18.013	613.88	.21	Mai 1.890	.32	357.85	15.767	.27	.48
2.133	.73	357.01	19.010	.58	.27	2.887	.08	.61	16.764	.33	.12
3.130	.57	.27	20.007	.27	.32	3.884	600.85	.36	17.762	.41	343.77
4.127	625.40	357.54	21.005	612.93	363.35	4.882	600.62	357.08	18.759	597.50	343.44
5.125	.21	.82	22.002	.58	.35	5.879	.42	356.80	19.756	.59	.12
6.122	.00	358.10	22.999	.23	.32	6.876	.24	.50	20.753	.68	342.83
7.119	624.78	.37	23.996	611.88	.27	7.873	.08	.21	21.751	.76	.54
8.117	.54	.62	24.994	.56	.19	8.871	599.94	355.93	22.748	.83	.26
9.114	624.28	358.87	25.991	611.25	363.10	9.868	599.81	355.66	23.745	597.89	341.98
10.111	.01	359.09	26.988	610.96	.02	10.865	.69	.41	24.742	.95	.69
11.108	623.74	.29	27.985	.68	362.95	11.863	.56	.18	25.740	598.01	.38
12.106	.48	.47	28.983	.40	.89	12.860	.42	354.95	26.737	.07	.06
13.103	.23	.64	29.980	.13	.84	13.857	.26	.73	27.734	.13	340.73

Datum in m. Z. Greenwich	<i>x</i>	<i>y</i>	Datum in m. Z. Greenwich	<i>x</i>	<i>y</i>	Datum in m. Z. Greenwich	<i>x</i>	<i>y</i>	Datum in m. Z. Greenwich	<i>x</i>	<i>y</i>
1917	—	—	1917	—	—	1917	—	—	1917	—	—
Juni 28.732	598.22	340.39	Aug. 17.595	609.92	327.65	Okt. 6.458	628.47	324.42	Nov. 25.322	644.56	333.10
29.729	.32	.04	18.592	610.22	.50	7.456	.89	.50	26.319	.77	.32
30.726	.44	339.68	19.590	.52	.34	8.453	629.29	.60	27.316	645.01	.55
Juli 1.723	.59	.34	20.587	.81	.17	9.450	.67	.70	28.314	.25	.80
2.721	.76	.01	21.584	611.12	326.99	10.448	630.04	.81	29.311	.50	334.06
3.718	598.94	338.71	22.581	611.44	326.81	11.445	630.39	324.92	30.308	645.75	334.35
4.715	599.13	.42	23.579	.77	.62	12.442	.74	325.02	Dez. 1.306	.98	.66
5.712	.31	.16	24.576	612.12	.43	13.439	631.07	.12	2.303	646.20	.98
6.710	.47	337.91	25.573	.49	.26	14.437	.41	.20	3.300	.39	335.32
7.707	.62	.65	26.570	.88	.10	15.434	.75	.28	4.297	.56	.64
8.704	599.75	337.38	27.568	613.28	325.98	16.431	632.10	325.35	5.295	646.72	335.97
9.701	.88	.09	28.565	.68	.88	17.428	.46	.42	6.292	.85	336.28
10.699	600.01	336.78	29.562	614.06	.80	18.426	.84	.49	7.289	.98	.59
11.696	.16	.45	30.559	.43	.72	19.423	633.23	.58	8.286	647.11	.88
12.693	.34	.12	31.557	.78	.65	20.420	.62	.69	9.284	.24	337.16
13.691	600.53	335.78	Sept. 1.554	615.11	325.56	21.418	634.02	325.82	10.281	647.37	337.44
14.688	.75	.46	2.551	.44	.46	22.415	.42	.98	11.278	.51	.71
15.685	.98	.16	3.549	.78	.34	23.412	.79	326.16	12.276	.67	338.00
16.682	601.21	334.88	4.546	616.12	.20	24.409	635.15	.35	13.273	.83	.28
17.680	.45	.63	5.543	.49	.06	25.407	.48	.53	14.270	.99	.58
18.677	601.68	334.38	6.540	616.88	324.93	26.404	635.80	326.71	15.267	648.15	338.91
19.674	.89	.15	7.538	617.28	.81	27.401	636.10	.86	16.265	.30	339.26
20.671	602.10	333.91	8.535	.69	.72	28.398	.42	.99	17.262	.43	.63
21.669	.30	.67	9.532	618.10	.65	29.396	.74	327.12	18.259	.52	.99
22.666	.50	.42	10.529	.51	.61	30.393	637.08	.24	19.256	.60	340.35
23.663	602.69	333.17	11.527	618.90	324.58	31.390	637.43	327.36	20.254	648.65	340.69
24.661	.89	332.90	12.524	619.28	.55	Nov. 1.387	.80	.51	21.251	.69	341.01
25.658	603.11	.62	13.521	.64	.53	2.385	638.16	.69	22.248	.74	.31
26.655	.34	.33	14.519	620.00	.51	3.382	.52	.88	23.245	.79	.59
27.652	.58	.04	15.516	.34	.47	4.379	.87	328.10	24.243	.85	.87
28.650	603.85	331.75	16.513	620.69	324.43	5.377	639.20	328.33	25.240	648.93	342.16
29.647	604.15	.48	17.510	621.04	.38	6.374	.51	.57	26.237	649.01	.46
30.644	.45	.23	18.508	.40	.32	7.371	.80	.80	27.235	.10	.78
31.641	.77	.01	19.505	.76	.26	8.368	640.08	329.03	28.232	.17	343.12
Aug. 1.639	605.08	330.81	20.502	622.15	.19	9.366	.35	.25	29.229	.22	.47
2.636	605.37	330.62	21.499	622.55	324.14	10.363	640.61	329.46	30.226	649.25	343.85
3.633	.65	.44	22.497	.97	.10	11.360	.87	.66	31.224	.26	344.21
4.630	.92	.26	23.494	623.40	.10	12.357	641.14	.86	32.221	.25	.57
5.628	606.17	.05	24.491	.82	.11	13.355	.42	330.04	33.218	.22	.92
6.625	.42	329.83	25.489	624.24	.14	14.352	.70	.24	34.215	.18	345.25
7.622	606.69	329.59	26.486	624.64	324.20	15.349	642.00	330.44			
8.620	.97	.34	27.483	625.03	.25	16.347	.31	.66			
9.617	607.27	.08	28.480	.39	.30	17.344	.62	.90			
10.614	.60	328.84	29.478	.74	.34	18.341	.93	331.17			
11.611	.94	.61	30.475	626.09	.35	19.338	643.22	.46			
12.609	608.28	328.41	Okt. 1.472	626.45	324.35	20.336	643.48	331.75			
13.606	.63	.24	2.469	.83	.34	21.333	.72	332.05			
14.603	.97	.08	3.467	627.22	.33	22.330	.94	.34			
15.600	609.30	327.93	4.464	.63	.34	23.327	644.15	.61			
16.598	.61	.79	5.461	628.05	.37	24.325	.35	.86			

Berlin-Babelsberg, 1916 Oktober.

L. Courvoisier.