

APPARENT PLACES OF STARS, 2025
 SOUTHERN CIRCUMPOLAR STARS AT UPPER TRANSIT AT GREENWICH
 EQUINOX BASED RIGHT ASCENSION – WHOLE NUTATION

FK6 Star No. 1662 = Hipparcos Star No. 30678 = A Octantis

Day	January		February		March		April		May		June	
	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.
	06 ^h 03 ^m	– 88°45′	06 ^h 02 ^m	– 88°45′	06 ^h 02 ^m	– 88°45′	06 ^h 01 ^m	– 88°45′	06 ^h 01 ^m	– 88°45′	06 ^h 01 ^m	– 88°44′
1	39.664	04.234	78.041	12.819	48.118	17.447	70.983	18.262	37.731	14.547	13.464	66.848
2	39.191	04.501	77.236	13.055	47.061	17.572	69.667	18.248	36.617	14.328	12.993	66.514
3	38.767	04.770	76.387	13.314	45.945	17.715	68.322	18.203	35.571	14.086	12.583	66.195
4	38.381	05.053	75.466	13.587	44.750	17.863	66.987	18.125	34.604	13.832	12.210	65.893
5	38.007	05.359	74.461	13.859	43.477	17.998	65.694	18.018	33.715	13.577	11.853	65.609
6	37.610	05.691	73.379	14.116	42.151	18.109	64.463	17.892	32.891	13.329	11.492	65.341
7	37.156	06.046	72.242	14.349	40.802	18.189	63.301	17.756	32.113	13.095	11.112	65.083
8	36.619	06.413	71.082	14.550	39.463	18.237	62.205	17.621	31.362	12.876	10.701	64.830
9	35.990	06.778	69.931	14.722	38.162	18.260	61.161	17.493	30.616	12.673	10.257	64.575
10	35.279	07.127	68.816	14.871	36.917	18.266	60.151	17.379	29.856	12.483	09.783	64.310
11	34.513	07.449	67.752	15.005	35.731	18.264	59.155	17.279	29.068	12.299	09.290	64.028
12	33.727	07.740	66.742	15.137	34.600	18.265	58.151	17.194	28.245	12.117	08.796	63.725
13	32.956	08.004	65.777	15.274	33.511	18.276	57.123	17.119	27.385	11.927	08.322	63.400
14	32.226	08.249	64.840	15.424	32.442	18.301	56.059	17.048	26.495	11.724	07.892	63.055
15	31.546	08.487	63.908	15.590	31.372	18.341	54.952	16.974	25.587	11.500	07.524	62.698
16	30.912	08.727	62.960	15.770	30.283	18.393	53.803	16.890	24.682	11.254	07.230	62.336
17	30.310	08.978	61.977	15.962	29.156	18.453	52.622	16.788	23.799	10.984	07.010	61.983
18	29.720	09.244	60.946	16.160	27.983	18.515	51.422	16.664	22.962	10.694	06.848	61.647
19	29.119	09.527	59.858	16.357	26.760	18.571	50.223	16.516	22.187	10.391	06.719	61.337
20	28.488	09.826	58.710	16.546	25.489	18.614	49.048	16.342	21.484	10.085	06.586	61.055
21	27.810	10.135	57.508	16.720	24.181	18.637	47.918	16.148	20.850	09.788	06.416	60.794
22	27.070	10.450	56.263	16.871	22.851	18.636	46.851	15.942	20.267	09.511	06.183	60.542
23	26.264	10.763	54.995	16.996	21.521	18.608	45.854	15.736	19.702	09.260	05.886	60.283
24	25.390	11.065	53.731	17.092	20.216	18.553	44.921	15.543	19.115	09.036	05.546	60.001
25	24.456	11.350	52.498	17.164	18.960	18.480	44.023	15.374	18.470	08.829	05.203	59.688
26	23.479	11.611	51.321	17.221	17.770	18.398	43.120	15.234	17.751	08.622	04.902	59.344
27	22.485	11.843	50.210	17.278	16.648	18.322	42.168	15.116	16.970	08.396	04.677	58.979
28	21.503	12.050	49.153	17.350	15.574	18.267	41.138	15.006	16.163	08.138	04.545	58.606
29	20.561	12.238	48.118	17.447	14.510	18.241	40.034	14.883	15.377	07.846	04.502	58.237
30	19.675	12.419			13.409	18.240	38.884	14.732	14.653	07.526	04.533	57.883
31	18.843	12.609			12.236	18.253	37.731	14.547	14.014	07.189	04.614	57.549
32	18.041	12.819			10.983	18.262			13.464	06.848		
	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)
	45.93	45.92	46.00	45.99	46.03	46.02	46.01	46.00	45.96	45.94	45.86	45.85

Mean R.A. 06^h02^m08^s.735

Double lower transit June 21

Mean Dec. –88°45′09″.191

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APPARENT PLACES OF STARS, 2025
 SOUTHERN CIRCUMPOLAR STARS AT UPPER TRANSIT AT GREENWICH
 EQUINOX BASED RIGHT ASCENSION – WHOLE NUTATION

FK6 Star No. 1662 = Hipparcos Star No. 30678 = A Octantis

Day	July		August		September		October		November		December	
	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.
	06 ^h 01 ^m	– 88°44′	06 ^h 01 ^m	– 88°44′	06 ^h 01 ^m	– 88°44′	06 ^h 01 ^m	– 88°44′	06 ^h 02 ^m	– 88°44′	06 ^h 02 ^m	– 88°44′
1	04.614	57.549	11.855	48.462	32.721	42.386	59.847	41.169	25.805	45.420	39.702	53.956
2	04.721	57.237	12.362	48.249	33.458	42.268	60.708	41.181	26.601	45.623	39.969	54.329
3	04.832	56.944	12.833	48.036	34.199	42.134	61.616	41.189	27.402	45.859	40.141	54.721
4	04.929	56.666	13.276	47.815	34.967	41.986	62.579	41.203	28.169	46.130	40.203	55.117
5	05.000	56.398	13.699	47.582	35.784	41.829	63.595	41.238	28.860	46.430	40.166	55.496
6	05.039	56.131	14.122	47.332	36.666	41.672	64.643	41.304	29.448	46.744	40.067	55.846
7	05.047	55.859	14.568	47.064	37.616	41.529	65.685	41.407	29.935	47.052	39.958	56.162
8	05.031	55.576	15.059	46.782	38.621	41.411	66.678	41.546	30.352	47.338	39.885	56.453
9	05.007	55.275	15.616	46.493	39.649	41.329	67.590	41.706	30.744	47.595	39.870	56.732
10	04.995	54.953	16.248	46.208	40.661	41.282	68.412	41.871	31.157	47.827	39.916	57.014
11	05.020	54.613	16.952	45.941	41.621	41.263	69.161	42.023	31.619	48.044	40.006	57.310
12	05.102	54.259	17.703	45.702	42.508	41.258	69.874	42.153	32.140	48.259	40.116	57.627
13	05.259	53.901	18.470	45.496	43.325	41.250	70.590	42.258	32.714	48.485	40.220	57.966
14	05.492	53.549	19.215	45.320	44.096	41.226	71.345	42.346	33.323	48.729	40.294	58.325
15	05.791	53.216	19.909	45.165	44.853	41.180	72.156	42.426	33.946	48.997	40.320	58.700
16	06.130	52.909	20.541	45.016	45.632	41.113	73.029	42.510	34.557	49.289	40.285	59.085
17	06.477	52.632	21.117	44.860	46.462	41.031	73.956	42.608	35.136	49.603	40.182	59.471
18	06.797	52.380	21.661	44.684	47.359	40.946	74.918	42.729	35.664	49.934	40.013	59.853
19	07.065	52.143	22.208	44.485	48.326	40.867	75.894	42.875	36.131	50.276	39.785	60.223
20	07.273	51.906	22.793	44.264	49.351	40.805	76.859	43.048	36.533	50.620	39.512	60.576
21	07.430	51.656	23.444	44.030	50.417	40.769	77.793	43.244	36.873	50.961	^{39.212} _{38.904}	^{60.910} _{61.225}
22	07.567	51.381	24.175	43.793	51.498	40.759	78.681	43.457	37.160	51.291	38.609	61.525
23	07.724	51.078	24.984	43.566	52.571	40.776	79.511	43.681	37.409	51.607	38.339	61.815
24	07.938	50.752	25.857	43.359	53.616	40.816	80.284	43.908	37.638	51.906	38.102	62.106
25	08.235	50.414	26.770	43.178	54.619	40.871	81.005	44.131	37.867	52.190	37.895	62.405
26	08.622	50.078	27.698	43.023	55.574	40.935	81.683	44.345	38.113	52.464	37.702	62.722
27	09.090	49.754	28.618	42.893	56.481	41.001	82.336	44.545	38.387	52.733	37.499	63.063
28	09.617	49.451	29.512	42.781	57.348	41.061	82.980	44.732	38.695	53.008	37.253	63.429
29	10.180	49.172	30.370	42.682	58.187	41.110	83.635	44.906	39.031	53.298	36.933	63.814
30	10.753	48.918	31.189	42.588	59.013	41.146	84.318	45.073	39.377	53.612	36.513	64.206
31	11.317	48.683	31.969	42.491	59.847	41.169	85.040	45.241	39.702	53.956	35.990	64.589
32	11.855	48.462	32.721	42.386			85.805	45.420			35.385	64.948
	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)
	45.77	45.76	45.69	45.68	45.65	45.64	45.66	45.65	45.73	45.72	45.83	45.82

Mean R.A. 06^h02^m08^s.735

Double lower transit June 21

Mean Dec. –88°45′09″.191

APPARENT PLACES OF STARS, 2025
 SOUTHERN CIRCUMPOLAR STARS AT UPPER TRANSIT AT GREENWICH
 EQUINOX BASED RIGHT ASCENSION – WHOLE NUTATION

FK6 Star No. 1666 = Hipparcos Star No. 76996 = ρ Oct

Day	January		February		March		April		May		June	
	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.
	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–
		84°32′		84°32′		84°32′		84°32′		84°32′		84°32′
1	12.149	21.713	19.953	18.926	27.704	20.638	35.338	26.556	40.654	35.292	42.894	46.026
2	12.366	21.596	20.193	18.898	27.944	20.737	35.597	26.781	40.819	35.653	42.863	46.366
3	12.569	21.475	20.447	18.852	28.203	20.823	35.860	27.038	40.960	36.029	42.826	46.682
4	12.761	21.340	20.722	18.800	28.484	20.910	36.114	27.324	41.076	36.408	42.790	46.978
5	12.951	21.183	21.019	18.756	28.784	21.015	36.349	27.632	41.169	36.777	42.760	47.258
6	13.151	21.005	21.334	18.732	29.095	21.147	36.563	27.952	41.246	37.131	42.739	47.529
7	13.369	20.812	21.659	18.738	29.406	21.310	36.754	28.272	41.313	37.465	42.728	47.797
8	13.610	20.616	21.982	18.775	29.707	21.501	36.926	28.583	41.376	37.779	42.727	48.070
9	13.876	20.432	22.296	18.839	29.990	21.712	37.084	28.879	41.442	38.076	42.734	48.355
10	14.160	20.271	22.592	18.922	30.253	21.932	37.236	29.158	41.516	38.362	42.743	48.655
11	14.453	20.142	22.870	19.013	30.496	22.153	37.387	29.420	41.599	38.643	42.750	48.973
12	14.744	20.044	23.129	19.101	30.722	22.364	37.543	29.668	41.693	38.925	42.747	49.308
13	15.024	19.972	23.375	19.178	30.938	22.561	37.708	29.909	41.796	39.217	42.730	49.655
14	15.286	19.914	23.614	19.240	31.151	22.741	37.884	30.148	41.905	39.523	42.694	50.008
15	15.530	19.860	23.854	19.286	31.365	22.906	38.071	30.393	42.016	39.849	42.637	50.356
16	15.759	19.798	24.099	19.319	31.588	23.061	38.267	30.651	42.121	40.194	42.563	50.690
17	15.979	19.723	24.355	19.346	31.822	23.211	38.469	30.927	42.216	40.557	42.477	51.000
18	16.196	19.632	24.625	19.371	32.068	23.364	38.670	31.225	42.295	40.932	42.388	51.283
19	16.419	19.527	24.909	19.403	32.326	23.527	38.866	31.544	42.355	41.313	42.305	51.540
20	16.651	19.411	25.205	19.449	32.593	23.707	39.051	31.882	42.418	41.689	42.238	51.779
21	16.898	19.290	25.512	19.515	32.866	23.908	39.218	32.234	42.431	42.387	42.191	52.013
22	17.160	19.172	25.823	19.605	33.137	24.133	39.366	32.591	42.444	42.697	42.163	52.257
23	17.438	19.064	26.134	19.722	33.403	24.382	39.495	32.941	42.468	42.984	42.146	52.524
24	17.730	18.972	26.436	19.865	33.655	24.651	39.608	33.273	42.512	43.258	42.127	52.820
25	18.033	18.904	26.723	20.027	33.890	24.933	39.715	33.580	42.578	43.537	42.093	53.140
26	18.340	18.863	26.991	20.198	34.104	25.217	39.829	33.860	42.660	43.835	42.035	53.472
27	18.645	18.850	27.240	20.365	34.300	25.490	39.959	34.121	42.747	44.163	41.950	53.802
28	18.938	18.860	27.474	20.514	34.485	25.741	40.114	34.380	42.824	44.522	41.842	54.117
29	19.216	18.885	27.704	20.638	34.671	25.964	40.288	34.654	42.880	44.901	41.716	54.409
30	19.475	18.913			34.871	26.164	40.473	34.957	42.908	45.286	41.582	54.675
31	19.718	18.930			35.093	26.356	40.654	35.292	42.911	45.664	41.446	54.916
32	19.953	18.926			35.338	26.556			42.894	46.026		
	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)
	10.51	10.46	10.51	10.46	10.51	10.46	10.51	10.47	10.52	10.47	10.52	10.48

Mean R.A. 15^h49^m33^s.396 Double lower transit November 18 Mean Dec. –84°32′33″.817

APPARENT PLACES OF STARS, 2025
 SOUTHERN CIRCUMPOLAR STARS AT UPPER TRANSIT AT GREENWICH
 EQUINOX BASED RIGHT ASCENSION – WHOLE NUTATION

FK6 Star No. 1666 = Hipparcos Star No. 76996 = ρ Oct

Day	July		August		September		October		November		December	
	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.	R.A.	Dec.
	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–	15 ^h 49 ^m	–
		84°32′		84°33′		84°32′		84°32′		84°32′		84°32′
1	41.446	54.916	36.978	00.790	30.967	61.872	25.537	57.976	22.464	49.961	23.468	40.781
2	41.316	55.136	36.814	00.870	30.793	61.842	25.381	57.815	22.394	49.648	23.580	40.438
3	41.194	55.342	36.658	00.959	30.610	61.822	25.213	57.645	22.339	49.308	23.722	40.102
4	41.083	55.541	36.506	01.061	30.414	61.807	25.035	57.455	22.310	48.950	23.889	39.792
5	40.983	55.740	36.352	01.178	30.201	61.786	24.854	57.235	22.313	48.588	24.068	39.517
6	40.892	55.947	36.191	01.309	29.973	61.748	24.681	56.982	22.343	48.242	24.244	39.277
7	40.806	56.166	36.015	01.448	29.735	61.682	24.529	56.703	22.392	47.925	24.404	39.061
8	40.720	56.400	35.821	01.587	29.499	61.583	24.405	56.410	22.443	47.639	24.543	38.852
9	40.628	56.651	35.608	01.715	29.275	61.452	24.309	56.122	22.483	47.379	24.663	38.637
10	40.524	56.915	35.381	01.821	29.072	61.299	24.234	55.852	22.506	47.130	24.771	38.404
11	40.403	57.186	35.147	01.896	28.894	61.140	24.166	55.609	22.510	46.879	24.876	38.151
12	40.262	57.453	34.916	01.940	28.738	60.989	24.095	55.391	22.499	46.613	24.985	37.877
13	40.102	57.706	34.698	01.956	28.595	60.858	24.009	55.187	22.482	46.327	25.106	37.587
14	39.928	57.935	34.500	01.956	28.454	60.749	23.906	54.987	22.464	46.019	25.242	37.289
15	39.750	58.135	34.324	01.955	28.304	60.659	23.786	54.777	22.455	45.690	25.396	36.990
16	39.576	58.306	34.164	01.965	28.138	60.579	23.653	54.550	22.459	45.344	25.568	36.698
17	39.415	58.455	34.012	01.995	27.953	60.498	23.515	54.299	22.479	44.990	25.756	36.419
18	39.274	58.593	33.858	02.047	27.751	60.402	23.379	54.023	22.519	44.634	25.955	36.158
19	39.153	58.735	33.691	02.116	27.536	60.285	23.252	53.724	22.577	44.284	26.161	35.919
20	39.045	58.892	33.504	02.193	27.315	60.141	23.139	53.407	22.651	43.946	26.369	35.702
21	38.941	59.073	33.295	02.263	27.098	59.970	23.044	53.081	22.735	43.625	26.573	35.506
22	38.829	59.277	33.067	02.316	26.889	59.774	22.966	52.752	22.826	43.323	26.768	35.323
23	38.699	59.498	32.827	02.343	26.694	59.562	22.906	52.428	22.918	43.041	26.953	35.148
24	38.545	59.722	32.582	02.341	26.516	59.339	22.860	52.114	23.005	42.773	27.126	34.972
25	38.366	59.935	32.340	02.312	26.355	59.114	22.823	51.816	23.084	42.516	27.291	34.786
26	38.169	60.128	32.107	02.260	26.207	58.894	22.790	51.534	23.153	42.262	27.454	34.585
27	37.960	60.292	31.887	02.193	26.071	58.684	22.756	51.268	23.212	42.002	27.621	34.365
28	37.748	60.428	31.681	02.118	25.941	58.488	22.717	51.012	23.266	41.728	27.803	34.128
29	37.539	60.540	31.490	02.043	25.812	58.306	22.668	50.763	23.320	41.434	28.007	33.882
30	37.340	60.632	31.310	01.974	25.679	58.137	22.608	50.511	23.384	41.117	28.238	33.640
31	37.153	60.713	31.137	01.916	25.537	57.976	22.538	50.246	23.468	40.781	28.494	33.416
32	36.978	60.790	30.967	01.872			22.464	49.961			28.767	33.223
	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)	sec(δ)	tan(δ)
	10.53	10.48	10.53	10.48	10.53	10.48	10.53	10.48	10.52	10.47	10.52	10.47

Mean R.A. 15^h49^m33^s.396 Double lower transit November 18 Mean Dec. –84°32′33″.817