NO. 70 THE SYSTEM OF LUNAR CRATERS, QUADRANT IV

by D. W. G. ARTHUR, RUTH H. PELLICORI,
AND C. A. WOOD

May 25, 1966

ABSTRACT

The designation, diameter, position, central peak information, and state of completeness are listed for each discernible crater with a diameter exceeding 3.5 km in the fourth lunar quadrant. The catalog contains about 8,000 items and is illustrated by a map in 11 sections.

This *Communication* is the fourth and final part of the *System of Lunar Craters,* which is a catalog of all craters on the visible hemisphere recognizable with reasonable certainty on photographs and having diameters greater than 3.5 km. The three previous parts were published as *Comm. LPL* Nos. 30, 40, and 50.

Following the practice of the earlier parts, names have been given to large or conspicuous craters in the limb regions wherever such additions were considered necessary. These new names have already been approved by the International Astronomical Union in its Twelfth General Assembly, Hamburg, 1964.

The new names for Quadrant IV are:

Abel	Norwegian mathematician
Balmer	Swiss physicist
Barnard	American astronomer
Gibbs	American physicist
Gilbert	American geologist
Gill	British astronomer
Hale	American astronomer
Hamilton	Irish mathematician
Kapteyn	Dutch astronomer
Lamé	French mathematician
Lyot	French astronomer
Scott	British polar explorer
Amundsen	Norwegian polar explorer
Jeans	British physicist

The craters *Amundsen* and *Jeans* are thought to be just beyond the mean limb and hence are not listed in the catalog nor shown in the accompanying maps. The details for these are:

	Long.	*Lat.*	*Diam. (.001r)*
Amundsen	93°.0 E	84°.0 S	55
Jeans	94°.0 E	57°.0 S	50

The compilation of this catalog started in 1962. The ensuing changes in personnel, increased experience, and the very definite improvement in lunar photography in the period 1962–1966 resulted in the work being somewhat inhomogeneous, with Quadrant IV superior to Quadrant I in quality and completeness. It appears that a certain amount of inhomogeneity is inevitable in a survey that aims at completeness. The scope of the work can be appreciated from the figures: The complete catalog lists the diameters, approximate positions, backgrounds, central peak data, and state of completeness for about 17,000 craters. The accompanying maps are entirely schematic, yet in most respects they are probably more complete and more accurate than the great chart of Julius Schmidt.

Acknowledgments. The senior author's role in the preparation of this work was limited to planning and occasional decisions in cases of doubt. It is appropriate to record here his thanks to the co-authors who really did the work, which must have seemed both tedious and endless. Dr. G. P. Kuiper must also be thanked for his interest and support throughout. The work reported here was supported by the National Aeronautics and Space Administration under Grant No. NsG 161–61.

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40005			+.002	-.054	+.999	+0.1	-3.1	2.02	3.51	2	C	O
40005A			.003	.055	.998	0.2	3.2	2.32	4.03	2	C	O
40005B			.008	.056	.998	0.5	3.2	2.62 3.96	4.55 6.88	3	C	O
40006	3639A	Réaumur C	.004	.061	.998	0.2	3.5	2.90	5.04	1	C	O
40006A			.000	.063	.998	0.0	3.6	3.25	5.65	4	C	O
40006B			.007	.063	.998	0.4	3.6	3.74	6.50	3	C	O
40007	3640	Réaumur A	.004	.075	.997	0.2	4.3	8.46 9.89	14.70 17.19	2f	C	O
40009	2952	Gyldén	.005	.093	.996	0.3	5.3	27.20	47.28	4	C	O
40012		Réaumur Y	.010	.023	1.000	0.6	1.3	1.88	3.27	1	pM	O
40014	3639	Réaumur	.013	.042	.999	0.7	2.4	30.36	52.77	4f	aMC	O
40015			.010	.054	.998	0.6	3.1	4.56	7.93	4f	aMC	O
40015A			.012	.059	.998	0.7	3.4	4.82	8.38	4	C	O
40015B			.016	.057	.998	0.9	3.3	4.15	7.21	4f	C	O
40016		Réaumur K	.018	.066	.998	1.0	3.8	3.99	6.94	3	C	O
40017	3641	Réaumur B	.015	.074	.997	0.9	4.2	2.67	4.64	1	C	O
40017A			.016	.070	.997	0.9	4.0	4.11	7.14	3	C	O
40018			.013	.087	.996	0.7	5.0	10.43	18.13	4f	C	O
40019		Gyldén K	.011	.095	.995	0.6	5.5	2.78	4.83	2	C	O
40025			.020	.056	.998	1.1	3.2	4.68	8.13	3	C	O
40027			.020	.070	.997	1.1	4.2	7.60 9.53	13.21 16.56	5f	C	O
40027A			.020	.078	.997	1.1	4.5	2.80	4.87	3	C	O
40027B			.023	.079	.997	1.3	4.5	2.62	4.55	3	C	O
40033		Seeliger S	.038	.037	.999	2.2	2.1	2.00	3.48	1	pMC	O
40035			.031	.059	.998	1.8	3.4	3.68	6.40	3	C	O
40036		Réaumur R	.037	.062	.997	2.1	3.6	7.86	13.66	3f	C	O
40036A			.036	.066	.997	2.1	3.8	2.75	4.78	2	C	O
40036B			.031	.066	.997	1.8	3.8	2.20	3.82	1	C	O
40036C			.031	.067	.997	1.8	3.8	2.80	4.87	2	C	O
40037	3608A	Hipparchus D	.037	.078	.996	2.1	4.5	2.66	4.62	1	C	O
40037A	3608B	Hipparchus E	.040	.074	.996	2.3	4.2	3.11	5.41	1	C	O
40039			.030	.090	.995	1.7	5.2	2.27	3.95	3	C	O
40039A			.030	.093	.995	1.7	5.3	3.74	6.50	3	C	O
40040	3639B	Réaumur D	.049	.004	.999	2.8	0.2	2.42	4.21	1	pMC	O
40042			.046	.022	.999	2.6	1.3	9.63	16.74	4f	aMC	O
40045		Réaumur W	.049	.056	.997	2.8	3.2	1.64	2.85	1	pMC	O
40045A			.049	.058	.997	2.8	3.3	2.07	3.60	3	pMC	O
40046			.045	.065	.997	2.6	3.7	2.95	5.13	3	C	O
40046A			.049	.064	.997	2.8	3.7	3.48 4.94	6.05 8.59	4f	aMC	O
40046B			.042	.068	.997	2.4	3.9	5.52 7.87	9.59 13.68	3f	C	O
40047	3608	Hipparchus F	.043	.073	.996	2.5	4.2	5.62	9.77	1	C	O
40048	3608D	Hipparchus P	.048	.082	.995	2.8	4.7	2.99	5.20	1	C	O
40049	3608C	Hipparchus H	.040	.095	.995	2.3	5.5	2.63	4.57	1	C	O
40049A			.048	.094	.994	2.8	5.4	3.40	5.91	3	C	?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40050			+.051	-.007	+.999	+2.9	-0.4	2.30	4.00	1	pMC	o
40050A			.054	.002	.999	3.1	0.1	7.08	12.31	4f	C	o
40051		Rhaeticus J	.056	.012	.998	3.2	0.7	2.03	3.53	1	C	o
40053	3610	Seeliger	.053	.038	.998	3.0	2.2	4.90	8.52	1	pMC	o
40053A	3610A	Seeliger A	.054	.032	.998	3.1	1.8	2.25	3.91	1	pMC	o
40056			.057	.065	.996	3.3	3.7	8.94	15.54	4	C	p?
40066			.068	.068	.995	3.9	3.9	12.80	22.25	5f	C	o
40068			.067	.083	.994	3.9	4.8	15.25	26.51	5f	C	o
40069			.066	.092	.994	3.8	5.3	7.83	13.61	5f	C	o
40072			.077	.022	.997	4.4	1.3	3.86	6.71	3	C	p
40073		Seeliger T	.076	.039	.996	4.4	2.2	2.23	3.88	1	C	o
40073A			.077	.030	.997	4.4	1.7	4.70	8.17	3	C	o
40074			.077	.043	.996	4.4	2.5	6.91	12.01	5	aMC	o
40076			.070	.060	.996	4.0	3.4	8.97	15.59	5f	C	o
40076A			.076	.063	.995	4.4	3.6	2.02	3.51	3	C	o
40076B			.078	.063	.995	4.5	3.6	2.31	4.02	3	C	o
40083			.080	.035	.996	4.6	2.0	9.70	16.86	4f	C	o
40083A			.087	.030	.996	5.0	1.7	8.06	14.01	4	C	o
40083B			.089	.033	.995	5.1	1.9	2.43	4.22	3	C	o
40084			.081	.048	.996	4.7	2.8	13.27	23.07	4f	C	o
40084A			.084	.045	.995	4.8	2.6	4.41	7.67	2	C	p?
40084B			.085	.041	.996	4.9	2.3	2.24	3.89	3	C	o
40085		Horrocks U	.083	.056	.995	4.8	3.2	2.20	3.82	1	C	o
40088	3616	Hipparchus N	.087	.084	.993	5.0	4.8	3.64	6.33	1	C	o
40089	3605	Hipparchus	.084	.096	.992	4.8	5.5	86.59	150.51	4	C	pp
40089A			.088	.097	.991	5.1	5.6	4.70	8.17	5f	C	o
40091		Rhaeticus H	.094	.018	.995	5.4	1.0	3.27	5.68	2	C	o
40100			.006	.106	.994	0.3	6.1	3.98	6.92	3	C	o
40101			.002	.117	.993	0.1	6.7	2.66	4.62	2	C	o
40101A			.003	.111	.994	0.2	6.4	2.17	3.77	3	C	o
40102	2969	Ptolemaeus G	.002	.124	.992	0.1	7.1	6.09 5.01	10.59 8.71	3	C	o
40102A			.009	.128	.992	0.5	7.4	2.76	4.80	2	C	o
40103	2970H	Ptolemaeus T	.000	.130	.992	0.0	7.5	3.98	6.92	3	C	o
40105		Ptolemaeus YA	.003	.155	.988	0.2	8.9	1.45	2.52	1	C	o
40106		Ptolemaeus YB	.001	.161	.987	0.1	9.3	1.27	2.21	1	C	o
40108	2970I	Ptolemaeus U	.002	.181	.983	0.1	10.4	2.13	3.70	3	C	o
40108A		Ptolemaeus V	.008	.183	.983	0.5	10.5	3.01	5.23	2	C	o
40109	2970K	Ptolemaeus X	.006	.191	.982	0.4	11.0	4.04	7.02	2	C	o
40110	3642	Gyldén C	.018	.103	.995	1.0	5.9	3.69	6.41	1	C	o
40110A			.010	.107	.994	0.6	6.1	4.19	7.28	4	C	o
40111			.011	.110	.994	0.6	6.3	2.04	3.55	1	C	o
40111A			.018	.110	.994	1.0	6.3	7.78 14.56	13.52 25.31	4	C	o
40113			.010	.135	.991	0.6	7.8	2.07	3.60	1	C	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40113A			+.012	-.138	+.990	+0.7	-7.9	7.21 5.08	12.53 8.83	3f	C	p?
40113B			.019	.133	.991	1.1	7.6	2.75	4.78	2	C	O
40113C			.016	.131	.991	0.9	7.5	3.49	6.07	2	C	O
40113D			.016	.133	.991	0.9	7.6	2.43	4.22	2	C	O
40113E			.016	.135	.991	0.9	7.8	2.05	3.56	2	C	O
40116	2970L	Ptolemaeus Y	.012	.162	.987	0.7	9.3	3.51	6.10	1	C	O
40116A			.015	.168	.986	0.9	9.7	4.75	8.26	3	C	O
40118			.018	.186	.982	1.0	10.7	11.95	20.77	5	C	O
40122			.022	.128	.992	1.3	7.4	2.51	4.36	3	C	O
40122A			.021	.120	.993	1.2	6.9	6.25	10.86	4f	C	O
40123	(3583)		.021	.134	.991	1.2	7.7	2.22	3.86	3	C	O
40123A			.023	.135	.991	1.3	7.8	3.08	5.35	2	C	O
40123B	(3583)	Müller F	.026	.137	.990	1.5	7.9	3.71	6.45	2	C	O
40123C			.022	.130	.991	1.3	7.5	2.32	4.03	3	C	O
40123D			.028	.132	.991	1.6	7.6	2.70	4.69	1	C	O
40125		Ptolemaeus W	.024	.159	.987	1.4	9.1	2.43	4.22	3	C	O
40125A			.027	.158	.987	1.6	9.1	2.31	4.02	3	C	O
40125B			.028	.156	.987	1.6	9.0	6.74	11.72	4	C	O
40125C			.027	.153	.988	1.6	8.8	4.68	8.13	4	C	O
40129			.027	.199	.980	1.6	11.5	19.65	34.15	5	C	p?
40132	3612	Hipparchus K	.038	.121	.992	2.2	6.9	6.70	11.65	1	C	O
40132A	3612A	Hipparchus B	.030	.122	.992	1.7	7.0	2.97	5.16	1	C	O
40133	3618	Müller	.036	.133	.990	2.1	7.6	13.70 11.50	23.81 19.99	3	C	p?
40134	3618A	Müller A	.037	.142	.989	2.1	8.2	5.67	9.86	1	C	O
40134A			.030	.140	.990	1.7	8.0	2.13	3.70	2	C	O
40135			.032	.156	.987	1.9	9.0	3.41 6.25	5.93 10.86	3	C	O
40135A			.032	.150	.988	1.9	8.6	7.38	12.83	4f	C	O
40136	3584	Albategnius G	.033	.164	.986	1.9	9.4	8.32	14.46	1	C	O
40137	3583A	Albategnius K	.035	.172	.984	2.0	9.9	5.58	9.70	3	C	O
40139			.036	.196	.980	2.1	11.3	2.05	3.56	2	C	O
40140			.045	.107	.993	2.6	6.1	10.23 7.04	17.78 12.24	5	C	O
40140A			.040	.100	.994	2.3	5.7	2.95	5.13	3	C	O
40140B			.042	.101	.994	2.4	5.8	2.26	3.93	2	C	O
40142			.043	.121	.992	2.5	6.9	2.97	5.16	2	C	O
40143	3618B	Müller O	.042	.137	.990	2.4	7.9	6.04	10.50	2	C	O
40144			.048	.142	.989	2.8	8.2	2.85	4.95	4	C	O
40144A			.044	.141	.989	2.5	8.1	3.89	6.76	3	C	O
40145			.049	.159	.986	2.8	9.1	4.37 2.65	7.60 4.61	3	C	O
40145A			.046	.155	.987	2.7	8.9	2.52	4.38	3	C	O
40145B			.046	.153	.987	2.7	8.8	2.72	4.73	3	C	O
40147		Albategnius KA	.049	.178	.983	2.9	10.3	3.96	6.88	2	C	O
40149			.046	.193	.980	2.7	11.1	2.57	4.47	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40149A			+.045	-.194	+.980	+2.6	-11.2	2.08	3.62	2	c	o
40150			.055	.100	.993	3.2	5.7	8.00	13.91	5f	c	o
40150A			.053	.106	.993	3.1	6.1	3.62	6.29	4f	c	o
40150B			.050	.104	.993	2.9	6.0	4.22	7.33	4f	c	o
40151			.053	.113	.992	3.1	6.5	10.88	18.91	5	c	o
40152			.050	.120	.992	2.9	6.9	7.88	13.70	5	c	o
40153	3611	Hipparchus J	.056	.132	.990	3.2	7.6	8.05	13.99	1	c	o
40153A			.058	.137	.989	3.4	7.9	2.80	4.87	2	c	o
40154	3611A	Hipparchus Q	.050	.148	.988	2.9	8.5	4.67	8.12	2	c	o
40154A			.052	.145	.988	3.0	8.3	2.86	4.97	2	c	o
40154B			.055	.143	.988	3.2	8.2	3.17	5.51	3	c	o
40154C			.057	.140	.989	3.3	8.0	4.09	7.11	3	c	o
40154D			.058	.144	.988	3.4	8.3	3.30	5.74	3	c	o
40155	3577A	Albategnius A	.056	.156	.986	3.3	9.0	4.16	7.23	4	c	o
40155A			.059	.150	.987	3.4	8.6	3.20	5.56	4	c	o
40155B			.054	.159	.986	3.1	9.1	3.95	6.87	3	c	o
40155C			.059	.153	.986	3.4	8.8	2.60	4.52	2	c	o
40155D			.057	.152	.987	3.3	8.7	2.07	3.60	3	c	o
40155E			.051	.152	.987	3.0	8.7	2.41	4.19	3	c	o
40155F			.050	.154	.987	2.9	8.9	2.15	3.74	3	c	o
40156			.053	.162	.985	3.1	9.3	4.20	7.30	2	c	o
40156A			.052	.165	.985	3.0	9.5	4.20	7.30	3	c	o
40157			.050	.171	.984	2.9	9.8	3.20	5.56	3	c	o
40159	3578A	Klein A	.051	.197	.979	3.0	11.4	5.11	8.88	2	c	o
40160			.063	.109	.992	3.6	6.3	4.98	8.66	4f	c	o
40161	3611C	Hipparchus U	.062	.118	.991	3.6	6.8	4.50	7.82	2	c	o
40161A			.067	.114	.991	3.9	6.5	2.08	3.62	2	c	o
40161B			.065	.111	.992	3.8	6.4	3.25 1.99	5.65 3.46	3	c	o
40162	3611B	Hipparchus T	.062	.124	.990	3.6	7.1	4.62	8.03	2	c	o
40162A			.064	.126	.990	3.7	7.2	2.54	4.41	2	c	o
40162B			.068	.128	.989	3.9	7.4	6.41	11.14	5f	c	o
40164			.061	.143	.988	3.5	8.2	2.25	3.91	2	c	o
40164A			.062	.140	.988	3.6	8.0	4.70 2.65	8.17 4.61	3	c	o
40165		Albategnius MA	.064	.156	.986	3.7	9.0	2.70	4.69	2	c	o
40165A			.067	.159	.985	3.9	9.1	4.10 6.19	7.13 10.76	3	c	o
40166		Albategnius MB	.064	.160	.985	3.7	9.2	3.00	5.21	1	c	o
40166A			.067	.163	.984	3.9	9.4	2.42	4.21	3	c	o
40166B			.069	.164	.984	4.0	9.4	5.44	9.46	3	c	o
40166C			.065	.162	.985	3.8	9.3	3.20	5.56	4	c	o
40167	3579	Albategnius B	.069	.174	.982	4.0	10.0	12.16 9.69	21.14 16.84	2f	c	o
40167A	3579A	Albategnius C	.064	.179	.982	3.7	10.3	3.64	6.33	1	c	o
40170			.070	.109	.992	4.0	6.3	3.64	6.33	4f	c	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40171			+.077	-.115	+.990	+4.4	-6.6	3.41	5.93	4f	C	O
40171A			.075	.112	.991	4.3	6.4	6.82 4.77	11.85 8.29	4f	C	O
40172		Hipparchus JA	.075	.127	.989	4.3	7.3	5.40	9.39	3f	C	O
40174	3596A	Halley B	.078	.147	.986	4.5	8.5	3.15	5.48	1	C	O
40174A			.071	.147	.987	4.1	8.5	2.91	5.06	4	C	O
40174B			.073	.145	.987	4.2	8.3	2.33	4.05	3	C	O
40175	3579B	Albategnius M	.072	.155	.985	4.2	8.9	4.92	8.55	1	C	O
40175A			.070	.150	.986	4.1	8.6	2.13	3.70	2	C	O
40176		Albategnius NB	.076	.168	.983	4.4	9.7	4.00	6.95	2	C	O
40176A			.072	.164	.984	4.2	9.4	11.48	19.95	5	C	O
40176B			.079	.160	.984	4.6	9.2	3.74	6.50	3	C	O
40176C			.073	.163	.984	4.2	9.4	2.46	4.28	2	C	O
40176D			.071	.161	.984	4.1	9.3	2.30	4.00	4	C	O
40176E			.073	.160	.984	4.2	9.2	2.84	4.94	3	C	O
40177	3579C	Albategnius N	.078	.172	.982	4.5	9.9	5.24	9.11	1	C	O
40177A			.071	.174	.982	4.1	10.0	2.16	3.75	1	C	O
40179	3577	Albategnius	.070	.195	.978	4.1	11.2	78.05	135.66	3	C	P
40180	3621	Hipparchus X	.086	.101	.991	5.0	5.8	9.98	17.35	4f	C	O
40181			.082	.117	.990	4.7	6.7	5.50	9.56	4	C	O
40181A			.081	.113	.990	4.7	6.5	6.83	11.87	5	C	O
40181B			.080	.110	.991	4.6	6.3	4.75	8.26	5	C	O
40182			.085	.121	.989	4.9	6.9	7.57	13.16	4	C	O
40183			.082	.133	.988	4.7	7.6	11.96	20.79	5	C	O
40184			.084	.146	.986	4.9	8.4	5.60	9.73	3	C	O
40185			.080	.153	.985	4.6	8.8	5.85	10.17	3	C	O
40186	3585	Albategnius H	.089	.168	.982	5.2	9.7	6.06	10.53	2	C	O
40186A		Albategnius HA	.084	.161	.983	4.9	9.3	3.49	6.07	2	C	O
40186B			.081	.162	.983	4.7	9.3	3.72	6.47	3	C	O
40187			.086	.171	.982	5.0	9.8	3.72	6.47	3	C	O
40192			.097	.120	.988	5.6	6.9	5.95	10.34	4	C	pp
40194			.096	.144	.985	5.6	8.3	2.00	3.48	1	C	O
40195	3596	Halley A	.090	.152	.984	5.2	8.7	11.88 8.29	20.65 14.41	4	C	O
40195A		Halley G	.096	.159	.983	5.6	9.1	2.80	4.87	2	C	O
40196			.097	.163	.982	5.6	9.4	6.09	10.59	4	C	O
40196A			.097	.168	.981	5.6	9.7	2.65	4.61	2	C	O
40196B			.096	.169	.981	5.6	9.7	3.32	5.77	4	C	O
40203	3576A	Parrot N	.008	.238	.971	0.5	13.8	2.84	4.94	2	C	O
40206			.004	.264	.965	0.2	15.3	2.40	4.17	3	C	O
40207			.009	.271	.963	0.5	15.7	2.02 3.44	3.51 5.98	3	C	O
40208			.003	.288	.958	0.2	16.7	3.52	6.12	4	C	O
40211			.010	.219	.976	0.6	12.7	13.09	22.75	5	C	O
40212		Parrot V	.014	.229	.973	0.8	13.2	14.89	25.88	4f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40213			+.019	-.238	+.971	+1.1	-13.8	2.02	3.51	2	C	O
40214		Parrot Y	.012	.240	.971	0.7	13.9	5.84	10.15	4f	C	O
40215			.017	.255	.967	1.0	14.8	7.15	12.43	5	C	O
40216	3576B	Parrot Q	.018	.261	.965	1.1	15.1	2.93	5.09	1	C	O
40216A			.018	.263	.965	1.1	15.2	2.81 4.36	4.88 7.58	4	C	O
40217		Parrot FA	.013	.278	.960	0.8	16.1	2.07	3.60	1	C	O
40217A			.017	.278	.960	1.0	16.1	23.30	40.50	5	C	R?
40219		Parrot HA	.018	.294	.956	1.1	17.1	1.83	3.18	1	C	O
40219A		Parrot HC	.016	.293	.956	1.0	17.0	5.49	9.54	3f	C	O
40221			.020	.214	.977	1.2	12.4	3.78	6.57	5	C	O
40221A			.021	.211	.977	1.2	12.2	9.60 14.56	16.69 25.31	5	C	O
40221B			.021	.218	.976	1.2	12.6	5.14	8.93	4f	C	O
40221C			.022	.216	.976	1.3	12.5	4.56	7.93	4f	C	O
40221D			.029	.214	.976	1.7	12.4	5.87 4.56	10.20 7.93	4	C	O
40222	3576C	Parrot W	.025	.228	.973	1.5	13.2	2.85	4.95	1	C	O
40222A			.024	.221	.975	1.4	12.8	3.25	5.65	4	C	O
40222B			.028	.229	.973	1.6	13.2	5.73	9.96	3	C	O
40225			.027	.257	.966	1.6	14.9	2.85	4.95	3	C	p?
40227	3572	Parrot F	.024	.277	.961	1.4	16.1	10.20	17.73	3f	C	O
40228		Parrot FD	.023	.285	.958	1.4	16.6	2.61	4.54	3	C	O
40230			.038	.206	.978	2.2	11.9	2.13	3.70	2	C	O
40231	3578B	Klein B	.031	.216	.976	1.8	12.5	3.25	5.65	1	C	O
40231A			.032	.214	.976	1.9	12.4	2.45	4.26	2	C	O
40231B			.035	.210	.977	2.1	12.1	2.24	3.89	1	C	O
40231C			.035	.217	.976	2.1	12.5	3.12	5.42	2	C	O
40231D			.037	.213	.976	2.2	12.3	2.45	4.26	2	C	O
40232			.036	.222	.974	2.1	12.8	2.43	4.22	3	C	O
40233			.030	.233	.972	1.8	13.5	2.28	3.96	2	C	O
40233A		Parrot KA	.035	.233	.972	2.1	13.5	6.60 8.36	11.47 14.53	3f	C	O
40233B			.035	.236	.971	2.1	13.7	2.72	4.73	2	C	O
40234	3576	Parrot K	.030	.243	.970	1.8	14.1	25.23	43.85	4	C	?
40235	3576D	Parrot X	.032	.250	.968	1.9	14.5	2.50	4.35	1	C	O
40235A		Parrot XA	.032	.250	.968	1.9	14.5	9.46	16.44	4f	C	?
40236	3567	Parrot A	.035	.264	.964	2.1	15.3	11.94	20.75	2f	C	O
40237	3571	Parrot E	.038	.275	.961	2.3	16.0	11.47	19.94	3	C	p
40237A		Parrot FB	.030	.270	.962	1.8	15.7	5.57	9.68	3f	C	O
40237B		Parrot FC	.031	.278	.960	1.8	16.1	2.89	5.02	2	C	O
40238			.033	.285	.958	2.0	16.6	2.05	3.56	2	C	O
40238A			.034	.287	.957	2.0	16.7	2.12	3.68	2	C	O
40238B			.037	.280	.959	2.2	16.3	2.21	3.84	2	C	O
40239	3575	Parrot J	.030	.292	.956	1.8	17.0	13.33	23.17	3	C	p?
40239A		Parrot JB	.034	.297	.954	2.0	17.3	3.02	5.25	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40239B			+.035	-.292	+.956	+2.1	-17.0	2.93	5.09	2	C	O
40239C			.035	.295	.955	2.1	17.2	2.44	4.24	2	C	O
40240	3578	Klein	.044	.207	.977	2.6	11.9	25.48	44.29	3	C	P
40241	3578C	Klein C	.044	.217	.975	2.6	12.5	3.51	6.10	1	C	O
40242			.040	.225	.974	2.4	13.0	3.05	5.30	2	C	O
40242A			.040	.227	.973	2.4	13.1	2.15	3.74	1	C	O
40242B			.048	.222	.974	2.8	12.8	2.70	4.69	3	C	O
40242C			.045	.221	.974	2.6	12.8	5.92	10.29	3	C	O
40243	3568	Parrot B	.042	.236	.971	2.5	13.7	5.57	9.68	3	C	O
40244		Parrot BA	.041	.240	.970	2.4	13.9	3.66	6.36	2	C	O
40244A		Parrot BB	.042	.242	.969	2.5	14.0	3.88	6.74	3	C	O
40246			.043	.269	.962	2.6	15.6	3.92	6.81	4	C	O
40246A			.046	.267	.963	2.7	15.5	3.99	6.94	4	C	O
40247			.040	.270	.962	2.4	15.7	2.81	4.88	2	C	O
40247A			.044	.273	.961	2.6	15.8	5.89	10.24	4	C	?
40247B			.049	.270	.962	2.9	15.7	4.30	7.47	4	C	O
40247C			.049	.279	.959	2.9	16.2	2.04	3.55	2	C	O
40248			.041	.280	.959	2.4	16.3	2.54	4.41	2	C	O
40248A			.041	.282	.959	2.4	16.4	2.07	3.60	2	C	O
40248B			.043	.285	.958	2.6	16.6	2.30	4.00	2	C	O
40249	3575A	Parrot O	.043	.292	.955	2.6	17.0	5.85	10.17	1	C	O
40249A		Parrot G	.043	.299	.953	2.6	17.4	16.24	28.23	3f	C	O
40253	3563A	Parrot R	.054	.234	.971	3.2	13.5	5.80	10.08	1	C	O
40254			.053	.240	.969	3.1	13.9	10.24	17.80	4	C	O
40255	3563	Parrot	.057	.252	.966	3.4	14.6	39.03	67.84	4	C	O
40257			.054	.279	.959	3.2	16.2	9.89	17.19	4	C	O
40258			.054	.289	.956	3.2	16.8	9.43	16.39	3	C	O
40259			.053	.296	.954	3.2	17.2	3.13	5.44	3	C	O
40259A			.057	.294	.954	3.4	17.1	2.49	4.33	1	C	O
40263			.061	.239	.969	3.6	13.8	3.52	6.12	3	C	O
40264		Parrot D	.061	.245	.968	3.6	14.2	11.95	20.77	3	C	pp
40266			.068	.268	.961	4.0	15.5	4.81	8.36	3	C	O
40267	3563B	Parrot S	.060	.274	.960	3.6	15.9	5.50	9.56	2	C	O
40267A	3563C	Parrot T	.070	.274	.959	4.2	15.9	4.38	7.61	1	C	O
40267B			.060	.277	.959	3.6	16.1	2.13	3.70	3	C	O
40268			.060	.282	.958	3.6	16.4	5.36	9.32	3	C	O
40268A			.060	.285	.957	3.6	16.6	2.07	3.60	2	C	O
40270			.079	.205	.976	4.6	11.8	2.23	3.88	4	C	O
40272	3577B	Albategnius O	.072	.229	.971	4.2	13.2	3.10	5.39	1	C	O
40272A	3577C	Albategnius P	.076	.224	.972	4.5	12.9	2.98	5.18	1	C	O
40273			.076	.235	.969	4.5	13.6	3.10 5.34	5.39 9.28	3	C	O
40273A			.078	.238	.968	4.6	13.8	4.85	8.43	3	C	O
40274	3563D	Parrot U	.076	.243	.967	4.5	14.1	4.97	8.64	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40274A			+.070	-.240	+.968	+4.1	-13.9	2.25	3.91	3	C	O
40276			.075	.262	.962	4.5	15.2	2.81	4.88	3	C	O
40276A			.078	.262	.962	4.6	15.2	2.95	5.13	4	C	O
40278		Argelander W	.070	.288	.955	4.2	16.7	10.78	18.74	3	C	O
40279			.071	.293	.953	4.3	17.0	4.23	7.35	4	C	O
40280			.081	.200	.976	4.7	11.5	2.91	5.06	4	C	O
40281			.080	.214	.974	4.7	12.4	3.88	6.74	4	C	O
40281A			.084	.219	.972	4.9	12.7	2.26 2.39	3.93 4.15	2	C	O
40282		Albategnius PA	.084	.222	.971	4.9	12.8	2.33	4.05	2	C	O
40282A			.085	.228	.970	5.0	13.2	2.07	3.60	2	C	O
40284			.083	.242	.967	4.9	14.0	2.61	4.54	2	C	O
40284A			.083	.249	.965	4.9	14.4	3.20	5.56	5	C	O
40286	3559B	Argelander B	.086	.268	.960	5.1	15.5	3.54	6.15	2	C	O
40286A		Argelander BA	.083	.264	.961	4.9	15.3	2.88	5.01	1	C	O
40286B			.080	.267	.960	4.8	15.5	2.60	4.52	2	C	O
40286C			.086	.266	.960	5.1	15.4	2.80	4.87	3	C	O
40287			.082	.275	.958	4.9	16.0	3.75	6.52	3	C	O
40288			.082	.281	.956	4.9	16.3	9.00	15.64	3f	C	O
40289			.088	.293	.952	5.3	17.0	10.34	17.97	4	C	O
40291	3582A	Albategnius R	.096	.212	.973	5.6	12.2	6.60	11.47	3	C	O
40294	3560A	Vogel A	.095	.243	.965	5.6	14.1	5.58	9.70	2	C	O
40294A		Vogel C	.090	.243	.966	5.3	14.1	5.50	9.56	3	C	O
40294B		Vogel B	.096	.248	.964	5.7	14.4	12.38	21.52	2	C	P
40296	3560	Vogel	.099	.260	.961	5.9	15.1	15.47	26.89	2	C	p
40297	3559C	Argelander C	.096	.280	.955	5.7	16.3	2.30	4.00	1	C	O
40298	3559	Argelander	.097	.285	.954	5.8	16.6	19.62	34.10	3	C	P
40299			.094	.299	.950	5.7	17.4	3.28	5.70	2	C	O
40301			.008	.319	.948	0.5	18.6	3.44 2.25	5.98 3.91	3	C	O
40302			.005	.321	.947	0.3	18.7	3.03	5.27	4	C	O
40302A			.004	.324	.946	0.2	18.9	3.13	5.44	4	C	O
40302B			.006	.326	.945	0.4	19.0	3.70	6.43	4	C	O
40303			.002	.330	.944	0.1	19.3	7.42 5.82	12.90 10.12	5	C	O
40304		Arzachel L	.002	.342	.940	0.1	20.0	3.73 6.41	6.48 11.14	3	C	O
40304A			.007	.346	.938	0.4	20.2	16.43 12.17	28.56 21.15	5	C	O
40305		La Caille K	.009	.358	.934	0.6	21.0	17.22	29.93	4	C	O
40307		La Caille AC	.006	.378	.926	0.4	22.2	2.04	3.55	1	C	O
40307A			.003	.376	.927	0.2	22.1	2.10	3.65	2	C	O
40308	3533A	La Caille A	.007	.388	.922	0.4	22.8	4.72	8.20	1	C	O
40308A		La Caille AB	.000	.383	.924	0.0	22.5	12.14 15.98	21.10 27.78	3f	C	O
40309			.001	.396	.918	0.1	23.3	2.62	4.55	2	C	O
40310	3569A	Parrot L	.016	.310	.951	1.0	18.1	3.98	6.92	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40315			+.019	-.357	+.934	+1.2	-20.9	3.68 5.24	6.40 9.11	3	C	O
40316			.016	.365	.931	1.0	21.4	2.14	3.72	1	C	O
40316A			.019	.366	.930	1.2	21.5	2.92	5.08	2	C	O
40317			.012	.376	.927	0.7	22.1	9.49	16.50	5	C	O
40318		La Caille J	.014	.383	.924	0.9	22.5	2.88	5.01	1	C	O
40318A			.017	.382	.924	1.1	22.5	3.55	6.17	3	C	O
40318B			.016	.380	.925	1.0	22.3	2.33	4.05	2	C	O
40318C			.013	.387	.922	0.8	22.8	4.00	6.95	4f	C	O
40318D			.014	.385	.923	0.9	22.6	2.24	3.89	3	C	O
40319			.010	.393	.919	0.6	23.1	3.56	6.19	4	C	O
40319A			.011	.398	.917	0.7	23.5	2.01	3.49	2	C	O
40320	3574	Parrot H	.020	.303	.953	1.2	17.6	10.29 11.06	17.89 19.22	3f	C	O
40321	3569	Parrot C	.020	.318	.948	1.2	18.5	17.94	31.18	2	C	P
40322			.029	.324	.946	1.8	18.9	2.77	4.81	4	C	O
40324		La Caille GA	.028	.344	.939	1.7	20.1	13.75	23.90	3	C	O
40324A			.024	.344	.939	1.5	20.1	4.19	7.28	3	C	O
40325	3535A	La Caille B	.023	.357	.934	1.4	20.9	3.83	6.66	2	C	O
40326	3534	La Caille C	.022	.362	.932	1.4	21.2	8.73	15.17	2	C	O
40327		La Caille N	.021	.374	.927	1.3	22.0	6.00	10.43	4	C	O
40328			.022	.387	.922	1.4	22.8	2.56	4.45	2	C	O
40328A		La Caille M	.026	.380	.925	1.6	22.3	6.88 10.31	11.96 17.92	3	C	O
40328B			.029	.388	.921	1.8	22.8	2.13	3.70	2	C	O
40330	3569B	Parrot M	.033	.309	.950	2.0	18.0	3.83	6.66	2	C	O
40330A			.035	.300	.953	2.1	17.5	2.21	3.84	2	C	O
40330B			.037	.303	.952	2.2	17.6	2.02	3.51	3	C	O
40331			.035	.315	.948	2.1	18.4	2.30	4.00	2	C	O
40331A			.030	.313	.949	1.8	18.2	2.95	5.13	1	C	O
40331B			.032	.316	.948	1.9	18.4	2.84	4.94	4	C	O
40332			.032	.325	.945	1.9	19.0	2.68	4.66	3	C	O
40332A			.030	.328	.944	1.8	19.1	2.58	4.48	3	C	O
40333			.032	.336	.941	1.9	19.6	2.49	4.33	2	C	O
40334	3537	La Caille G	.032	.350	.936	2.0	20.5	6.17	10.72	3	C	O
40334A		La Caille GC	.031	.340	.940	1.9	19.9	3.76	6.54	3	C	O
40334B		La Caille GB	.033	.345	.938	2.0	20.2	2.27	3.95	4	C	O
40335			.034	.355	.934	2.1	20.8	3.25	5.65	3	C	O
40335A			.030	.354	.935	1.8	20.7	3.05	5.30	3	C	O
40337	3541A	Delauney A	.033	.374	.927	2.0	22.0	3.32	5.77	1	C	O
40337A			.039	.375	.926	2.4	22.0	16.59 10.75	28.84 18.69	3	C	O
40337B			.031	.372	.928	1.9	21.8	2.12	3.68	2	C	O
40337C			.030	.375	.927	1.9	22.0	2.01	3.49	2	C	O
40337D			.034	.372	.928	2.1	21.8	2.25	3.91	2	C	O
40338			.034	.385	.922	2.1	22.6	5.13	8.92	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40341			+.047	-.315	+.948	+2.8	-18.4	12.61	21.92	5f	C	O
40341A			.041	.311	.950	2.5	18.1	9.88 13.50	17.17 23.47	4f	C	O
40342	3569C	Parrot P	.049	.321	.946	3.0	18.7	3.71	6.45	2	C	O
40342A			.049	.323	.945	3.0	18.8	44.35	77.09	4f	C	O
40342B			.045	.323	.945	2.7	18.8	2.87	4.99	2	C	O
40344			.046	.341	.939	2.8	19.9	2.64	4.59	3	C	O
40345			.042	.351	.935	2.6	20.5	3.01	5.23	2	C	O
40345A			.042	.353	.935	2.6	20.7	2.11	3.67	3	C	O
40346			.045	.361	.931	2.8	21.2	7.97	13.85	4	C	O
40346A			.043	.364	.930	2.6	21.3	2.04 4.03	3.55 7.00	3	C	O
40346B			.048	.363	.931	3.0	21.3	2.07	3.60	1	C	O
40347			.049	.376	.925	3.0	22.1	8.35 11.10	14.51 19.29	4	C	O
40348	3541	Delaunay	.041	.380	.924	2.5	22.3	28.53	49.59	3	C	?
40348A			.041	.386	.922	2.5	22.7	4.79	8.33	3	C	O
40348B			.041	.389	.920	2.6	22.9	4.65	8.08	3	C	O
40348C			.046	.386	.921	2.9	22.7	4.11	7.14	3	C	O
40349	3536	La Caille E	.044	.398	.916	2.7	23.5	15.67	27.24	3	C	P
40350			.055	.301	.952	3.3	17.5	2.17	3.77	2	C	O
40350A			.059	.306	.950	3.6	17.8	2.27	3.95	1	C	O
40350B			.059	.308	.950	3.6	17.9	2.20	3.82	1	C	O
40351			.058	.310	.949	3.5	18.1	2.19	3.81	2	C	O
40352			.057	.329	.943	3.5	19.2	3.84	6.67	4	C	O
40353			.050	.331	.942	3.0	19.3	14.92	25.93	5f	C	O
40354	3547C	Donati C	.056	.341	.938	3.4	19.9	4.34	7.54	2	C	O
40355			.055	.351	.935	3.4	20.5	3.47	6.03	4	C	O
40355A			.058	.350	.935	3.5	20.5	4.08	7.09	4	C	O
40355B			.057	.353	.934	3.5	20.7	2.13	3.70	1	C	O
40356	3545A	Faye A	.052	.361	.931	3.2	21.2	2.21	3.84	1	C	O
40359			.056	.396	.917	3.5	23.3	5.79	10.06	4	C	O
40360			.066	.305	.950	4.0	17.8	2.52	4.38	2	C	O
40361			.069	.317	.946	4.2	18.5	4.37	7.60	4	C	O
40361A			.069	.313	.947	4.2	18.2	6.27	10.90	4	C	O
40364			.062	.347	.936	3.8	20.3	4.01	6.97	4	C	O
40365			.063	.359	.931	3.9	21.0	2.18	3.79	2	C	O
40365A			.067	.354	.933	4.1	20.7	2.17	3.77	3	C	O
40366	3545	Faye	.062	.365	.929	3.8	21.4	21.11	36.69	3	C	P
40367			.062	.379	.923	3.8	22.3	7.83 11.17	13.61 19.42	4f	C	O
40369			.063	.390	.919	3.9	23.0	16.36 24.90	28.44 43.28	4	C	O
40370	3570	Argelander D	.074	.303	.950	4.5	17.6	6.58	11.44	1	C	O
40370A			.070	.306	.949	4.2	17.8	2.05	3.56	1	C	O
40371			.077	.312	.947	4.6	18.2	10.55	18.34	5	C	O
40372			.073	.323	.944	4.4	18.8	2.33	4.05	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40373	3547A	Donati A	+.074	-.337	+.939	+4.5	-19.7	4.92	8.55	1	C	O
40373A	3552	Airy C	.079	.330	.941	4.8	19.3	17.34	30.14	4f	C	O
40374			.071	.343	.937	4.3	20.1	2.57 3.74	4.47 6.50	3	C	O
40375			.072	.350	.934	4.4	20.5	4.39	7.63	3	C	O
40376			.076	.367	.927	4.7	21.5	5.89	10.24	3	C	O
40377			.075	.374	.924	4.6	22.0	7.76	13.49	4	C	O
40378	3545B	Faye B	.073	.385	.920	4.5	22.6	2.52	4.38	1	C	O
40378A			.072	.381	.922	4.5	22.4	8.72	15.16	5	C	O
40380			.089	.300	.950	5.4	17.5	3.76	6.54	3	C	O
40380A			.083	.306	.948	5.0	17.8	2.91	5.06	3	C	O
40381			.081	.315	.946	4.9	18.4	2.43	4.22	2	C	O
40382			.083	.321	.943	5.0	18.7	3.87	6.73	3	C	O
40382A			.085	.325	.942	5.2	19.0	5.80	10.08	3	C	O
40383			.081	.336	.938	4.9	19.6	11.74	20.41	5f	C	O
40384			.081	.340	.937	4.9	19.9	3.87	6.73	4	C	O
40384A			.088	.343	.935	5.4	20.1	2.68	4.66	1	C	O
40385A	3547	Donati	.084	.353	.932	5.2	20.7	20.73	36.03	3	C	P
40386			.083	.368	.926	5.1	21.6	6.14	10.67	4	C	O
40386A			.086	.366	.927	5.3	21.5	2.12	3.68	3	C	O
40387			.082	.374	.924	5.1	22.0	2.96	5.14	2	C	O
40389			.080	.395	.915	5.0	23.3	7.81	13.57	5	C	O
40389A			.088	.391	.916	5.5	23.0	2.01	3.49	1	C	O
40391	3549	Airy	.094	.311	.946	5.7	18.1	21.25	36.94	3	C	P
40391A			.099	.319	.943	6.0	18.6	2.28	3.96	2	C	O
40392	3552A	Airy H	.094	.321	.942	5.7	18.7	5.85	10.17	2	C	O
40392A			.099	.323	.941	6.0	18.8	2.00	3.48	2	C	O
40393			.095	.334	.938	5.8	19.5	15.01	26.09	4	C	O
40394	3547B	Donati B	.093	.349	.932	5.7	20.4	6.30	10.95	1	C	O
40394A			.091	.345	.934	5.6	20.2	2.23	3.88	2	C	O
40394B			.092	.344	.934	5.6	20.1	4.05	7.04	2	C	O
40395			.090	.353	.931	5.5	20.7	2.57	4.47	2	C	O
40396			.093	.361	.928	5.7	21.2	2.75	4.78	2	C	O
40396A			.096	.360	.928	5.9	21.1	3.14	5.46	3	C	O
40396B			.093	.368	.925	5.7	21.6	2.01	3.49	1	C	O
40397		Donati D	.093	.376	.922	5.8	22.1	2.72	4.73	1	C	O
40397A			.094	.379	.921	5.8	22.3	5.11 2.99	8.88 5.20	4	C	O
40397B			.096	.375	.922	5.9	22.0	2.88	5.01	4	C	O
40397C			.098	.379	.920	6.1	22.3	2.75 3.84	4.78 6.67	3	C	O
40397D			.090	.370	.925	5.6	21.7	2.71	4.71	2	C	O
40397E			.098	.372	.923	6.1	21.8	2.01	3.49	2	C	O
40398			.090	.387	.918	5.6	22.8	2.58 2.85	4.48 4.95	2	C	O
40398A			.096	.383	.919	6.0	22.5	8.36	14.53	4f	C	O
40399			.096	.395	.914	6.0	23.3	2.95	5.13	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40399A			+.094	-.398	+.913	+5.9	-23.5	2.46	4.28	4	C	O
40400			.001	.401	.916	0.1	23.6	2.05	3.56	2	C	O
40401	3089	Purbach F	.000	.416	.909	0.0	24.6	5.23	9.09	1	C	O
40401A			.008	.415	.910	0.5	24.5	6.07	10.55	4	C	O
40401B			.009	.418	.908	0.6	24.7	2.87	4.99	2	C	O
40405			.004	.454	.891	0.3	27.0	2.49	4.33	2	C	O
40405A			.009	.453	.891	0.6	26.9	5.71	9.92	4	C	O
40408		Regiomontanus N	.002	.483	.876	0.1	28.9	1.96	3.41	1	C	O
40409			.007	.496	.868	0.5	29.7	3.56 2.63	6.19 4.57	3	C	O
40409A			.005	.498	.867	0.3	29.9	2.19	3.81	2	C	O
40410	3533	La Caille	.017	.403	.915	1.1	23.8	38.95	67.70	3f	C	O
40411	3538	La Caille H	.013	.419	.908	0.8	24.8	3.23	5.61	1	C	O
40412			.015	.423	.906	0.9	25.0	6.21	10.79	4	C	O
40413	3484A	Werner F	.013	.435	.900	0.8	25.8	5.85	10.17	2	C	O
40413A			.012	.432	.902	0.8	25.6	5.88	10.22	4	C	O
40414	3484	Werner B	.011	.441	.897	0.7	26.2	7.90	13.73	2	C	O
40414A			.016	.442	.897	1.0	26.2	3.33	5.79	3	C	O
40415	3483	Werner A	.017	.458	.889	1.1	27.3	8.75	15.21	2	C	O
40415A	3483A	Werner E	.012	.460	.888	0.8	27.4	3.95	6.87	2	C	O
40416	3483B	Werner G	.020	.463	.886	1.3	27.6	5.07 2.99	8.81 5.20	3	C	O
40418			.019	.485	.874	1.2	29.0	4.21	7.32	3	C	O
40419	3104B	Regiomontanus L	.016	.495	.869	1.1	29.7	3.25	5.65	2	C	O
40419A			.012	.497	.868	0.8	29.8	3.08	5.35	2	C	O
40419B			.010	.496	.868	0.7	29.7	2.02	3.51	2	C	O
40421			.029	.415	.909	1.8	24.5	6.73 4.60	11.70 8.00	3	C	O
40421B			.026	.419	.908	1.6	24.8	2.91	5.06	2	C	O
40422	3531A	Blanchinus B	.025	.426	.904	1.6	25.2	4.75	8.26	1	C	O
40422A		Blanchinus BA	.021	.424	.905	1.3	25.1	2.97	5.16	2	C	O
40422B			.028	.421	.907	1.8	24.9	2.30	4.00	3	C	O
40423			.029	.434	.900	1.8	25.7	4.89	8.50	4	C	?
40423A			.023	.430	.903	1.5	25.5	2.19	3.81	2	C	O
40423B			.029	.438	.899	1.8	26.0	5.67	9.86	4	C	O
40423C			.025	.432	.902	1.6	25.6	4.52	7.86	2	C	O
40423D			.025	.435	.900	1.6	25.8	2.19	3.81	2	C	O
40424		Werner H	.024	.449	.893	1.5	26.7	9.42	16.37	3	C	p?
40425			.026	.455	.890	1.7	27.1	6.12	10.64	3	C	O
40428			.020	.482	.876	1.3	28.8	4.76	8.27	3	C	O
40430	3535	La Caille D	.035	.401	.915	2.2	23.6	6.81	11.84	1	C	O
40431			.035	.414	.910	2.2	24.5	3.11	5.41	2	C	O
40432			.035	.423	.905	2.2	25.0	3.06	5.32	4	C	O
40432A	3531	Blanchinus	.039	.429	.902	2.5	25.4	33.15 39.36	57.62 68.41	3	C	O
40440			.048	.408	.912	3.0	24.1	5.51	9.58	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40442	(3531)	Blanchinus M	+.041	-.425	+.904	+2.6	-25.2	2.85	4.95	1	C	O
40442A			.042	.429	.902	2.7	25.4	57.80	100.47	5	C	?
40450	3536A	La Caille F	.054	.400	.915	3.4	23.6	4.28	7.44	2	C	O
40452			.058	.426	.903	3.7	25.2	4.80	8.34	3	C	O
40457	3482	Werner	.051	.470	.881	3.3	28.0	40.39	70.20	1	C	PP
40459			.052	.493	.868	3.4	29.5	4.40 3.43	7.65 5.96	5	C	O
40459A			.050	.498	.866	3.3	29.9	3.33	5.79	4	C	O
40460			.064	.408	.911	4.0	24.1	2.01	3.49	2	C	O
40461			.067	.415	.907	4.2	24.5	6.81	11.84	3	C	O
40462	3532	Blanchinus D	.067	.423	.904	4.2	25.0	4.17	7.25	1	C	O
40464			.069	.443	.894	4.4	26.3	10.13	17.61	5	C	O
40471	3532A	Blanchinus K	.080	.419	.904	5.1	24.8	5.11	8.88	1	C	O
40472			.076	.425	.902	4.8	25.2	4.85	8.43	3	C	O
40473			.071	.436	.897	4.5	25.8	3.42 6.46	5.94 11.23	4	C	O
40474			.073	.440	.895	4.7	26.1	2.12	3.68	3	C	O
40474A			.070	.448	.891	4.5	26.6	8.14	14.15	5	C	O
40476			.074	.464	.883	4.8	27.6	2.35	4.08	2	C	O
40482			.085	.428	.900	5.4	25.3	2.47	4.29	3	C	O
40483			.082	.433	.898	5.2	25.7	2.97 4.48	5.16 7.79	3	C	O
40486			.084	.462	.883	5.4	27.5	18.00	31.29	5	C	p?
40486A			.088	.467	.880	5.7	27.8	36.77 34.55	63.91 60.05	5	C	O
40488			.086	.486	.870	5.6	29.1	2.85	4.95	3	C	O
40492			.096	.428	.899	6.1	25.3	6.43 10.12	11.18 17.59	5f	C	O
40494	3530	Krusenstern	.092	.442	.892	5.9	26.2	27.27	47.40	4	C	O
40495	3530A	Krusenstern A	.091	.453	.887	5.9	26.9	4.01	6.97	2	C	O
40495A			.095	.455	.885	6.1	27.1	2.35	4.08	2	C	O
40495B			.098	.454	.886	6.3	27.0	2.72	4.73	3	C	O
40495C			.096	.458	.884	6.2	27.3	2.46	4.28	2	C	O
40497	3514A	Apianus F	.098	.471	.877	6.4	28.1	3.17	5.51	1	C	O
40499			.095	.491	.866	6.3	29.4	3.43	5.96	2	C	O
40500			.006	.509	.861	0.4	30.6	4.00	6.95	4	C	O
40503			.008	.531	.847	0.5	32.1	2.48	4.31	2	C	O
40505	3466E	Walter Q	.004	.552	.834	0.3	33.5	2.84	4.94	2	C	O
40507	3466D	Walter P	.004	.579	.815	0.3	35.4	4.99	8.67	1	C	O
40508	3466F	Walter R	.005	.585	.811	0.4	35.8	4.57	7.94	3	C	O
40508A			.002	.587	.810	0.1	35.9	4.39	7.63	3	C	O
40508B			.005	.589	.808	0.4	36.1	4.71	8.19	3	C	O
40509	3466G	Walter S	.009	.593	.805	0.6	36.4	6.64	11.54	1	C	O
40509A			.003	.595	.804	0.2	36.5	2.95	5.13	3	C	O
40509B			.001	.599	.801	0.1	36.8	3.87	6.73	3	C	O
40510			.015	.502	.865	1.0	30.1	5.60	9.73	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40513	3467	Walter A	+.012	-.535	+.845	+0.8	-32.3	6.64	11.54	2	C	O
40513A			.012	.531	.847	0.8	32.1	2.91	5.06	3	C	O
40513B			.015	.532	.847	1.0	32.1	2.34	4.07	2	C	O
40514	3466	Walter	.010	.545	.838	0.7	33.0	75.82 80.77	131.79 140.39	3	C	P
40514A		Walter AA	.017	.540	.841	1.2	32.7	6.90	11.99	3	C	O
40517	3462A	Nonius C	.016	.580	.814	1.1	35.5	3.98	6.92	2	C	O
40517A			.011	.575	.818	0.8	35.1	2.67	4.64	3	C	O
40517B			.010	.577	.817	0.7	35.2	2.73	4.75	2	C	O
40522			.029	.521	.853	1.9	31.4	2.89	5.02	3	C	O
40523		Walter FA	.025	.538	.843	1.7	32.5	4.85	8.43	4f	C	O
40523A			.022	.530	.848	1.5	32.0	2.07	3.60	2	C	O
40524			.024	.542	.840	1.6	32.8	7.78	13.52	2	C	p?
40524A			.028	.547	.837	1.9	33.2	2.08	3.62	1	C	O
40524B			.024	.545	.838	1.6	33.0	3.14	5.46	2	C	O
40524C			.027	.545	.838	1.8	33.0	2.80	4.87	2	C	O
40525	3466H	Walter T	.026	.550	.835	1.8	33.4	4.97	8.64	2	C	O
40528	3462B	Nonius D	.025	.581	.814	1.8	35.5	3.42	5.94	2	C	O
40528A	3462	Nonius B	.029	.585	.811	2.0	35.8	11.97	20.81	3	C	O
40529	(3462)	Nonius BA	.029	.594	.804	2.1	36.4	12.46	21.66	3	C	O
40530	3498A	Aliacensis E	.036	.506	.862	2.4	30.4	5.06	8.80	2	C	O
40531			.038	.510	.859	2.5	30.7	2.23	3.88	2	C	O
40532			.034	.523	.852	2.3	31.5	2.64	4.59	2	C	O
40533			.036	.530	.847	2.4	32.0	3.73	6.48	3	C	O
40534	3472	Walter F	.031	.546	.837	2.1	33.1	3.17	5.51	1	C	O
40534A			.033	.542	.840	2.3	32.8	2.36	4.10	2	C	O
40535	3466I	Walter U	.039	.551	.834	2.7	33.4	2.19	3.81	1	C	O
40538			.030	.582	.813	2.1	35.6	6.68	11.61	3	C	O
40539	3462C	Nonius E	.038	.596	.802	2.7	36.6	3.34	5.81	2	C	O
40542	3498	Aliacensis B	.047	.520	.853	3.2	31.3	10.84	18.84	3	C	p
40543	3472A	Walter D	.042	.530	.847	2.8	32.0	10.12	17.59	2	C	O
40543A		Walter DA	.044	.536	.843	3.0	32.4	6.98	12.13	2	C	O
40545			.045	.556	.830	3.1	33.8	8.11	14.10	4	C	O
40545A			.044	.559	.828	3.0	34.0	3.60	6.26	3	C	O
40548			.043	.588	.808	3.0	36.0	2.07	3.60	2	C	O
40548A		Nonius R	.048	.586	.809	3.4	35.9	4.52 5.74	7.86 9.98	2	C	O
40552			.059	.528	.847	4.0	31.9	3.63	6.31	3	C	O
40553	3492A	Aliacensis F	.057	.540	.840	3.9	32.7	2.89	5.02	1	C	O
40553A			.055	.534	.844	3.7	32.3	5.03	8.74	4	C	O
40554			.051	.549	.834	3.5	33.3	5.89	10.24	3	C	O
40555		Nonius K	.058	.554	.830	4.0	33.6	10.49	18.23	2	C	R
40555A		Nonius L	.052	.552	.832	3.6	33.5	17.99	31.27	2	C	?
40556			.050	.567	.822	3.5	34.5	6.16	10.71	3	C	O
40557	3459	Nonius	.054	.570	.820	3.8	34.8	40.11	69.72	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40558	3459A	Nonius F	+.054	-.586	+.809	+3.8	-35.9	4.19	7.28	2	C	O
40558A			.053	.589	.806	3.8	36.1	5.13 4.38	8.92 7.61	3	C	O
40559			.052	.591	.805	3.7	36.2	2.84	4.94	2	C	O
40560		Aliacensis Z	.069	.500	.863	4.6	30.0	2.07	3.60	2	C	O
40562			.066	.520	.852	4.4	31.3	2.09	3.63	2	C	O
40563			.069	.538	.840	4.7	32.5	3.45	6.00	4	C	O
40564	3492B	Aliacensis G	.069	.550	.832	4.7	33.4	4.71	8.19	1	C	O
40564A			.063	.548	.834	4.3	33.2	9.88 14.03	17.17 24.39	4	C	O
40567			.066	.577	.814	4.6	35.2	2.08	3.62	2	C	O
40567A		Nonius S	.061	.570	.819	4.3	34.8	2.51	4.36	2	C	O
40568		Nonius Q	.060	.586	.808	4.2	35.9	3.75	6.52	2	C	O
40568A			.065	.586	.808	4.6	35.9	2.08	3.62	2	C	O
40569			.065	.595	.801	4.6	36.5	4.04	7.02	3	C	O
40571	3492	Aliacensis	.078	.510	.857	5.2	30.7	45.94	79.85	2	C	p
40573			.074	.532	.844	5.0	32.1	3.01	5.23	4	C	O
40573A			.070	.531	.844	4.7	32.1	4.11	7.14	3	C	O
40573B			.076	.531	.844	5.1	32.1	4.13	7.18	2	C	O
40576			.079	.564	.822	5.5	34.3	2.19	3.81	3	C	O
40576A			.076	.564	.822	5.3	34.3	2.45	4.26	3	C	O
40577	3460	Nonius A	.080	.578	.812	5.6	35.3	6.17	10.72	1	C	O
40578			.073	.580	.811	5.1	35.5	4.68	8.13	3	C	O
40579	3464B	Kaiser B	.078	.596	.799	5.6	36.6	4.05	7.04	2	C	O
40582	3492C	Aliacensis H	.090	.527	.845	6.1	31.8	3.71	6.45	2	C	O
40582A		Aliacensis W	.080	.528	.845	5.4	31.9	6.16	10.71	2	C	O
40582B			.087	.529	.844	5.9	31.9	4.64	8.07	3	C	O
40584		Aliacensis C	.081	.540	.838	5.5	32.7	4.15 6.83	7.21 11.87	3	C	O
40584A			.088	.545	.834	6.0	33.0	3.12	5.42	1	C	O
40585			.084	.557	.826	5.8	33.8	6.98	12.13	4	C	O
40586	3460A	Nonius G	.082	.570	.818	5.7	34.8	3.30	5.74	1	C	O
40587			.083	.571	.817	5.8	34.8	4.04	7.02	3	C	O
40592	3492D	Aliacensis K	.094	.521	.848	6.3	31.4	3.84	6.67	3	C	O
40594			.093	.547	.832	6.4	33.2	4.91	8.53	2	C	O
40594A			.096	.543	.834	6.6	32.9	4.10	7.13	4	C	p?
40594B			.093	.542	.835	6.4	32.8	3.59	6.24	4	C	O
40595			.090	.552	.829	6.2	33.5	3.72	6.47	3	C	O
40595A			.092	.550	.830	6.3	33.4	9.06	15.75	3	C	O
40595B			.093	.552	.829	6.4	33.5	3.35	5.82	3	C	O
40596			.092	.562	.822	6.4	34.2	2.67	4.64	2	C	O
40596A			.093	.566	.819	6.5	34.5	5.92	10.29	4	C	O
40596B			.095	.568	.818	6.6	34.6	3.98	6.92	4	C	O
40596C			.097	.566	.819	6.8	34.5	2.88	5.01	3	C	O
40597			.097	.572	.814	6.8	34.9	2.62	4.55	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40597A			+.097	-.574	+.813	+6.8	-35.0	2.55	4.43	2	C	O
40598			.091	.580	.810	6.4	35.5	3.11	5.41	2	C	O
40599	3464	Kaiser	.092	.594	.799	6.6	36.4	30.56	53.12	3f	C	O
40600			.001	.608	.794	0.1	37.4	2.12	3.68	2	C	O
40600A			.008	.602	.798	0.6	37.0	2.01	3.49	1	C	O
40605	3162	Nasireddin	.003	.657	.754	0.2	41.1	29.57	51.40	2	C	pp
40605A			.006	.656	.755	0.5	41.0	2.01	3.49	2	C	O
40608			.000	.689	.725	0.0	43.6	3.36	5.84	3	C	O
40608A			.001	.683	.730	0.1	43.1	2.06	3.58	2	C	O
40608B			.009	.686	.728	0.7	43.3	8.50	14.77	4	C	O
40608C			.001	.680	.733	0.1	42.8	2.00	3.48	2	C	O
40608D			.004	.681	.732	0.3	42.9	2.08	3.62	2	C	O
40609			.001	.690	.724	0.1	43.6	3.04	5.28	3	C	O
40609A			.006	.692	.722	0.5	43.8	2.75	4.78	3	C	O
40609B			.007	.694	.720	0.6	43.9	8.84	15.37	4	C	O
40609C			.007	.697	.717	0.6	44.2	3.05 6.59	5.30 11.45	3	C	O
40610	3461A	Miller B	.014	.610	.792	1.0	37.6	6.84	11.89	2	C	p
40610A			.017	.603	.798	1.2	37.1	2.03	3.53	1	C	O
40610B			.015	.607	.795	1.1	37.4	2.05	3.56	2	C	O
40613	3161	Miller	.010	.634	.773	0.7	39.3	34.92	60.70	2	C	P
40614		Miller K	.012	.640	.768	0.9	39.8	2.19	3.81	1	C	O
40615			.012	.651	.759	0.9	40.6	2.22	3.86	2	C	O
40617			.011	.671	.741	0.9	42.1	2.99	5.20	3	C	O
40617A			.015	.677	.736	1.2	42.6	8.27	14.37	3	C	O
40618	3423	Stöfler O	.016	.686	.727	1.3	43.3	5.37	9.33	2	C	O
40618A			.016	.683	.730	1.3	43.1	9.25	16.08	3	C	O
40619			.013	.690	.724	1.0	43.6	2.07	3.60	3	C	O
40621A	(3461)	Miller A	.025	.610	.792	1.8	37.6	22.41	38.95	3	C	p
40621B			.027	.617	.786	2.0	38.1	5.61	9.75	3	C	O
40624	3436	Stöfler H	.022	.648	.761	1.7	40.4	13.84	24.06	2	C	p
40627	3445A	Stöfler R	.023	.671	.741	1.8	42.1	3.81	6.62	1	C	O
40627A			.028	.678	.735	2.2	42.7	2.28	3.96	1	C	O
40628	3420	Stöfler G	.025	.687	.726	2.0	43.4	12.06	20.96	2	C	p
40628A			.022	.683	.730	1.7	43.1	3.26	5.67	3	C	O
40628B			.025	.680	.733	2.0	42.8	2.67	4.64	3	C	O
40629	3420A	Licetus G	.024	.692	.721	1.9	43.8	6.17	10.72	1	C	O
40629A			.020	.699	.715	1.6	44.3	3.32	5.77	3	C	O
40629B			.024	.698	.716	1.9	44.3	4.08	7.09	2	C	O
40630			.037	.605	.795	2.7	37.2	2.39	4.15	3	C	O
40631			.030	.615	.788	2.2	38.0	3.45	6.00	4	C	O
40632	3461B	Miller E	.038	.628	.777	2.8	38.9	3.39	5.89	1	C	O
40632A			.034	.628	.777	2.5	38.9	2.61	4.54	1	C	O
40633			.038	.638	.769	2.8	39.6	2.02	3.51	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40635			+.038	-.651	+.758	+2.9	-40.6	2.26	3.93	3	C	O
40636			.032	.660	.751	2.4	41.3	2.09	3.63	2	C	O
40637	3445	Stöfler J	.034	.670	.742	2.6	42.1	41.81	72.67	4	C	p?
40637A			.037	.679	.733	2.9	42.8	2.39	4.15	2	C	O
40638			.039	.688	.725	3.1	43.5	13.17	22.89	3f	C	O
40639	3422	Licetus J	.040	.698	.715	3.2	44.3	6.64	11.54	2	C	O
40640			.041	.607	.794	3.0	37.4	2.66	4.62	3	C	O
40641	3461C	Miller D	.042	.616	.787	3.1	38.0	2.94	5.11	1	C	O
40641A			.044	.615	.787	3.2	38.0	2.92	5.08	3	C	O
40642	3456	Fernelius A	.048	.620	.783	3.5	38.3	15.72	27.32	3	C	O
40644		Stöfler Z	.042	.647	.761	3.2	40.3	2.39	4.15	1	C	O
40644A			.044	.648	.760	3.3	40.4	3.62	6.29	2	C	O
40648			.048	.680	.732	3.8	42.8	4.11	7.14	3	C	O
40650	3455A	Fernelius B	.057	.607	.793	4.1	37.4	5.07	8.81	2	C	O
40650A			.057	.602	.796	4.1	37.0	2.07	3.60	2	C	O
40651			.051	.613	.788	3.7	37.8	3.04	5.28	2	C	O
40651A			.054	.615	.787	3.9	38.0	2.88	5.01	2	C	O
40651B			.058	.618	.784	4.2	38.2	2.20	3.82	1	C	O
40652	3457	Fernelius C	.060	.627	.777	4.4	38.8	3.27 4.84	5.68 8.41	2	C	O
40652A			.057	.620	.783	4.2	38.3	2.43	4.22	2	C	O
40652B			.056	.622	.781	4.1	38.5	3.89	6.76	3	C	O
40652C			.058	.621	.782	4.2	38.4	2.54	4.41	3	C	O
40653	3437	Stöfler K	.057	.635	.770	4.2	39.4	10.79	18.75	1	C	O
40657			.058	.673	.737	4.5	42.3	3.70	6.43	3	C	O
40659		Stöfler D	.054	.692	.720	4.3	43.8	30.82	53.57	4f	C	O
40660			.063	.606	.793	4.5	37.3	3.53	6.14	4f	C	O
40660A			.067	.602	.796	4.8	37.0	5.13	8.92	4	C	O
40661	3455	Fernelius	.068	.616	.785	5.0	38.0	40.00	69.53	3f	C	O
40662			.069	.627	.776	5.1	38.8	2.00	3.48	2	C	O
40664			.064	.643	.763	4.8	40.0	2.98	5.18	3	C	O
40667	3434	Stöfler F	.064	.677	.733	5.0	42.6	10.08	17.52	1	C	O
40668			.063	.687	.724	5.0	43.4	2.54	4.41	2	C	O
40669			.065	.690	.721	5.2	43.6	8.53	14.83	4	C	O
40672			.074	.626	.776	5.4	38.8	2.01	3.49	2	C	O
40673			.076	.633	.770	5.6	39.3	2.07	3.60	2	C	O
40674		Stöfler Y	.073	.641	.764	5.5	39.9	2.05	3.56	1	C	O
40674A		Stöfler X	.073	.649	.757	5.5	40.5	2.01	3.49	1	C	O
40675	3429	Stöfler	.079	.658	.749	6.0	41.1	78.57	136.57	3f	C	O
40678			.074	.688	.722	5.9	43.5	5.05	8.78	3	C	O
40678A			.076	.682	.727	6.0	43.0	2.77	4.81	2	C	O
40678B			.077	.689	.721	6.1	43.6	2.06	3.58	2	C	O
40679	3433	Stöfler E	.073	.692	.718	5.8	43.8	9.12	15.85	1	C	p?
40681	3455B	Fernelius D	.085	.618	.782	6.2	38.2	4.10	7.13	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40681A			+.088	-.616	+.783	+6.4	-38.0	2.84	4.94	1	C	O
40681B			.087	.611	.787	6.3	37.7	2.89	5.02	3	C	O
40681C			.088	.619	.780	6.4	38.2	2.66	4.62	3	C	O
40682			.085	.623	.778	6.2	38.5	2.88	5.01	2	C	O
40683			.088	.630	.772	6.5	39.1	2.07	3.60	1	C	O
40685			.089	.659	.747	6.8	41.2	2.54	4.41	2	C	O
40685A			.087	.658	.748	6.6	41.1	2.31	4.02	2	C	O
40686	3440	Stöfler N	.086	.666	.741	6.6	41.8	7.94 6.31	13.80 10.97	3	C	O
40686A			.083	.666	.741	6.4	41.8	2.29 3.94	3.98 6.85	3	C	O
40687			.081	.673	.735	6.3	42.3	2.79	4.85	2	C	O
40687A			.087	.674	.734	6.8	42.4	2.57	4.47	1	C	O
40687B			.083	.677	.731	6.5	42.6	2.82	4.90	1	C	O
40687C			.084	.675	.733	6.5	42.5	2.50	4.35	1	C	O
40687D			.088	.677	.731	6.9	42.6	2.15	3.74	3	C	O
40687E			.082	.676	.732	6.4	42.5	2.09	3.63	3	C	O
40690			.095	.601	.794	6.8	36.9	2.11	3.67	2	C	O
40692	3455C	Fernelius E	.090	.620	.779	6.6	38.3	3.29	5.72	2	C	O
40692A			.092	.623	.777	6.8	38.5	2.01	3.49	1	C	O
40692B			.097	.628	.772	7.2	38.9	2.82	4.90	3	C	O
40693			.090	.635	.767	6.7	39.4	2.32	4.03	2	C	O
40693A			.098	.635	.766	7.3	39.4	2.06	3.58	1	C	O
40697			.090	.678	.730	7.0	42.7	2.19	3.81	1	C	O
40698	3441	Stöfler P	.094	.687	.721	7.4	43.4	15.51 20.39	26.96 35.44	3	C	?
40698A			.093	.685	.723	7.3	43.2	2.67	4.64	2	C	O
40699			.097	.695	.712	7.8	44.0	4.19	7.28	4	C	O
40700			.006	.701	.713	0.5	44.5	3.43	5.96	3	C	O
40700A			.008	.703	.711	0.6	44.7	5.56	9.66	3	C	O
40700B			.009	.707	.707	0.7	45.0	2.16	3.75	1	C	O
40700C			.009	.709	.705	0.7	45.2	2.31	4.02	1	C	O
40701	3419A	Licetus K	.001	.713	.701	0.1	45.5	3.18	5.53	2	C	O
40701A			.002	.717	.697	0.2	45.8	2.34	4.07	4	C	O
40702			.002	.726	.688	0.2	46.6	2.36	4.10	2	C	O
40702A			.004	.729	.685	0.3	46.8	2.16	3.75	1	C	O
40703	3168	Saussure D	.003	.731	.682	0.3	47.0	11.21	19.48	2f	C	O
40704			.009	.742	.670	0.8	47.9	2.31	4.02	3	C	O
40704A			.001	.743	.669	0.1	48.0	2.16	3.75	2	C	O
40706	3400A	Lilius G	.008	.766	.643	0.7	50.0	3.99	6.94	3	C	O
40706A			.001	.760	.650	0.1	49.5	2.50	4.35	2	C	O
40706B			.004	.765	.644	0.4	49.9	2.19	3.81	1	C	O
40707	3400B	Lilius H	.009	.772	.636	0.8	50.5	4.93	8.57	3f	C	O
40707A			.007	.773	.634	0.6	50.6	2.47	4.29	3	C	O
40708	3220	Deluc B	.005	.788	.616	0.5	52.0	21.99	38.22	3f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40709			+.005	-.796	+.605	+0.5	-52.7	2.65	4.61	2	C	O
40709A			.005	.795	.607	0.5	52.7	2.05	3.56	2	C	O
40711	3419	Licetus F	.012	.719	.695	1.0	46.0	18.12	31.50	2f	C	O
40713	3419B	Licetus L	.013	.734	.679	1.1	47.2	2.93	5.09	1	C	O
40713A			.011	.731	.682	0.9	47.0	2.79	4.85	3	C	O
40713B			.014	.730	.683	1.2	46.9	2.11	3.67	2	C	O
40714			.011	.742	.670	0.9	47.9	2.22	3.86	2	C	O
40714A			.015	.743	.669	1.3	48.0	2.03	3.53	2	C	O
40715			.017	.752	.659	1.5	48.8	2.43	4.22	2	C	O
40715A	3400	Lilius F	.019	.759	.651	1.7	49.4	24.64	42.83	3f	C	O
40716			.012	.760	.650	1.1	49.5	2.81	4.88	2	C	O
40716A			.016	.766	.643	1.4	50.0	3.21	5.58	3	C	O
40716B			.018	.769	.639	1.6	50.3	4.61	8.01	3	C	O
40716C			.012	.769	.639	1.1	50.3	3.06	5.32	3	C	O
40717			.018	.771	.637	1.6	50.4	3.01	5.23	2	C	O
40717A			.015	.770	.638	1.3	50.4	2.96	5.14	2	C	O
40718	3221	Deluc C	.010	.781	.624	0.9	51.4	16.02	27.85	1f	C	O
40718A			.017	.787	.617	1.6	51.9	7.01	12.18	2	C	O
40719			.013	.794	.608	1.2	52.6	4.86	8.45	4	C	O
40719A			.015	.793	.609	1.4	52.5	3.41	5.93	3	C	O
40720			.021	.707	.707	1.7	45.0	3.68	6.40	1	C	O
40720A	3418	Licetus E	.024	.704	.710	1.9	44.7	10.12 14.42	17.59 25.06	3	C	p?
40720B			.024	.709	.705	2.0	45.2	2.40	4.17	4	C	O
40721	3418A	Licetus N	.028	.713	.701	2.3	45.5	5.01	8.71	1	C	O
40721A			.025	.710	.704	2.0	45.2	2.16	3.75	4	C	O
40722	3419C	Licetus M	.023	.728	.685	1.9	46.7	5.17	8.99	2	C	O
40722A			.020	.724	.690	1.7	46.4	2.75	4.78	3	C	O
40722B			.028	.727	.686	2.3	46.6	2.34	4.07	3	C	O
40723		Licetus P	.028	.738	.674	2.4	47.6	11.91	20.70	3	C	O
40723A			.022	.737	.676	1.9	47.5	4.08	7.09	3	C	O
40723B			.024	.735	.678	2.0	47.3	3.14	5.46	2	C	O
40726			.020	.760	.650	1.8	49.5	2.27	3.95	1	C	O
40727			.020	.779	.627	1.8	51.2	2.05	3.56	2	C	O
40727A			.022	.772	.635	2.0	50.5	2.38	4.14	2	C	O
40728			.025	.785	.619	2.3	51.7	2.27	3.95	2	C	O
40728A			.025	.788	.615	2.3	52.0	7.00	12.17	2	C	O
40729			.023	.799	.601	2.2	53.0	3.69	6.41	3	C	O
40730			.031	.704	.710	2.5	44.7	3.79	6.59	3	C	O
40730A			.037	.708	.705	3.0	45.1	7.14	12.41	2	C	O
40730B			.038	.706	.707	3.1	44.9	2.21	3.84	2	C	O
40731	3421	Licetus H	.038	.718	.695	3.1	45.9	6.00	10.43	1	C	O
40731A			.030	.710	.704	2.4	45.2	7.77	13.51	4	C	O
40732			.036	.727	.686	3.0	46.6	2.16	3.75	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E
40732A			+.036	-.729	+.684	+3.0	-46.8	3.58	6.22	3	C	O
40732B			.034	.727	.686	2.8	46.6	2.78 4.08	4.83 7.09	4	C	O
40732C			.039	.724	.689	3.2	46.4	4.60	8.00	4	C	O
40733			.039	.732	.680	3.3	47.1	4.94	8.59	4f	C	O
40734	3414A	Licetus A	.038	.740	.672	3.2	47.7	4.83	8.40	1	C	O
40734A			.031	.743	.669	2.7	48.0	2.06	3.58	2	C	O
40734B			.032	.742	.670	2.7	47.9	2.44	4.24	2	C	O
40735	3400C	Lilius N	.032	.755	.655	2.8	49.0	2.82	4.90	2	C	O
40735A			.036	.758	.651	3.2	49.3	3.99	6.94	3	C	O
40736	3399	Lilius E	.033	.767	.641	2.9	50.1	21.74	37.79	3f	C	O
40737	3398	Lilius D	.033	.773	.634	3.0	50.6	30.98	53.85	4	C	?
40737A			.030	.770	.637	2.7	50.4	2.09	3.63	1	C	O
40738			.032	.784	.620	3.0	51.6	2.19	3.81	2	C	O
40738A			.035	.783	.621	3.2	51.5	2.38	4.14	2	C	O
40739			.038	.792	.609	3.6	52.4	3.37	5.86	4	C	O
40740	3421A	Licetus R	.048	.709	.704	3.9	45.2	3.98	6.92	4	C	O
40740A			.045	.703	.710	3.6	44.7	3.69	6.41	2	C	O
40740B			.049	.700	.712	3.9	44.4	3.48	6.05	2	C	O
40740C			.048	.703	.710	3.9	44.7	2.24	3.89	2	C	O
40741			.047	.711	.702	3.8	45.3	2.07	3.60	2	C	O
40742			.040	.722	.691	3.3	46.2	5.51	9.58	4	C	O
40742A			.049	.723	.689	4.1	46.3	6.34 10.80	11.02 18.77	3	C	O
40742B			.046	.720	.692	3.8	46.1	2.97	5.16	2	C	O
40742C			.048	.727	.685	4.0	46.6	5.38	9.35	4	C	O
40742D			.049	.725	.687	4.1	46.5	5.62	9.77	2	C	O
40743			.045	.735	.677	3.8	47.3	19.40	33.72	4f	C	O
40744			.048	.743	.668	4.1	48.0	2.98	5.18	3	C	O
40744A			.045	.747	.663	3.9	48.3	3.12	5.42	4	C	O
40745			.040	.756	.653	3.5	49.1	4.12	7.16	2	C	O
40746			.048	.761	.647	4.2	49.6	2.62	4.55	1	C	O
40746A		Heraclitus K	.040	.761	.648	3.5	49.6	9.93	17.26	2	C	O
40747			.044	.777	.628	4.0	51.0	4.02	6.99	2	C	O
40747A			.040	.774	.632	3.6	50.7	2.42	4.21	2	C	O
40748			.044	.788	.614	4.1	52.0	17.60 13.19	30.59 22.93	3f	C	O
40748A			.045	.783	.620	4.1	51.5	3.22	5.60	2	C	O
40748B			.046	.780	.624	4.2	51.3	2.32	4.03	2	C	O
40748C			.040	.784	.619	3.7	51.6	2.61	4.54	2	C	O
40749	3396	Lilius B	.040	.798	.601	3.8	52.9	16.78	29.17	2	C	p
40750			.056	.702	.710	4.5	44.6	8.11 5.66	14.10 9.84	3	C	O
40750A			.057	.705	.707	4.6	44.8	2.51	4.36	2	C	O
40751			.057	.716	.696	4.7	45.7	9.76	16.96	4	C	O
40751A			.058	.712	.700	4.7	45.4	5.92	10.29	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40751B			+.059	-.719	+.693	+4.9	-46.0	3.35	5.82	3	C	O
40752	3414B	Licetus B	.059	.725	.686	4.9	46.5	7.21	12.53	2	C	O
40752A			.058	.728	.683	4.9	46.7	2.20	3.82	2	C	O
40752B			.054	.722	.690	4.5	46.2	3.65	6.34	3	C	O
40752C			.055	.727	.684	4.6	46.6	2.29	3.98	2	C	O
40752D			.058	.721	.691	4.8	46.1	4.64	8.07	4	C	O
40753			.052	.732	.679	4.4	47.1	8.41	14.62	3	C	O
40753A			.052	.735	.676	4.4	47.3	6.52	11.33	3	C	O
40753B			.054	.737	.674	4.6	47.5	4.09	7.11	3	C	O
40753C			.056	.738	.672	4.8	47.6	2.31	4.02	2	C	O
40754	3414D	Licetus D	.052	.743	.667	4.5	48.0	3.49	6.07	2	C	O
40754A			.052	.747	.663	4.5	48.3	2.66	4.62	2	C	O
40754B			.052	.749	.661	4.5	48.5	4.53	7.87	3	C	O
40754C			.057	.740	.670	4.9	47.7	2.44	4.24	2	C	O
40755	3416A	Heraclitus A	.053	.758	.650	4.7	49.3	3.24	5.63	2	C	O
40755A			.050	.751	.658	4.3	48.7	2.08	3.62	1	C	O
40757			.051	.771	.635	4.6	50.4	2.02	3.51	1	C	O
40757A			.056	.770	.636	5.0	50.4	4.01	6.97	4	C	O
40757B	3417	Heraclitus D	.058	.770	.635	5.2	50.4	30.01	52.16	2	C	P?
40757C			.059	.772	.633	5.3	50.5	4.70	8.17	4f	C	O
40757D			.053	.778	.626	4.8	51.1	2.69	4.68	2	C	O
40758			.051	.780	.624	4.7	51.3	3.62	6.29	2	C	O
40758A			.059	.784	.618	5.5	51.6	2.03	3.53	1	C	O
40759			.050	.793	.607	4.7	52.5	6.90	11.99	3	C	O
40759A			.054	.790	.611	5.1	52.2	2.49	4.33	2	C	O
40759B			.053	.797	.602	5.0	52.8	10.36	18.01	2f	C	O
40761			.063	.711	.700	5.1	45.3	4.27	7.42	4	C	O
40761A			.063	.710	.701	5.1	45.2	2.39	4.15	1	C	O
40761B			.067	.718	.693	5.5	45.9	8.11	14.10	3	C	O
40761C			.068	.711	.700	5.5	45.3	4.03	7.00	4	C	O
40761D			.066	.713	.698	5.4	45.5	2.12	3.68	1	C	O
40763	3414C	Licetus C	.066	.736	.674	5.6	47.4	5.83	10.13	2	C	O
40763A			.068	.734	.676	5.7	47.2	2.31	4.02	2	C	O
40764			.067	.740	.669	5.7	47.7	2.31	4.02	2	C	O
40764A			.060	.745	.664	5.2	48.2	2.71	4.71	2	C	O
40766			.064	.761	.646	5.7	49.6	2.13	3.70	1	C	O
40767			.062	.775	.629	5.6	50.8	4.41	7.67	3f	C	O
40768			.065	.783	.619	6.0	51.3	9.74	16.93	4	C	O
40768A			.068	.780	.622	6.2	51.3	2.96	5.14	1	C	O
40768B			.069	.781	.621	6.3	51.4	3.19	5.54	2	C	O
40768C			.060	.783	.619	5.5	51.5	2.66	4.62	3	C	O
40769	3394A	Lilius S	.062	.796	.602	5.9	52.7	8.07	14.03	1	C	O
40769A			.060	.791	.609	5.6	52.3	2.93	5.09	3	C	O
40769B			.066	.793	.606	6.2	52.5	4.69	8.15	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40770	3433A	Stöfler S	+.071	-.705	+.706	+5.7	-44.8	4.72	8.20	3	C	O
40770A			.074	.706	.704	6.0	44.9	4.03	7.00	1	C	O
40770B			.070	.708	.703	5.7	45.1	2.29	3.98	2	C	O
40770C			.076	.704	.706	6.1	44.7	5.95	10.34	4	C	p?
40771			.076	.717	.693	6.3	45.8	3.18	5.53	2	C	O
40771A			.077	.713	.697	6.3	45.5	11.70	20.34	3	C	O
40772			.076	.723	.687	6.3	46.3	3.45	6.00	3	C	O
40772A			.079	.721	.688	6.5	46.1	2.44	4.24	3	C	O
40772B			.073	.723	.687	6.1	46.3	3.14	5.46	4	C	O
40772C			.078	.721	.689	6.5	46.1	2.51	4.36	3	C	O
40773	3414	Licetus	.079	.733	.676	6.7	47.1	42.99	74.72	2	C	p
40773A			.075	.735	.674	6.4	47.3	3.35	5.82	4	C	O
40774			.072	.746	.662	6.2	48.2	3.64	6.33	2	C	O
40774A			.073	.743	.665	6.3	48.0	2.43	4.22	2	C	O
40775	3416B	Heraclitus C	.072	.752	.655	6.3	48.8	4.13	7.18	3	C	O
40775A			.075	.759	.647	6.6	49.4	2.55	4.43	1	C	O
40775B	3416	Heraclitus	.071	.757	.650	6.2	49.2	52.00	90.38	4	C	R
40776	3415A	Heraclitus E	.075	.762	.643	6.7	49.6	4.01	6.97	2	C	O
40776A			.070	.761	.645	6.2	49.6	2.30	4.00	3	C	O
40776B			.076	.766	.638	6.8	50.0	3.05	5.30	3	C	O
40777			.077	.771	.632	6.9	50.4	3.24	5.63	2	C	O
40777A			.078	.776	.626	7.1	50.9	4.57	7.94	4	C	O
40777B			.079	.774	.628	7.2	50.7	2.01	3.49	1	C	O
40777C			.073	.770	.634	6.6	50.4	2.17	3.77	2	C	O
40778			.075	.785	.615	7.0	51.7	12.87	22.37	2f	C	O
40778A			.072	.788	.611	6.7	52.0	4.73	8.22	2	C	O
40781	3414E	Licetus T	.081	.717	.692	6.7	45.8	4.27	7.42	2	C	O
40781A			.080	.719	.690	6.6	46.0	3.21	5.58	2	C	O
40781B			.081	.713	.696	6.6	45.5	3.52	6.12	2	C	O
40781C			.084	.718	.691	6.9	45.9	3.14	5.46	1	C	O
40781D			.085	.711	.698	6.9	45.3	20.45	35.55	4	C	?
40782	3414F	Licetus U	.089	.730	.678	7.5	46.9	3.94	6.85	1	C	O
40783			.080	.733	.676	6.8	47.1	3.38	5.87	3	C	O
40784			.085	.749	.657	7.4	48.5	2.51	4.36	2	C	O
40784A			.084	.744	.663	7.2	48.1	14.23	24.73	4	C	p?
40785			.088	.758	.646	7.8	49.3	4.68	8.13	3	C	O
40786			.082	.769	.634	7.4	50.3	3.91	6.80	3	C	O
40786A			.086	.760	.644	7.6	49.5	4.45	7.73	3	C	O
40786B			.085	.762	.642	7.5	49.6	2.73	4.75	2	C	O
40787	3408A	Cuvier G	.083	.775	.626	7.5	50.8	4.60	8.00	2	C	O
40787A			.082	.772	.630	7.4	50.5	2.87	4.99	3	C	O
40787B			.085	.770	.632	7.7	50.4	2.65	4.61	2	C	O
40787C			.088	.770	.632	7.9	50.4	2.27	3.95	2	C	O
40787D			.087	.775	.626	7.9	50.8	2.58	4.48	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40787E			+.088	-.776	+.625	+8.0	-50.9	2.27	3.95	3	C	O
40788	3408	Cuvier D	.085	.781	.619	7.8	51.4	9.90	17.21	2	C	O
40788A			.084	.786	.612	7.8	51.8	16.05	27.90	4	C	O
40788B			.085	.783	.616	7.9	51.5	2.82	4.90	3	C	O
40788C			.088	.789	.608	8.2	52.1	10.45	18.16	3f	C	O
40789			.080	.796	.600	7.6	52.7	3.76	6.54	3	C	O
40789A			.085	.794	.602	8.0	52.6	7.50	13.04	4	C	O
40790			.092	.700	.708	7.4	44.4	2.30	4.00	2	C	O
40790A			.095	.700	.708	7.6	44.4	3.94	6.85	3	C	O
40791			.098	.719	.688	8.1	46.0	2.66	4.62	2	C	O
40793			.092	.738	.668	7.8	47.6	14.23	24.73	3	C	?
40793A			.098	.733	.673	8.3	47.1	4.59	7.98	2	C	O
40794			.090	.749	.656	7.8	48.5	5.20	9.04	2	C	O
40794A			.094	.740	.666	8.0	47.7	9.05	15.73	3	C	O
40794B			.099	.741	.664	8.5	47.8	2.16	3.75	2	C	O
40794C			.094	.742	.664	8.1	47.9	9.46	16.44	3	C	O
40795	3404A	Cuvier H	.098	.751	.653	8.5	48.7	5.97	10.38	1	C	O
40795A	3404B	Cuvier J	.100	.758	.645	8.8	49.3	3.61	6.27	2	C	O
40795B			.090	.751	.654	7.8	48.7	9.24	16.06	2	C	O
40796			.092	.762	.641	8.2	49.6	2.54	4.41	2	C	O
40798			.098	.786	.610	9.1	51.8	2.77	4.81	4	C	O
40801		Deluc AA	.002	.811	.585	0.2	54.2	8.02	13.94	2f	C	O
40801A			.004	.818	.575	0.4	54.9	5.04	8.76	3	C	O
40801B			.005	.814	.581	0.5	54.5	5.03	8.74	4	C	O
40801C			.008	.816	.578	0.8	54.7	11.21	19.48	3	C	O
40802		Deluc AB	.006	.823	.568	0.6	55.4	12.46	21.66	3f	C	?
40803			.004	.836	.549	0.4	56.7	4.55	7.91	4	C	O
40803A			.001	.834	.552	0.1	56.5	3.95	6.87	2	C	O
40803B			.006	.839	.544	0.6	57.0	13.16	22.87	5f	C	O
40804A			.002	.847	.532	0.2	57.9	3.13	5.44	2	C	O
40804B			.009	.843	.538	1.0	57.5	8.18	14.22	5f	C	O
40805	3387A	Zach G	.005	.852	.524	0.5	58.4	3.14	5.46	2	C	O
40805A			.008	.857	.515	0.9	59.0	3.02	5.25	1	C	O
40805B			.000	.857	.515	0.0	59.0	5.92	10.29	4	C	O
40807	3230	Deluc N	.004	.871	.491	0.5	60.6	5.83	10.13	2	C	O
40807A	3225	Deluc G	.006	.878	.479	0.7	61.4	15.29	26.58	1f	C	O
40808	3225B	Deluc S	.002	.882	.471	0.2	61.9	3.61	6.27	2	C	O
40808A			.005	.884	.467	0.6	62.1	6.50	11.30	3	C	O
40809	3270A	Cysatus J	.006	.891	.454	0.8	63.0	5.97	10.38	2	C	O
40809A	3270	Cysatus C	.005	.897	.442	0.6	63.8	15.74	27.36	3f	C	O
40810			.011	.804	.595	1.1	53.5	3.99	6.94	2	C	O
40811			.012	.810	.586	1.2	54.1	4.20	7.30	3f	C	O
40811A			.014	.815	.579	1.4	54.6	2.30	4.00	2	C	O
40812			.015	.825	.565	1.5	55.6	2.22	3.86	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40813	3397A	Lilius J	+.017	-.832	+.555	+1.8	-56.3	7.20	12.51	2	C	O
40814			.012	.847	.531	1.3	57.9	3.46	6.01	3	C	O
40815	3387	Zach C	.012	.853	.522	1.3	58.5	7.66	13.31	1	C	O
40815A			.019	.856	.517	2.1	58.9	3.23	5.61	3	C	O
40815B			.010	.852	.523	1.1	58.4	20.65	35.89	5	C	O
40816			.015	.862	.507	1.7	59.5	6.21	10.79	4	C	O
40816A			.013	.864	.503	1.5	59.8	4.90	8.52	4	C	O
40816B			.016	.860	.510	1.8	59.3	2.32	4.03	2	C	O
40818	3225C	Deluc V	.014	.881	.473	1.7	61.8	5.06	8.80	3	C	O
40818B			.010	.885	.465	1.2	62.3	2.07	3.60	2	C	O
40818C			.015	.880	.475	1.8	61.6	4.44	7.72	4	C	O
40819			.013	.893	.450	1.7	63.3	2.57	4.47	2	C	O
40819A			.018	.894	.448	2.3	63.4	3.05	5.30	3f	C	O
40819B			.019	.893	.450	2.4	63.3	3.77	6.55	3f	C	O
40819C			.014	.895	.446	1.8	63.5	3.82	6.64	2	C	p?
40820	3397B	Lilius K	.023	.804	.594	2.2	53.5	12.92	22.46	1f	C	O
40820A			.029	.809	.587	2.8	54.0	2.55	4.43	2	C	O
40821	3397C	Lilius L	.025	.818	.575	2.5	54.9	3.67	6.38	2	C	O
40821A			.022	.811	.585	2.2	54.2	3.68	6.40	3	C	O
40821B			.024	.810	.586	2.3	54.1	4.08	7.09	3	C	O
40822			.025	.820	.572	2.5	55.1	3.04	5.28	3	C	O
40822A			.021	.820	.572	2.1	55.1	2.96	5.14	3	C	O
40823	3397D	Lilius M	.028	.831	.556	2.9	56.2	6.06	10.53	3f	C	O
40823A			.028	.835	.550	2.9	56.6	4.05	7.04	2	C	O
40824			.028	.846	.532	3.0	57.8	3.27	5.68	2	C	O
40824A			.022	.843	.537	2.3	57.5	20.81	36.17	4f	C	O
40825	3386A	Zach H	.027	.858	.513	3.0	59.1	3.83	6.66	1	C	O
40825A			.027	.851	.524	2.9	58.3	2.19	3.81	1	C	O
40825B	3386	Zach B	.027	.853	.521	3.0	58.5	18.24	31.70	3	C	O
40826A	(3390)	Zach F	.028	.866	.499	3.2	60.0	10.39	18.06	3	C	p
40827			.024	.873	.487	2.8	60.8	2.70	4.69	2	C	O
40828			.023	.880	.474	2.8	61.6	2.85	4.95	2	C	O
40828A			.025	.880	.474	3.0	61.6	2.76	4.80	3	C	O
40828B			.025	.889	.457	3.1	62.7	11.06	19.22	3	C	O
40828C			.026	.887	.461	3.2	62.5	5.36	9.32	3	C	O
40829			.021	.891	.454	2.7	63.0	2.92	5.08	2	C	O
40831	3397	Lilius C	.034	.813	.581	3.3	54.4	22.70	39.46	3	C	p
40831A			.036	.817	.576	3.6	54.8	2.27	3.95	2	C	O
40832	3397E	Lilius O	.036	.823	.567	3.6	55.4	3.74	6.50	2	C	O
40832A	3397F	Lilius P	.038	.828	.559	3.9	55.9	2.33	4.05	1	C	O
40832B			.038	.820	.571	3.8	55.1	4.99	8.67	4	C	O
40833			.032	.837	.546	3.4	56.8	2.79	4.85	3	C	O
40834			.033	.844	.535	3.5	57.6	2.58	4.48	2	C	O
40834A			.038	.844	.535	4.1	57.6	2.26	3.93	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40835			+.036	-.850	+.526	+3.9	-58.2	16.99	29.53	3	C	O
40835A			.037	.858	.512	4.1	59.1	3.08	5.35	2	C	O
40835B			.039	.859	.510	4.4	59.2	2.42	4.21	2	C	O
40836			.033	.866	.499	3.8	60.0	6.99	12.15	2	C	?
40837			.036	.873	.486	4.2	60.8	2.36	4.10	2	C	O
40838			.030	.887	.461	3.7	62.5	2.12	3.68	1	C	O
40839	3357	Curtius B	.036	.896	.443	4.7	63.6	23.44	40.74	2	C	p
40839A			.036	.890	.455	4.5	62.9	2.16	3.75	2	C	O
40840			.045	.803	.594	4.3	53.4	4.36	7.58	1	C	O
40841	3397G	Lilius R	.044	.816	.576	4.4	54.7	5.24	9.11	2	C	O
40841A			.045	.818	.573	4.5	54.9	2.92	5.08	3	C	O
40843			.041	.835	.549	4.3	56.6	14.74	25.62	3f	C	O
40843A			.046	.830	.556	4.7	56.1	2.56	4.45	2	C	O
40843B			.046	.839	.542	4.8	57.0	21.19	36.83	3f	C	O
40844	3386B	Zach J	.045	.841	.539	4.8	57.2	6.21	10.79	1	C	O
40844A			.048	.847	.529	5.2	57.9	2.97	5.16	1	C	O
40845			.043	.851	.523	4.7	58.3	2.10	3.65	1	C	O
40847	3384	Zach	.045	.874	.484	5.3	60.9	40.72	70.78	2	C	p
40847A			.043	.873	.486	5.1	60.8	2.21	3.84	2	C	O
40848	3385	Zach A	.041	.887	.460	5.1	62.5	20.76	36.08	3	C	O
40850			.051	.806	.590	4.9	53.7	4.09	7.11	2	C	O
40850A			.052	.803	.594	5.0	53.4	2.36	4.10	2	C	O
40850B			.056	.805	.591	5.4	53.6	3.23	5.61	3	C	O
40850C			.057	.803	.593	5.5	53.4	3.13	5.44	3	C	O
40850D			.053	.800	.598	5.1	53.1	2.72	4.73	3	C	O
40853			.058	.834	.549	6.0	56.5	3.20	5.56	2	C	O
40853A			.059	.837	.544	6.2	56.8	2.36	4.10	1	C	O
40854	3389A	Zach K	.058	.842	.536	6.2	57.4	5.12	8.90	2	C	O
40854A			.058	.844	.533	6.2	57.6	4.62	8.03	2	C	O
40855			.053	.851	.522	5.8	58.3	3.97	6.90	3	C	O
40856	3389	Zach E	.056	.861	.506	6.3	59.4	13.95	24.25	2	C	O
40859			.053	.893	.447	6.8	63.3	4.43	7.70	2	C	O
40859A			.059	.890	.452	7.4	62.9	2.68	4.66	1	C	O
40859B			.056	.897	.438	7.3	63.8	19.29	33.53	4	C	O
40860			.065	.802	.594	6.2	53.3	4.90	8.52	3	C	O
40861A	3394	Lilius	.063	.814	.577	6.2	54.5	35.14	61.08	2	C	P
40862			.060	.829	.556	6.2	56.0	2.07	3.60	3	C	O
40862A			.062	.822	.566	6.3	55.3	2.20	3.82	2	C	O
40862B			.068	.826	.560	6.9	55.7	2.15	3.74	2	C	O
40863			.060	.839	.541	6.3	57.0	2.55	4.43	2	C	O
40863A			.061	.836	.545	6.4	56.7	2.83	4.92	1	C	O
40863B			.062	.830	.554	6.4	56.1	2.35	4.08	2	C	O
40863C			.064	.838	.542	6.7	56.9	2.67	4.64	2	C	O
40864	3389B	Zach L	.064	.848	.526	6.9	58.0	9.20	15.99	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40864A	3389C	Zach M	+.066	-.840	+.539	+7.0	-57.1	2.77	4.81	1	C	O
40864B			.067	.840	.538	7.1	57.1	12.44	21.62	4	C	O
40865			.062	.855	.515	6.9	58.8	8.23	14.30	5	C	O
40865A			.064	.855	.515	7.1	58.8	30.62	53.22	4	C	O
40868	3388	Zach D	.065	.883	.465	8.0	62.0	16.85	29.29	2	C	O
40868A			.062	.884	.463	7.6	62.1	2.98	5.18	2	C	O
40868B			.063	.883	.465	7.7	62.0	2.17	3.77	2	C	O
40869			.061	.892	.448	7.8	63.1	3.11	5.41	2	C	O
40869A			.068	.897	.437	8.8	63.8	3.97	6.90	2	C	O
40869B			.067	.892	.447	8.5	63.1	6.06	10.53	4	C	O
40870	3394C	Lilius U	.079	.804	.589	7.6	53.5	4.86	8.45	2	C	O
40870A			.077	.807	.586	7.5	53.8	2.58	4.48	2	C	O
40872	3394B	Lilius T	.073	.828	.556	7.5	55.9	2.98	5.18	1	C	O
40872A			.072	.829	.555	7.4	56.0	2.84	4.94	2	C	O
40872B			.071	.821	.566	7.1	55.2	30.87	53.66	5f	C	?
40873			.077	.834	.546	8.0	56.5	2.03	3.53	1	C	O
40874			.070	.844	.532	7.5	57.6	2.49	4.33	1	C	O
40874A			.075	.841	.536	8.0	57.2	2.31	4.02	2	C	O
40874B			.076	.846	.528	8.2	57.8	2.10	3.65	1	C	O
40874C			.079	.847	.526	8.5	57.9	2.35	4.08	2	C	O
40875			.074	.850	.522	8.1	58.2	3.20	5.56	2	C	O
40875A			.075	.851	.520	8.2	58.3	2.73	4.75	1	C	O
40875B			.076	.854	.515	8.4	58.6	3.44	5.98	3	C	O
40878			.074	.889	.452	9.3	62.7	4.88	8.48	3	C	O
40879			.072	.890	.450	9.1	62.9	6.11	10.62	3	C	O
40879A			.073	.898	.434	9.6	63.9	2.92	5.08	2	C	O
40879B			.078	.894	.441	10.0	63.4	9.05	15.73	4f	C	O
40880	3394D	Lilius W	.086	.806	.586	8.4	53.7	5.11	8.88	2	C	O
40880A			.082	.808	.583	8.0	53.9	3.24	5.63	1	C	O
40881			.084	.814	.575	8.3	54.5	2.81	4.88	2	C	O
40881A			.081	.814	.575	8.0	54.5	2.85	4.95	3	C	O
40882	3395	Lilius A	.087	.823	.561	8.8	55.4	23.47	40.79	2	C	O
40882A			.084	.821	.565	8.5	55.2	2.18	3.79	2	C	O
40882B			.084	.824	.560	8.5	55.5	2.07	3.60	2	C	O
40882C			.089	.820	.565	8.9	55.1	2.11	3.67	2	C	O
40882D			.081	.829	.553	8.3	56.0	8.62	14.98	4	C	?
40883			.080	.831	.550	8.3	56.2	2.37	4.12	1	C	O
40883A			.084	.835	.544	8.8	56.6	2.41	4.19	1	C	O
40883B			.083	.839	.538	8.8	57.0	2.09	3.63	1	C	O
40884			.085	.847	.525	9.2	57.9	3.67	6.38	1	C	O
40884A			.084	.840	.536	8.9	57.1	4.20	7.30	2	C	O
40884B			.088	.842	.532	9.4	57.4	3.34	5.81	3	C	O
40884C			.088	.844	.529	9.4	57.6	3.41	5.93	3	C	O
40885	3381	Jacobi F	.087	.853	.515	9.6	58.5	24.10	41.89	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40885A			+.083	-.853	+.515	+9.2	-58.5	2.91	5.06	1	C	o
40886			.081	.869	.488	9.4	60.3	4.99	8.67	3	C	o
40886A			.084	.860	.503	9.5	59.3	3.64	6.33	2	C	o
40887	3378A	Jacobi D	.090	.873	.479	10.6	60.8	11.86	20.61	3	C	?
40887A			.082	.873	.481	9.7	60.8	3.12	5.42	2	C	o
40890			.095	.804	.587	9.2	53.5	2.88	5.01	1	C	o
40890A			.091	.808	.582	8.9	53.9	2.09	3.63	2	C	o
40890B			.098	.807	.582	9.6	53.8	2.06	3.58	2	C	o
40890C			.099	.805	.585	9.6	53.6	2.55	4.43	2	C	o
40891			.095	.810	.579	9.3	54.1	2.63	4.57	1	C	o
40892			.093	.826	.556	9.5	55.7	4.39	7.63	2	C	o
40892A			.097	.824	.558	9.9	55.5	2.66	4.62	2	C	o
40892B			.097	.828	.552	10.0	55.9	2.28	3.96	2	C	o
40892C			.099	.826	.555	10.1	55.7	7.80	13.56	5	C	o
40893			.091	.830	.550	9.4	56.1	2.03	3.53	1	C	o
40894	3381A	Jacobi J	.096	.847	.523	10.4	57.9	11.05	19.21	1	C	p?
40894A			.092	.843	.530	9.8	57.5	2.45	4.26	2	C	o
40895	3381B	Jacobi H	.096	.853	.513	10.6	58.5	4.97	8.64	2	C	o
40896	3378	Jacobi C	.092	.864	.495	10.5	59.8	20.10	34.94	2	C	p
40897			.093	.880	.466	11.3	61.6	4.62	8.03	1	C	o
40897A			.092	.875	.475	11.0	61.0	6.27	10.90	3	C	o
40897B			.098	.871	.481	11.5	60.6	2.05	3.56	1	C	o
40897C			.095	.877	.471	11.4	61.3	7.51	13.05	4	C	o
40897D			.098	.874	.476	11.6	60.9	2.47	4.29	2	C	o
40898	3366A	Pentland F	.092	.883	.460	11.3	62.0	7.11	12.36	1	C	o
40898A			.096	.888	.450	12.1	62.6	2.17	3.77	2	C	o
40899			.093	.890	.446	11.8	62.9	2.27	3.95	2	C	o
40899A			.094	.894	.438	12.1	63.4	3.23	5.61	1	C	o
40899B			.099	.894	.437	12.8	63.4	3.13	5.44	2	C	o
40900			.006	.900	.436	0.8	64.2	3.60	6.26	3	C	o
40900A			.006	.905	.425	0.8	64.8	3.33	5.79	2	C	o
40901	3272B	Cysatus H	.000	.919	.394	0.0	66.8	4.85	8.43	2	C	o
40901A			.006	.914	.406	0.8	66.1	3.83	6.66	2	C	o
40902			.003	.928	.373	0.5	68.1	11.80	20.51	4	C	o
40902A			.004	.926	.378	0.6	67.8	3.27	5.68	2	C	o
40902B			.002	.923	.385	0.3	67.4	2.05	3.56	2	C	o
40903			.008	.931	.365	1.3	68.6	12.40	21.55	4	C	o
40907			.004	.970	.243	0.9	75.9	2.58	4.48	2	C	o
40908			.001	.986	.167	0.3	80.4	3.45	6.00	2	C	o
40908A			.003	.988	.154	1.1	81.1	6.91	12.01	2	C	?
40908B			.007	.982	.189	2.1	79.1	6.17	10.72	2	C	?
40908C			.008	.981	.194	2.4	78.8	7.90	13.73	2	C	?
40908D			.008	.985	.172	2.7	80.1	3.06	5.32	2	C	o
40908E			.009	.986	.167	3.1	80.4	2.96	5.14	2	C	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40909			+.003	-.994	+.109	+1.6	-83.7	15.42	26.80	3	C	?
40909A			.008	.990	.141	3.3	81.9	13.24	23.01	3	C	?
40911	3356A	Curtius F	.019	.917	.398	2.7	66.5	3.40	5.91	2	C	O
40911A			.012	.915	.403	1.7	66.2	3.39	5.89	2	C	O
40913	3356	Curtius A	.017	.930	.367	2.7	68.4	7.06	12.27	1	C	O
40913A			.012	.939	.344	2.0	69.9	5.15	8.95	3	C	O
40913B			.010	.934	.357	1.6	69.1	2.97	5.16	3	C	O
40914			.014	.940	.341	2.4	70.1	3.94	6.85	2	C	O
40914A			.019	.947	.321	3.4	71.3	41.45	72.05	4	C	O
40915			.014	.953	.303	2.6	72.4	4.80	8.34	3	C	O
40915A			.018	.953	.302	3.4	72.4	2.35	4.08	2	C	O
40916			.010	.964	.266	2.2	74.6	2.41	4.19	2	C	O
40916A			.011	.967	.255	2.5	75.2	4.08	7.09	2	C	O
40916B			.018	.968	.250	4.1	75.5	3.90	6.78	3	C	O
40917	3338C	Schomberger H	.015	.976	.217	3.9	77.4	9.78	17.00	2	C	O
40917A			.011	.975	.222	2.8	77.2	3.18	5.53	3	C	O
40917B			.017	.974	.226	4.3	76.9	4.87	8.46	2	C	O
40917C			.015	.975	.222	3.9	77.2	3.39	5.89	1	C	O
40918			.010	.985	.172	3.3	80.1	7.40	12.86	2	C	O
40918A			.012	.986	.166	4.1	80.4	5.93	10.31	2	C	O
40918B			.014	.988	.154	5.2	81.1	5.06	8.80	3	C	O
40919			.018	.991	.133	7.7	82.3	4.34	7.54	1	C	O
40920			.026	.907	.420	3.5	65.1	2.60	4.52	3	C	O
40920A			.028	.908	.418	3.8	65.2	2.56	4.45	3	C	O
40921	3356B	Curtius G	.022	.913	.407	3.1	65.9	3.19	5.54	2	C	O
40921B			.029	.911	.411	4.0	65.6	3.84	6.67	3	C	O
40922			.024	.921	.389	3.5	67.1	2.89	5.02	2	C	O
40923	3357A	Curtius C	.028	.936	.351	4.6	69.4	5.92	10.29	1	C	O
40923A			.022	.932	.362	3.5	68.7	5.00	8.69	4	C	O
40924			.023	.943	.332	4.0	70.6	2.45	4.26	1	C	O
40925			.020	.951	.309	3.7	72.0	4.04	7.02	3	C	O
40925A			.029	.956	.292	5.7	72.9	3.08	5.35	2	C	O
40926	(3338E)	Simpelius P	.022	.968	.250	5.0	75.5	4.45	7.73	2	C	O
40926A			.025	.965	.261	5.5	74.8	4.98	8.66	3	C	O
40926B			.026	.963	.268	5.5	74.4	4.15	7.21	2	C	O
40927			.020	.972	.234	4.9	76.4	23.33	40.55	3	C	O
40927A			.023	.975	.221	5.9	77.2	5.52	9.59	2	C	O
40927B			.026	.977	.212	7.0	77.7	3.31	5.75	3	C	O
40928	3324B	Malapert K	.023	.981	.193	6.8	78.8	20.89	36.31	2	C	O
40928A	3324A	Malapert C	.027	.989	.145	10.5	81.5	22.73	39.51	2	C	O
40928B			.025	.984	.176	8.1	79.7	3.19	5.54	3	C	O
40928C			.026	.985	.171	8.7	80.1	3.09	5.37	2	C	O
40928D			.029	.989	.145	11.3	81.5	3.06	5.32	1	C	O
40929	3322	Malapert	.020	.996	.087	12.9	84.9	30.95	53.80	4	C	?
40929A			.029	.991	.131	12.5	82.3	13.54	23.53	2	C	?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40929B			+.024	-.999	+.038	+32.5	-87.4	26.26	45.64	2	C	?
40930			.032	.907	.420	4.4	65.1	8.39	14.58	4	C	O
40930A			.037	.907	.420	5.0	65.1	2.27	3.95	3	C	O
40931			.039	.910	.413	5.4	65.5	6.42	11.16	4	C	O
40932	3355	Curtius	.030	.922	.386	4.4	67.2	54.48	94.69	3	C	p
40932A			.035	.923	.383	5.2	67.4	2.37	4.12	3	C	O
40933			.031	.939	.343	5.2	69.9	2.31	4.02	3	C	O
40933A			.033	.932	.361	5.2	68.7	4.32	7.51	3	C	O
40933B			.034	.939	.342	5.7	69.9	2.57	4.47	4	C	O
40933C			.037	.936	.350	6.0	69.4	3.56	6.19	2	C	O
40934	3346A	Simpelius L	.039	.942	.333	6.7	70.4	8.96	15.57	3	C	O
40934A			.039	.940	.339	6.6	70.1	4.13	7.18	3	C	O
40935	3345	Simpelius C	.031	.954	.298	5.9	72.6	28.27	49.14	4	C	?
40935A			.034	.953	.301	6.4	72.4	4.11	7.14	3	C	O
40935B			.038	.954	.297	7.3	72.6	3.07	5.34	2	C	O
40936			.032	.963	.268	6.8	74.4	6.69	11.63	1	C	O
40936A			.037	.963	.267	7.9	74.4	21.20	36.85	3	C	O
40937	3338B	Schomberger G	.031	.975	.220	8.0	77.2	9.91	17.23	1	C	O
40937A	3344A	Simpelius J	.035	.971	.237	8.4	76.2	9.95	17.29	1	C	O
40937B			.038	.979	.200	10.7	78.2	21.93	38.12	3	C	O
40938			.033	.984	.175	10.7	79.7	12.40	21.55	2	C	?
40938A			.039	.982	.185	11.9	79.1	16.24	28.23	3	C	O
40938B			.034	.986	.163	11.8	80.4	9.79	17.02	2	C	O
40939	3324C	Malapert E	.036	.995	.093	21.1	84.3	9.55	16.60	2	C	O
40939A			.031	.994	.105	16.5	83.7	3.60	6.26	2	C	O
40939B			.037	.996	.081	24.5	84.9	7.08	12.31	2	C	O
40939C	3324D	Malapert F	.038	.990	.136	15.6	81.9	6.42	11.16	2	C	O
40940			.041	.902	.430	5.4	64.4	2.54	4.41	2	C	O
40940A			.045	.908	.417	6.2	65.2	2.29	3.98	1	C	O
40942			.049	.921	.386	7.2	67.1	2.15	3.74	2	C	O
40943			.040	.937	.347	6.6	69.6	2.52	4.38	2	C	O
40943A			.046	.939	.341	7.7	69.9	6.73	11.70	4	C	O
40944	3346	Simpelius D	.047	.949	.312	8.6	71.6	31.24	54.30	2	C	pp
40946	3344	Simpelius B	.045	.967	.251	10.2	75.2	28.98	50.37	3	C	O
40946A			.043	.968	.247	9.9	75.5	5.59	9.72	2	C	O
40947			.042	.975	.218	10.9	77.2	12.14	21.10	3	C	?
40947A			.045	.975	.218	11.7	77.2	7.93	13.78	1	C	O
40947B			.049	.970	.238	11.6	75.9	4.11	7.14	3	C	O
40948	3336A	Schomberger K	.044	.984	.173	14.3	79.7	8.39	14.58	2	C	O
40948A	3336B	Schomberger L	.049	.988	.146	18.5	81.1	8.34	14.50	1	C	O
40949			.041	.991	.127	17.8	82.3	7.39	12.84	3	C	O
40950			.050	.907	.418	6.8	65.1	4.86	8.45	1	C	O
40950A			.050	.909	.414	6.9	65.4	2.53	4.40	2	C	O
40950B			.058	.901	.430	7.7	64.3	2.48	4.31	2	C	O
40952	3357C	Curtius E	.055	.922	.383	8.2	67.2	9.90	17.21	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40952A			+.058	-.921	+.385	+8.6	-67.1	30.58	53.15	4	C	?
40953	3356C	Curtius H	.050	.936	.348	8.2	69.4	5.65	9.82	2	C	O
40953A			.050	.934	.354	8.0	69.1	2.26	3.93	2	C	O
40954			.057	.944	.325	9.9	70.7	2.50	4.35	2	C	O
40956			.053	.961	.271	11.0	73.9	4.03	7.00	2	C	O
40957			.050	.978	.203	13.9	78.0	3.89	6.76	2	C	O
40957A			.052	.979	.197	14.8	78.2	7.42	12.90	3	C	O
40957B			.057	.978	.201	15.9	78.0	4.24	7.37	1	C	O
40958			.055	.980	.191	16.0	78.5	8.11	14.10	3	C	O
40958A			.050	.985	.165	16.8	80.1	2.54	4.41	2	C	O
40959			.050	.994	.097	27.2	83.7	4.41	7.67	1	C	O
40959A			.055	.990	.130	22.9	81.9	9.11	15.83	2	C	O
40960	3357B	Curtius D	.060	.905	.421	8.1	64.8	25.89 35.21	45.00 61.20	3	C	p
40961	3356F	Curtius M	.062	.910	.410	8.6	65.5	3.01	5.23	2	C	O
40961A			.068	.912	.405	9.5	65.8	9.47	16.46	4	C	O
40962	3356E	Curtius L	.062	.929	.365	9.6	68.3	3.81	6.62	1	C	O
40962A			.062	.927	.370	9.5	68.0	4.43	7.70	2	C	O
40963	3356D	Curtius K	.061	.934	.352	9.8	69.1	3.43	5.96	2	C	O
40964			.061	.941	.333	10.4	70.2	2.58	4.48	2	C	O
40964A			.061	.948	.312	11.0	71.4	4.40	7.65	2	C	O
40964B	3347	Simpelius E	.065	.940	.335	11.0	70.1	25.90	45.02	3	C	O
40964C			.065	.944	.323	11.4	70.7	3.09	5.37	2	C	O
40964D			.069	.945	.320	12.2	70.9	3.60	6.26	3	C	O
40966			.062	.966	.251	13.9	75.0	5.19	9.02	3	C	O
40967	3336	Schomberger C	.060	.975	.214	15.7	77.2	24.56	42.69	2	C	?
40968	3338A	Schomberger F	.061	.985	.161	20.7	80.1	6.07	10.55	2	C	O
40968A	3334A	Schomberger J	.065	.981	.183	19.6	78.8	5.16	8.97	3	C	O
40969	3338D	Schomberger M	.064	.995	.077	39.9	84.3	9.11	15.83	2	C	?
40969A			.060	.991	.120	26.6	82.3	18.56	32.26	3	C	?
40969B			.068	.990	.124	28.8	81.9	4.75	8.26	2	C	O
40969C			.069	.996	.057	50.6	84.9	4.40	7.65	2	C	O
40973			.079	.936	.343	13.0	69.4	10.11	17.57	5	C	O
40974			.072	.946	.316	12.8	71.1	3.09	5.37	3	C	O
40974A			.073	.946	.316	13.0	71.1	22.29	38.74	4	C	O
40975	3342	Simpelius	.077	.956	.283	15.2	72.9	40.49	70.38	3	C	p
40976	3351	Simpelius K	.071	.965	.252	15.7	74.8	13.14	22.84	2	C	O
40976A			.070	.968	.241	16.2	75.5	9.48	16.48	3	C	p
40976B			.070	.962	.264	14.9	74.2	6.52	11.33	4	C	O
40977			.074	.974	.214	19.1	76.9	4.13	7.18	3	C	O
40977A			.076	.971	.227	18.5	76.2	4.32	7.51	3	C	O
40978			.071	.987	.144	26.2	80.8	18.33	31.86	3	C	O
40978A			.072	.985	.157	24.7	80.1	8.19	14.24	2	C	O
40978B			.076	.984	.161	25.2	79.7	5.21	9.06	2	C	O
40978C			.070	.980	.186	20.6	78.5	10.00	17.38	3	C	O
40979			.070	.997	.033	64.7	85.6	37.43	65.06	3	C	?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
40979A			+.075	-.992	+.102	+36.4	-82.7	3.09	5.37	2	C	O
40980A	3362	Pentland	.086	.903	.421	11.5	64.6	32.36	56.25	2	C	P
40980B			.087	.905	.416	11.8	64.8	4.32	7.51	3	C	O
40981			.082	.913	.400	11.6	65.9	21.15	36.76	3	C	O
40982	3363A	Pentland E	.087	.928	.362	13.5	68.1	6.39	11.11	1	C	O
40982A	3363	Pentland A	.090	.923	.374	13.5	67.4	25.02	43.49	2	C	O
40986			.080	.964	.254	17.5	74.6	8.94	15.54	4	C	O
40986A			.081	.966	.246	18.3	75.0	2.89	5.02	3	C	O
40986B			.083	.967	.241	19.0	75.2	3.09	5.37	3	C	O
40987			.080	.970	.230	19.2	75.9	12.16	21.14	4	C	O
40988	3334	Schomberger A	.080	.980	.182	23.7	78.5	17.78	30.90	1	C	?
40988A	3338	Schomberger E	.090	.988	.126	35.6	81.1	16.18	28.12	1	C	?
40988B			.086	.983	.162	27.9	79.4	9.35	16.25	3	C	O
40988C			.080	.985	.153	27.6	80.1	8.24	14.32	3	C	O
40991	3364	Pentland B	.098	.915	.391	14.1	66.2	17.32	30.10	2	C	O
40991A			.096	.913	.397	13.6	65.9	2.58	4.48	2	C	O
40992	3363B	Pentland P	.095	.925	.368	14.5	67.7	4.51	7.84	1	C	O
40993			.099	.931	.351	15.7	68.6	3.34	5.81	3	C	O
40994	3343	Simpelius A	.097	.940	.327	16.5	70.1	34.69	60.30	2	C	p
40994A	3343A	Simpelius M	.095	.942	.322	16.4	70.4	4.01	6.97	3	C	O
40995			.095	.959	.267	19.6	73.5	2.58	4.48	3	C	O
40996			.095	.964	.248	20.9	74.6	21.41	37.21	2	C	p
40996A			.098	.967	.235	22.6	75.2	2.26	3.93	2	C	O
40997	3333	Schomberger	.097	.973	.209	24.9	76.7	48.89	84.98	2	C	pp
40998			.090	.986	.140	32.7	80.4	12.14	21.10	1	C	?
40998A			.097	.981	.168	30.0	78.8	5.16	8.97	3	C	O
40998B			.098	.980	.173	29.5	78.5	4.54	7.89	3	C	O
40999			.091	.992	.087	46.1	82.7	2.58	4.48	2	C	O
40999A			.098	.993	.066	56.1	83.2	6.53	11.35	1	C	?
41000	835B	Rhaeticus E	.104	.002	.995	6.0	0.1	2.93	5.09	2	C	O
41002		Pickering C	.108	.027	.994	6.2	1.5	2.02	3.51	1	C	O
41003			.101	.030	.994	5.8	1.7	8.00	13.91	5	C	O
41004			.105	.045	.993	6.0	2.6	5.02	8.73	4	C	O
41006	3637	Horrocks	.102	.069	.992	5.9	4.0	17.55	30.50	2	pM	pp
41008		Hipparchus NA	.104	.088	.991	6.0	5.0	2.03	3.53	2	pM	O
41010		Rhaeticus F	.112	.003	.994	6.4	0.2	10.59 12.05	18.41 20.94	4f	C	O
41014			.111	.043	.993	6.4	2.5	3.62	6.29	5	C	O
41015			.119	.057	.991	6.8	3.3	6.21	10.79	4	C	p
41016			.119	.062	.991	6.8	3.6	2.87	4.99	4	C	O
41022	3607A	Pickering A	.123	.027	.992	7.1	1.5	2.78	4.83	2	C	O
41023	3607B	Pickering B	.129	.036	.991	7.4	2.1	3.33	5.79	1	C	O
41025	3607	Pickering	.122	.050	.991	7.0	2.9	9.20	15.99	1	C	?
41028	3609	Hipparchus G	.129	.088	.988	7.4	5.0	8.36	14.53	1	C	O
41028A			.125	.083	.989	7.2	4.8	4.88	8.48	4	C	O
41035			.133	.050	.990	7.7	2.9	13.06	22.70	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41035A			+.136	-.057	+.989	+7.8	-3.3	4.16	7.23	4	C	O
41036			.133	.068	.989	7.7	3.9	4.20	7.30	4f	C	O
41036A			.135	.062	.989	7.8	3.6	8.16	14.18	5f	C	O
41037	3615	Horrocks M	.133	.071	.989	7.7	4.1	3.07	5.34	1	C	O
41037A			.133	.075	.988	7.7	4.3	4.70	8.17	4f	C	O
41037B			.138	.075	.988	8.0	4.3	3.14	5.46	4	C	O
41038	3609A	Hipparchus W	.135	.088	.987	7.8	5.0	2.91	5.06	2	C	O
41040			.143	.009	.990	8.2	0.5	2.97	5.16	3	C	O
41041			.140	.010	.990	8.0	0.6	2.29	3.98	1	C	O
41042	3619	Lade S	.143	.024	.989	8.2	1.4	14.01	24.35	4	C	O
41048			.142	.084	.986	8.2	4.8	3.81	6.62	2	C	O
41048A			.146	.085	.986	8.4	4.9	3.97 2.64	6.90 4.59	3	C	O
41050		Lade V	.158	.004	.987	9.1	0.2	2.12	3.68	1	C	O
41050A			.154	.001	.988	8.9	0.1	4.17	7.25	3f	C	O
41051			.155	.014	.988	8.9	0.8	2.63	4.57	4	C	O
41052		Lade T	.155	.021	.988	8.9	1.2	8.97 12.10	15.59 21.03	4	C	O
41052A			.153	.027	.988	8.8	1.5	4.30	7.47	4	C	O
41053			.155	.032	.987	8.9	1.8	2.27	3.95	2	C	O
41053A			.154	.035	.987	8.9	2.0	11.76 14.71	20.44 25.57	4	C	O
41054			.150	.048	.988	8.6	2.8	3.34 1.89	5.81 3.29	3	C	O
41054A			.155	.045	.987	8.9	2.6	4.54 2.49	7.89 4.33	3	C	O
41055			.156	.057	.986	9.0	3.3	10.82 12.09	18.81 21.01	4f	C	O
41055A			.159	.051	.986	9.2	2.9	4.67	8.12	4f	C	O
41057	3621A	Saunder	.152	.075	.986	8.8	4.3	25.66	44.60	4f	C	O
41057A			.157	.079	.984	9.1	4.5	6.19 4.54	10.76 7.89	5f	C	O
41059			.150	.096	.984	8.7	5.5	6.48 4.89	11.26 8.50	4f	C	O
41060		Lade U	.166	.002	.986	9.6	0.1	2.51	4.36	2	C	O
41061	3614	Lade M	.164	.019	.986	9.4	1.1	6.14	10.67	1	C	O
41062			.161	.029	.987	9.3	1.7	10.98 6.88	19.08 11.96	4f	C	O
41064		Saunder S	.170	.041	.985	9.8	2.3	2.01	3.49	1	C	O
41072	3613A	Lade	.175	.024	.984	10.1	1.4	32.03	55.67	4f	C	O
41076	3621B	Saunder B	.170	.068	.983	9.8	3.9	3.42	5.94	1	C	O
41077			.172	.075	.982	9.9	4.3	2.53	4.40	2	C	O
41077A			.174	.077	.982	10.1	4.4	2.72 4.40	4.73 7.65	3	C	O
41077B			.176	.077	.981	10.2	4.4	3.63	6.31	3	C	O
41078			.175	.081	.981	10.1	4.6	3.93	6.83	4f	C	O
41079			.179	.094	.979	10.4	5.4	6.86 4.98	11.92 8.66	4f	C	O
41081			.180	.010	.984	10.4	0.6	2.14	3.72	2	C	O
41083			.185	.037	.982	10.7	2.1	4.70	8.17	4f	C	O
41084	3621C	Saunder C	.183	.048	.982	10.6	2.8	2.00	3.48	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41085			+.187	-.057	+.981	+10.8	-3.3	2.28	3.96	2	C	O
41086			.188	.061	.980	10.9	3.5	11.61 7.06	20.18 12.27	4f	C	O
41087		Saunder T	.181	.071	.981	10.5	4.1	3.66	6.36	1	C	O
41087A			.180	.075	.981	10.4	4.3	7.79 4.49	13.54 7.80	4	C	O
41088			.183	.085	.979	10.6	4.9	17.51 14.93	30.44 25.95	4f	C	O
41093		Lade X	.192	.030	.981	11.1	1.7	1.85	3.22	1	C	O
41096			.197	.065	.978	11.4	3.7	2.62	4.55	3	C	O
41096A			.197	.066	.978	11.4	3.8	28.70	49.88	4f	C	?
41097			.199	.076	.977	11.5	4.4	2.84	4.94	3	C	O
41103			.106	.131	.986	6.1	7.5	3.01	5.23	3	C	O
41103A			.108	.133	.985	6.3	7.6	2.00	3.48	2	C	O
41104	3595	Halley	.100	.140	.985	5.8	8.0	20.73	36.03	3f	C	O
41104A		Halley K	.101	.149	.984	5.9	8.6	2.87	4.99	3	C	O
41105			.104	.151	.983	6.0	8.7	2.06	3.58	2	C	O
41109	3586	Albategnius J	.106	.193	.975	6.2	11.1	3.72	6.47	2	C	O
41109A			.109	.195	.975	6.4	11.2	3.40	5.91	3	C	O
41112			.117	.129	.985	6.8	7.4	2.25 1.79	3.91 3.11	3	C	O
41115			.110	.153	.982	6.4	8.8	3.60	6.26	3	C	O
41116			.117	.160	.980	6.8	9.2	2.99 1.89	5.20 3.29	3	C	O
41116A			.119	.161	.980	6.9	9.3	2.99 2.19	5.20 3.81	3	C	O
41117	3595A	Halley C	.114	.172	.978	6.6	9.9	2.81	4.88	2	C	O
41117A			.111	.170	.979	6.5	9.8	2.07	3.60	2	C	O
41117B			.115	.179	.977	6.7	10.3	2.78	4.83	2	C	O
41119			.119	.199	.973	7.0	11.5	2.00	3.48	3	C	O
41122			.126	.121	.985	7.3	6.9	3.79 2.19	6.59 3.81	3	C	O
41123	3601	Hind	.127	.138	.982	7.4	7.9	16.76	29.13	2	C	O
41123A			.125	.130	.984	7.2	7.5	2.21	3.84	3	C	O
41125	3603	Hind C	.129	.151	.980	7.5	8.7	4.25	7.39	1	C	O
41126			.121	.164	.979	7.0	9.4	2.97	5.16	3	C	O
41126A			.127	.163	.978	7.4	9.4	3.20	5.56	3f	C	O
41127			.122	.176	.977	7.1	10.1	6.97 9.91	12.11 17.23	4f	C	O
41129	3581	Albategnius D	.123	.196	.973	7.2	11.3	5.08	8.83	3	C	O
41129A			.126	.194	.973	7.4	11.2	2.82	4.90	2	C	O
41131			.133	.113	.985	7.7	6.5	2.78	4.83	3	C	O
41134			.130	.146	.981	7.6	8.4	2.55	4.43	3	C	O
41136			.130	.167	.977	7.6	9.6	7.92	13.77	4f	C	O
41137			.131	.170	.977	7.6	9.8	3.96	6.88	4f	C	O
41138		Ritchey F	.132	.182	.974	7.7	10.5	2.14	3.72	2	C	O
41138A			.136	.188	.973	8.0	10.8	2.20	3.82	2	C	O
41138B			.137	.188	.973	8.0	10.8	5.53 7.97	9.61 13.85	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41139	3580A	Ritchey A	+.133	-.196	+.972	+7.8	-11.3	3.14	5.46	1	C	O
41142	3606	Hipparchus C	.142	.129	.981	8.2	7.4	9.68	16.83	1	C	O
41146			.144	.162	.976	8.4	9.3	24.13 26.54	41.94 46.13	4f	C	O
41147			.140	.178	.974	8.2	10.3	5.02	8.73	3	C	O
41148		Ritchey E	.143	.186	.972	8.4	10.7	7.53 6.92	13.09 12.03	3f	C	O
41149	3580	Ritchey	.145	.193	.970	8.5	11.1	14.08	24 47	3	C	P
41150			.158	.108	.982	9.1	6.2	2.84	4.94	3	C	O
41151	3613	Hipparchus L	.156	.119	.981	9.0	6.8	7:74	13.45	1	C	O
41153		Hipparchus CA	.158	.136	.978	9.2	7.8	2.73	4.75	2	C	O
41154	3606A	Hipparchus Z	.156	.149	.976	9.1	8.6	3.88	6.74	1	C	O
41157	3580D	Ritchey D	.158	.178	.971	9.2	10.3	3.82	6.64	1	C	O
41158	3580C	Ritchey C	.157	.190	.969	9.2	11.0	3.31	5.75	1	C	O
41160			.160	.101	.982	9.3	5.8	5.46	9.49	4	C	O
41160A			.160	.105	.982	9.3	6.0	3.90	6.78	3	C	O
41160B			.169	.105	.980	9.8	6.0	4.95	8.60	3f	C	O
41161			.162	.110	.981	9.4	6.3	2.06	3.58	3	C	O
41161A			.163	.118	.980	9.4	6.8	2.78 5.23	4.83 9.09	4	C	O
41161B			.167	.111	.980	9.7	6.4	5.35	9.30	3	C	O
41162			.160	.124	.979	9.3	7.1	2.43 3.09	4.22 5.37	3	C	O
41162A			.163	.127	.978	9.5	7.3	3.10	5.39	3	C	O
41163			.160	.137	.978	9.3	7.9	2.10 3.29	3.65 5.72	4	C	O
41163A			.164	.138	.977	9.5	7.9	4.52	7.86	3	C	O
41164			.163	.144	.976	9.5	8.3	3.14	5.46	3	C	O
41170			.175	.103	.979	10.1	5.9	5.74	9.98	4f	C	O
41172	3728A	Anděl B	.172	.128	.977	10.0	7.4	4.31	7.49	3	C	O
41172A			.174	.120	.977	10.1	6.9	4.65	8.08	3	C	O
41173			.175	.131	.976	10.2	7.5	2.14	3.72	2	C	O
41177			.178	.176	.968	10.4	10.1	3.52	6.12	3	C	O
41179		Ritchey N	.171	.193	.966	10.0	11.1	9.83	17.09	4f	C	O
41179A			.174	.198	.965	10.2	11.4	2.87	4.99	2	C	O
41180			.180	.101	.978	10.4	5.8	5.41	9.40	4f	C	O
41181			.183	.118	.976	10.6	6.8	83.14	144.51	5	C	O
41183			.184	.135	.974	10.7	7.8	5.94	10.32	3f	C	O
41187			.185	.179	.966	10.8	10.3	3.22	5.60	4	C	O
41188			.182	.180	.967	10.7	10.4	3.07	5.34	4	C	O
41189			.183	.198	.963	10.8	11.4	3.50	6.08	3	C	O
41189A			.188	.197	.962	11.1	11.4	4.90	8.52	4f	C	O
41190	3725C	Anděl K	.200	.101	.975	11.6	5.8	2.27	3.95	2	C	O
41190A			.192	.108	.975	11.1	6.2	23.45 19.90	40.76 34.59	5	C	O
41191	3725A	Anděl H	.195	.116	.974	11.3	6.7	3.44	5.98	1	C	O
41192			.191	.120	.974	11.1	6.9	5.84	10.15	4	C	p
41192A			.193	.125	.973	11.2	7.2	6.08	10.57	4f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41193	3725B	Anděl J	+.197	-.131	+.972	+11.5	-7.5	3.57	6.21	1	C	O
41193A			.190	.130	.973	11.0	7.5	4.60	8.00	3f	C	O
41194	3728	Anděl F	.191	.145	.971	11.1	8.3	5.59	9.72	1	C	O
41194A			.192	.142	.971	11.2	8.2	2.05	3.56	1	C	O
41194B			.198	.144	.970	11.5	8.3	10.56	18.35	4f	C	O
41194C			.198	.146	.969	11.5	8.4	2.05	3.56	2	C	O
41195	3729A	Anděl C	.191	.157	.969	11.2	9.0	1.98	3.44	2	C	O
41196		Anděl M	.190	.169	.967	11.1	9.7	15.67	27.24	4	C	p
41196A			.194	.162	.968	11.3	9.3	2.06	3.58	3	C	O
41197			.192	.170	.967	11.2	9.8	2.77	4.81	3	C	O
41197A		Anděl N	.194	.177	.965	11.4	10.2	4.16	7.23	3	C	O
41198	3723	Anděl A	.192	.187	.963	11.3	10.8	8.14	14.15	3	C	P
41198A			.195	.180	.964	11.4	10.4	3.46	6.01	3	C	O
41199			.194	.191	.962	11.4	11.0	3.35	5.82	4f	C	O
41200	3582D	Albategnius L	.108	.209	.972	6.3	12.1	4.04	7.02	1	C	O
41201	3582C	Albategnius T	.104	.219	.970	6.1	12.7	5.73	9.96	2	C	O
41202	3582	Albategnius E	.109	.224	.968	6.4	12.9	7.90	13.73	2	C	O
41202A			.100	.223	.970	5.9	12.9	3.02	5.25	4	C	O
41203	3582B	Albategnius S	.103	.230	.968	6.1	13.3	3.65	6.34	2	C	O
41204			.100	.242	.965	5.9	14.0	2.27	3.95	2	C	O
41207			.100	.270	.958	6.0	15.7	7.33	12.74	3	C	O
41208			.108	.288	.952	6.5	16.7	2.03	3.53	2	C	O
41212			.116	.220	.969	6.8	12.7	4.05	7.04	4	C	O
41214	3561	Burnham F	.116	.248	.962	6.9	14.4	4.93	8.57	3	C	O
41215	3561A	Burnham A	.119	.255	.960	7.1	14.8	3.87	6.73	3	C	O
41216			.116	.267	.957	6.9	15.5	2.91 4.73	5.06 8.22	4	C	O
41218	3559A	Argelander A	.113	.284	.952	6.8	16.5	5.29	9.19	1	C	O
41223		Burnham K	.126	.236	.964	7.5	13.7	1.95	3.39	2	C	O
41224	3562	Burnham	.124	.240	.963	7.3	13.9	12.85	22.34	4	C	pp
41224A		Burnham L	.128	.246	.961	7.6	14.2	2.22	3.86	1	C	O
41226	3561B	Burnham B	.122	.264	.957	7.3	15.3	2.05	3.56	2	C	O
41227			.122	.275	.954	7.3	16.0	3.74	6.50	4f	C	O
41227A			.123	.278	.953	7.4	16.1	5.35	9.30	4f	C	O
41228			.122	.284	.951	7.3	16.5	2.97	5.16	4	C	O
41229	3550	Airy A	.128	.293	.948	7.7	17.0	7.39	12.84	1	C	O
41230			.132	.206	.970	7.8	11.9	3.36	5.84	4f	C	O
41238	3550A	Airy O	.140	.288	.947	8.4	16.7	2.82	4.90	1	C	O
41238A			.132	.283	.950	7.9	16.4	2.73	4.75	4f	C	O
41238B			.137	.285	.949	8.2	16.6	9.80	17.03	5f	C	O
41240			.143	.209	.967	8.4	12.1	4.65 5.93	8.08 10.31	4f	C	O
41242			.149	.228	.962	8.8	13.2	9.31 13.87	16.18 24.11	5f	C	O
41246			.142	.263	.954	8.5	15.2	2.11	3.67	2	C	O
41246A			.147	.260	.954	8.8	15.1	8.90	15.47	5f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41247	3550B	Airy P	+.140	-.274	+.951	+8.4	-15.9	4.44	7.72	1	C	O
41248			.148	.286	.947	8.9	16.6	8.98	15.61	5f	C	O
41250	3580B	Ritchey B	.152	.207	.966	8.9	11.9	3.70	6.43	2	C	O
41250A			.153	.202	.967	9.0	11.7	4.01	6.97	3	C	O
41251			.151	.211	.966	8.9	12.2	4.51	7.84	4f	C	O
41251A			.151	.215	.965	8.9	12.4	2.47	4.29	3	C	O
41251B			.156	.217	.964	9.2	12.5	2.87	4.99	3	C	O
41252	3740A	Abulfeda G	.152	.226	.962	9.0	13.1	2.96 3.85	5.14 6.69	3	C	O
41253			.152	.237	.960	9.0	13.7	3.02	5.25	4	C	O
41254		Burnham M	.152	.243	.958	9.0	14.1	5.07	8.81	4f	C	O
41256			.159	.267	.950	9.5	15.5	2.62	4.55	3	C	O
41257			.150	.270	.951	9.0	15.7	2.42	4.21	2	C	O
41258			.155	.284	.946	9.3	16.5	5.92	10.29	4f	C	O
41259	3551B	Airy S	.156	.297	.942	9.4	17.3	3.02	5.25	1	C	O
41260			.164	.201	.966	9.6	11.6	12.17 9.29	21.15 16.15	4	C	p?
41260A			.168	.207	.964	9.9	11.9	13.36	23.22	4	C	O
41261		Ritchey M	.162	.214	.963	9.5	12.4	4.70	8.17	3f	C	O
41261A			.162	.218	.962	9.6	12.6	3.12	5.42	3	C	O
41261B		Ritchey J	.168	.214	.962	9.9	12.4	9.50	16.51	4f	C	O
41262	3740	Abulfeda D	.161	.228	.960	9.5	13.2	11.29	19.62	3f	C	O
41262A			.168	.222	.960	9.9	12.8	13.06	22.70	4	C	O
41263	3440B	Abulfeda H	.162	.239	.957	9.6	13.8	2.94	5.11	2	C	O
41265			.160	.256	.953	9.5	14.8	7.57	13.16	5	C	O
41265A		Burnham T	.161	.253	.954	9.6	14.7	2.28	3.96	2	C	O
41266	3736A	Abulfeda J	.168	.267	.949	10.0	15.5	2.65	4.61	2	C	O
41266A		Abulfeda JB	.167	.261	.951	10.0	15.1	2.48	4.31	2	C	O
41266B			.160	.266	.951	9.6	15.4	2.57	4.47	3	C	O
41267		Abulfeda JA	.169	.273	.947	10.1	15.8	2.91	5.06	2	C	O
41268	3741	Abulfeda E	.169	.288	.943	10.2	16.7	3.17	5.51	1	C	O
41268A			.165	.285	.944	9.9	16.6	9.80	17.03	5	C	O
41269			.167	.290	.942	10.0	16.9	3.21	5.58	2	C	O
41270			.170	.205	.964	10.0	11.8	12.88	22.39	5	C	O
41271			.174	.219	.960	10.3	12.7	3.04	5.28	4	C	O
41272			.173	.227	.958	10.2	13.1	3.04	5.28	2	C	O
41272A			.174	.226	.958	10.3	13.1	2.58	4.48	2	C	O
41275	3743A	Abulfeda K	.178	.257	.950	10.6	14.9	5.66	9.84	3	C	O
41275A		Abulfeda KA	.174	.258	.950	10.4	15.0	4.86	8.45	3	C	O
41275B			.175	.253	.952	10.4	14.7	7.76	13.49	5	C	O
41276			.175	.260	.950	10.4	15.1	2.62 3.83	4.55 6.66	3	C	O
41278	3736	Abulfeda A	.180	.283	.942	10.8	16.4	7.97	13.85	1	C	O
41279			.176	.290	.941	10.6	16.9	2.04	3.55	2	C	O
41281			.183	.216	.959	10.8	12.5	2.03	3.53	2	C	O
41281A			.184	.210	.960	10.8	12.1	3.62	6.29	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41282	3739	Abulfeda C	+.184	-.221	+.958	+10.9	-12.8	9.92	17.24	3	C	0
41283			.180	.238	.954	10.7	13.8	2.05	3.56	2	C	0
41284	3740C	Abulfeda L	.180	.243	.953	10.7	14.1	3.02	5.25	2	C	0
41284A			.182	.246	.952	10.8	14.2	2.10	3.65	2	C	0
41285		Abulfeda KB	.183	.258	.949	10.9	15.0	3.14	5.46	2	C	0
41285A			.185	.252	.950	11.0	14.6	2.14	3.72	2	C	0
41286	3743B	Abulfeda O	.187	.266	.946	11.2	15.4	3.80	6.60	2	C	0
41288			.187	.280	.942	11.2	16.3	3.25	5.65	3	C	0
41289			.186	.294	.938	11.2	17.1	2.28	3.96	2	C	0
41291			.191	.210	.959	11.3	12.1	3.56	6.19	4	C	0
41293			.197	.237	.951	11.7	13.7	4.61	8.01	4	C	0
41294		Abulfeda LA	.192	.240	.952	11.4	13.9	2.04	3.55	2	C	0
41296	3743C	Abulfeda P	.194	.267	.944	11.6	15.5	2.81	4.88	1	C	0
41298			.194	.284	.939	11.7	16.5	11.75	20.42	5f	C	0
41299			.195	.291	.937	11.8	16.9	3.40	5.91	3	C	0
41299A			.195	.294	.936	11.8	17.1	2.14	3.72	2	C	0
41301			.100	.319	.942	6.1	18.6	2.66	4.62	2	C	0
41302	3549A	Airy J	.101	.326	.940	6.1	19.0	2.54	4.41	1	C	0
41305			.102	.353	.930	6.3	20.7	4.71	8.19	3	C	0
41305A			.107	.356	.928	6.6	20.9	3.13	5.44	3	C	0
41308			.102	.381	.919	6.3	22.4	2.32	4.03	3	C	0
41308A			.104	.385	.917	6.5	22.6	8.33	14.48	4	C	p
41310			.119	.304	.945	7.2	17.7	23.34	40.57	5f	C	0
41312	3554	Airy G	.115	.321	.940	7.0	18.7	14.41	25.05	4f	C	0
41316		Donati K	.110	.361	.926	6.8	21.2	7.67	13.33	3	C	0
41317	3524	Playfair A	.111	.379	.919	6.9	22.3	11.56	20.09	4f	C	0
41317A			.118	.370	.922	7.3	21.7	2.55	4.43	2	C	0
41318			.112	.385	.916	7.0	22.6	6.27	10.90	5f	C	0
41319			.111	.392	.913	6.9	23.1	4.59	7.98	5	C	0
41320			.127	.301	.945	7.7	17.5	6.57	11.42	5	C	0
41320A			.128	.304	.944	7.7	17.7	4.05	7.04	3	C	0
41320B			.128	.307	.943	7.7	17.9	2.77	4.81	3	C	0
41321	3554A	Airy F	.120	.312	.942	7.3	18.2	2.93	5.09	1	C	0
41321A			.128	.310	.942	7.7	18.1	2.01	3.49	3	C	0
41322A			.129	.323	.938	7.8	18.8	28.67 23.10	49.83 40.15	5f	C	0
41324	3553A	Airy L	.124	.349	.929	7.6	20.4	4.00	6.95	1	C	0
41324A			.123	.344	.931	7.5	20.1	7.92	13.77	5f	C	0
41325	3553	Airy E	.123	.354	.927	7.6	20.7	22.08	38.38	4	C	0
41326			.125	.367	.922	7.7	21.5	4.07	7.07	3	C	0
41327			.120	.374	.920	7.4	22.0	4.69	8.15	3	C	0
41327A			.121	.379	.917	7.5	22.3	12.61	21.92	3f	C	0
41327B			.123	.379	.917	7.6	22.3	2.03	3.53	3	C	0
41327C			.127	.372	.920	7.9	21.8	2.68	4.66	3	C	0
41328			.129	.382	.915	8.0	22.5	3.09	5.37	2	C	0
41329	3524A	Playfair B	.122	.394	.911	7.6	23.2	3.36	5.84	2	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41330	3551A	Airy N	+.136	-.306	+.942	+8.2	-17.8	4.39	7.63	2	C	O
41331			.133	.314	.940	8.1	18.3	2.08	3.62	2	C	O
41331A			.135	.310	.941	8.2	18.1	2.80	4.87	2	C	O
41331B			.136	.312	.940	8.2	18.2	4.42	7.68	4	C	O
41331C		Airy D	.139	.311	.940	8.4	18.1	3.83	6.66	3	C	O
41333			.133	.335	.933	8.1	19.6	2.70	4.69	4	C	O
41337	3524E	Playfair F	.131	.373	.919	8.1	21.9	2.86	4.97	2	C	O
41338			.133	.380	.915	8.3	22.3	2.09	3.63	2	C	O
41338A			.134	.382	.914	8.3	22.5	3.73	6.48	1	C	O
41338B			.136	.388	.912	8.5	22.8	3.50	6.08	3	C	O
41338C			.137	.382	.914	8.5	22.5	2.11	3.67	1	C	O
41338D			.130	.385	.914	8.1	22.6	3.64	6.33	4	C	O
41339	(3523)	Playfair H	.136	.396	.908	8.5	23.3	2.05	3.56	1	C	O
41339A	3523	Playfair	.135	.399	.907	8.5	23.5	27.57	47.92	2f	C	O
41339B			.132	.391	.911	8.2	23.0	20.68	35.94	5	C	?
41340	3551	Airy B	.141	.303	.943	8.5	17.6	16.51	28.70	3	C	p
41341			.142	.313	.939	8.6	18.2	3.93	6.83	3	C	O
41341A			.148	.310	.939	9.0	18.1	14.15	24.59	4f	C	O
41341B			.148	.318	.936	9.0	18.5	6.03	10.48	4f	C	O
41342		Airy TA	.147	.324	.935	8.9	18.9	2.39	4.15	2	C	O
41342A			.143	.328	.934	8.7	19.1	2.81	4.88	4	C	O
41343	3554C	Airy R	.144	.335	.931	8.8	19.6	3.86	6.71	2	C	O
41343A			.141	.330	.933	8.6	19.3	2.08	3.62	2	C	O
41344			.140	.340	.930	8.6	19.9	2.33	4.05	3	C	O
41344A			.145	.347	.927	8.9	20.3	2.19	3.81	3	C	O
41345			.146	.359	.922	9.0	21.0	4.11	7.14	4	C	O
41346			.145	.369	.918	9.0	21.7	2.33	4.05	1	C	O
41346A			.149	.361	.921	9.2	21.2	2.16	3.75	2	C	O
41347	3524D	Playfair E	.144	.371	.917	8.9	21.8	3.61	6.27	2	C	O
41350		Airy V	.152	.300	.942	9.2	17.5	2.65	4.61	1	C	O
41350A			.159	.304	.939	9.6	17.7	14.56	25.31	5	C	p?
41351			.158	.310	.938	9.6	18.1	2.38	4.14	2	C	O
41352		Airy T	.155	.329	.932	9.4	19.2	23.20	40.33	4	C	O
41353			.154	.339	.928	9.4	19.8	4.67	8.12	4	C	O
41355	(3780C)	Abenezra EA	.151	.355	.923	9.3	20.8	12.10	21.03	4f	C	O
41356	3780C	Abenezra E	.153	.365	.918	9.5	21.4	7.84	13.63	4f	C	O
41356A			.154	.361	.920	9.5	21.2	7.61	13.23	4f	C	O
41357	3780D	Abenezra D	.156	.370	.916	9.7	21.7	4.12	7.16	2	C	O
41358			.150	.380	.913	9.3	22.3	10.25	17.82	4	C	?
41358A			.155	.385	.910	9.7	22.6	3.61	6.27	3	C	O
41358B			.158	.386	.909	9.9	22.7	3.86	6.71	3	C	?
41359			.155	.390	.908	9.7	23.0	7.69	13.37	3	C	O
41359A		Playfair K	.157	.395	.905	9.8	23.3	2.06	3.58	2	C	O
41362		Airy X	.167	.324	.931	10.2	18.9	2.16	3.75	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41362A			+.166	-.320	+.933	+10.1	-18.7	3.08 6.83	5.35 11.87	3	C	O
41362B			.169	.324	.931	10.3	18.9	2.11	3.67	2	C	O
41363			.165	.337	.927	10.1	19.7	6.18	10.74	4f	C	O
41364	3780B	Abenezra P	.162	.344	.925	9.9	20.1	24.33 15.09	42.29 26.23	4f	C	O
41365	3780	Abenezra B	.164	.355	.920	10.1	20.8	8.03	13.96	1	C	O
41366	3780E	Abenezra F	.168	.367	.915	10.4	21.5	3.78	6.57	2	C	O
41368	3779	Abenezra A	.168	.388	.906	10.5	22.8	13.44	23.36	2	C	O
41368A			.160	.389	.907	10.0	22.9	2.70	4.69	3	C	O
41370		Geber K	.175	.303	.937	10.6	17.6	2.95	5.13	1	C	O
41370A			.170	.304	.937	10.3	17.7	2.06	3.58	2	C	O
41370B			.174	.306	.936	10.5	17.8	2.80	4.87	3	C	O
41370C			.179	.303	.936	10.8	17.6	2.02	3.51	1	C	O
41371			.178	.310	.934	10.8	18.1	2.79	4.85	1	C	O
41371A			.176	.311	.934	10.7	18.1	2.44	4.24	2	C	O
41374		Abenezra J	.175	.340	.924	10.7	19.9	2.65	4.61	2	C	O
41375	3780F	Abenezra G	.179	.350	.919	11.0	20.5	2.91	5.06	1	C	O
41376	3780A	Abenezra C	.179	.364	.914	11.1	21.3	23.84	41.44	3	C	?
41377			.170	.373	.912	10.6	21.9	1.96	3.41	1	C	O
41380			.187	.303	.934	11.3	17.6	18.72 15.95	32.54 27.72	4f	C	O
41380A			.183	.304	.935	11.1	17.7	2.35	4.08	4	C	O
41384			.180	.344	.922	11.1	20.1	12.00	20.86	4f	C	O
41389			.188	.391	.901	11.8	23.0	5.97	10.38	3	C	O
41391			.195	.313	.930	11.8	18.2	3.25	5.65	3f	C	O
41391A			.195	.319	.927	11.9	18.6	5.29	9.19	5	C	O
41391B			.196	.316	.928	11.9	18.4	2.87	4.99	3	C	O
41392	3774A	Geber D	.194	.330	.924	11.9	19.3	2.83	4.92	2	C	O
41395	3778	Abenezra	.194	.358	.913	12.0	21.0	24.19	42.05	3	C	pp
41401		Playfair G	.106	.410	.906	6.7	24.2	59.44	103.32	4	C	O
41403	3514	Apianus A	.103	.434	.895	6.6	25.7	7.84	13.63	2	C	O
41403A			.104	.438	.893	6.6	26.0	5.99	10.41	3	C	O
41404			.108	.445	.889	6.9	26.4	2.16	3.75	1	C	O
41407		Apianus X	.109	.474	.874	7.1	28.3	1.55	2.69	1	C	O
41409		Aliacensis X	.104	.494	.863	6.9	29.6	2.09	3.63	2	C	O
41412			.110	.426	.898	7.0	25.2	6.47	11.25	5	C	O
41413		Apianus W	.118	.432	.894	7.5	25.6	5.27	9.16	3	C	O
41414			.119	.441	.890	7.6	26.2	3.34	5.81	3	C	O
41416			.114	.469	.876	7.4	28.0	2.67	4.64	2	C	O
41417	3513A	Apianus G	.118	.471	.874	7.7	28.1	2.91	5.06	1	C	O
41417A			.115	.474	.873	7.5	28.3	2.19	3.81	2	C	O
41417B			.117	.476	.872	7.6	28.4	2.00	3.48	2	C	O
41418			.116	.486	.866	7.6	29.1	6.80	11.82	5	C	O
41419	3497	Aliacensis A	.113	.495	.862	7.5	29.7	7.91	13.75	3	C	p
41421	3524B	Playfair C	.126	.412	.902	7.9	24.3	3.03	5.27	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41425	3513	Apianus	+.122	-.453	+.883	+7.9	-26.9	38.15	66.31	2f	C	O
41427			.124	.479	.869	8.1	28.6	3.88	6.74	4	C	O
41428	3518	Apianus E	.125	.482	.867	8.2	28.8	5.03	8.74	2	C	O
41428A			.121	.482	.868	7.9	28.8	2.28	3.96	3	C	O
41431	3524C	Playfair D	.139	.411	.901	8.8	24.3	2.86	4.97	1	C	O
41432			.134	.428	.894	8.5	25.3	5.95	10.34	5	C	O
41432A			.130	.426	.895	8.3	25.2	2.04	3.55	2	C	O
41432B			.130	.423	.897	8.2	25.0	2.44	4.24	2	C	O
41433		Apianus S	.133	.433	.892	8.5	25.7	5.43	9.44	2	C	O
41433A			.130	.431	.893	8.3	25.5	4.85	8.43	5	C	O
41433B			.133	.437	.890	8.5	25.9	5.56	9.66	3	C	O
41434	3513B	Apianus J	.134	.443	.886	8.6	26.3	3.88	6.74	2	C	O
41434A			.139	.445	.885	8.9	26.4	3.58	6.22	3	C	O
41436	3515	Apianus B	.139	.460	.877	9.0	27.4	6.00	10.43	1	C	O
41436A		Apianus U	.139	.467	.873	9.0	27.8	9.04	15.71	3	C	O
41437	3515A	Apianus H	.134	.471	.872	8.7	28.1	3.99	6.94	2	C	O
41437A			.139	.476	.868	9.1	28.4	2.16	3.75	1	C	O
41438			.133	.483	.865	8.7	28.9	2.65	4.61	3	C	O
41438A			.137	.485	.864	9.0	29.0	5.50	9.56	4	C	O
41439	3502	Poisson A	.138	.496	.857	9.1	29.7	9.90	17.21	2	C	O
41441		Playfair J	.148	.411	.900	9.3	24.3	2.28	3.96	2	C	O
41442	3518A	Apianus P	.143	.426	.893	9.1	25.2	28.48	49.50	4	C	O
41443		Apianus R	.140	.435	.889	8.9	25.8	7.69	13.37	4	C	O
41443A			.148	.438	.887	9.5	26.0	11.16 7.91	19.40 13.75	4	C	O
41446	3515B	Apianus K	.144	.461	.876	9.3	27.5	3.88	6.74	1	C	O
41446A			.140	.465	.874	9.1	27.7	2.52	4.38	3	C	O
41446B		Apianus T	.146	.466	.873	9.5	27.8	6.73	11.70	3	C	O
41447			.140	.470	.871	9.1	28.0	4.77	8.29	3	C	O
41447A			.140	.478	.867	9.2	28.6	2.65	4.61	3	C	O
41449			.145	.494	.857	9.6	29.6	2.80	4.87	2	C	O
41449A			.145	.492	.858	9.6	29.5	3.32	5.77	3	C	O
41450			.151	.408	.900	9.5	24.1	7.85	13.64	5	C	O
41450A			.155	.406	.901	9.8	24.0	2.97	5.16	2	C	O
41450B			.154	.401	.903	9.7	23.6	9.37	16.29	5	C	O
41451			.153	.414	.897	9.7	24.5	2.75	4.78	4	C	O
41454			.152	.445	.883	9.8	26.4	11.52	20.02	4	C	O
41454A			.152	.448	.881	9.8	26.6	2.39	4.15	3	C	O
41454B			.151	.446	.882	9.7	26.5	2.16	3.75	3	C	O
41455			.154	.458	.876	10.0	27.3	2.14	3.72	1	C	O
41455A			.154	.457	.876	10.0	27.2	4.10	7.13	3	C	O
41456			.151	.465	.872	9.8	27.7	7.91	13.75	4	C	O
41456A			.155	.461	.874	10.1	27.5	4.50	7.82	3	C	O
41456B			.158	.465	.871	10.3	27.7	2.76	4.80	2	C	p?
41458		Apianus N	.151	.483	.863	9.9	28.9	2.09	3.63	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41459			+.153	-.492	+.857	+10.1	-29.5	2.23	3.88	3	C	O
41459A		Poisson Z	.158	.494	.855	10.5	29.6	2.78	4.83	2	C	O
41460			.162	.401	.902	10.2	23.6	3.83	6.66	2	C	O
41460A			.162	.403	.901	10.2	23.8	3.42	5.94	2	C	O
41461	3517A	Apianus M	.163	.419	.893	10.3	24.8	3.97	6.90	1	C	O
41462		Apianus V	.165	.427	.889	10.5	25.3	2.42	4.21	2	C	O
41464	3517	Apianus D	.167	.440	.882	10.7	26.1	20.00	34.76	3	C	O
41465			.160	.450	.879	10.3	26.7	2.70	4.69	3	C	O
41465A			.167	.458	.873	10.8	27.3	2.94	5.11	3	C	O
41466			.167	.460	.872	10.8	27.4	2.92	5.08	3	C	O
41466A			.160	.460	.873	10.4	27.4	5.33	9.26	3	C	O
41467	3516	Apianus C	.161	.471	.867	10.5	28.1	11.70	20.34	2	C	p?
41467A			.168	.473	.865	11.0	28.2	5.57	9.68	3	C	O
41467B		Apianus CA	.168	.478	.862	11.0	28.6	2.95	5.13	2	C	O
41468	3516A	Apianus L	.165	.486	.858	10.9	29.1	2.87	4.99	1	C	O
41468A			.163	.482	.861	10.7	28.8	2.20	3.82	2	C	O
41468B			.160	.480	.863	10.5	28.7	6.05	10.52	3	C	O
41469			.163	.496	.853	10.8	29.7	3.99	6.94	3	C	O
41470	3784A	Azophi B	.170	.400	.901	10.7	23.6	11.10	19.29	2	C	p?
41471	3784	Azophi A	.178	.413	.893	11.3	24.4	16.76	29.13	2	C	O
41471A		Azophi AA	.178	.415	.892	11.3	24.5	1.95	3.39	2	C	O
41472			.177	.425	.888	11.3	25.2	2.08	3.62	2	C	O
41472A			.175	.420	.890	11.1	24.8	2.03	3.53	2	C	O
41473			.176	.430	.886	11.2	25.5	3.91	6.80	4	C	O
41473A			.172	.431	.886	11.0	25.5	3.99	6.94	3	C	O
41475			.177	.454	.873	11.5	27.0	2.05	3.56	2	C	O
41476	3815	Pontanus F	.178	.467	.866	11.6	27.8	5.88	10.22	1	C	O
41476A			.173	.467	.867	11.3	27.8	4.63	8.05	5	C	O
41476B			.178	.462	.869	11.6	27.5	4.07	7.07	3	C	O
41477			.170	.477	.862	11.2	28.5	6.22	10.81	4	C	O
41478			.170	.480	.861	11.2	28.7	2.26	3.93	2	C	O
41479	3501C	Poisson S	.172	.500	.849	11.5	30.0	2.41	4.19	1	C	O
41479A			.175	.492	.853	11.6	29.5	2.52	4.38	3	C	O
41479B			.176	.494	.851	11.7	29.6	7.72	13.42	5	C	O
41479C			.178	.498	.849	11.8	29.9	2.06	3.58	2	C	O
41483		Azophi H	.186	.431	.883	11.9	25.5	12.11	21.05	4f	C	O
41483A			.183	.436	.881	11.7	25.8	2.09	3.63	2	C	O
41483B		Azophi HA	.180	.434	.883	11.5	25.7	3.42	5.94	2	C	O
41484			.180	.446	.877	11.6	26.5	4.40	7.65	3	C	O
41485			.189	.454	.871	12.2	27.0	13.59	23.62	4	C	p?
41486			.186	.461	.868	12.1	27.5	12.88	22.39	3	C	O
41488		Poisson X	.186	.485	.855	12.3	29.0	2.95	5.13	2	C	O
41489		Poisson W	.180	.494	.851	11.9	29.6	1.92	3.34	2	C	O
41489A			.188	.493	.849	12.5	29.5	2.04	3.55	3	C	O
41489B			.189	.490	.851	12.5	29.3	2.05	3.56	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41490		Azophi G	+.195	-.405	+.893	+12.3	-23.9	30.48	52.98	3	C	O
41493	3813A	Pontanus K	.198	.434	.879	12.7	25.7	5.52	9.59	1	C	O
41494			.193	.442	.876	12.4	26.2	12.50	21.73	4	C	O
41494A			.196	.446	.873	12.6	26.5	16.27	28.28	4	C	O
41496		Pontanus Z	.197	.468	.861	12.9	27.9	2.92	5.08	1	C	O
41496A			.198	.469	.861	13.0	28.0	4.05	7.04	2	C	O
41498			.195	.481	.855	12.9	28.8	2.14	3.72	2	C	O
41502			.104	.520	.848	7.0	31.3	2.44	4.24	2	C	O
41503			.106	.538	.836	7.2	32.5	2.29	3.98	2	C	O
41504	3499	Aliacensis D	.100	.547	.831	6.9	33.2	5.68	9.87	1	C	O
41504A	3508	Poisson H	.108	.545	.831	7.4	33.0	12.91	22.44	3	C	O
41505			.105	.551	.828	7.2	33.4	3.74	6.50	3	C	O
41505A			.105	.559	.822	7.3	34.0	4.69	8.15	3	C	O
41506			.108	.565	.818	7.5	34.4	6.84 9.67	11.89 16.81	2	C	O
41506A		Kaiser R	.104	.563	.820	7.2	34.3	2.03	3.53	1	C	O
41506B			.102	.567	.817	7.1	34.5	3.73	6.48	4	C	O
41506C			.106	.561	.821	7.4	34.1	3.17	5.51	3	C	O
41507	3464C	Kaiser E	.102	.572	.814	7.1	34.9	3.80	6.60	2	C	O
41507A			.109	.570	.814	7.6	34.8	5.60	9.73	4	C	O
41507B			.104	.575	.812	7.3	35.1	8.03	13.96	4	C	O
41508			.107	.582	.806	7.6	35.6	4.47	7.77	3f	C	O
41508A			.105	.581	.807	7.4	35.5	5.79	10.06	3f	C	O
41508B			.102	.584	.805	7.2	35.7	5.89	10.24	4	C	O
41508C			.103	.588	.802	7.3	36.0	2.36	4.10	2	C	O
41509	3464A	Kaiser A	.102	.592	.799	7.3	36.3	12.04 7.92	20.93 13.77	2	C	O
41510		Aliacensis Y	.111	.501	.858	7.4	30.1	3.02	5.25	2	C	O
41510A			.110	.504	.857	7.3	30.3	3.04	5.28	3	C	O
41510B			.115	.504	.856	7.7	30.3	2.36	4.10	3	C	O
41512	3505	Poisson D	.115	.521	.846	7.7	31.4	6.71	11.66	3	C	O
41512A		Poisson G	.110	.526	.843	7.4	31.7	9.13	15.87	3	C	O
41512B			.114	.528	.842	7.7	31.9	2.02	3.51	2	C	O
41513		Poisson GA	.115	.531	.840	7.8	32.1	7.94	13.80	3	C	O
41514			.116	.547	.829	8.0	33.2	2.07	3.60	2	C	O
41514A			.110	.540	.834	7.5	32.7	2.40	4.17	2	C	O
41514B			.114	.549	.828	7.8	33.3	3.47 6.31	6.03 10.97	4	C	O
41515	3507A	Poisson M	.111	.558	.822	7.7	33.9	4.14	7.20	2	C	O
41515A	3507	Poisson F	.117	.555	.824	8.1	33.7	7.80	13.56	3	C	O
41515B			.117	.550	.827	8.1	33.4	2.02	3.51	2	C	O
41516			.111	.562	.820	7.7	34.2	2.60	4.52	2	C	O
41517			.119	.571	.812	8.3	34.8	2.01	3.49	2	C	O
41518			.110	.589	.801	7.8	36.1	12.91	22.44	3	C	O
41518A			.113	.588	.801	8.0	36.0	2.06	3.58	1	C	O
41519			.115	.596	.795	8.2	36.6	13.82	24.02	4	C	O
41520	3502A	Poisson R	.127	.500	.857	8.4	30.0	2.95	5.13	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41520A			+.127	-.509	+.851	+8.5	-30.6	2.93	5.09	1	C	0
41520B			.122	.501	.857	8.1	30.1	2.61	4.54	3	C	p?
41521	3501A	Poisson N	.126	.511	.850	8.4	30.7	2.34	4.07	1	C	0
41522			.120	.529	.840	8.1	31.9	2.06	3.58	2	C	0
41523			.126	.533	.837	8.6	32.2	13.86	24.09	3	C	0
41524	3504	Poisson C	.128	.546	.828	8.8	33.1	14.69	25.53	3	C	0
41524A	3505A	Poisson L	.120	.540	.833	8.2	32.7	9.19	15.97	3	C	0
41524B			.127	.541	.831	8.7	32.8	2.59	4.50	2	C	0
41524C			.122	.549	.827	8.4	33.3	4.62	8.03	3	C	0
41525	(3506)		.124	.559	.820	8.6	34.0	6.28	10.92	3	C	0
41526	(3506)	Poisson E	.124	.562	.818	8.6	34.2	7.76	13.49	3	C	0
41526A			.129	.560	.818	9.0	34.1	2.83	4.92	3	C	0
41526B			.120	.565	.816	8.4	34.4	2.23	3.88	2	C	0
41527	3509	Poisson J	.120	.574	.810	8.4	35.0	16.46	28.61	3	C	p?
41527A			.126	.571	.811	8.8	34.8	2.47	4.29	4	C	0
41527B			.129	.572	.810	9.0	34.9	2.90	5.04	3	C	0
41528			.125	.583	.803	8.9	35.7	8.63	15.00	3	C	0
41528A			.121	.580	.806	8.5	35.5	2.33	4.05	2	C	0
41528B			.125	.580	.805	8.8	35.5	5.25	9.13	4	C	0
41529			.127	.592	.796	9.1	36.3	4.62	8.03	4	C	0
41530			.132	.504	.854	8.8	30.3	11.90	20.68	5	C	0
41530A			.135	.509	.850	9.0	30.6	2.19	3.81	2	C	0
41531		Poisson T	.137	.515	.846	9.2	31.0	14.46	25.13	5	C	0
41532	3501B	Poisson P	.131	.528	.839	8.9	31.9	4.02	6.99	1	C	0
41532A			.137	.523	.841	9.2	31.5	4.80	8.34	3	C	0
41532B			.135	.521	.843	9.1	31.4	2.37	4.12	1	C	0
41533			.131	.533	.836	8.9	32.2	3.71	6.45	3	C	0
41533A			.137	.530	.837	9.3	32.0	2.37	4.12	1	C	0
41534			.134	.547	.826	9.2	33.2	2.39	4.15	2	C	0
41535			.136	.557	.819	9.4	33.8	2.17	3.77	2	C	0
41536			.137	.565	.814	9.6	34.4	2.58	4.48	3	C	0
41537	3506A	Poisson O	.131	.574	.808	9.2	35.0	2.46	4.28	1	C	0
41537A		Gemma Frisius Z	.137	.576	.806	9.6	35.2	5.68	9.87	2	C	0
41537B			.132	.571	.810	9.3	34.8	2.32	4.03	3	C	0
41537C			.131	.578	.805	9.2	35.3	3.04	5.28	2	C	0
41539	3463	Kaiser C	.135	.596	.792	9.7	36.6	7.16	12.45	1	C	0
41540			.149	.506	.850	9.9	30.4	8.02	13.94	4	C	0
41543		Poisson Q	.149	.539	.829	10.2	32.6	16.14	28.05	3	C	0
41543A			.143	.530	.836	9.7	32.0	6.97	12.11	3	C	0
41544	3509A	Poisson K	.140	.540	.830	9.6	32.7	7.58	13.18	2	C	0
41544A			.140	.549	.824	9.6	33.3	2.79	4.85	2	C	0
41545			.140	.559	.817	9.7	34.0	7.85	13.64	5	C	0
41546			.140	.562	.815	9.7	34.2	2.43	4.22	2	C	0
41546A			.144	.562	.815	10.0	34.2	2.60	4.52	3	C	0
41546B			.141	.569	.810	9.9	34.7	2.36	4.10	2	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41547			+.143	-.574	+.806	+10.1	-35.0	7.29	12.67	5	C	O
41547A			.140	.572	.808	9.8	34.9	3.18	5.53	2	C	O
41548	3823A	Gemma Frisius F	.146	.585	.798	10.4	35.8	5.14	8.93	2	C	O
41548A			.142	.582	.801	10.1	35.6	2.77	4.81	3	C	O
41549		Gemma Frisius FA	.147	.591	.793	10.5	36.2	2.89	5.02	2	C	O
41550	3501	Poisson	.159	.506	.848	10.6	30.4	25.52	44.36	4	C	O
41552			.155	.521	.839	10.5	31.4	3.12	5.42	4	C	O
41552A		Poisson U	.152	.524	.838	10.3	31.6	14.48	25.17	3	C	O
41552B			.155	.524	.837	10.5	31.6	2.91	5.06	4	C	O
41553		Poisson V	.156	.530	.834	10.6	32.0	8.71	15.14	3	C	O
41554			.154	.548	.822	10.6	33.2	2.35	4.08	3	C	O
41555			.155	.551	.820	10.7	33.4	2.14	3.72	2	C	O
41555A			.155	.550	.821	10.7	33.4	2.37	4.12	3	C	O
41555B			.152	.554	.819	10.5	33.6	2.25	3.91	3	C	O
41555C			.153	.556	.817	10.6	33.8	2.31	4.02	2	C	O
41556	3823	Gemma Frisius D	.156	.564	.811	10.9	34.3	15.79	27.45	2	C	pp
41557			.150	.576	.804	10.6	35.2	2.54	4.41	3	C	O
41557A			.153	.578	.802	10.8	35.3	2.89	5.02	3	C	O
41557B			.154	.574	.804	10.8	35.0	2.39	4.15	1	C	O
41558			.152	.581	.800	10.8	35.5	3.99	6.94	2	C	O
41558A			.157	.589	.793	11.2	36.1	2.40	4.17	3	C	O
41558B			.158	.582	.798	11.2	35.6	2.43	4.22	2	C	O
41558C			.158	.581	.798	11.2	35.5	2.39	4.15	2	C	O
41559			.158	.591	.791	11.3	36.2	4.72	8.20	2	C	O
41559A			.159	.594	.789	11.4	36.4	8.01	13.92	3	C	O
41559B			.152	.596	.788	10.9	36.6	4.79	8.33	3	C	O
41559C			.154	.599	.786	11.1	36.8	6.87	11.94	5	C	O
41559D			.153	.593	.791	11.0	36.4	2.78	4.83	2	C	O
41559E			.150	.593	.791	10.7	36.4	2.16	3.75	2	C	O
41560			.161	.509	.846	10.8	30.6	2.19	3.81	2	C	O
41560A			.162	.507	.847	10.8	30.5	2.91	5.06	3	C	O
41561	3503	Poisson B	.163	.512	.843	10.9	30.8	6.42	11.16	3	C	O
41563			.167	.536	.828	11.4	32.4	4.06	7.06	3	C	O
41563A			.168	.532	.830	11.4	32.1	2.89	5.02	3	C	O
41564	3826	Gemma Frisius G	.166	.548	.820	11.4	33.2	21.47	37.32	4	C	O
41564A			.167	.543	.823	11.5	32.9	3.48	6.05	3	C	O
41567	3819A	Gemma Frisius L	.169	.570	.804	11.9	34.8	3.70	6.43	3	C	O
41567A			.161	.570	.806	11.3	34.8	26.65	46.32	5	C	?
41567B			.164	.573	.803	11.5	35.0	2.77	4.81	2	C	O
41568			.167	.584	.794	11.9	35.7	2.19	3.81	2	C	O
41569	3824B	Gemma Frisius EA	.167	.598	.784	12.0	36.7	7.70	13.38	1	C	O
41569A			.165	.594	.787	11.8	36.4	2.48	4.31	3	C	O
41572			.174	.525	.833	11.8	31.7	10.53	18.30	5	C	O
41573	3827	Gemma Frisius H	.179	.536	.825	12.2	32.4	16.27	28.28	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41574			+.170	-.542	+.823	+11.7	-32.8	2.60	4.52	3	C	O
41575			.172	.552	.816	11.9	33.5	7.67	13.33	2	C	O
41575A			.175	.558	.811	12.2	33.9	4.62	8.03	3	C	O
41575B			.174	.555	.813	12.1	33.7	4.50 2.09	7.82 3.63	2	C	O
41576	3819B	Gemma Frisius M	.178	.563	.807	12.4	34.3	2.85	4.95	1	C	O
41576A			.171	.565	.807	12.0	34.4	5.76	10.01	3	C	O
41578			.176	.585	.792	12.5	35.8	2.79	4.85	2	C	O
41578A			.176	.588	.789	12.6	36.0	2.15	3.74	2	C	O
41579			.172	.599	.782	12.4	36.8	5.04	8.76	2	C	O
41579A			.170	.594	.786	12.2	36.4	2.69	4.68	3	C	O
41579B			.176	.595	.784	12.6	36.5	4.74	8.24	3	C	O
41581			.181	.513	.839	12.2	30.9	26.24	45.61	4	C	p?
41582	3819D	Gemma Frisius P	.188	.526	.829	12.8	31.7	2.56	4.45	2	C	O
41582A			.181	.524	.832	12.3	31.6	10.38	18.04	5	C	O
41583	3819C	Gemma Frisius O	.188	.538	.822	12.9	32.5	3.25	5.65	2	C	O
41584			.188	.540	.820	12.9	32.7	3.17	5.51	2	C	O
41584A			.182	.540	.822	12.5	32.7	3.12	5.42	2	C	O
41584B			.180	.545	.819	12.4	33.0	7.62 12.78	13.24 22.21	3	C	O
41585			.185	.550	.814	12.8	33.4	2.44	4.24	2	C	O
41585A			.188	.550	.814	13.0	33.4	2.31	4.02	2	C	O
41585B			.183	.550	.815	12.7	33.4	2.54	4.41	2	C	O
41588			.183	.585	.790	13.0	35.8	5.22	9.07	3	C	O
41588A			.182	.580	.794	12.9	35.5	2.87	4.99	2	C	O
41589			.184	.594	.783	13.2	36.4	9.67	16.81	3	C	pp
41589A			.180	.591	.786	12.9	36.2	3.14	5.46	2	C	O
41590	3809A	Pontanus J	.197	.501	.843	13.2	30.1	5.09	8.85	2	C	O
41590A			.196	.509	.838	13.2	30.6	3.14	5.46	3	C	O
41591			.197	.513	.835	13.3	30.9	3.87	6.73	4	C	O
41592			.195	.523	.830	13.2	31.5	4.64	8.07	3	C	O
41592A			.190	.523	.831	12.9	31.5	2.96	5.14	4	C	O
41593			.198	.531	.824	13.5	32.1	2.97	5.16	2	C	O
41593A			.198	.535	.821	13.6	32.3	5.02	8.73	3	C	O
41593B			.191	.539	.820	13.1	32.6	2.47	4.29	3	C	O
41593C			.192	.532	.825	13.1	32.1	2.66	4.62	2	C	O
41594	3825A	Goodacre A	.196	.542	.817	13.5	32.8	5.93	10.31	3	C	O
41594A			.191	.548	.814	13.2	33.2	2.26	3.93	1	C	O
41596	3819	Gemma Frisius	.191	.564	.803	13.4	34.3	50.48	87.74	3	C	O
41596A			.198	.567	.800	13.9	34.5	2.57	4.47	3	C	O
41597			.197	.574	.795	13.9	35.0	6.23	10.83	2	C	O
41597A			.194	.579	.792	13.8	35.4	6.71	11.66	2	C	O
41599			.195	.592	.782	14.0	36.3	2.57	4.47	2	C	O
41599A			.195	.598	.777	14.1	36.7	6.51	11.32	3	C	?
41599B			.192	.594	.781	13.8	36.4	2.37	4.12	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41599C			+.194	-.591	+.783	+13.9	-36.2	2.02	3.51	3	C	0
41600	3464D	Kaiser D	.103	.602	.792	7.4	37.0	2.65	4.61	2	C	0
41600A			.106	.602	.791	7.6	37.0	2.99	5.20	3	C	0
41601			.103	.617	.780	7.5	38.1	2.32	4.03	3	C	0
41601A			.100	.615	.782	7.3	38.0	2.66	4.62	4	C	0
41602			.106	.628	.771	7.8	38.9	6.94	12.06	5	C	?
41603	3438	Stöfler L	.107	.631	.768	7.9	39.1	10.02	17.42	3	C	p
41603A			.104	.634	.766	7.7	39.3	5.50	9.56	3	C	0
41603B			.107	.636	.764	8.0	39.5	2.00	3.48	2	C	0
41605	3439	Stöfler M	.106	.655	.748	8.1	40.9	4.99	8.67	2	C	0
41605A			.104	.659	.745	7.9	41.2	4.79	8.33	3	C	0
41605B			.109	.657	.746	8.3	41.1	3.29	5.72	3	C	0
41606			.104	.660	.744	8.0	41.3	28.13	48.89	5	C	?
41608	3431	Faraday C	.102	.685	.721	8.0	43.2	17.05	29.64	2	C	pp
41609			.107	.693	.713	8.5	43.9	3.53	6.14	3	C	0
41609A			.105	.699	.707	8.4	44.3	6.48	11.26	3	C	0
41610			.112	.609	.785	8.1	37.5	3.04	5.28	2	C	0
41610A			.111	.604	.789	8.0	37.2	3.59	6.24	3	C	0
41610B			.110	.602	.791	7.9	37.0	4.05	7.04	3	C	0
41612			.117	.629	.769	8.7	39.0	2.21	3.84	3	C	0
41613	3438A	Stöfler T	.110	.638	.762	8.2	39.6	3.05	5.30	2	C	0
41615			.119	.653	.748	9.0	40.8	2.95	5.13	3	C	0
41616			.112	.662	.741	8.6	41.5	2.39	4.15	2	C	0
41617	3451	Faraday	.112	.675	.729	8.7	42.5	39.96	69.46	3	C	p
41617A			.115	.670	.733	8.9	42.1	2.31	4.02	3	C	0
41618			.117	.682	.722	9.2	43.0	4.77	8.29	3	C	0
41618A			.112	.686	.719	8.9	43.3	7.93	13.78	4	C	0
41619			.115	.693	.712	9.2	43.9	5.72	9.94	3	C	0
41619A			.117	.697	.707	9.4	44.2	5.93	10.31	3	C	0
41619B			.119	.698	.706	9.6	44.3	2.77	4.81	2	C	0
41619C			.117	.690	.714	9.3	43.6	2.19	3.81	2	C	0
41619D			.110	.696	.710	8.8	44.1	2.31	4.02	2	C	0
41620			.124	.606	.786	9.0	37.3	20.29	35.27	5	C	0
41621			.122	.619	.776	8.9	38.2	4.68	8.13	3	C	p?
41621A			.128	.617	.776	9.4	38.1	9.51	16.53	5	C	0
41622			.122	.622	.773	9.0	38.5	3.39	5.89	3	C	0
41623			.123	.630	.767	9.1	39.1	2.52	4.38	3	C	0
41623A			.125	.631	.766	9.3	39.1	3.19	5.54	3	C	0
41623B			.128	.635	.762	9.5	39.4	2.05	3.56	4	C	0
41623C			.126	.633	.764	9.4	39.3	2.19	3.81	2	C	0
41623D			.125	.638	.760	9.3	39.6	2.91	5.06	3	C	0
41624	3439A	Stöfler U	.128	.645	.753	9.6	40.2	3.75	6.52	2	C	0
41624A			.125	.640	.758	9.4	39.8	5.04	8.76	3	C	0
41625			.120	.651	.750	9.1	40.6	2.95	5.13	3	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41626	3430	Faraday A	+.127	-.662	+.739	+9.8	-41.5	12.06	20.96	3	C	O
41627			.123	.675	.727	9.6	42.5	2.12	3.68	3	C	O
41629	3432	Faraday D	.121	.691	.713	9.6	43.7	7.79	13.54	1	C	O
41629A			.129	.690	.712	10.3	43.6	5.34	9.28	3	C	O
41632	3848A	Maurolycus E	.133	.621	.772	9.8	38.4	3.51	6.10	3	C	O
41632A			.137	.627	.767	10.1	38.8	2.62	4.55	1	C	O
41632B			.136	.620	.773	10.0	38.3	2.91	5.06	3	C	O
41633			.138	.638	.758	10.3	39.6	8.89	15.45	3	C	O
41634			.135	.644	.753	10.2	40.1	4.09	7.11	3	C	O
41634A			.133	.647	.751	10.0	40.3	2.18	3.79	3	C	O
41634B			.139	.640	.756	10.4	39.8	2.46	4.28	3	C	O
41635			.133	.652	.746	10.1	40.7	2.14	3.72	3	C	O
41636			.137	.668	.731	10.6	41.9	2.05	3.56	3	C	O
41637	3451A	Faraday K	.132	.678	.723	10.3	42.7	3.48	6.05	2	C	O
41637A			.138	.672	.728	10.7	42.2	2.06	3.58	3	C	O
41637B			.139	.674	.726	10.8	42.4	2.68	4.66	3	C	O
41640			.141	.606	.783	10.2	37.3	2.20	3.82	4	C	O
41640A			.141	.605	.784	10.2	37.2	2.43	4.22	3	C	O
41640B			.145	.607	.781	10.5	37.4	2.37	4.12	3	C	O
41641	3849A	Maurolycus H	.142	.619	.772	10.4	38.2	4.24	7.37	3	C	O
41641A			.147	.613	.776	10.7	37.8	2.25	3.91	2	C	O
41641B			.145	.615	.775	10.6	38.0	2.30	4.00	1	C	O
41642	3849	Maurolycus C	.146	.625	.767	10.8	38.7	5.03	8.74	2	C	O
41642A			.150	.630	.762	11.1	39.1	2.79	4.85	1	C	O
41642B			.149	.620	.770	10.9	38.3	2.67	4.64	2	C	O
41642C			.143	.629	.764	10.6	39.0	2.26	3.93	3	C	O
41643			.149	.632	.761	11.1	39.2	2.23	3.88	2	C	O
41643A			.142	.634	.760	10.6	39.3	2.47	4.29	3	C	O
41643B			.140	.635	.760	10.4	39.4	3.99	6.94	3	C	O
41644			.140	.642	.754	10.5	39.9	2.05	3.56	3	C	O
41644A			.145	.642	.753	10.9	39.9	4.20	7.30	5	C	O
41644B			.145	.644	.751	10.9	40.1	2.79	4.85	1	C	O
41645	3854A	Maurolycus T	.149	.660	.736	11.4	41.3	5.68	9.87	3	C	O
41645A			.148	.653	.743	11.3	40.8	2.31	4.02	3	C	O
41645B			.148	.650	.745	11.2	40.5	32.05	55.71	4	C	O
41646			.145	.665	.733	11.2	41.7	2.04	3.55	3	C	O
41646A			.145	.662	.735	11.2	41.5	2.42	4.21	2	C	O
41647			.146	.673	.725	11.4	42.3	3.90	6.78	3	C	O
41647A			.145	.672	.726	11.3	42.2	3.65	6.34	3	C	O
41647B			.141	.670	.729	10.9	42.1	3.79	6.59	3	C	O
41647C			.141	.671	.728	11.0	42.1	3.72	6.47	3	C	O
41648			.140	.682	.718	11.0	43.0	7.86	13.66	4	C	O
41648A			.143	.682	.717	11.3	43.0	3.06	5.32	2	C	O
41649			.140	.692	.708	11.2	43.8	2.73	4.75	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41650	3824A	Gemma Frisius K	+.151	-.608	+.779	+11.0	-37.4	5.98	10.39	1	C	O
41650A			.157	.605	.781	11.4	37.2	2.77	4.81	3	C	O
41650B			.152	.605	.782	11.0	37.2	2.31	4.02	3	C	O
41651			.159	.614	.773	11.6	37.9	3.84	6.67	3	C	O
41652			.154	.624	.766	11.4	38.6	2.67	4.64	3	C	O
41652A			.158	.620	.769	11.6	38.3	2.25	3.91	5	C	O
41652B			.157	.623	.766	11.6	38.5	3.06	5.32	4	C	O
41652C			.156	.625	.765	11.5	38.7	2.23	3.88	4	C	O
41652D			.155	.627	.763	11.5	38.8	3.01	5.23	3	C	O
41653		Maurolycus DA	.159	.633	.758	11.9	39.3	13.32	23.15	3	C	p?
41654	3848	Maurolycus B	.155	.647	.747	11.7	40.3	6.99	12.15	1	C	O
41655			.150	.656	.740	11.5	41.0	3.60	6.26	3	C	O
41658			.159	.687	.709	12.6	43.4	2.05	3.56	2	C	O
41658A			.153	.686	.711	12.1	43.3	3.35	5.82	3	C	O
41660			.165	.604	.780	11.9	37.2	3.35 5.42	5.82 9.42	3	C	O
41661			.164	.612	.774	12.0	37.7	4.64	8.07	3	C	O
41661A			.162	.618	.769	11.9	38.2	2.81	4.88	3	C	O
41661B			.160	.619	.769	11.8	38.2	2.08	3.62	3	C	O
41662			.169	.623	.764	12.5	38.5	4.27	7.42	3	C	O
41662A			.169	.625	.762	12.5	38.7	2.94	5.11	3	C	O
41662B			.162	.626	.763	12.0	38.8	2.91	5.06	4	C	O
41663			.169	.633	.755	12.6	39.3	3.18	5.53	4	C	O
41663A			.169	.636	.753	12.7	39.5	2.37	4.12	3	C	O
41663B			.165	.638	.752	12.4	39.6	3.16	5.49	3	C	O
41664A	(3854B)	Maurolycus K	.169	.642	.748	12.7	39.9	4.77	8.29	3	C	O
41664B	(3854B)	Maurolycus KA	.169	.644	.746	12.8	40.1	4.94	8.59	3	C	O
41664C			.162	.645	.747	12.2	40.2	5.12	8.90	3	C	O
41664D			.164	.640	.751	12.3	39.8	2.47	4.29	3	C	O
41665	3851	Maurolycus F	.161	.651	.742	12.2	40.6	15.09	26.23	3	C	O
41665A		Maurolycus FA	.164	.658	.735	12.6	41.1	3.05	5.30	2	C	O
41666	3853	Maurolycus M	.162	.667	.727	12.6	41.8	5.98	10.39	2	C	O
41666A			.164	.669	.725	12.7	42.0	4.52	7.86	3	C	O
41666B			.161	.663	.731	12.4	41.5	5.13	8.92	3	C	O
41666C			.168	.660	.732	12.9	41.3	2.90	5.04	3	C	O
41668			.160	.689	.707	12.8	43.6	2.16	3.75	3	C	O
41668A			.169	.688	.706	13.5	43.5	2.89 5.20	5.02 9.04	3	C	O
41668B			.163	.680	.715	12.8	42.8	2.07	3.60	2	C	O
41669			.167	.693	.701	13.4	43.9	43.09	74.90	4	C	?
41670	3824	Gemma Frisius E	.176	.605	.777	12.8	37.2	11.28	19.61	2	C	O
41670A			.175	.600	.781	12.6	36.9	2.31	4.02	2	C	O
41670B			.170	.602	.780	12.3	37.0	2.43	4.22	2	C	O
41670C			.172	.609	.774	12.5	37.5	2.08	3.62	2	C	O
41671	3850A	Maurolycus P	.174	.617	.767	12.8	38.1	2.54	4.41	2	C	O
41671A			.177	.612	.771	12.9	37.7	4.83	8.40	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41672			+.175	-.622	+.763	+12.9	-38.5	3.13	5.44	2	C	O
41672A			.176	.625	.761	13.0	38.7	2.70	4.69	1	C	O
41672B			.170	.620	.766	12.5	38.3	3.06	5.32	3	C	O
41672C			.170	.629	.759	12.6	39.0	2.43	4.22	3	C	O
41673	3850	Maurolycus D	.177	.630	.756	13.2	39.1	25.61	44.51	4	C	O
41673A			.172	.636	.752	12.9	39.5	3.84	6.67	3	C	O
41673B			.172	.637	.751	12.9	39.6	2.77	4.81	3	C	O
41674			.171	.648	.742	13.0	40.4	3.80	6.60	3	C	O
41675			.177	.650	.739	13.5	40.5	2.87	4.99	2	C	O
41675A			.177	.655	.735	13.5	40.9	2.07	3.60	3	C	O
41676			.175	.664	.727	13.5	41.6	4.11	7.14	4	C	O
41676A			.176	.662	.729	13.6	41.5	4.10	7.13	3	C	O
41677	3852	Maurolycus J	.178	.674	.717	13.9	42.4	5.24	9.11	2	C	O
41678	3847	Maurolycus A	.178	.688	.704	14.2	43.5	9.15	15.90	2	C	p?
41680	3824C	Gemma Frisius EB	.185	.601	.778	13.4	36.9	8.43	14.65	1	C	O
41680A		Gemma Frisius Y	.186	.609	.771	13.6	37.5	15.97	27.76	4	C	O
41680B			.180	.608	.773	13.1	37.4	2.05	3.56	1	C	O
41681			.184	.614	.768	13.5	37.9	2.69	4.68	3	C	O
41682			.189	.625	.757	14.0	38.7	2.25	3.91	2	C	O
41683			.184	.638	.748	13.8	39.6	2.89	5.02	3	C	O
41684			.182	.640	.747	13.7	39.8	2.89	5.02	3	C	O
41684A			.187	.640	.745	14.1	39.8	2.31	4.02	2	C	O
41685	3854	Maurolycus N	.183	.655	.733	14.0	40.9	4.32	7.51	3	C	O
41685A			.181	.650	.738	13.8	40.5	2.31	4.02	2	C	O
41685B			.182	.659	.730	14.0	41.2	2.42	4.21	3	C	O
41686	3854C	Maurolycus L	.185	.669	.720	14.4	42.0	3.19	5.54	2	C	O
41686A	3846	Maurolycus	.180	.666	.724	14.0	41.8	65.71	114.21	3	C	PP
41690			.195	.607	.770	14.2	37.4	4.43	7.70	4	C	O
41690A			.195	.601	.775	14.1	36.9	9.02	15.68	2	C	O
41691			.193	.612	.767	14.1	37.7	3.69	6.41	4	C	?
41692			.197	.623	.757	14.6	38.5	4.97	8.64	3	C	O
41692A			.196	.620	.760	14.5	38.3	4.56	7.93	3	C	O
41694			.194	.641	.743	14.6	39.9	2.37	4.12	2	C	O
41697		Maurolycus W	.192	.678	.710	15.1	42.7	2.33	4.05	2	C	O
41700	3414G	Licetus S	.101	.710	.697	8.2	45.2	6.37	11.07	2	C	O
41700A			.109	.706	.700	8.9	44.9	4.93	8.57	2	C	O
41701	3414H	Licetus W	.103	.718	.688	8.5	45.9	4.26	7.40	2	C	O
41701A			.102	.714	.693	8.4	45.6	4.34	7.54	3	C	O
41701B			.107	.718	.688	8.8	45.9	3.04	5.28	3	C	O
41701C			.105	.712	.694	8.6	45.4	2.75	4.78	2	C	O
41702			.101	.720	.687	8.4	46.1	2.60	4.52	2	C	O
41702A			.102	.727	.679	8.5	46.6	2.84	4.94	2	C	O
41702B			.106	.722	.684	8.8	46.2	9.49	16.50	3	C	O
41703			.106	.739	.665	9.1	47.6	8.83	15.35	4	C	p?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41703A			+.106	-.730	+.675	+8.9	-46.9	10.53	18.30	4	C	O
41704			.106	.742	.662	9.1	47.9	2.57	4.47	2	C	O
41705			.106	.755	.647	9.3	49.0	4.48	7.79	1	C	O
41705A			.102	.751	.652	8.9	48.7	2.57	4.47	2	C	O
41705B			.102	.755	.648	8.9	49.0	3.09	5.37	3	C	O
41705C			.105	.757	.645	9.2	49.2	2.26	3.93	2	C	O
41707			.103	.779	.619	9.5	51.2	2.90	5.04	2	C	O
41707A			.105	.778	.619	9.6	51.1	2.79	4.85	3	C	O
41708	3404C	Cuvier K	.107	.790	.604	10.1	52.2	4.75	8.26	2	C	O
41710			.112	.703	.702	9.1	44.7	12.81	22.27	3	C	O
41710A			.113	.708	.697	9.2	45.1	2.99	5.20	3	C	O
41710B			.116	.706	.699	9.4	44.9	4.09	7.11	3	C	O
41711			.112	.711	.694	9.2	45.3	2.05	3.56	2	C	O
41712			.110	.724	.681	9.2	46.4	2.09	3.63	1	C	O
41712A			.118	.722	.682	9.8	46.2	4.63	8.05	4	C	O
41713	3414I	Licetus Q	.115	.734	.669	9.7	47.2	4.73	8.22	2	C	O
41714			.114	.747	.655	9.9	48.3	6.63	11.52	2	C	O
41714A			.116	.742	.660	10.0	47.9	3.45	6.00	2	C	O
41714B			.116	.744	.658	10.0	48.1	7.73	13.44	2	C	O
41715	3404D	Cuvier L	.112	.753	.648	9.8	48.9	7.42	12.90	3	C	O
41715A			.112	.757	.644	9.9	49.2	2.26	3.93	3	C	O
41715B			.117	.750	.651	10.2	48.6	2.60	4.52	2	C	O
41715C		Cuvier LA	.119	.755	.645	10.5	49.0	11.96	20.79	3	C	O
41716			.112	.760	.640	9.9	49.5	5.19	9.02	4	C	O
41716A			.114	.761	.639	10.1	49.6	3.04	5.28	4	C	O
41716B	3404	Cuvier	.110	.769	.630	9.9	50.3	43.34	75.33	3f	C	O
41718	3410	Cuvier F	.119	.790	.601	11.2	52.2	9.21	16.01	2	C	O
41718A		Cuvier Q	.114	.783	.611	10.6	51.5	7.73	13.44	3	C	p?
41719			.119	.797	.592	11.4	52.8	2.46	4.28	3	C	O
41720	3435A	Faraday H	.126	.708	.695	10.3	45.1	8.02	13.94	2	C	?
41720A			.122	.702	.702	9.9	44.6	2.30	4.00	2	C	O
41720B			.126	.700	.703	10.2	44.4	4.47	7.77	3	C	O
41720C			.127	.704	.699	10.3	44.7	2.79	4.85	3	C	O
41720D			.128	.708	.695	10.4	45.1	4.25	7.39	1	C	O
41720E			.129	.702	.700	10.4	44.6	6.99	12.15	4	C	O
41721	3435	Faraday G	.122	.718	.685	10.1	45.9	17.68	30.73	2	C	P
41722			.120	.726	.677	10.0	46.6	3.89	6.76	3	C	O
41722A			.120	.729	.674	10.1	46.8	5.28	9.18	3	C	O
41722B			.125	.726	.676	10.5	46.6	3.04	5.28	3	C	O
41722C			.126	.728	.674	10.6	46.7	2.69	4.68	2	C	O
41722D			.128	.725	.677	10.7	46.5	3.10	5.39	3	C	O
41723			.122	.734	.668	10.3	47.2	14.13	24.56	4	C	O
41723A			.129	.732	.669	10.9	47.1	4.47	7.77	3	C	O
41724			.122	.747	.654	10.6	48.3	2.48	4.31	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41724A			+.123	-.740	+.661	+10.5	-47.7	3.00	5.21	2	C	O
41724B			.123	.741	.660	10.6	47.8	4.84	8.41	2	C	O
41727			.126	.779	.614	11.6	51.2	3.43	5.96	3	C	O
41727A			.129	.778	.615	11.8	51.1	4.42	7.68	3	C	O
41728	3404E	Cuvier O	.130	.784	.607	12.1	51.6	5.82	10.12	2	C	O
41729	3405	Cuvier A	.127	.792	.597	12.0	52.4	10.44	18.15	2	C	O
41730			.132	.708	.694	10.8	45.1	5.57	9.68	4	C	O
41730			.135	.703	.698	10.9	44.7	7.47	12.98	4	C	p?
41730B			.136	.700	.701	11.0	44.4	3.47	6.03	3	C	O
41730C			.137	.709	.692	11.2	45.2	3.94	6.85	4	C	O
41730D			.138	.706	.695	11.2	44.9	5.43	9.44	2	C	O
41731			.139	.715	.685	11.5	45.6	3.96	6.88	2	C	O
41731A			.131	.712	.690	10.8	45.4	4.14	7.20	3	C	O
41731B			.132	.719	.682	10.9	46.0	4.13	7.18	3	C	O
41731C			.135	.711	.690	11.1	45.3	3.68	6.40	3	C	O
41732			.135	.720	.681	11.2	46.1	3.95	6.87	3	C	O
41733	3886	Clairaut G	.138	.734	.665	11.7	47.2	3.63	6.31	2	C	O
41733A			.130	.734	.667	11.0	47.2	4.30	7.47	2	C	O
41733B			.130	.739	.661	11.1	47.6	8.12	14.11	2	C	O
41734			.130	.741	.659	11.2	47.8	4.01	6.97	2	C	O
41734A			.130	.746	.653	11.3	48.2	2.71	4.71	3	C	O
41734B			.137	.742	.656	11.8	47.9	2.50	4.35	2	C	O
41735	3880A	Clairaut H	.138	.756	.640	12.2	49.1	4.97	8.64	2	C	O
41735A		Clairaut P	.134	.755	.642	11.8	49.0	5.03	8.74	2	C	O
41736	3407	Cuvier C	.131	.765	.631	11.7	49.9	5.04	8.76	1	C	O
41736A			.139	.761	.634	12.4	49.6	2.64	4.59	1	C	O
41737			.138	.772	.620	12.5	50.5	2.15	3.74	2	C	O
41738			.131	.780	.612	12.1	51.3	3.14	5.46	4	C	O
41739	3409	Cuvier E	.137	.791	.596	12.9	52.3	11.03	19.17	1	C	O
41739A			.131	.797	.590	12.5	52.8	2.48	4.31	2	C	O
41739B			.136	.797	.588	13.0	52.8	2.32	4.03	2	C	O
41740	3846A	Maurolycus G	.143	.700	.700	11.6	44.4	4.28	7.44	1	C	O
41742			.145	.728	.670	12.2	46.7	2.92	5.08	4	C	O
41742A			.148	.729	.668	12.5	46.8	4.11	7.14	3	C	O
41743			.140	.737	.661	12.0	47.5	3.50	6.08	2	C	O
41743A			.146	.732	.665	12.4	47.1	2.12	3.68	2	C	O
41744	3880	Clairaut B	.145	.747	.649	12.6	48.3	24.65	42.85	3	C	p
41745			.142	.758	.637	12.6	49.3	7.19	12.50	3	C	O
41746	3407A	Cuvier P	.141	.766	.627	12.7	50.0	6.40	11.12	2	C	O
41746A			.142	.760	.634	12.6	49.5	4.68	8.13	3	C	O
41746B			.142	.765	.628	12.7	49.9	2.17	3.77	2	C	O
41746C			.144	.763	.630	12.9	49.7	2.89	5.02	3	C	O
41747	3406A	Cuvier R	.143	.777	.613	13.1	51.0	3.94	6.85	3	C	O
41748	3406	Cuvier B	.148	.784	.603	13.8	51.6	9.77	16.98	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41749			+.144	-.798	+.585	+13.8	-52.9	11.62	20.20	3	C	O
41751	3884A	Clairaut J	.154	.716	.681	12.7	45.7	7.93	13.78	2	C	O
41751A			.150	.712	.686	12.3	45.4	3.11	5.41	3f	C	O
41752	3884	Clairaut E	.151	.724	.673	12.6	46.4	16.82	29.24	3f	C	O
41753			.151	.739	.657	13.0	47.6	3.08	5.35	3	C	O
41753A			.154	.739	.656	13.2	47.6	2.34	4.07	3	C	O
41754	3881	Clairaut C	.155	.743	.651	13.4	48.0	9.48	16.48	2	C	O
41756	3878A	Clairaut K	.156	.763	.627	14.0	49.7	7.15	12.43	3	C	O
41757			.160	.770	.618	14.5	50.4	2.55	4.43	3	C	O
41758			.158	.784	.600	14.7	51.6	3.15	5.48	3	C	O
41759			.156	.796	.585	14.9	52.7	2.67	4.64	1	C	O
41759A		Baco Z	.156	.799	.581	15.0	53.0	3.75	6.52	3	C	O
41760			.164	.707	.688	13.4	45.0	2.94	5.11	2	C	O
41761			.164	.710	.685	13.5	45.2	2.72	4.73	1	C	O
41762	3877A	Clairaut M	.165	.722	.672	13.8	46.2	3.70	6.43	1	C	O
41763	3882	Clairaut D	.166	.735	.657	14.2	47.3	7.02	12.20	2	C	O
41763A			.163	.733	.660	13.9	47.1	7.68	13.35	3	C	O
41764	3877	Clairaut	.162	.740	.653	13.9	47.7	43.25	75.17	3	C	O
41764A			.161	.748	.644	14.0	48.4	2.72	4.73	3	C	O
41765	3878	Clairaut A	.168	.754	.635	14.8	48.9	20.59	35.79	2	C	O
41766			.162	.762	.627	14.5	49.6	4.46	7.75	3	C	O
41767	3888A	Baco C	.161	.775	.611	14.8	50.8	7.80	13.56	3	C	O
41767A			.166	.776	.608	15.3	50.9	3.58	6.22	2	C	O
41767B			.166	.773	.612	15.2	50.6	2.84	4.94	1	C	O
41768			.167	.782	.600	15.5	51.4	2.58	4.48	1	C	O
41768A			.162	.789	.593	15.3	52.1	5.17	8.99	4f	C	O
41768B			.163	.787	.595	15.3	51.9	5.51	9.58	4f	C	O
41769	3890	Baco E	.168	.798	.579	16.2	52.9	15.81	27.48	3	C	O
41769A			.163	.792	.588	15.5	52.4	7.06	12.27	3	C	O
41769B			.167	.793	.586	15.9	52.5	3.21	5.58	3	C	O
41770			.177	.702	.690	14.4	44.6	3.74	6.50	2	C	O
41771	3885	Clairaut F	.174	.719	.673	14.5	46.0	13.35	23.20	4	C	O
41771A			.177	.713	.678	14.6	45.5	10.85	18.86	4	C	O
41774			.177	.747	.641	15.4	48.3	8.16	14.18	5	C	O
41777		Baco N	.177	.775	.607	16.3	50.8	13.24	23.01	2	C	O
41778	3888B	Baco D	.175	.784	.596	16.4	51.6	4.70	8.17	1	C	O
41778A			.178	.780	.600	16.5	51.3	5.97	10.38	4	C	O
41779			.176	.794	.582	16.8	52.6	3.38	5.87	2	C	O
41782			.185	.720	.669	15.5	46.1	3.27	5.68	5	C	O
41784		Clairaut R	.183	.743	.644	15.9	48.0	8.77	15.24	4	C	O
41785	3879A	Baco L	.187	.760	.622	16.7	49.5	4.21	7.32	1	C	O
41785A			.185	.757	.627	16.4	49.2	3.08	5.35	2	C	O
41786	3879	Baco B	.186	.761	.622	16.7	49.6	24.43	42.46	2	C	O
41786A			.182	.765	.618	16.4	49.9	3.60	6.26	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41786B			+.183	-.762	+.621	+16.4	-49.6	2.12	3.68	2	C	O
41787			.186	.779	.599	17.3	51.2	2.77	4.81	2	C	O
41787A			.187	.770	.610	17.0	50.4	16.06	27.91	5	C	O
41787B			.188	.773	.606	17.2	50.6	2.87	4.99	2	C	O
41788			.182	.783	.595	17.0	51.5	8.53	14.83	3	C	O
41788A			.185	.781	.597	17.2	51.4	2.55	4.43	2	C	O
41789			.182	.791	.584	17.3	52.3	4.83	8.40	3	C	O
41789A			.187	.791	.583	17.8	52.3	8.96	15.57	3	C	O
41790			.197	.702	.684	16.1	44.6	2.87	4.99	1	C	O
41791		Barocius W	.195	.714	.672	16.2	45.6	11.55	20.08	4	C	O
41793			.192	.730	.656	16.3	46.9	2.88	5.01	4	C	O
41793A		Clairaut S	.190	.737	.649	16.3	47.5	12.84	22.32	3f	C	O
41793B			.192	.731	.655	16.3	47.0	2.90	5.04	3	C	O
41793C			.198	.736	.647	17.0	47.4	4.25	7.39	3	C	O
41794			.194	.745	.638	16.9	48.2	2.94	5.11	3	C	O
41795			.198	.755	.625	17.6	49.0	2.86	4.97	2	C	O
41795A			.198	.758	.621	17.7	49.3	2.90	5.04	2	C	O
41795B			.193	.751	.631	17.0	48.7	2.71	4.71	2	C	O
41795C			.195	.754	.627	17.3	48.9	2.34	4.07	2	C	O
41796	3888C	Baco F	.194	.770	.608	17.7	50.4	3.37	5.86	2	C	O
41797			.190	.771	.608	17.4	50.4	2.29	3.98	2	C	O
41799		Baco Q	.196	.791	.580	18.7	52.3	11.33	19.69	3	C	p?
41800	3394E	Lilius X	.102	.804	.586	9.9	53.5	2.40	4.17	1	C	O
41800A			.101	.800	.591	9.7	53.1	2.25	3.91	1	C	O
41800B			.103	.803	.587	10.0	53.4	2.46	4.28	1	C	O
41801			.102	.817	.568	10.2	54.8	2.24	3.89	2	C	O
41801A			.109	.819	.563	11.0	55.0	6.15	10.69	3	C	O
41801B			.104	.819	.564	10.4	55.0	2.82	4.90	3	C	O
41802		Jacobi W	.105	.829	.549	10.8	56.0	4.12	7.16	1	C	O
41802A		Jacobi WA	.105	.827	.552	10.8	55.8	3.20	5.56	1	C	O
41803A	3375	Jacobi	.108	.836	.538	11.4	56.7	39.15	68.05	3f	C	O
41803B			.107	.833	.543	11.2	56.4	3.51	6.10	2	C	O
41803C			.107	.835	.540	11.2	56.6	4.56	7.93	2	C	O
41803D	(3375A)		.102	.837	.538	10.7	56.8	4.80	8.34	1	C	O
41803E	(3375A)	Jacobi K	.103	.836	.539	10.8	56.7	4.92	8.55	1	C	O
41804		Jacobi JA	.103	.848	.520	11.2	58.0	4.64	8.07	2	C	O
41804A			.108	.847	.521	11.7	57.9	3.76	6.54	3	C	O
41804B			.106	.846	.523	11.5	57.8	3.39	5.89	2	C	O
41805	3380	Jacobi E	.107	.853	.511	11.8	58.5	13.89	24.14	3	C	O
41805A		Jacobi Z	.106	.858	.503	11.9	59.1	2.82	4.90	1	C	O
41806		Jacobi CA	.101	.865	.492	11.6	59.9	35.00	60.84	4	C	O
41807	3374A	Kinau G	.105	.879	.465	12.7	61.5	14.60	25.38	2	C	O
41808	3374B	Kinau F	.109	.884	.455	13.5	62.1	5.87	10.20	1	C	O
41808A			.105	.882	.459	12.9	61.9	2.45	4.26	2	C	O
41809	3366	Pentland D	.110	.892	.438	14.1	63.1	19.82	34.45	2	C	R

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41809A			+.103	-.897	+.430	+13.5	-63.8	6.05	10.52	3	C	O
41809B			.109	.899	.424	14.4	64.0	4.35	7.56	4	C	O
41810	3405A	Cuvier M	.113	.802	.587	10.9	53.3	3.50	6.08	1	C	O
41810A			.119	.807	.578	11.6	53.8	4.81	8.36	4	C	O
41811			.113	.816	.567	11.3	54.7	2.67	4.64	1	C	O
41811A			.114	.819	.562	11.5	55.0	5.14	8.93	3	C	O
41811B			.116	.815	.568	11.5	54.6	12.48	21.69	3f	C	O
41811C			.117	.813	.570	11.6	54.4	3.06	5.32	1	C	O
41812	3375D	Jacobi O	.116	.826	.552	11.9	55.7	9.57	16.63	1	C	O
41812A			.111	.822	.559	11.2	55.3	4.04	7.02	1	C	O
41813	3375C	Jacobi N	.113	.832	.543	11.8	56.3	4.57	7.94	2	C	O
41813A			.116	.830	.546	12.0	56.1	5.89	10.24	3f	C	O
41814	3375B	Jacobi M	.112	.846	.521	12.1	57.8	5.70	9.91	2	C	O
41814A		Jacobi MA	.115	.849	.516	12.6	58.1	4.95	8.60	1	C	O
41815			.113	.854	.508	12.5	58.6	2.20	3.82	2	C	O
41817			.114	.879	.463	13.8	61.5	13.93	24.21	4f	C	O
41818			.111	.883	.456	13.7	62.0	4.24	7.37	2	C	O
41818A			.115	.884	.453	14.2	62.1	2.91	5.06	2	C	O
41819		Pentland DA	.113	.890	.442	14.3	62.9	30.96	53.81	3f	C	?
41819A		Pentland DB	.119	.896	.428	15.5	63.6	13.34	23.19	2f	C	O
41819B			.119	.898	.424	15.7	63.9	4.20	7.30	2	C	O
41820	3405B	Cuvier N	.125	.803	.583	12.1	53.4	2.44	4.24	2	C	O
41820A			.130	.808	.575	12.7	53.9	2.36	4.10	1	C	O
41821			.127	.815	.565	12.7	54.6	2.62	4.55	2	C	O
41822			.125	.822	.556	12.7	55.3	2.32	4.03	2	C	O
41824	3375E	Jacobi P	.130	.842	.524	13.9	57.4	8.88	15.43	1	C	O
41825	3382	Jacobi G	.126	.852	.508	13.9	58.4	23.88	41.51	3	C	O
41825A			.127	.850	.511	14.0	58.2	2.30	4.00	2	C	O
41826			.122	.860	.495	13.8	59.3	2.25	3.91	1	C	O
41826A			.124	.868	.481	14.5	60.2	6.80	11.82	2	C	O
41827	3370	Kinau	.127	.873	.471	15.1	60.8	23.95	41.63	3	C	P
41827A		Kinau M	.122	.870	.478	14.3	60.5	6.87	11.94	1	C	O
41827B			.124	.878	.462	15.0	61.4	4.12	7.16	3	C	O
41827C		Kinau N	.128	.878	.461	15.5	61.4	4.12	7.16	2	C	O
41828			.128	.880	.457	15.6	61.6	4.00	6.95	3	C	O
41830			.130	.800	.586	12.5	53.1	11.96	20.79	3	C	O
41830A			.132	.800	.585	12.7	53.1	2.11	3.67	1	C	O
41831		Jacobi U	.131	.819	.559	13.2	55.0	4.17	7.25	3	C	O
41831A			.132	.813	.567	13.1	54.4	2.05	3.56	1	C	O
41831B			.137	.813	.566	13.6	54.4	2.42	4.21	1	C	O
41832	3375F	Jacobi R	.136	.822	.553	13.8	55.3	3.08	5.35	2	C	O
41832A		Jacobi Q	.137	.826	.547	14.1	55.7	2.51	4.36	1	C	O
41834	3382A	Jacobi S	.138	.843	.520	14.9	57.5	2.57	4.47	2	C	O
41834A			.133	.847	.515	14.5	57.9	8.04	13.97	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41834B			+.139	-.847	+.513	+15.2	-57.9	2.56	4.45	1	C	O
41835			.136	.856	.499	15.3	58.9	2.98	5.18	1	C	O
41836			.135	.865	.483	15.6	59.9	2.14	3.72	2	C	O
41837			.138	.870	.473	16.3	60.5	3.00	5.21	2	C	O
41837A			.139	.879	.456	16.9	61.5	2.57	4.47	3	C	O
41838			.133	.887	.442	16.7	62.5	8.47	14.72	5	C	O
41838A			.138	.880	.454	16.9	61.6	2.47	4.29	3	C	O
41838B			.138	.884	.447	17.2	62.1	3.30	5.74	3	C	O
41839	3366B	Pentland N	.132	.895	.426	17.2	63.5	14.47	25.15	2f	C	O
41839A		Pentland NA	.135	.899	.417	18.0	64.0	16.39	28.49	3f	C	p?
41839B			.136	.893	.429	17.6	63.3	3.70	6.43	2	C	O
41840			.146	.800	.582	14.1	53.1	2.78	4.83	3	C	O
41841	3377	Jacobi B	.140	.814	.564	13.9	54.5	7.97	13.85	1	C	O
41841A			.143	.817	.559	14.4	54.8	2.97	5.16	2	C	O
41842	3375G	Jacobi T	.147	.829	.540	15.2	56.0	3.54	6.15	1	C	O
41842A			.148	.828	.541	15.3	55.9	2.25	3.91	2	C	O
41843			.142	.833	.535	14.9	56.4	3.29	5.72	4	C	O
41843A			.143	.834	.533	15.0	56.5	4.14	7.20	4	C	O
41843B			.143	.838	.527	15.2	56.9	3.64	6.33	3	C	O
41843C			.145	.835	.531	15.3	56.6	3.13	5.44	4	C	O
41843D			.149	.839	.523	15.9	57.0	12.11	21.05	3	C	O
41844			.140	.843	.519	15.1	57.5	5.04	8.76	3	C	O
41844A			.141	.842	.521	15.2	57.4	6.07	10.55	3	C	O
41844B			.148	.843	.517	16.0	57.5	10.33	17.96	3	C	O
41845	3376	Jacobi A	.144	.852	.503	16.0	58.4	15.83	27.51	2	C	?
41846		Kinau J	.140	.862	.487	16.0	59.5	2.79	4.85	2	C	O
41846A			.141	.869	.474	16.6	60.3	4.96	8.62	3	C	O
41847		Kinau P	.143	.878	.457	17.4	61.4	2.79	4.85	2	C	O
41849	3366C	Pentland O	.144	.892	.428	18.6	63.1	8.50	14.77	2	C	O
41849A	3910A	Manzinus F	.148	.898	.414	19.7	63.9	10.10	17.56	2	C	O
41849B			.142	.896	.421	18.6	63.6	2.70	4.69	2	C	O
41849C			.145	.897	.418	19.1	63.8	3.19	5.54	3	C	O
41849D			.147	.895	.421	19.2	63.5	3.11	5.41	2	C	O
41849E			.149	.890	.431	19.1	62.9	2.76	4.80	2	C	O
41851			.157	.813	.561	15.6	54.4	2.56	4.45	2	C	O
41852	3377A	Jacobi L	.151	.823	.548	15.4	55.4	5.34	9.28	1	C	O
41852A			.152	.825	.544	15.6	55.6	6.38	11.09	5	C	O
41852B			.153	.821	.550	15.5	55.2	8.46	14.70	4	C	O
41853			.150	.836	.528	15.9	56.7	3.56	6.19	2	C	O
41853A			.150	.837	.526	15.9	56.8	2.20	3.82	1	C	O
41855		Jacobi AB	.150	.852	.502	16.6	58.4	26.90	46.76	3f	C	?
41855A			.152	.859	.489	17.3	59.2	2.63	4.57	3	C	O
41856			.153	.867	.474	17.9	60.1	8.17	14.20	3f	C	O
41856A			.150	.869	.472	17.6	60.3	2.15	3.74	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41857	3371A	Kinau B	+.157	-.879	+.450	+19.2	-61.5	4.82	8.38	1	C	O
41857A	3374	Kinau D	.156	.871	.466	18.5	60.6	15.30	26.59	3	C	O
41858			.150	.885	.441	18.8	62.3	4.16	7.23	3	C	O
41859	3910B	Manzinus K	.156	.893	.422	20.3	63.3	6.98	12.13	1	C	O
41860			.167	.803	.572	16.3	53.4	2.20	3.82	2	C	O
41860A			.168	.805	.569	16.4	53.6	3.08	5.35	3	C	O
41860B			.169	.806	.567	16.6	53.7	2.51	4.36	3	C	O
41861			.160	.810	.564	15.8	54.1	2.10	3.65	1	C	O
41861A			.160	.813	.560	15.9	54.4	2.97	5.16	1	C	O
41861B			.162	.814	.558	16.2	54.5	2.31	4.02	1	C	O
41861C			.165	.814	.557	16.5	54.5	2.11	3.67	2	C	O
41861D			.167	.817	.552	16.8	54.8	2.20	3.82	2	C	O
41862	3898A	Tannerus G	.160	.820	.550	16.2	55.1	12.41	21.57	3f	C	O
41862A			.160	.822	.547	16.3	55.3	2.15	3.74	2	C	O
41864A	3894A	Tannerus A	.169	.843	.511	18.3	57.5	3.10	5.39	1	C	O
41864B			.162	.845	.510	17.6	57.7	4.43	7.70	2	C	O
41864			.165	.845	.509	18.0	57.7	3.10	5.39	3	C	O
41865	3374D	Kinau K	.162	.853	.496	18.1	58.5	5.74	9.98	1	C	O
41865A	3374E	Kinau L	.164	.859	.485	18.7	59.2	6.23	10.83	1	C	O
41865B			.168	.852	.496	18.7	58.4	2.36	4.10	2	C	O
41865C			.162	.856	.491	18.3	58.9	20.15	35.02	3	C	O
41866			.160	.861	.483	18.3	59.4	5.42	9.42	4	C	O
41866A			.160	.867	.472	18.7	60.1	5.15	8.95	3	C	O
41867			.168	.876	.452	20.4	61.2	4.51	7.84	2	C	O
41868	3371	Kinau A	.160	.884	.439	20.0	62.1	20.10	34.94	3f	C	O
41868A			.166	.888	.429	21.2	62.6	3.00	5.21	2	C	O
41868B		Kinau Q	.167	.886	.433	21.1	62.4	6.07	10.55	2	C	O
41869	3372 3910	Manzinus B	.160	.896	.414	21.1	63.6	16.15	28.07	2	C	O
41870			.170	.803	.571	16.6	53.4	4.61	8.01	3	C	O
41870A		Baco K	.178	.809	.560	17.6	54.0	16.45	28.59	3	C	O
41870B			.178	.801	.572	17.3	53.2	3.47	6.03	3	C	O
41871	3890A	Baco G	.172	.813	.556	17.2	54.4	4.90	8.52	1	C	O
41871A			.178	.810	.559	17.7	54.1	2.42	4.21	3	C	O
41872	3896	Tannerus D	.173	.827	.535	17.9	55.8	18.32	31.84	2f	C	O
41872A			.170	.822	.544	17.4	55.3	3.07	5.34	3	C	O
41874			.171	.847	.503	18.8	57.9	3.00	5.21	3	C	O
41874A			.175	.849	.499	19.3	58.1	2.40	4.17	2	C	O
41875			.178	.852	.492	19.9	58.4	3.60	6.26	3	C	O
41876	3374C	Kinau H	.170	.864	.474	19.7	59.8	3.37	5.86	1	C	O
41876A	3373A	Kinau E	.172	.867	.468	20.2	60.1	4.04	7.02	1	C	O
41876B			.177	.863	.473	20.5	59.7	5.04	8.76	3	C	O
41876C			.175	.862	.476	20.2	59.5	2.60	4.52	2	C	O
41877	3373	Kinau C	.172	.871	.460	20.5	60.6	17.09	29.70	3f	C	O
41877A			.172	.871	.460	20.5	60.6	2.71	4.71	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41877B			+.174	-.877	+.448	+21.2	-61.3	2.78	4.83	2	C	O
41879	3910D	Manzinus M	.173	.894	.413	22.7	63.4	3.37	5.86	1	C	O
41880			.183	.803	.567	17.9	53.4	2.67	4.64	1	C	O
41882			.189	.820	.540	19.3	55.1	4.01	6.97	3	C	O
41883	3897	Tannerus E	.188	.830	.525	19.7	56.1	14.64	25.45	1	C	p?
41883A			.181	.838	.515	19.4	56.9	3.21	5.58	3	C	O
41884	3894B	Tannerus B	.180	.845	.504	19.7	57.7	8.19	14.24	2	C	O
41884A			.182	.840	.511	19.6	57.1	2.55	4.43	2	C	O
41884B			.189	.840	.509	20.4	57.1	2.40	4.17	3	C	O
41885		Mutus TA	.181	.856	.484	20.5	58.9	3.29	5.72	2	C	O
41885A			.185	.855	.485	20.9	58.8	2.36	4.10	2	C	O
41885B		Mutus TB	.185	.851	.492	20.6	58.3	2.41	4.19	1	C	O
41885C		Mutus T	.185	.859	.477	21.2	59.2	19.54	33.96	3	C	O
41886			.184	.863	.471	21.4	59.7	4.86	8.45	3	C	O
41886A			.185	.867	.463	21.8	60.1	2.16	3.75	2	C	O
41887		Mutus S	.185	.870	.457	22.0	60.5	14.13	24.56	3	C	O
41888		Mutus J	.181	.889	.421	23.3	62.7	4.66	8.10	2	C	O
41889	3899A	Mutus H	.182	.896	.405	24.2	63.6	11.78	20.48	2	C	?
41889A			.180	.894	.410	23.7	63.4	2.36	4.10	2	C	O
41891	3890B	Baco J	.191	.816	.546	19.3	54.7	10.84	18.84	2	C	O
41893			.198	.839	.507	21.3	57.0	2.50	4.35	3	C	O
41893A			.199	.837	.510	21.3	56.8	3.08 10.18	5.35 17.69	3	C	O
41894	3903A	Mutus K	.196	.846	.496	21.6	57.8	3.97	6.90	1	C	O
41894A			.192	.840	.507	20.7	57.1	4.36	7.58	3	C	p
41895			.197	.854	.482	22.2	58.6	7.01	12.18	3	C	O
41895A			.197	.856	.478	22.4	58.9	2.57	4.47	2	C	O
41896			.190	.863	.468	22.1	59.7	3.26	5.67	3	C	O
41896A		Mutus SA	.191	.868	.458	22.6	60.2	4.61	8.01	1	C	O
41896B			.194	.864	.465	22.7	59.8	3.25	5.65	3	C	O
41896C		Mutus SB	.197	.864	.463	23.0	59.8	3.51	6.10	2	C	O
41897		Mutus LA	.197	.878	.436	24.3	61.4	7.67	13.33	3	C	O
41897A		Mutus LB	.198	.873	.446	24.0	60.8	15.68	27.25	3	C	p
41898	3902A	Mutus L	.199	.881	.429	24.9	61.8	11.43	19.87	1	C	O
41899			.192	.892	.409	25.1	63.1	4.43	7.70	3	C	O
41899A			.196	.891	.410	25.6	63.0	7.20	12.51	4	C	O
41900	3365A	Pentland J	.110	.902	.417	14.8	64.4	4.89	8.50	1	C	O
41900A			.109	.906	.409	14.9	65.0	3.00	5.21	2	C	O
41901			.101	.912	.398	14.3	65.8	3.39	5.89	1	C	O
41901A			.104	.911	.399	14.6	65.6	2.78	4.83	2	C	O
41902	3350	Simpelius H	.100	.927	.361	15.5	68.0	16.49	28.66	3	C	O
41902A			.106	.920	.377	15.7	66.9	3.38	5.87	2	C	O
41902B			.108	.929	.354	17.0	68.3	3.57	6.21	2	C	O
41903	3348	Simpelius F	.105	.932	.347	16.8	68.7	16.81 11.51	29.22 20.01	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41903A			+.102	-.930	+.353	+16.1	-68.4	81.37	141.43	5	C	?
41905			.106	.959	.263	22.0	73.5	12.58	21.87	4	C	O
41906			.109	.962	.250	23.5	74.2	6.80	11.82	3	C	O
41908			.103	.982	.158	33.0	79.1	5.67	9.86	2	C	O
41908A			.104	.986	.130	38.6	80.4	14.74	25.62	3	C	?
41908B			.105	.985	.137	37.5	80.1	2.06	3.58	2	C	O
41909		Scott	.100	.990	.099	45.1	81.9	61.87	107.54	3	C	O
41909A			.105	.993	.054	62.7	83.2	33.53	58.28	3	C	?
41910	3365	Pentland C	.119	.906	.406	16.3	65.0	21.13	36.73	2	C	p
41911			.110	.914	.391	15.7	66.1	9.13	15.87	4	C	O
41911A			.115	.912	.394	16.3	65.8	2.83	4.92	1	C	O
41911B			.117	.915	.386	16.9	66.2	2.62	4.55	2	C	O
41913			.119	.939	.323	20.2	69.9	2.47	4.29	2	C	O
41913A			.114	.932	.344	18.3	68.7	2.88	5.01	2	C	O
41914			.119	.946	.302	21.5	71.1	9.48 5.44	16.48 9.46	4	C	O
41915	3337	Schomberger D	.118	.959	.258	24.6	73.5	13.68	23.78	2	C	p
41915A			.117	.957	.265	23.8	73.1	2.57	4.47	2	C	O
41915B			.115	.954	.277	22.6	72.6	2.16	3.75	3	C	O
41916			.114	.966	.232	26.2	75.0	19.48	33.86	3	C	O
41918			.110	.984	.140	38.1	79.7	3.60	6.26	3	C	O
41918A			.113	.983	.145	38.0	79.4	7.93	13.78	3	C	O
41918B			.119	.981	.153	37.8	78.8	8.24	14.32	4	C	O
41918C			.119	.982	.147	39.1	79.1	7.21	12.53	4	C	O
41918D			.119	.984	.133	41.9	79.7	7.21	12.53	3	C	O
41920	3365D	Pentland M	.127	.902	.413	17.1	64.4	3.86	6.71	2	C	O
41921	3365B	Pentland K	.121	.919	.375	17.9	66.8	6.93	12.05	2	C	p
41921A	3365C	Pentland L	.126	.911	.393	17.8	65.6	13.40	23.29	2	C	O
41921B			.125	.916	.381	18.2	66.3	2.20	3.82	1	C	O
41922			.124	.922	.367	18.7	67.2	4.47	7.77	3	C	O
41922A			.126	.923	.364	19.1	67.4	2.85	4.95	2	C	O
41923		Manzinus H	.120	.931	.345	19.2	68.6	7.52	13.07	3	C	O
41923A			.121	.934	.336	19.8	69.1	2.21	3.84	1	C	O
41923B			.121	.936	.331	20.1	69.4	2.26	3.93	2	C	O
41923C			.122	.938	.324	20.6	69.7	2.26	3.93	2	C	O
41923D			.125	.937	.326	21.0	69.6	2.05	3.56	2	C	O
41923E			.129	.938	.322	21.8	69.7	2.93	5.09	2	C	O
41924	3911	Manzinus C	.128	.940	.316	22.0	70.1	14.12	24.54	2	C	O
41924A			.122	.942	.313	21.3	70.4	5.15	8.95	2	C	O
41925	3349	Simpelius G	.122	.950	.287	23.0	71.8	13.60	23.64	2	C	O
41925A			.122	.950	.287	23.0	71.8	2.05	3.56	1	C	O
41926		Schomberger Y	.129	.964	.233	29.0	74.6	9.77	16.98	2	C	?
41927			.125	.973	.194	32.8	76.7	2.88	5.01	2	C	O
41927A			.125	.971	.204	31.5	76.2	2.67	4.64	2	C	O
41928			.121	.983	.138	41.2	79.4	5.66	9.84	3	C	O
41928A			.129	.989	.072	60.7	81.5	2.88	5.01	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41929			+.126	-.990	+.063	+63.3	-81.9	3.08	5.35	3	C	O
41930			.136	.901	.412	18.3	64.3	2.57	4.47	3	C	O
41930A			.136	.905	.403	18.6	64.8	2.26	3.93	4	C	O
41934	3349A	Simpelius N	.132	.947	.293	24.3	71.3	4.31	7.49	2	C	O
41935			.134	.953	.272	26.2	72.4	6.28	10.92	3	C	O
41935A		Schomberger Z	.130	.959	.252	27.3	73.5	3.08	5.35	1	C	O
41936			.136	.966	.220	31.7	75.0	6.23	10.83	2	C	O
41937			.130	.976	.175	36.7	77.4	6.19	10.76	2	C	O
41937A			.138	.974	.180	37.5	76.9	14.95	25.99	4	C	O
41937B			.130	.977	.169	37.6	77.7	5.31	9.23	4	C	O
41938			.133	.987	.090	55.8	80.8	3.09	5.37	3	C	O
41938A			.133	.989	.065	64.0	81.5	8.46	14.70	3	C	O
41939			.133	.990	.047	70.5	81.9	6.40	11.12	3	C	O
41940			.142	.900	.412	19.0	64.2	2.62	4.55	2	C	O
41940A			.140	.905	.402	19.2	64.8	2.72	4.73	3	C	O
41941			.141	.918	.371	20.8	66.6	4.12	7.16	3	C	O
41943	3912	Manzinus D	.146	.937	.317	24.7	69.6	19.52	33.93	3	C	O
41943A			.140	.930	.340	22.4	68.4	3.11	5.41	1	C	O
41945	3919A	Boguslawsky H	.145	.956	.255	29.6	72.9	10.96	19.05	1	C	O
41945A	3919B	Boguslawsky J	.148	.952	.268	28.9	72.2	20.42	35.49	2	C	p
41945B			.140	.959	.246	29.6	73.5	3.51	6.10	1	C	O
41945C			.141	.959	.246	29.8	73.5	7.94	13.80	3	C	?
41946		Schomberger X	.146	.967	.209	35.0	75.2	4.44	7.72	2	C	O
41947	3915B	Demonax E	.140	.979	.148	43.4	78.2	22.79	39.61	3	C	p?
41947A			.148	.978	.147	45.2	78.0	7.43	12.91	2	C	?
41947B			.146	.975	.168	41.1	77.2	9.38	16.30	5	C	O
41948		Demonax B	.142	.989	.041	73.7	81.5	10.63	18.48	2	C	?
41948A		Demonax C	.141	.985	.099	54.8	80.1	5.72	9.94	1	C	O
41950			.156	.900	.407	21.0	64.2	2.62	4.55	2	C	O
41950A			.158	.900	.406	21.3	64.2	3.39	5.89	3	C	O
41951	3908B	Manzinus J	.160	.916	.368	23.5	66.3	6.74	11.72	1	C	O
41951A			.154	.918	.365	22.8	66.6	6.44	11.19	3	C	O
41952			.150	.920	.362	22.5	66.9	2.46	4.28	2	C	O
41952A			.156	.928	.338	24.8	68.1	7.99	13.89	4	C	O
41953	3908A	Manzinus G	.153	.937	.314	26.0	69.6	8.99	15.63	2	C	O
41953A	3912A	Manzinus E	.154	.933	.325	25.3	68.9	10.21	17.75	1	C	O
41953B			.158	.938	.309	27.1	69.7	8.32	14.46	3	C	O
41954	3919	Boguslawsky C	.152	.945	.290	27.7	70.9	20.66	35.91	3	C	O
41954A			.159	.947	.279	29.7	71.3	5.46	9.49	2	C	O
41954B			.150	.947	.284	27.8	71.3	3.09	5.37	3	C	O
41954C			.151	.944	.293	27.2	70.7	3.92	6.81	3	C	O
41955			.152	.954	.258	30.5	72.6	22.25	38.67	4	C	?
41955A			.152	.952	.266	29.8	72.2	12.37	21.50	3	C	O
41956		Boguslawsky N	.152	.961	.231	33.3	73.9	16.23	28.21	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41956A			+.152	-.969	+.195	+38.0	-75.7	3.30	5.74	2	C	O
41957			.154	.972	.177	40.9	76.4	16.50	28.68	5	C	O
41957A			.153	.974	.167	42.5	76.9	23.19	40.31	5	C	O
41957B			.155	.970	.187	39.6	75.9	2.78	4.83	2	C	O
41958			.150	.987	.058	69.0	80.8	4.44	7.72	3	C	?
41958A			.158	.980	.121	52.6	78.5	2.48	4.31	2	C	O
41958B			.157	.984	.084	61.8	79.7	4.23	7.35	3	C	O
41958C			.159	.983	.092	60.0	79.4	2.89	5.02	2	C	O
41960	3910C	Manzinus L	.167	.901	.400	22.6	64.3	11.54	20.06	3	C	O
41960A			.167	.904	.394	23.0	64.7	2.37	4.12	2	C	O
41960B			.168	.903	.395	23.0	64.6	2.68	4.66	2	C	O
41960C			.168	.900	.402	22.7	64.2	2.58	4.48	2	C	O
41961			.168	.913	.372	24.3	65.9	7.17	12.46	4	C	O
41963			.167	.935	.313	28.1	69.2	2.27	3.95	2	C	O
41964	3908C	Manzinus N	.163	.941	.297	28.8	70.2	7.87	13.68	4	C	O
41965			.161	.959	.233	34.6	73.5	24.22	42.10	3	C	p?
41965A			.162	.951	.263	31.6	72.0	2.73	4.75	2	C	O
41968	3915A	Demonax A	.170	.982	.082	64.2	79.1	9.13	15.87	2	C	O
41968A			.160	.985	.065	68.0	80.1	44.34	77.07	5	C	?
41970	3908D	Manzinus O	.180	.906	.383	25.2	65.0	2.98	5.18	2	C	O
41970A			.173	.908	.382	24.4	65.2	2.75	4.78	2	C	O
41971			.178	.911	.372	25.6	65.6	2.48	4.31	2	C	O
41971A			.174	.915	.364	25.5	66.2	2.58	4.48	2	C	O
41972	3908	Manzinus	.171	.925	.339	26.7	67.7	56.46	98.14	3f	C	O
41973	3909	Manzinus A	.170	.930	.326	27.5	68.4	11.40	19.81	4	C	O
41973A			.175	.934	.311	29.3	69.1	4.12	7.16	3	C	O
41974			.177	.941	.288	31.5	70.2	5.67	9.86	4	C	O
41975			.178	.952	.249	35.6	72.2	4.13	7.18	2	C	O
41976			.175	.960	.219	38.7	73.7	4.75	8.26	3	C	O
41977	3915	Demonax	.175	.979	.105	59.1	78.2	65.49	113.83	3	C	pp
41978			.170	.981	.093	61.2	78.8	4.28	7.44	1	C	O
41978A			.178	.984	.008	87.5	79.7	3.46	6.01	2	C	O
41981		Manzinus S	.184	.916	.356	27.3	66.3	6.33	11.00	2	C	O
41982	3908E	Manzinus P	.185	.926	.329	29.3	67.8	3.57	6.21	2	C	O
41983			.185	.930	.318	30.2	68.4	6.08	10.57	3	C	O
41984	3917A	Boguslawsky G	.181	.948	.262	34.7	71.4	12.26	21.31	2	C	O
41984A			.180	.946	.270	33.7	71.1	2.11	3.67	2	C	O
41984B			.186	.945	.269	34.7	70.9	12.27	21.33	4	C	O
41984C			.188	.943	.275	34.4	70.6	3.71	6.45	3	C	O
41985			.182	.950	.254	35.7	71.8	3.61	6.27	2	C	O
41986	3917	Boguslawsky A	.188	.963	.193	44.2	74.4	3.71	6.45	2	C	O
41986A			.182	.966	.184	44.7	75.0	3.51	6.10	2	C	O
41986B			.180	.969	.169	46.8	75.7	22.68	39.42	5	C	O
41988			.182	.980	.080	66.1	78.5	3.61	6.27	2	C	O
41988A			.180	.980	.085	64.8	78.5	2.89	5.02	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
41988B			+.185	-.982	+.038	+78.4	-79.1	2.89	5.02	2	C	O
41988C			.187	.982	.027	81.9	79.1	2.68	4.66	2	C	O
41990			.196	.908	.370	27.9	65.2	2.91	5.06	1	C	O
41990A			.198	.907	.372	28.0	65.1	2.28	3.96	2	C	O
41990B			.194	.908	.371	27.6	65.2	2.03	3.53	2	C	O
41991			.194	.914	.356	28.6	66.1	22.66	39.39	4	C	O
41991A			.194	.912	.361	28.2	65.8	2.01	3.49	2	C	O
41994		Boguslawsky M	.192	.943	.272	35.2	70.6	4.95	8.60	1	C	O
41994A		Boguslawsky L	.198	.943	.267	36.5	70.6	12.41	21.57	2	C	O
41994B			.190	.946	.263	35.9	71.1	3.51	6.10	2	C	O
41997			.196	.971	.137	55.1	76.2	5.47	9.51	4	C	O
41998			.190	.981	.039	78.3	78.8	3.04	5.28	2	C	O
42004			.203	.046	.978	11.7	2.6	8.08	14.04	5f	C	O
42005			.202	.054	.978	11.7	3.1	6.37	11.07	3f	C	O
42005A			.206	.050	.977	11.9	2.9	6.30	10.95	5f	C	O
42007			.200	.079	.977	11.6	4.5	2.66	4.62	3	C	O
42009			.204	.095	.974	11.8	5.5	12.47	21.67	4	C	O
42015			.211	.054	.976	12.2	3.1	4.20 3.34	7.30 5.81	3f	C	O
42015A			.219	.058	.974	12.7	3.3	2.77	4.81	3	C	O
42016	3687	Saunder A	.212	.070	.975	12.3	4.0	4.12	7.16	1	C	O
42016A			.214	.066	.975	12.4	3.8	2.97	5.16	3	C	O
42016B			.218	.061	.974	12.6	3.5	2.77	4.81	3	C	O
42016C			.218	.065	.974	12.6	3.7	3.73 5.92	6.48 10.29	4	C	O
42019			.213	.090	.973	12.3	5.2	6.98	12.13	4	C	O
42020		Lade A	.223	.006	.975	12.9	0.3	32.53	56.54	5f	C	O
42021			.228	.018	.973	13.2	1.0	9.94	17.28	4f	C	O
42023	3651A	Theon Junior B	.230	.038	.972	13.3	2.2	4.17	7.25	1	C	O
42023A		Lade E	.224	.034	.974	13.0	1.9	13.62	23.67	5	C	O
42023B			.224	.036	.974	13.0	2.1	3.17	5.51	5f	C	O
42029			.228	.090	.969	13.2	5.2	5.29	9.19	4f	C	O
42031		Lade D	.237	.016	.971	13.7	0.9	8.32 9.46	14.46 16.44	4f	C	O
42034			.233	.045	.971	13.5	2.6	3.05	5.30	2	C	O
42037			.238	.070	.969	13.8	4.0	8.31	14.44	5f	C	O
42040			.249	.008	.968	14.4	0.5	19.67	34.19	5	C	O
42042			.248	.022	.969	14.4	1.3	11.48	19.95	4f	C	O
42043			.244	.032	.969	14.1	1.8	28.43	49.42	5	C	O
42043A			.245	.036	.969	14.2	2.1	7.88	13.70	4	C	O
42044			.246	.042	.968	14.3	2.4	7.25	12.60	4f	C	O
42046			.248	.065	.967	14.4	3.7	8.81 7.96	15.31 13.84	4	C	O
42047	3688A	Taylor B	.247	.077	.966	14.3	4.4	16.62	28.89	4	C	O
42049			.240	.095	.966	14.0	5.5	14.37 9.46	24.98 16.44	5	C	O
42050			.254	.002	.967	14.7	0.1	2.08	3.62	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42050A			+.250	-.004	+.968	+14.5	-0.2	4.95 7.97	8.60 13.85	4	C	O
42052	3650A	Theon Senior C	.251	.024	.968	14.5	1.4	3.24	5.63	1	C	O
42052A			.255	.028	.967	14.8	1.6	6.66	11.58	3	C	O
42054	3651B	Theon Junior C	.253	.041	.967	14.7	2.3	2.51	4.36	2	C	O
42054A			.251	.048	.967	14.6	2.8	9.96 7.72	17.31 13.42	4	C	O
42055		Taylor AB	.253	.056	.966	14.7	3.2	11.08	19.26	3	C	O
42058			.257	.083	.963	14.9	4.8	8.91	15.49	4f	C	O
42058A			.259	.086	.962	15.1	4.9	3.77	6.55	3	C	O
42059	3688B	Taylor C	.254	.098	.962	14.8	5.6	2.58	4.48	2	C	O
42060	3649	Theon Senior A	.266	.003	.964	15.4	0.2	3.04	5.28	1	C	O
42061	3648	Theon Senior	.266	.014	.964	15.4	0.8	10.48	18.22	1	C	O
42064			.260	.045	.965	15.1	2.6	3.96	6.88	3	C	O
42064A			.268	.049	.962	15.6	2.8	2.14	3.72	2	C	O
42067	3688	Taylor A	.266	.074	.961	15.5	4.2	22.02	38.27	3	C	O
42068			.263	.087	.961	15.3	5.0	4.95 7.37	8.60 12.81	3	C	O
42068A			.267	.086	.960	15.5	4.9	2.97	5.16	3	C	O
42068B			.269	.085	.959	15.7	4.9	2.28	3.96	3	C	O
42069	3688C	Taylor D	.270	.093	.958	15.7	5.3	4.20	7.30	1	C	O
42069A			.263	.093	.960	15.3	5.3	9.00	15.64	4	C	O
42069B			.267	.096	.959	15.6	5.5	2.28	3.96	2	C	O
42074	3651	Theon Junior	.273	.042	.961	15.9	2.4	10.68	18.56	1	C	O
42080		Delambre J	.289	.006	.957	16.8	0.3	6.62	11.51	4	C	O
42081		Delambre H	.284	.018	.959	16.5	1.0	9.07	15.77	4	C	O
42084			.288	.046	.957	16.8	2.6	8.72	15.16	4	C	O
42089	3686	Taylor	.286	.094	.954	16.7	5.4	23.66 19.44	41.12 33.79	3	C	P
42090			.296	.002	.955	17.2	0.1	2.08	3.62	2	C	O
42098			.290	.082	.954	16.9	4.7	2.79	4.85	3	C	O
42100			.207	.107	.972	12.0	6.1	5.87	10.20	4	C	p
42106			.205	.167	.964	12.0	9.6	14.34	24.93	5	C	O
42108	3729B	Anděl D	.200	.187	.962	11.7	10.8	3.54	6.15	1	C	O
42108A	3729D	Anděl G	.210	.190	.959	12.4	11.0	2.11	3.67	1	C	O
42109			.202	.191	.961	11.9	11.0	2.91	5.06	4	C	O
42109A			.206	.190	.960	12.1	11.0	3.45	6.00	4	C	O
42109B			.208	.196	.958	12.2	11.3	2.04	3.55	2	C	O
42109C			.203	.198	.959	12.0	11.4	5.74	9.98	4	C	O
42110			.217	.108	.970	12.6	6.2	11.41	19.83	5	C	O
42111			.213	.112	.971	12.4	6.4	3.35	5.82	4	C	O
42112			.210	.127	.969	12.2	7.3	12.08	21.00	5	C	O
42112A			.214	.128	.968	12.5	7.4	5.61	9.75	4f	C	O
42114	3726	Dollond D	.215	.142	.966	12.5	8.2	4.87	8.46	1	C	O
42115	3725D	Dollond L	.215	.152	.965	12.6	8.7	3.01	5.23	1	C	O
42118	3729	Anděl	.212	.181	.960	12.4	10.4	19.39	33.70	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42119		Anděl S	+.216	-.197	+.956	+12.7	-11.4	2.48	4.31	1	C	O
42120			.227	.105	.968	13.2	6.0	2.84	4.94	3	C	O
42121			.227	.110	.968	13.2	6.3	2.44	4.24	3	C	O
42121A			.227	.112	.967	13.2	6.4	3.69	6.41	4	C	O
42121B			.227	.114	.967	13.2	6.5	3.34	5.81	3	C	O
42122	3725	Dollond C	.223	.123	.967	13.0	7.1	18.38	31.95	4f	C	O
42124			.220	.147	.964	12.9	8.5	5.78	10.05	4f	C	O
42124A			.223	.140	.965	13.0	8.0	5.76	10.01	4	C	O
42124B		Dollond Y	.226	.148	.963	13.2	8.5	8.31	14.44	3f	C	O
42128A			.228	.186	.956	13.4	10.7	18.08 14.94	31.43 25.97	5	C	P?
42129		Anděl T	.225	.195	.955	13.3	11.2	2.00	3.48	1	C	O
42131			.234	.112	.966	13.6	6.4	2.48	4.31	2	C	O
42131A			.234	.115	.965	13.6	6.6	2.78 3.04	4.83 5.28	3	C	O
42131B			.235	.118	.965	13.7	6.8	4.79	8.33	4	C	O
42131C			.235	.119	.965	13.7	6.8	2.10	3.65	2	C	O
42132			.236	.121	.964	13.8	6.9	3.59	6.24	4	C	O
42133	3724	Dollond B	.238	.135	.962	13.9	7.8	21.44	37.27	4f	C	O
42134			.232	.145	.962	13.6	8.3	5.12	8.90	4	C	p
42135			.235	.150	.960	13.8	8.6	5.02	8.73	4	C	O
42135A			.231	.157	.960	13.5	9.0	3.24	5.63	5	C	p
42135B			.235	.156	.959	13.8	9.0	4.92 7.77	8.55 13.51	4	C	O
42136			.237	.167	.957	13.9	9.6	4.90	8.52	5f	C	O
42137			.230	.178	.957	13.5	10.3	3.42	5.94	4	C	O
42145			.244	.158	.957	14.3	9.1	12.44	21.62	5f	C	O
42145A			.245	.156	.957	14.4	9.0	42.27	73.47	5f	C	O
42148	3722	Dollond	.246	.182	.952	14.5	10.5	6.39	11.11	1	C	O
42150			.250	.107	.962	14.6	6.1	8.36	14.53	5f	C	O
42150A			.255	.107	.961	14.9	6.1	22.00	38.24	5f	C	O
42151		Dollond W	.250	.117	.961	14.6	6.7	6.47	11.25	4	C	O
42156A			.251	.161	.955	14.7	9.3	2.58	4.48	3	C	O
42156B		Dollond T	.255	.164	.953	15.0	9.4	1.91	3.32	2	C	O
42158			.253	.183	.950	14.9	10.5	11.44 17.44	19.88 30.31	5	C	O
42163		Dollond V	.264	.138	.955	15.5	7.9	3.69	6.41	4	C	O
42165			.264	.152	.952	15.5	8.7	79.27	137.78	5	C	p?
42167	3727	Dollond E	.267	.178	.947	15.7	10.3	3.31	5.75	1	C	O
42172		Dollond U	.273	.127	.954	16.0	7.3	1.85	3.22	2	C	O
42179	3718	Descartes C	.276	.191	.942	16.3	11.0	2.20	3.82	1	C	O
42183			.282	.138	.949	16.5	7.9	3.13	5.44	4	C	O
42186		Dollond MB	.286	.166	.944	16.9	9.6	2.09	3.63	1	C	O
42187	3730	Dollond M	.287	.175	.942	16.9	10.1	3.34	5.81	1	C	O
42188			.281	.188	.941	16.6	10.8	6.40	11.12	4	C	O
42188A			.282	.183	.942	16.7	10.5	3.94	6.85	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42190		Taylor E	+.292	-.106	+.951	+17.1	-6.1	7.92	13.77	4f	C	O
42193			.298	.130	.946	17.5	7.5	6.17 7.91	10.72 13.75	4f	C	O
42193A		Zöllner DA	.299	.138	.944	17.6	7.9	4.46	7.75	3	C	O
42194		Zöllner DB	.290	.140	.947	17.0	8.0	2.49	4.33	1	C	O
42195			.299	.150	.942	17.6	8.6	10.69 11.07	18.58 19.24	4	C	p?
42195A		Zöllner DC	.293	.153	.944	17.2	8.8	2.38	4.14	1	C	O
42196		Dollond MA	.293	.164	.942	17.3	9.4	2.08	3.62	1	C	O
42198	3699B	Kant P	.294	.187	.937	17.4	10.8	3.07	5.34	1	C	O
42199			.296	.197	.935	17.6	11.4	6.51	11.32	3	C	O
42200	3729C	Anděl E	.208	.208	.956	12.3	12.0	3.76	6.54	2	C	O
42200A			.207	.205	.957	12.2	11.8	3.10	5.39	4	C	O
42200B		Anděl P	.208	.202	.957	12.3	11.7	10.69	18.58	4f	C	O
42201		Anděl W	.208	.214	.954	12.3	12.4	7.06	12.27	4f	C	O
42202	3735A	Abulfeda Q	.207	.222	.953	12.3	12.8	1.82	3.16	1	C	O
42202A			.202	.220	.954	12.0	12.7	2.08	3.62	2	C	O
42206	3743	Abulfeda N	.205	.261	.943	12.3	15.1	8.06	14.01	3	C	O
42207	3742	Abulfeda M	.202	.279	.939	12.1	16.2	5.91	10.27	2	C	O
42207A			.209	.271	.940	12.5	15.7	2.25	3.91	2	C	O
42208			.204	.286	.936	12.3	16.6	2.52	4.38	2	C	O
42212	3735B	Abulfeda R	.220	.221	.950	13.0	12.8	4.18	7.27	1	C	O
42213			.211	.235	.949	12.5	13.6	2.63	4.57	2	C	O
42213A			.215	.231	.949	12.8	13.4	7.89	13.71	5	C	O
42215			.218	.250	.943	13.0	14.5	2.04	3.55	3	C	O
42217A			.219	.277	.936	13.2	16.1	8.38	14.57	3f	C	O
42218	3744	Abulfeda F	.216	.280	.935	13.0	16.3	6.96	12.10	3	C	O
42221	3735C	Abulfeda S	.225	.212	.951	13.3	12.2	3.00	5.21	2	C	O
42221A			.229	.217	.949	13.6	12.5	2.58	4.48	3	C	O
42222		Abulfeda RA	.223	.221	.949	13.2	12.8	3.07	5.34	2	C	O
42225			.221	.258	.941	13.2	15.0	2.22	3.86	3	C	O
42226			.228	.267	.936	13.7	15.5	2.70	4.69	2	C	O
42231	3735F	Abulfeda W	.234	.217	.948	13.9	12.5	2.97	5.16	2	C	O
42232	3735E	Abulfeda U	.233	.225	.946	13.8	13.0	3.40	5.91	2	C	O
42232A	3735H	Abulfeda Y	.238	.221	.946	14.1	12.8	3.09	5.37	2	C	O
42233	3735	Abulfeda	.234	.239	.942	13.9	13.8	35.64	61.95	3	C	p
42235	3735D	Abulfeda T	.230	.256	.939	13.8	14.8	3.86	6.71	3	C	O
42235A	3735G	Abulfeda X	.234	.259	.937	14.0	15.0	3.89	6.76	3	C	O
42235B		Abulfeda TA	.237	.251	.939	14.2	14.5	2.95	5.13	2	C	O
42235C			.239	.251	.938	14.3	14.5	2.18	3.79	2	C	O
42236			.235	.268	.934	14.1	15.5	4.94	8.59	5	C	O
42237	3751B	Almanon F	.238	.274	.932	14.3	15.9	2.96	5.14	2	C	O
42242			.242	.225	.944	14.4	13.0	2.25	3.91	2	C	O
42243		Abulfeda UB	.242	.230	.943	14.4	13.3	1.99	3.46	2	C	O
42246			.243	.264	.933	14.6	15.3	2.49	4.33	2	C	O
42248			.243	.284	.928	14.7	16.5	2.13	3.70	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42250	3717	Descartes A	+.257	-.209	+.944	+15.2	-12.1	8.85	15.38	1	C	O
42252		Abulfeda YA	.251	.226	.941	14.9	13.1	2.48	4.31	3	C	O
42253			.257	.235	.937	15.3	13.6	9.80	17.03	4f	C	O
42255	3735I	Abulfeda Z	.254	.254	.933	15.2	14.7	2.94	5.11	1	C	O
42257	3751E	Almanon K	.256	.273	.927	15.4	15.8	4.77	8.29	3	C	O
42257A			.252	.271	.929	15.2	15.7	3.07	5.34	2	C	O
42257B			.254	.272	.928	15.3	15.8	2.86	4.97	2	C	O
42258	3751	Almanon	.251	.289	.924	15.2	16.8	28.36	49.29	2	C	O
42260	3716	Descartes	.265	.203	.943	15.7	11.7	27.88	48.46	4	C	O
42260A			.266	.209	.941	15.8	12.1	2.08	3.62	2	C	O
42261			.266	.218	.939	15.8	12.6	2.08	3.62	3	C	O
42262			.260	.226	.939	15.5	13.1	7.13	12.39	5	C	O
42262A			.265	.221	.939	15.8	12.8	3.57 2.49	6.21 4.33	4	C	O
42262B			.268	.223	.937	16.0	12.9	5.95	10.34	5	C	O
42263	3738B	Abulfeda BC	.265	.238	.934	15.8	13.8	2.28	3.96	1	C	O
42264	3738A	Abulfeda BB	.260	.246	.934	15.6	14.2	2.45	4.26	1	C	O
42264A			.262	.247	.933	15.7	14.3	2.06	3.58	2	C	O
42264B			.263	.249	.932	15.8	14.4	2.38	4.14	2	C	O
42266			.264	.269	.926	15.9	15.6	8.85	15.38	5f	C	O
42267	3754	Almanon C	.265	.278	.923	16.0	16.1	9.48	16.48	2	C	O
42271			.270	.216	.938	16.1	12.5	7.19	12.50	4	C	O
42275	3737	Abulfeda B	.274	.250	.929	16.4	14.5	8.82	15.33	2	C	O
42277			.278	.277	.920	16.8	16.1	3.98	6.92	4	C	O
42278			.271	.280	.921	16.4	16.3	5.86	10.19	4	C	O
42278A			.276	.285	.918	16.7	16.6	2.24	3.89	2	C	O
42280	3699A	Kant O	.289	.208	.934	17.2	12.0	3.99	6.94	3	C	O
42280A			.281	.204	.938	16.7	11.8	2.88	5.01	4	C	O
42280B			.282	.201	.938	16.7	11.6	2.97	5.16	4	C	O
42283			.282	.235	.930	16.9	13.6	6.74	11.72	4	C	O
42283A		Kant QD	.285	.235	.929	17.1	13.6	3.03	5.27	3	C	O
42284			.283	.244	.928	17.0	14.1	9.91	17.23	5	C	O
42285	3738	Abulfeda BA	.281	.254	.925	16.9	14.7	7.44	12.93	2	C	O
42286			.288	.263	.921	17.4	15.2	2.24	3.89	2	C	O
42288			.283	.285	.916	17.2	16.6	10.22	17.76	5	C	O
42288A			.283	.289	.915	17.2	16.8	3.96	6.88	4	C	O
42289	3759A	Tacitus F	.289	.294	.911	17.6	17.1	5.48	9.53	3	C	O
42289A			.283	.292	.914	17.2	17.0	3.96	6.88	4	C	O
42291		Kant DA	.291	.211	.933	17.3	12.2	3.00	5.21	3	C	O
42293		Kant QC	.297	.230	.927	17.8	13.3	3.53	6.14	3	C	O
42295			.293	.253	.922	17.6	14.7	11.88	20.65	4	C	?
42299	3759B	Tacitus G	.299	.300	.906	18.3	17.5	3.63	6.31	2	C	O
42299A			.295	.298	.908	18.0	17.3	2.67	4.64	2	C	O
42300		Geber H	.206	.308	.929	12.5	17.9	2.06	3.58	2	C	O
42301			.200	.312	.929	12.2	18.2	2.53	4.40	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42302			+.204	-.324	+.924	+12.5	-18.9	5.50	9.56	4	C	O
42302A			.206	.320	.925	12.6	18.7	3.21	5.58	3	C	O
42305	3780G	Abenezra H	.206	.360	.910	12.8	21.1	2.34	4.07	2	C	O
42307	3783	Azophi	.205	.377	.903	12.8	22.1	27.46	47.73	2f	C	O
42312	3773	Geber B	.212	.326	.921	13.0	19.0	11.05	19.21	2	C	O
42314	3774C	Geber F	.214	.341	.915	13.2	19.9	2.93	5.09	2	C	O
42314A			.215	.345	.914	13.2	20.2	2.32	4.03	3	C	O
42315	3774B	Geber E	.211	.351	.912	13.0	20.5	3.44	5.98	1	C	O
42316		Azophi J	.213	.363	.907	13.2	21.3	4.57	7.94	3	C	O
42317	3784B	Azophi C	.210	.371	.905	13.1	21.8	3.06	5.32	1	C	O
42318			.219	.380	.899	13.7	22.3	2.62	4.55	3	C	O
42319	3784D	Azophi E	.219	.398	.891	13.8	23.5	3.02	5.25	1	C	O
42320	3751A	Almanon E	.225	.307	.925	13.7	17.9	3.13	5.44	3	C	O
42323	3771	Geber	.227	.333	.915	13.9	19.5	26.31	45.73	2f	C	O
42327	3784E	Azophi F	.222	.379	.898	13.9	22.3	3.69	6.41	1	C	O
42328			.222	.381	.898	13.9	22.4	2.01	3.49	3	C	O
42328A			.223	.386	.895	14.0	22.7	2.01	3.49	2	C	O
42329			.223	.392	.893	14.0	23.1	2.57	4.47	3	C	O
42329A			.224	.398	.890	14.1	23.5	2.17	3.77	3	C	O
42334			.239	.346	.907	14.8	20.2	6.75	11.73	4	C	O
42337	3772	Geber A	.237	.372	.897	14.8	21.8	7.76	13.49	2	C	O
42337A	3774	Geber C	.239	.377	.895	15.0	22.1	6.02	10.46	2	C	O
42338	3788B	Sacrobosco K	.234	.389	.891	14.7	22.9	3.44	5.98	1	C	O
42338A			.231	.386	.893	14.5	22.7	2.06	3.58	2	C	O
42340	3751C	Almanon G	.240	.308	.921	14.6	17.9	2.80	4.87	2	C	O
42342	3751D	Almanon H	.249	.326	.912	15.3	19.0	3.22	5.60	2	C	O
42343			.249	.337	.908	15.3	19.7	6.09	10.59	3	C	?
42343A			.249	.337	.908	15.3	19.7	2.07	3.60	2	C	O
42345			.240	.355	.904	14.9	20.8	2.91	5.06	3	C	O
42345A			.248	.350	.903	15.4	20.5	2.09	3.63	2	C	O
42348			.248	.386	.889	15.6	22.7	2.10	3.65	2	C	O
42350	3752	Almanon A	.252	.305	.918	15.3	17.8	6.09	10.59	2	C	O
42351	3753	Almanon B	.250	.314	.916	15.3	18.3	14.21	24.70	2	C	P
42351A	3755	Almanon D	.255	.319	.913	15.6	18.6	3.42	5.94	1	C	O
42353			.259	.338	.905	16.0	19.8	2.22	3.86	2	C	O
42354			.250	.340	.907	15.4	19.9	3.85	6.69	3	C	O
42354A		Geber J	.257	.342	.904	15.9	20.0	2.09	3.63	1	C	O
42356	3794A	Sacrobosco O	.258	.361	.896	16.1	21.2	3.22	5.60	2	C	O
42358		Sacrobosco R	.252	.380	.890	15.8	22.3	11.92	20.72	3f	C	O
42359	3791	Sacrobosco C	.252	.390	.886	15.9	23.0	7.68	13.35	1	C	O
42360			.260	.309	.915	15.9	18.0	13.78	23.95	5	C	O
42361		Almanon R	.260	.312	.914	15.9	18.2	2.13	3.70	2	C	O
42362			.266	.329	.906	16.4	19.2	2.63	4.57	1	C	O
42363			.263	.330	.907	16.2	19.3	2.95	5.13	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42365	3795	Sacrobosco G	+.261	-.353	+.898	+16.2	-20.7	10.76	18.70	2	C	O
42365A			.267	.356	.896	16.6	20.9	2.50	4.35	3	C	O
42366	3794	Sacrobosco F	.270	.361	.893	16.8	21.2	10.27	17.85	2	C	p
42370			.273	.307	.912	16.7	17.9	10.86	18.88	5	C	O
42371		Almanon Q	.278	.310	.909	17.0	18.1	3.01	5.23	2	C	O
42371A	3755A	Almanon P	.277	.318	.907	17.0	18.5	4.57	7.94	3	C	O
42371B			.274	.313	.909	16.8	18.2	3.35	5.82	3	C	O
42371C			.278	.318	.906	17.1	18.5	11.00	19.12	4	C	?
42372	3751F	Almanon L	.270	.325	.906	16.6	19.0	3.83	6.66	1	C	O
42372A			.278	.329	.902	17.1	19.2	2.84	4.94	1	C	O
42372B			.270	.321	.908	16.6	18.7	2.06	3.58	1	C	O
42373			.270	.330	.905	16.6	19.3	2.19	3.81	2	C	O
42374			.275	.341	.899	17.0	19.9	6.53	11.35	4	C	O
42375	3794B	Sacrobosco P	.279	.353	.893	17.3	20.7	2.97	5.16	1	C	O
42375A			.278	.355	.893	17.3	20.8	2.16	3.75	1	C	O
42381			.283	.318	.905	17.4	18.5	2.11	3.67	3	C	O
42385			.288	.356	.889	18.0	20.9	2.12	3.68	2	C	O
42386	3792	Sacrobosco D	.284	.368	.885	17.8	21.6	12.70	22.07	3f	C	O
42386A		Sacrobosco Q	.281	.369	.886	17.6	21.7	26.54	46.13	3	C	?
42387			.282	.374	.884	17.7	22.0	4.95	8.60	5	C	O
42387A			.285	.375	.882	17.9	22.0	2.11	3.67	2	C	O
42387B			.287	.378	.880	18.1	22.2	2.06	3.58	3	C	O
42388			.286	.382	.879	18.0	22.5	13.02	22.63	3	C	O
42394	3804	Fermat D	.291	.345	.892	18.1	20.2	7.89	13.71	4	C	O
42395			.290	.354	.889	18.1	20.7	3.67	6.38	2	C	O
42395A			.293	.350	.890	18.2	20.5	2.64	4.59	3	C	O
42396	3803	Fermat C	.297	.360	.884	18.6	21.1	8.11	14.10	3	C	O
42396A			.293	.361	.885	18.3	21.2	3.02	5.25	2	C	O
42396B			.295	.363	.884	18.5	21.3	2.66	4.62	3	C	O
42397			.295	.376	.878	18.6	22.1	2.67	4.64	1	C	O
42397A			.295	.378	.878	18.6	22.2	2.16	3.75	2	C	O
42398			.293	.381	.877	18.5	22.4	2.07	3.60	3	C	O
42398A			.294	.383	.876	18.6	22.5	2.77	4.81	2	C	O
42398B			.298	.388	.872	18.9	22.8	2.01	3.49	1	C	O
42399		Sacrobosco HA	.292	.396	.871	18.5	23.3	5.94	10.32	2	C	O
42399A			.290	.393	.873	18.4	23.1	2.51	4.36	2	C	O
42402	3814	Pontanus E	.208	.426	.880	13.3	25.2	7.33	12.74	3	C	KK
42402A			.208	.426	.880	13.3	25.2	4.96	8.62	3	C	K
42402B			.208	.426	.880	13.3	25.2	3.45	6.00	3	C	O
42402C			.205	.426	.881	13.1	25.2	2.69	4.68	2	C	O
42403	3813	Pontanus D	.206	.437	.876	13.2	25.9	11.52	20.02	2	C	p
42403A			.201	.430	.880	12.9	25.5	7.27	12.64	5	C	O
42403B			.207	.434	.877	13.3	25.7	2.47	4.29	2	C	O
42404			.206	.446	.871	13.3	26.5	6.75	11.73	5	C	O
42405			.207	.456	.866	13.4	27.1	11.88	20.65	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42405A			+.209	-.454	+.866	+13.6	-27.0	5.47	9.51	3	C	O
42406			.206	.461	.863	13.4	27.5	3.84	6.67	3	C	O
42406A			.208	.465	.861	13.6	27.7	6.76	11.75	3	C	O
42406B			.209	.461	.862	13.6	27.5	3.45	6.00	2	C	O
42407	3809B	Pontanus L	.204	.479	.854	13.4	28.6	3.46	6.01	2	C	O
42408		Pontanus V	.200	.489	.849	13.3	29.3	19.04	33.09	4	C	O
42409			.200	.500	.843	13.4	30.0	3.33	5.79	2	C	O
42409A			.203	.499	.842	13.5	29.9	2.94	5.11	3	C	O
42410			.210	.405	.890	13.3	23.9	2.16	3.75	2	C	O
42410A			.210	.409	.888	13.3	24.1	2.43	4.22	2	C	O
42410B			.211	.402	.891	13.3	23.7	3.12	5.42	4	C	O
42411	3814A	Pontanus N	.218	.417	.882	13.9	24.6	5.87	10.20	1	C	O
42411A	3784C	Azophi D	.212	.412	.886	13.5	24.3	5.11	8.88	1	C	O
42413	3813B	Pontanus O	.219	.439	.871	14.1	26.0	5.86	10.19	2	C	O
42413A			.211	.433	.876	13.5	25.7	2.82	4.90	2	C	O
42415			.215	.453	.865	14.0	26.9	3.16	5.49	3	C	O
42419	3809C	Pontanus M	.212	.495	.843	14.1	29.7	3.12	5.42	2	C	O
42419A		Pontanus MA	.217	.494	.842	14.5	29.6	2.03	3.53	1	C	O
42420		Sacrobosco U	.226	.406	.885	14.3	24.0	2.82	4.90	2	C	O
42420A			.223	.402	.888	14.1	23.7	2.26	3.93	3	C	O
42424			.229	.442	.867	14.8	26.2	17.38	30.21	5	C	O
42426	3809D	Pontanus Q	.222	.460	.860	14.5	27.4	3.07	5.34	2	C	O
42427	3809	Pontanus	.220	.476	.851	14.5	28.4	30.96	53.81	3	C	P
42427A			.228	.478	.848	15.0	28.6	3.59	6.24	3	C	O
42429	3812A	Pontanus P	.221	.499	.838	14.8	29.9	1.93	3.35	2	C	O
42429A		Pontanus CB	.228	.497	.837	15.2	29.8	15.10	26.25	3	C	O
42430	3788A	Sacrobosco J	.231	.400	.887	14.6	23.6	2.94	5.11	2	C	O
42430A			.236	.407	.882	15.0	24.0	2.19 3.81	3.81 6.62	3	C	O
42431			.237	.416	.878	15.1	24.6	2.67	4.64	3	C	O
42431A			.236	.414	.879	15.0	24.5	3.75	6.52	3	C	O
42432			.230	.422	.877	14.7	25.0	3.50	6.08	3	C	O
42432A			.231	.426	.875	14.8	25.2	12.85	22.34	4	C	O
42433	3788C	Sacrobosco L	.236	.432	.870	15.2	25.6	5.04	8.76	1	C	O
42433A			.237	.434	.869	15.3	25.7	5.08	8.83	4	C	?
42435			.234	.455	.859	15.2	27.1	13.01	22.61	4	C	O
42435A			.237	.458	.857	15.5	27.3	13.14	22.84	5	C	O
42436		Pontanus RA	.233	.466	.854	15.3	27.8	2.96	5.14	1	C	O
42437	3809E	Pontanus R	.238	.472	.849	15.7	28.2	3.85	6.69	2	C	O
42438		Pontanus XA	.236	.486	.841	15.7	29.1	3.69	6.41	2	C	O
42438A			.233	.486	.842	15.5	29.1	2.85	4.95	3	C	O
42439		Pontanus CA	.231	.498	.836	15.4	29.9	6.90	11.99	3	C	O
42439A			.235	.497	.835	15.7	29.8	2.96	5.14	2	C	O
42439B			.237	.495	.836	15.8	29.7	4.57	7.94	3	C	O
42440			.245	.401	.883	15.5	23.6	4.95 2.36	8.60 4.10	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42440A			+.242	-.405	+.882	+15.3	-23.9	3.79	6.59	3	C	O
42441			.244	.416	.876	15.6	24.6	2.01	3.49	2	C	O
42442			.240	.423	.874	15.4	25.0	5.84	10.15	5	C	O
42442A			.247	.425	.871	15.8	25.2	4.61	8.01	3	C	O
42443			.242	.435	.867	15.6	25.8	24.03	41.77	5	C	O
42445			.248	.455	.855	16.2	27.1	9.49	16.50	4	C	O
42447			.243	.474	.846	16.0	28.3	3.77	6.55	3	C	O
42447A			.245	.471	.847	16.1	28.1	2.79	4.85	3	C	O
42447B			.245	.476	.845	16.2	28.4	4.20	7.30	3	C	O
42447C			.246	.479	.843	16.3	28.6	4.72	8.20	3	C	O
42448	3809F	Pontanus T	.249	.488	.837	16.6	29.2	4.73	8.22	2	C	O
42448A		Pontanus X	.240	.480	.844	15.9	28.7	13.67 7.40	23.76 12.86	3	C	O
42448B			.246	.481	.842	16.3	28.8	2.57	4.47	3	C	O
42448C			.247	.484	.839	16.4	28.9	4.79	8.33	3	C	O
42449		Pontanus TA	.247	.495	.833	16.5	29.7	17.57	30.54	3	C	O
42449A			.244	.491	.836	16.3	29.4	2.89	5.02	2	C	O
42450	3789	Sacrobosco A	.254	.408	.877	16.2	24.1	10.18	17.69	1	C	O
42450A			.259	.402	.878	16.4	23.7	2.14	3.72	1	C	O
42451		Sacrobosco V	.253	.414	.874	16.1	24.5	2.43	4.22	2	C	O
42452	3788D	Sacrobosco M	.254	.427	.868	16.3	25.3	2.90	5.04	3	C	O
42454		Sacrobosco X	.251	.447	.859	16.3	26.6	13.79	23.97	3	C	O
42455	3788E	Sacrobosco N	.255	.455	.853	16.6	27.1	3.53	6.14	1	C	O
42455A			.251	.458	.853	16.4	27.3	2.34	4.07	3	C	O
42455B			.258	.450	.855	16.8	26.7	2.05	3.56	2	C	O
42457			.256	.476	.841	16.9	28.4	2.36	4.10	3	C	O
42457A			.257	.472	.843	16.9	28.2	2.00	3.48	2	C	O
42459			.259	.499	.827	17.4	29.9	2.24	3.89	3	C	O
42459A			.257	.494	.831	17.2	29.6	2.81	4.88	2	C	O
42459B			.258	.496	.829	17.3	29.7	4.73	8.22	3	C	O
42460	3790	Sacrobosco B	.266	.407	.874	16.9	24.0	8.28	14.39	2	C	O
42460A	3788	Sacrobosco	.263	.401	.878	16.7	23.6	55.15	95.86	4	C	O
42462		Sacrobosco T	.263	.421	.868	16.9	24.9	6.98 5.36	12.13 9.32	3	C	O
42462A			.265	.424	.866	17.0	25.1	8.75 5.02	15.21 8.73	3	C	O
42462B			.265	.429	.864	17.1	25.4	4.49	7.80	3	C	O
42463			.266	.431	.862	17.1	25.5	15.03	26.12	4	C	O
42464			.264	.448	.854	17.2	26.6	8.85	15.38	5	C	O
42464A			.266	.442	.857	17.2	26.2	11.35	19.73	5	C	O
42466		Wilkins D	.268	.469	.842	17.7	28.0	20.28	35.25	4	C	O
42467			.260	.474	.841	17.2	28.3	2.41	4.19	2	C	O
42468	3809H	Pontanus W	.264	.487	.833	17.6	29.1	3.95	6.87	1	C	O
42468A		Pontanus Y	.261	.482	.836	17.3	28.8	13.32	23.15	4	C	O
42468B			.267	.481	.835	17.7	28.8	2.03	3.53	3	C	O
42468C			.266	.484	.834	17.7	28.9	2.53	4.40	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42469	3809G	Pontanus U	+.262	-.492	+.830	+17.5	-29.5	2.96	5.14	2	C	O
42469A			.265	.494	.828	17.7	29.6	3.95	6.87	3	C	O
42469B			.264	.497	.827	17.7	29.8	2.07	3.60	1	C	O
42469C			.265	.490	.830	17.7	29.3	3.61	6.27	2	C	O
42471		Sacrobosco W	.271	.412	.870	17.3	24.3	1.37	2.38	2	C	O
42473			.271	.433	.860	17.5	25.7	2.88	5.01	3	C	O
42473A			.274	.432	.859	17.7	25.6	8.24	14.32	5	C	?
42474	3793	Sacrobosco E	.274	.440	.855	17.8	26.1	7.19	12.50	4	C	O
42474A		Sacrobosco S	.277	.447	.851	18.0	26.6	11.04	19.19	3	C	O
42475			.275	.454	.848	18.0	27.0	8.78 7.24	15.26 12.58	5	C	O
42477		Wilkins H	.279	.479	.832	18.5	28.6	3.61	6.27	2	C	O
42478			.274	.485	.830	18.3	29.0	2.66	4.62	2	C	O
42478A			.271	.482	.833	18.0	28.8	4.24	7.37	4	C	O
42478B			.276	.480	.833	18.3	28.7	3.31	5.75	2	C	O
42479			.271	.490	.829	18.1	29.3	17.13	29.77	5	C	O
42482			.283	.427	.859	18.2	25.3	12.17	21.15	5	C	O
42483			.287	.430	.856	18.5	25.5	3.67	6.38	3	C	?
42483A			.284	.435	.854	18.4	25.8	12.88	22.39	5	C	O
42484			.280	.442	.852	18.2	26.2	7.57	13.16	5	C	O
42484A			.282	.440	.853	18.3	26.1	3.47	6.03	3	C	O
42484B			.288	.449	.846	18.8	26.7	17.66 8.20	30.70 14.25	4	C	O
42486			.288	.467	.836	19.0	27.8	3.60	6.26	3	C	O
42487			.282	.476	.833	18.7	28.4	17.55	30.50	5	C	O
42488		Wilkins A	.282	.487	.827	18.8	29.1	7.68	13.35	2	C	p?
42488A			.287	.482	.828	19.1	28.8	2.47	4.29	3	C	O
42488B			.284	.482	.829	18.9	28.8	2.56	4.45	3	C	O
42489		Wilkins B	.282	.493	.823	18.9	29.5	4.34	7.54	3	C	O
42489A			.283	.490	.825	18.9	29.3	4.23	7.35	3	C	O
42490	3795A	Sacrobosco H	.294	.402	.867	18.7	23.7	7.51	13.05	2	C	O
42492			.297	.427	.854	19.2	25.3	6.23	10.83	5	C	O
42492A			.298	.423	.856	19.2	25.0	2.43	4.22	5	C	O
42493			.295	.433	.852	19.1	25.7	5.80	10.08	5	C	O
42494			.299	.442	.846	19.5	26.2	16.93	29.43	5	C	O
42496			.296	.467	.833	19.6	27.8	19.02 10.92	33.06 18.98	5	C	O
42497		Wilkins E	.293	.474	.830	19.4	28.3	4.90	8.52	3	C	O
42497A			.299	.478	.826	19.9	28.6	4.60	8.00	4	C	O
42499	4102F	Wilkins	.293	.492	.820	19.7	29.5	34.11	59.29	3f	C	O
42501		Goodacre K	.200	.514	.834	13.5	30.9	6.47	11.25	3	C	p
42502	3825B	Goodacre B	.201	.528	.825	13.7	31.9	5.16	8.97	2	C	O
42503	3825C	Goodacre C	.207	.534	.820	14.2	32.3	2.99	5.20	1	C	O
42504	3825	Goodacre	.205	.540	.816	14.1	32.7	26.66	46.34	3	C	pp
42504A		Goodacre G	.201	.549	.811	13.9	33.3	8.96	15.57	3	C	p
42504B			.202	.547	.812	14.0	33.2	5.34	9.28	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42504C			+.209	-.548	+.810	+14.5	-33.2	2.87	4.99	3	C	0
42505			.207	.558	.804	14.4	33.9	2.21	3.84	2	C	0
42505A			.208	.554	.806	14.5	33.6	2.05	3.56	2	C	0
42505B			.209	.556	.804	14.6	33.8	7.00	12.17	3	C	0
42507			.208	.571	.794	14.7	34.8	9.24	16.06	3	C	0
42507A			.209	.578	.789	14.8	35.3	3.30	5.74	3	C	0
42508	3820A	Gemma Frisius Q	.207	.585	.784	14.8	35.8	5.23	9.09	2	C	0
42508A			.205	.581	.788	14.6	35.5	5.39	9.37	2	C	0
42508B			.202	.586	.785	14.4	35.9	4.11	7.14	3	C	0
42508C			.207	.589	.781	14.8	36.1	3.09	5.37	4	C	0
42509			.205	.599	.774	14.8	36.8	2.87	4.99	2	C	0
42509A			.206	.591	.780	14.8	36.2	2.26	3.93	2	C	0
42509B			.208	.596	.776	15.0	36.6	3.60	6.26	3	C	0
42510			.211	.508	.835	14.2	30.5	6.17	10.72	5	C	0
42510A			.212	.505	.837	14.2	30.3	5.24	9.11	5	C	0
42511			.211	.510	.834	14.2	30.7	4.00	6.95	5	C	0
42512		Goodacre F	.214	.530	.821	14.6	32.0	2.62	4.55	1	C	0
42514			.219	.544	.810	15.1	33.0	9.04	15.71	5	C	0
42514A			.218	.547	.808	15.1	33.2	2.87	4.99	2	C	0
42515	3825D	Goodacre D	.217	.551	.806	15.1	33.4	4.60	8.00	2	C	0
42515A			.219	.557	.801	15.3	33.8	6.04	10.50	5	C	0
42515B			.213	.558	.802	14.9	33.9	3.82	6.64	2	C	0
42515C			.210	.553	.806	14.6	33.6	2.99	5.20	5	C	0
42515D			.218	.558	.801	15.2	33.9	3.84	6.67	4	C	0
42516			.219	.560	.799	15.3	34.1	2.05	3.56	2	C	0
42516A			.219	.568	.793	15.4	34.6	3.47	6.03	4	C	0
42516B			.216	.569	.793	15.2	34.7	2.55	4.43	3	C	0
42517	3820C	Gemma Frisius S	.212	.577	.789	15.0	35.2	3.29	5.72	2	C	0
42517A			.214	.571	.793	15.1	34.8	2.46	4.28	3	C	0
42518	3820	Gemma Frisius A	.214	.585	.782	15.3	35.8	39.11	67.98	3	C	0
42519			.213	.599	.772	15.4	36.8	4.50	7.82	3	C	0
42519A			.218	.599	.771	15.8	36.8	3.49	6.07	3	C	0
42520			.224	.509	.831	15.1	30.6	6.17	10.72	3	C	0
42521	3810	Pontanus A	.226	.517	.826	15.3	31.1	5.90	10.26	2	C	0
42521A	3816	Pontanus G	.227	.510	.830	15.3	30.7	11.19	19.45	3	C	0
42521B			.220	.511	.831	14.8	30.7	2.10	3.65	3	C	0
42521C			.224	.515	.827	15.1	31.0	2.01	3.49	2	C	0
42522			.224	.529	.819	15.3	31.9	2.19	3.81	1	C	0
42522A			.229	.524	.820	15.6	31.6	3.04	5.28	3	C	0
42522B			.227	.526	.820	15.5	31.7	3.44	5.98	3	C	0
42523			.223	.533	.816	15.3	32.2	9.97	17.33	5	C	0
42523A			.225	.538	.812	15.5	32.5	2.77	4.81	2	C	0
42524	3825E	Goodacre E	.225	.545	.808	15.6	33.0	3.59	6.24	1	C	0
42524A			.224	.542	.810	15.5	32.8	3.14	5.46	2	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42526		Gemma Frisius X	+.225	-.569	+.791	+15.9	-34.7	8.50	14.77	3	C	0
42526A			.220	.566	.795	15.5	34.5	2.43	4.22	4	C	0
42529			.228	.596	.770	16.5	36.6	2.85	4.95	2	C	0
42530	3812	Pontanus C	.231	.502	.833	15.5	30.1	14.45	25.12	3	C	p
42530A			.230	.509	.829	15.5	30.6	4.06	7.06	3	C	0
42531	3811	Pontanus B	.235	.513	.826	15.9	30.9	7.13	12.39	3	C	0
42531A			.233	.515	.825	15.8	31.0	2.20	3.82	3	C	0
42532	3817	Pontanus H	.237	.521	.820	16.1	31.4	17.08	29.69	3	C	p
42532A			.231	.526	.819	15.8	31.7	4.31	7.49	3	C	0
42532B			.231	.529	.817	15.8	31.9	3.51	6.10	2	C	0
42534		Goodacre H	.233	.541	.808	16.1	32.8	2.36	4.10	1	C	0
42534A			.232	.547	.804	16.1	33.2	2.08	3.62	2	C	0
42535			.238	.554	.798	16.6	33.6	8.08	14.04	4	C	0
42536	3821A	Gemma Frisius U	.238	.568	.788	16.8	34.6	4.94	8.59	2	C	0
42536A			.232	.560	.795	16.3	34.1	3.01	5.23	3	C	0
42536B			.235	.562	.793	16.5	34.2	4.40	7.65	3	C	0
42536C		Goodacre P	.238	.560	.794	16.7	34.1	12.53	21.78	3	C	0
42536D			.230	.560	.796	16.1	34.1	4.62	8.03	3	C	0
42537	3820D	Gemma Frisius T	.233	.572	.786	16.5	34.9	4.64	8.07	1	C	0
42537A			.234	.576	.783	16.6	35.2	3.01	5.23	3	C	0
42537B			.238	.571	.786	16.9	34.8	3.85	6.69	4	C	0
42538			.234	.588	.774	16.8	36.0	8.21	14.27	4	C	0
42539			.230	.592	.772	16.6	36.3	2.77	4.81	2	C	0
42539A			.233	.593	.771	16.8	36.4	5.85	10.17	2	C	0
42539B			.232	.598	.767	16.8	36.7	2.08	3.62	2	C	0
42540			.240	.502	.831	16.1	30.1	2.34	4.07	3	C	0
42541			.249	.513	.821	16.9	30.9	3.03	5.27	2	C	0
42542	3817A	Pontanus S	.247	.523	.816	16.8	31.5	3.75	6.52	1	C	0
42543			.246	.534	.809	16.9	32.3	2.05	3.56	3	C	0
42543A			.246	.535	.808	16.9	32.3	2.05	3.56	3	C	0
42544	4048A	Zagut O	.241	.545	.803	16.7	33.0	6.76	11.75	2	C	0
42544A			.244	.540	.806	16.9	32.7	6.47	11.25	3	C	0
42544B			.245	.543	.803	17.0	32.9	2.98	5.18	3	C	0
42546			.246	.566	.787	17.4	34.5	2.47	4.29	3	C	0
42548	3821	Gemma Frisius B	.240	.581	.778	17.2	35.5	23.54	40.92	3	C	0
42548A			.249	.583	.773	17.8	35.7	3.88	6.74	3	C	0
42549			.241	.591	.770	17.4	36.2	6.79	11.80	4	C	0
42552			.252	.523	.814	17.2	31.5	2.14	3.72	1	C	0
42552A			.253	.529	.810	17.3	31.9	5.80	10.08	3	C	0
42552B			.252	.520	.816	17.2	31.3	2.84	4.94	3	C	0
42552C			.255	.520	.815	17.4	31.3	2.15	3.74	3	C	0
42553	4048B	Zagut P	.253	.536	.805	17.4	32.4	8.45	14.69	1	C	p
42553A			.256	.530	.808	17.6	32.0	23.43	40.72	3	C	0
42554			.254	.540	.802	17.6	32.7	2.05	3.56	2	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42554A			+.255	-.541	+.801	+17.7	-32.8	2.00	3.48	3	C	O
42555			.258	.558	.789	18.1	33.9	4.62	8.03	4	C	O
42555A			.257	.550	.795	17.9	33.4	2.77	4.81	3	C	O
42555B			.256	.556	.791	17.9	33.8	3.08	5.35	3	C	O
42555C			.257	.551	.794	17.9	33.4	9.62	16.72	3	C	O
42555D			.259	.555	.791	18.1	33.7	3.18	5.53	3	C	O
42556			.257	.560	.788	18.1	34.1	4.28	7.44	4	C	O
42556A			.255	.568	.783	18.0	34.6	3.23	5.61	4	C	O
42557	3828	Gemma Frisius J	.254	.575	.778	18.1	35.1	6.99	12.15	3	C	O
42557A			.250	.570	.783	17.7	34.8	7.98	13.87	5	C	O
42559	3845	Büsching E	.253	.598	.761	18.4	36.7	8.62	14.98	1	C	O
42559A			.254	.590	.766	18.3	36.2	4.11	7.14	4	C	O
42559B			.252	.594	.764	18.3	36.4	7.85	13.64	4	C	O
42559C			.259	.595	.761	18.8	36.5	3.17	5.51	3	C	O
42560	4051A	Zagut F	.261	.505	.823	17.6	30.3	4.85	8.43	1	C	O
42560A			.267	.508	.819	18.1	30.5	3.74	6.50	3	C	O
42565			.262	.553	.791	18.3	33.6	57.09	99.23	5	C	O
42566		Celsius D	.269	.569	.777	19.1	34.7	10.66	18.53	3	C	O
42567			.261	.574	.776	18.6	35.0	5.65	9.82	5	C	O
42568	3822	Gemma Frisius C	.262	.582	.770	18.8	35.6	20.00	34.76	4	C	O
42568A			.265	.589	.763	19.1	36.1	17.45	30.33	5	C	?
42569			.263	.591	.763	19.0	36.2	3.08	5.35	3	C	O
42569A			.264	.594	.760	19.2	36.4	8.21	14.27	5	C	O
42570		Wilkins G	.274	.500	.822	18.4	30.0	3.42	5.94	2	C	O
42570A			.271	.508	.818	18.3	30.5	3.57	6.21	3	C	O
42571	4049	Zagut C	.272	.512	.815	18.5	30.8	13.86	24.09	3	C	p
42571A			.272	.518	.811	18.5	31.2	4.83	8.40	3	C	O
42571B			.277	.510	.814	18.8	30.7	2.87	4.99	2	C	O
42572			.272	.520	.810	18.6	31.3	3.98	6.92	4	C	O
42573	4048	Zagut B	.272	.532	.802	18.7	32.1	18.18	31.60	2	C	pp
42576	4041A	Celsius B	.277	.568	.775	19.7	34.6	3.19	5.54	3	C	O
42576A			.274	.568	.776	19.4	34.6	4.82	8.38	4	C	O
42576B			.277	.563	.779	19.6	34.3	4.41	7.67	2	C	O
42576C			.276	.560	.781	19.5	34.1	6.68 4.16	11.61 7.23	3	C	O
42577			.279	.575	.769	19.9	35.1	10.25	17.82	5	C	O
42579	4039A	Rabbi Levi H	.278	.594	.755	20.2	36.4	4.47	7.77	2	C	O
42579A			.272	.597	.755	19.8	36.7	2.87	4.99	4	C	O
42580			.289	.501	.816	19.5	30.1	5.82	10.12	4	C	O
42580A			.286	.500	.817	19.3	30.0	3.90	6.78	5	C	O
42581			.284	.519	.806	19.4	31.3	3.04	5.28	4	C	O
42582	4050	Zagut D	.283	.522	.805	19.4	31.5	8.99	15.63	2	C	O
42584		Celsius E	.289	.543	.788	20.1	32.9	4.90	8.52	2	C	O
42584A			.286	.546	.787	20.0	33.1	3.14	5.46	3	C	O
42585	4041	Celsius H	.286	.557	.780	20.1	33.8	3.28	5.70	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42585A			+.280	-.557	+.782	+19.7	-33.8	4.72	8.20	4	C	O
42586	4045	Celsius	.285	.560	.778	20.1	34.1	20.95	36.41	3	C	O
42586A			.280	.560	.780	19.8	34.1	2.98	5.18	3	C	O
42586B			.282	.567	.774	20.0	34.5	2.77	4.81	3	C	O
42588	4039	Rabbi Levi F	.284	.589	.757	20.6	36.1	7.08	12.31	2	C	O
42589			.290	.594	.750	21.1	36.4	2.45	4.26	3	C	O
42589A			.285	.593	.753	20.7	36.4	2.46	4.28	3	C	O
42589B			.287	.594	.752	20.9	36.4	3.08	5.35	3	C	O
42589C			.281	.595	.753	20.5	36.5	2.41	4.19	3	C	O
42589D			.286	.595	.751	20.8	36.5	3.08	5.35	3	C	O
42590			.299	.506	.809	20.3	30.4	2.98	5.18	3	C	O
42591		Wilkins C	.295	.512	.807	20.1	30.8	11.29	19.62	3	C	O
42592			.294	.520	.802	20.1	31.3	2.98	5.18	2	C	O
42592A			.295	.527	.797	20.3	31.8	4.19	7.28	3	C	O
42592B			.298	.525	.797	20.5	31.7	2.26	3.93	2	C	O
42593			.298	.537	.789	20.7	32.5	3.18	5.53	2	C	O
42593A			.291	.537	.792	20.2	32.5	7.02	12.20	5	C	O
42594	4045A	Celsius A	.294	.544	.786	20.5	33.0	7.93	13.78	2	C	O
42594A			.292	.549	.783	20.4	33.3	12.14	21.10	4	C	O
42594B			.294	.546	.785	20.5	33.1	3.39	5.89	2	C	O
42595	4041B	Celsius C	.299	.557	.775	21.1	33.8	2.73	4.75	3	C	O
42596			.295	.567	.769	21.0	34.5	2.19	3.81	3	C	O
42596A			.298	.569	.766	21.2	34.7	3.03	5.27	3	C	O
42598			.297	.589	.752	21.6	36.1	3.28	5.70	3	C	O
42599			.298	.590	.750	21.7	36.2	3.23	5.61	3	C	O
42600			.201	.600	.774	14.6	36.9	2.42	4.21	1	C	O
42600A			.205	.600	.773	14.8	36.9	2.66	4.62	1	C	O
42600B			.206	.602	.771	15.0	37.0	2.05	3.56	1	C	O
42601			.204	.617	.760	15.0	38.1	17.46	30.35	5	C	O
42602			.206	.625	.753	15.3	38.7	21.98	38.20	5	C	O
42604			.202	.640	.741	15.2	39.8	4.40	7.65	4	C	O
42604A			.206	.643	.738	15.6	40.0	2.05	3.56	2	C	O
42610	3820B	Gemma Frisius R	.211	.604	.769	15.4	37.2	2.94	5.11	2	C	O
42611			.216	.614	.759	15.9	37.9	2.67	4.64	2	C	O
42611A			.219	.614	.758	16.1	37.9	3.35	5.82	2	C	O
42612			.218	.628	.747	16.3	38.9	3.28	5.70	2	C	O
42612A			.216	.621	.753	16.0	38.4	2.26	3.93	3	C	O
42612B			.219	.621	.753	16.2	38.4	2.87	4.99	3	C	O
42613	3834B	Buch D	.219	.638	.738	16.5	39.6	3.99	6.94	2	C	O
42613A			.219	.632	.743	16.4	39.2	3.89	6.76	3	C	O
42614			.217	.644	.734	16.5	40.1	2.15	3.74	2	C	O
42615	3846B	Maurolycus R	.212	.655	.725	16.3	40.9	2.57	4.47	1	C	O
42616	3846C	Maurolycus S	.218	.670	.710	17.1	42.1	3.84	6.67	1	C	O
42617			.216	.672	.708	17.0	42.2	4.16	7.23	3	C	O
42617A			.217	.677	.703	17.1	42.6	4.63	8.05	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42618			+.212	-.684	+.698	+16.9	-43.2	2.46	4.28	1	C	O
42620			.225	.607	.762	16.4	37.4	2.66	4.62	2	C	O
42621			.222	.612	.759	16.3	37.7	5.14	8.93	3	C	O
42621A			.222	.614	.757	16.3	37.9	3.29	5.72	3	C	O
42621B			.220	.619	.754	16.3	38.2	2.43	4.22	2	C	O
42621C			.221	.617	.755	16.3	38.1	2.02	3.51	2	C	O
42622	3834C	Buch E	.222	.629	.745	16.6	39.0	3.58	6.22	2	C	O
42623			.222	.636	.739	16.7	39.5	3.04	5.28	2	C	O
42623A			.223	.639	.736	16.9	39.7	3.18	5.53	2	C	O
42625	3835	Buch A	.228	.656	.719	17.6	41.0	12.56	21.83	3	C	p
42626			.229	.668	.708	17.9	41.9	2.05	3.56	2	C	O
42628	3863	Barocius C	.221	.683	.696	17.6	43.1	19.23	33.42	4	C	O
42629	3862	Barocius B	.226	.695	.683	18.3	44.0	22.68	39.42	3	C	O
42630	3834A	Buch C	.235	.607	.759	17.2	37.4	15.94	27.71	3	C	O
42631	3836	Buch B	.231	.614	.755	17.0	37.9	3.92	6.81	1	C	O
42631A			.233	.617	.752	17.2	38.1	2.15	3.74	3	C	O
42632			.236	.622	.747	17.5	38.5	2.67	4.64	2	C	O
42632A	3834	Buch	.237	.628	.741	17.7	38.9	30.95	53.80	3	C	O
42636			.230	.660	.715	17.8	41.3	2.36	4.10	2	C	O
42637		Barocius L	.239	.674	.699	18.9	42.4	7.43	12.91	2	C	O
42637A			.236	.677	.697	18.7	42.6	2.15	3.74	2	C	O
42638			.230	.688	.688	18.5	43.5	2.15	3.74	2	C	O
42640			.244	.605	.758	17.8	37.2	2.98	5.18	2	C	O
42640A			.246	.600	.761	17.9	36.9	9.48	16.48	5	C	O
42641			.249	.614	.749	18.4	37.9	2.26	3.93	2	C	O
42641A			.248	.617	.747	18.4	38.1	2.08	3.62	2	C	O
42646			.249	.664	.705	19.5	41.6	2.05	3.56	2	C	O
42647	3863A	Barocius M	.247	.674	.696	19.5	42.4	9.63	16.74	1	C	p
42648	3863B	Barocius N	.247	.684	.686	19.8	43.2	5.97	10.38	1	C	O
42648A			.242	.680	.692	19.3	42.8	8.02	13.94	4	C	p?
42649			.246	.698	.673	20.1	44.3	2.15	3.74	2	C	O
42649A			.247	.699	.671	20.2	44.3	7.09	12.32	4	C	O
42651			.250	.618	.745	18.5	38.2	3.08	5.35	2	C	O
42651A		Büsching K	.253	.615	.747	18.7	38.0	2.82	4.90	1	C	O
42652			.255	.625	.738	19.1	38.7	2.46	4.28	2	C	O
42653			.250	.633	.733	18.8	39.3	3.90	6.78	3	C	O
42654			.258	.646	.718	19.8	40.2	2.96	5.14	3	C	O
42654A			.254	.641	.724	19.3	39.9	3.29	5.72	3	C	O
42655			.252	.650	.717	19.4	40.5	2.05	3.56	2	C	O
42656			.259	.669	.697	20.4	42.0	2.40	4.17	2	C	O
42657			.257	.678	.689	20.5	42.7	2.60	4.52	2	C	O
42657A			.250	.678	.691	19.9	42.7	2.05	3.56	2	C	O
42657B			.252	.677	.691	20.0	42.6	6.16	10.71	3	C	O
42658			.252	.687	.682	20.3	43.4	2.70	4.69	2	C	O
42659			.256	.698	.669	20.9	44.3	12.32	21.41	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42660	3843	Büsching C	+.267	-.606	+.749	+19.6	-37.3	4.21	7.32	2	C	O
42660A			.260	.606	.752	19.1	37.3	5.75	9.99	3	C	O
42660B			.264	.601	.754	19.3	36.9	9.45	16.43	3	C	O
42661	3840	Büsching	.269	.616	.740	20.0	38.0	30.08	52.28	3	C	O
42661A			.266	.616	.741	19.7	38.0	5.13	8.92	3	C	O
42663			.260	.635	.727	19.7	39.4	4.32	7.51	4	C	O
42664			.267	.645	.716	20.5	40.2	6.17	10.72	3	C	O
42664A			.267	.648	.713	20.5	40.4	2.99	5.20	2	C	O
42665			.260	.654	.710	20.1	40.8	2.15	3.74	2	C	O
42665A			.268	.659	.703	20.9	41.2	5.13	8.92	4	C	p
42665B			.269	.657	.704	20.9	41.1	2.36	4.10	2	C	O
42666			.269	.666	.696	21.1	41.8	5.23	9.09	3	C	O
42666A			.266	.668	.695	20.9	41.9	2.46	4.28	2	C	O
42666B			.269	.662	.700	21.0	41.5	6.16	10.71	3	C	O
42667		Barocius GA	.260	.670	.695	20.5	42.1	3.29	5.72	2	C	O
42667A	3867	Barocius G	.265	.675	.689	21.0	42.5	15.41	26.78	2	C	O
42668			.260	.682	.684	20.8	43.0	2.05	3.56	3	C	O
42668A			.265	.689	.675	21.4	43.6	4.32	7.51	2	C	O
42669	3869B	Barocius R	.265	.693	.670	21.6	43.9	8.12	14.11	2	C	O
42670			.277	.606	.746	20.4	37.3	3.08	5.35	3	C	O
42670A			.278	.607	.744	20.5	37.4	2.98	5.18	3	C	O
42670B			.279	.600	.750	20.4	36.9	2.05	3.56	3	C	O
42671	3840A	Büsching A	.274	.620	.735	20.4	38.3	3.29	5.72	1	C	O
42671A			.270	.614	.742	20.0	37.9	2.26	3.93	4	C	O
42672			.270	.628	.730	20.3	38.9	2.49	4.33	2	C	O
42673	3844A	Büsching F	.278	.630	.725	21.0	39.1	3.60	6.26	2	C	O
42673A			.272	.630	.727	20.5	39.1	2.15	3.74	2	C	O
42673B			.277	.635	.721	21.0	39.4	2.82	4.90	3	C	O
42674			.276	.648	.710	21.2	40.4	2.15	3.74	2	C	O
42674A			.278	.649	.708	21.4	40.5	2.05	3.56	2	C	O
42675	4013	Nicolai Z	.277	.655	.703	21.5	40.9	13.87	24.11	3	C	O
42675A			.279	.659	.698	21.8	41.2	5.95	10.34	3	C	O
42676			.272	.666	.695	21.4	41.8	3.49	6.07	3	C	O
42677	3867A	Barocius S	.275	.675	.685	21.9	42.5	4.42	7.68	2	C	O
42677A			.274	.678	.682	21.9	42.7	3.60	6.26	2	C	O
42678	4010	Nicolai G	.279	.680	.678	22.4	42.8	6.20	10.78	2	C	O
42678A			.270	.680	.682	21.6	42.8	2.43	4.22	2	C	O
42679			.277	.695	.664	22.7	44.0	2.31	4.02	3	C	O
42679A			.279	.694	.664	22.8	43.9	3.80	6.60	3	C	O
42680	3840B	Büsching H	.286	.608	.741	21.1	37.4	2.73	4.75	3	C	O
42680A			.280	.604	.746	20.6	37.2	6.68	11.61	2	C	O
42680B			.282	.600	.749	20.6	36.9	4.93	8.57	3	C	O
42680C			.285	.601	.747	20.9	36.9	3.70	6.43	5	C	O
42781			.285	.619	.732	21.3	38.2	3.08	5.35	2	C	O
42681A			.284	.612	.738	21.0	37.7	3.29	5.72	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42681B			+.284	-.616	+.735	+21.1	-38.0	2.26	3.93	2	C	O
42682			.281	.627	.727	21.1	38.8	2.67	4.64	2	C	O
42682A			.282	.625	.728	21.2	38.7	2.62	4.55	3	C	O
42682B			.289	.621	.729	21.6	38.4	4.62	8.03	2	C	O
42682C			.289	.623	.727	21.7	38.5	7.19	12.50	3	C	O
42682D			.283	.620	.732	21.1	38.3	2.31	4.02	2	C	O
42682E			.280	.625	.729	21.0	38.7	2.31	4.02	2	C	O
42682F			.283	.624	.728	21.2	38.6	3.92	6.81	3	C	O
42683	3844B	Büsching G	.284	.636	.718	21.6	39.5	4.32	7.51	3	C	O
42683A			.282	.639	.716	21.5	39.7	2.87	4.99	2	C	O
42683B			.289	.633	.718	21.9	39.3	3.80	6.60	1	C	O
42684			.289	.643	.709	22.2	40.0	2.56	4.45	3	C	O
42685	4013A	Nicolai J	.286	.651	.703	22.1	40.6	4.76	8.27	2	C	O
42685A			.284	.650	.705	21.9	40.5	4.10	7.13	3	C	O
42685B			.285	.656	.699	22.2	41.0	8.52	14.81	3	C	O
42685C			.285	.655	.700	22.2	40.9	2.87	4.99	1	C	O
42685D			.289	.659	.694	22.6	41.2	2.29	3.98	3	C	O
42685E			.286	.658	.697	22.3	41.1	2.31	4.02	2	C	O
42686			.280	.660	.697	21.9	41.3	3.08	5.35	1	C	O
42687			.280	.674	.684	22.3	42.4	3.08	5.35	2	C	O
42687A			.284	.676	.680	22.7	42.5	5.00	8.69	4	C	O
42689			.289	.691	.663	23.6	43.7	5.44	9.46	3	C	O
42689A			.284	.696	.659	23.3	44.1	2.31	4.02	3	C	O
42689B			.287	.698	.656	23.6	44.3	2.31	4.02	3	C	O
42690			.296	.607	.738	21.9	37.4	10.20	17.73	4	C	O
42691			.296	.618	.728	22.1	38.2	3.39	5.89	2	C	O
42692	3844	Büsching D	.292	.625	.724	22.0	38.7	19.20	33.37	4	C	O
42692A			.294	.621	.727	22.0	38.4	2.76	4.80	2	C	O
42692B			.296	.620	.727	22.2	38.3	3.18	5.53	2	C	O
42692C			.293	.620	.728	21.9	38.3	3.22	5.60	2	C	O
42693	3844C	Büsching J	.292	.636	.714	22.2	39.5	3.90	6.78	3	C	O
42694			.298	.646	.703	23.0	40.2	2.98	5.18	2	C	O
42695			.298	.650	.699	23.1	40.5	4.92	8.55	3	C	O
42695A			.292	.654	.698	22.7	40.8	6.16	10.71	4	C	O
42695B			.292	.657	.695	22.8	41.1	2.56	4.45	2	C	O
42696			.293	.663	.689	23.0	41.5	2.87	4.99	2	C	O
42696A			.296	.661	.690	23.2	41.4	3.08	5.35	3	C	O
42697	4004	Nicolai A	.296	.675	.676	23.7	42.5	8.09	14.06	1	C	O
42697A			.292	.678	.675	23.4	42.7	3.08	5.35	3	C	O
42698			.299	.681	.668	24.1	42.9	3.08	5.35	2	C	O
42699			.291	.690	.663	23.7	43.6	2.77	4.81	3	C	O
42700	3860	Barocius	.205	.706	.678	16.8	44.9	47.33	82.27	3	C	pp
42702			.207	.728	.654	17.6	46.7	3.49	6.07	3	C	O
42702A			.209	.725	.656	17.7	46.5	7.71	13.40	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42703	3861A	Breislak A	+.204	-.731	+.651	+17.4	-47.0	4.07	7.07	1	C	O
42703A			.202	.734	.648	17.3	47.2	2.98	5.18	2	C	O
42703B			.203	.733	.649	17.4	47.1	3.45	6.00	3	C	O
42703C			.203	.739	.642	17.5	47.6	4.07	7.07	5	C	O
42704	3861	Breislak	.209	.745	.633	18.3	48.2	28.52	49.57	3	C	O
42705	3890D	Baco S	.207	.759	.617	18.5	49.4	10.10	17.56	2	C	p
42705A	3879B	Baco M	.202	.757	.621	18.0	49.2	4.21	7.32	2	C	O
42706			.201	.767	.609	18.3	50.1	2.98	5.18	2	C	O
42706A			.202	.766	.610	18.3	50.0	15.09	26.23	4	C	O
42706B			.207	.767	.607	18.8	50.1	3.14	5.46	2	C	O
42707	3888	Baco	.206	.777	.595	19.1	51.0	40.05	69.61	3	C	p?
42708	3888D	Baco H	.200	.787	.584	18.9	51.9	3.70	6.43	2	C	O
42708A	3888E	Baco O	.210	.788	.579	19.9	52.0	5.27	9.16	1	C	O
42708B			.209	.783	.586	19.6	51.5	2.15	3.74	1	C	O
42709	3889B	Baco U	.202	.792	.576	19.3	52.4	3.68	6.40	2	C	O
42709A	3889	Baco A	.209	.797	.567	20.2	52.8	22.54	39.18	2	C	p
42713	3861B	Breislak B	.210	.738	.641	18.1	47.6	4.06	7.06	1	C	O
42714	3861D	Breislak D	.214	.743	.634	18.6	48.0	2.67	4.64	2	C	O
42714A	3861E	Breislak E	.220	.740	.636	19.1	47.7	4.45	7.73	2	C	O
42715	3861C	Breislak C	.213	.753	.623	18.9	48.9	3.34	5.81	2	C	O
42717	3888F	Baco P	.212	.775	.595	19.6	50.8	2.83	4.92	2	C	O
42721	3860A	Barocius D	.228	.719	.657	19.2	46.0	4.78	8.31	2	C	O
42722		Barocius DA	.227	.722	.654	19.2	46.2	3.22	5.60	1	C	O
42723	3861G	Breislak G	.224	.730	.646	19.1	46.9	8.99	15.63	3	C	O
42723A			.222	.734	.642	19.1	47.2	2.41	4.19	3	C	O
42723B			.226	.738	.636	19.6	47.6	2.83	4.92	2	C	O
42723C			.227	.735	.639	19.6	47.3	2.72	4.73	3	C	O
42724	3861F	Breislak F	.221	.748	.626	19.4	48.4	4.16	7.23	1	C	O
42724A			.224	.744	.630	19.6	48.1	2.05	3.56	3	C	O
42724B			.224	.749	.624	19.8	48.5	2.36	4.10	2	C	O
42724C			.229	.744	.628	20.0	48.1	3.65	6.34	3	C	O
42725			.220	.750	.624	19.4	48.6	9.24	16.06	3	C	O
42725A			.221	.755	.617	19.7	49.0	2.21	3.84	2	C	O
42725B			.224	.757	.614	20.0	49.2	2.47	4.29	2	C	O
42726			.222	.764	.606	20.1	49.8	2.26	3.93	2	C	O
42726A			.224	.761	.609	20.2	49.6	2.21	3.84	3	C	O
42727			.227	.779	.584	21.2	51.2	9.96	17.31	4	C	O
42727A			.227	.776	.588	21.1	50.9	4.17	7.25	3	C	O
42728			.220	.788	.575	20.9	52.0	3.03	5.27	3	C	O
42728A			.224	.786	.576	21.2	51.8	2.98	5.18	3	C	O
42728B			.225	.786	.576	21.3	51.8	6.17	10.72	5	C	O
42730	3869A	Barocius K	.237	.709	.664	19.6	45.2	8.52	14.81	2	C	O
42734			.234	.746	.623	20.6	48.2	4.06	7.06	4	C	O
42734A			.236	.748	.620	20.8	48.4	4.11	7.14	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42735	3890C	Baco R	+.234	-.756	+.611	+20.9	-49.1	10.60	18.42	2	C	O
42736	3864A	Ideler A	.240	.767	.595	22.0	50.1	6.35	11.04	2	C	O
42736A			.232	.763	.603	21.0	49.7	5.19	9.02	3	C	O
42736B			.233	.761	.605	21.0	49.6	2.31	4.02	2	C	O
42736C			.236	.769	.594	21.7	50.3	2.10	3.65	3	C	O
42737			.236	.773	.589	21.8	50.6	2.05	3.56	2	C	O
42737A			.233	.774	.589	21.6	50.7	5.14	8.93	5	C	O
42738			.236	.783	.576	22.3	51.5	2.57	4.47	2	C	O
42738A			.230	.784	.577	21.7	51.6	6.02	10.46	5	C	O
42738B			.232	.789	.569	22.2	52.1	2.31	4.02	2	C	O
42739	3986A	Asclepi A	.235	.798	.555	23.0	52.9	8.08	14.04	3	C	O
42739A			.230	.797	.558	22.4	52.8	5.77	10.03	4	C	O
42740			.232	.708	.663	20.0	45.1	2.87	4.99	2	C	O
42740A			.248	.703	.667	20.4	44.7	2.36	4.10	2	C	O
42740B			.249	.701	.668	20.4	44.5	2.36	4.10	2	C	O
42742			.240	.722	.649	20.3	46.2	5.23	9.09	3	C	O
42743	3865A	Barocius EA	.243	.731	.638	20.9	47.0	8.36	14.53	2	C	O
42743A			.242	.734	.635	20.9	47.2	2.57	4.47	2	C	O
42745	3864	Ideler	.248	.757	.605	22.3	49.2	22.38	38.90	2	C	O
42745A			.240	.751	.615	21.3	48.7	2.62	4.55	3	C	O
42745B			.247	.751	.612	22.0	48.7	3.29	5.72	2	C	O
42746			.244	.767	.593	22.4	50.1	2.31	4.02	3	C	O
42746A			.247	.768	.591	22.7	50.2	6.17	10.72	5	C	O
42747	3864B	Ideler B	.241	.773	.587	22.3	50.6	6.46	11.23	2	C	O
42747A	3864C	Ideler C	.247	.779	.576	23.2	51.2	3.81	6.62	1	C	O
42747B			.245	.772	.587	22.7	50.5	3.24	5.63	2	C	O
42747C			.244	.777	.580	22.8	51.0	2.78	4.83	3	C	O
42748			.243	.781	.575	22.9	51.4	2.26	3.93	1	C	O
42748A			.242	.783	.573	22.9	51.5	2.52	4.38	1	C	O
42748B			.244	.787	.567	23.3	51.9	2.16	3.75	1	C	O
42749			.244	.795	.555	23.7	52.7	2.46	4.28	2	C	O
42749A			.247	.793	.557	23.9	52.5	5.86	10.19	3	C	O
42750	3869	Barocius J	.259	.706	.659	21.5	44.9	15.62	27.15	2	C	O
42751	3866	Barocius F	.257	.717	.648	21.6	45.8	8.72	15.16	3	C	O
42751A			.258	.715	.650	21.7	45.6	5.14	8.93	3	C	O
42751B			.259	.713	.652	21.7	45.5	2.87	4.99	2	C	O
42752	3865B	Barocius EB	.254	.727	.638	21.7	46.6	6.20	10.78	1	C	O
42752A			.258	.720	.644	21.8	46.1	3.08	5.35	3	C	O
42752B			.258	.723	.641	21.9	46.3	2.93	5.09	2	C	O
42753	3865	Barocius E	.257	.733	.630	22.2	47.1	14.92	25.93	3	C	O
42753A			.254	.739	.624	22.1	47.6	10.89	18.93	3	C	O
42754	3865C	Barocius EC	.256	.745	.616	22.6	48.2	4.51	7.84	1	C	O
42754A			.256	.740	.622	22.4	47.7	2.08	3.62	3	C	O
42755			.258	.750	.609	23.0	48.6	2.41	4.19	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42756			+.250	-.768	+.590	+23.0	-50.2	2.05	3.56	2	C	O
42758	3986E	Asclepi E	.251	.789	.561	24.1	52.1	3.83	6.66	1	C	O
42758A			.250	.787	.564	23.9	51.9	8.07	14.03	4	C	O
42758B			.258	.784	.565	24.6	51.6	8.28	14.39	5	C	O
42759			.254	.793	.554	24.6	52.5	5.91	10.27	3	C	O
42759A		Asclepi H	.257	.795	.549	25.1	52.7	10.89	18.93	3	C	O
42761	3866A	Barocius O	.261	.715	.649	21.9	45.6	2.87	4.99	1	C	O
42762	3865D	Barocius ED	.265	.723	.638	22.6	46.3	4.32	7.51	1	C	O
42762A			.262	.727	.635	22.4	46.6	3.08	5.35	2	C	O
42762B			.266	.728	.632	22.8	46.7	6.17	10.72	3	C	O
42763			.263	.736	.624	22.9	47.4	2.31	4.02	2	C	O
42763A			.264	.735	.625	22.9	47.3	2.16	3.75	2	C	O
42763B			.265	.731	.629	22.9	47.0	2.10	3.65	2	C	O
42763C			.268	.730	.629	23.1	46.9	5.14	8.93	3	C	O
42765	3870	Ideler L	.262	.757	.599	23.6	49.2	20.85	36.24	3	C	p
42766			.260	.765	.589	23.8	49.9	4.11	7.14	3	C	O
42766A			.268	.761	.591	24.4	49.6	2.78	4.83	2	C	O
42772			.276	.721	.636	23.5	46.1	2.05	3.56	2	C	O
42772A			.271	.728	.630	23.3	46.7	3.70	6.43	2	C	O
42772B			.270	.724	.635	23.0	46.4	9.14	15.89	3	C	O
42773	3865E	Barocius EE	.270	.737	.620	23.5	47.5	4.68	8.13	1	C	O
42774			.272	.742	.613	23.9	47.9	4.78	8.31	3	C	O
42774A			.277	.741	.612	24.4	47.8	2.05	3.56	2	C	O
42775			.276	.753	.597	24.8	48.9	5.92	10.29	5	C	O
42777			.272	.770	.577	25.2	50.4	3.29	5.72	4	C	O
42779			.277	.797	.537	27.3	52.8	3.83	6.66	2	C	O
42781			.286	.714	.639	24.1	45.6	3.39	5.89	3	C	O
42781A			.287	.712	.641	24.1	45.4	2.57	4.47	3	C	O
42782	4008	Spallanzani	.289	.723	.627	24.7	46.3	18.60	32.33	3	C	O
42783	3997A	Pitiscus G	.287	.739	.610	25.2	47.6	8.88	15.43	1	C	O
42783A			.280	.732	.621	24.3	47.1	2.57	4.47	2	C	O
42785	3871	Ideler M	.284	.753	.594	25.6	48.9	11.20	19.47	2	C	O
42792	4008B	Spallanzani A	.299	.722	.624	25.6	46.2	3.64	6.33	1	C	O
42792A			.291	.729	.620	25.2	46.8	2.36	4.10	3	C	O
42793			.299	.734	.610	26.1	47.2	10.17	17.68	3	C	O
42794	3995A	Pitiscus J	.297	.745	.597	26.4	48.2	4.09	7.11	2	C	O
42795	3995 3872	Pitiscus D	.293	.755	.587	26.5	49.0	12.58	21.87	2	C	O
42796		Pitiscus W	.297	.769	.566	27.7	50.3	13.57	23.59	4	C	O
42797			.290	.774	.563	27.3	50.7	5.19	9.02	3	C	O
42797A			.290	.777	.559	27.4	51.0	4.47	7.77	4	C	O
42798			.293	.780	.553	27.9	51.3	2.36	4.10	2	C	O
42800	3889A	Baco T	.200	.807	.556	19.8	53.8	2.96	5.14	1	C	O
42800A			.202	.805	.558	19.9	53.6	2.20	3.82	2	C	O
42800B			.209	.806	.554	20.7	53.7	2.30	4.00	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42801	3898D	Tannerus M	+.205	-.818	+.537	+20.9	-54.9	3.40	5.91	3	C	O
42801A			.205	.815	.542	20.7	54.6	2.81	4.88	4	C	O
42802	3898B	Tannerus K	.200	.824	.530	20.7	55.5	4.81	8.36	2	C	O
42803	3894	Tannerus	.207	.832	.515	21.9	56.3	16.46	28.61	1	C	O
42804	3898C	Tannerus L	.204	.843	.498	22.3	57.5	3.87	6.73	2	C	O
42804A			.207	.841	.500	22.5	57.2	5.36	9.32	3	C	O
42804B			.208	.849	.486	23.2	58.1	5.01	8.71	2	C	O
42805	3903	Mutus D	.207	.852	.481	23.3	58.4	12.72	22.11	3	C	O
42805A			.206	.854	.478	23.3	58.6	2.26	3.93	2	C	O
42805B			.206	.855	.476	23.4	58.8	3.60	6.26	4	C	O
42808			.202	.886	.417	25.8	62.4	7.92	13.77	4	C	O
42809			.202	.891	.407	26.4	63.0	8.61	14.97	4	C	O
42809A			.204	.894	.399	27.1	63.4	3.09	5.37	3	C	O
42810	3889C	Baco W	.215	.801	.559	21.0	53.2	5.02	8.73	1	C	O
42811	3898	Tannerus F	.216	.819	.532	22.1	55.0	20.72	36.01	3	C	O
42811A			.215	.811	.544	21.6	54.2	3.26	5.67	2	C	O
42811B			.219	.810	.544	21.9	54.1	3.91	6.80	2	C	O
42812		Tannerus P	.211	.825	.524	21.9	55.6	10.47	18.20	2	C	O
42812A			.215	.820	.530	22.1	55.1	4.10	7.13	3	C	O
42813			.210	.838	.504	22.6	56.9	2.26	3.93	2	C	O
42813A			.210	.839	.502	22.7	57.0	3.91	6.80	3	C	O
42814	3903C	Mutus O	.216	.845	.489	23.8	57.7	7.78	13.52	2	C	O
42815	3903B	Mutus M	.212	.858	.468	24.4	59.1	11.59	20.15	3	C	O
42815A			.210	.854	.476	23.8	58.6	4.31	7.49	3	C	O
42815B			.212	.855	.473	24.1	58.8	3.60	6.26	2	C	O
42815C			.212	.859	.466	24.5	59.2	7.93	13.78	4	C	O
42816			.211	.863	.459	24.7	59.7	3.91	6.80	3	C	O
42818	3902B	Mutus N	.215	.886	.411	27.6	62.4	6.12	10.64	3	C	O
42818A			.213	.880	.425	26.6	61.6	4.22	7.33	3	C	O
42818B			.216	.885	.412	27.6	62.3	3.60	6.26	4	C	O
42819	3901	Mutus B	.217	.897	.385	29.4	63.8	9.54	16.58	2	C	O
42821	3896A	Tannerus H	.226	.811	.540	22.7	54.2	11.49	19.97	2	C	O
42821A			.225	.817	.531	23.0	54.8	3.91	6.80	3	C	O
42821B			.226	.814	.535	22.9	54.5	2.95	5.13	1	C	O
42821C			.229	.811	.538	23.0	54.2	3.02	5.25	2	C	O
42822	3898E	Tannerus N	.230	.827	.513	24.1	55.8	5.85	10.17	2	C	O
42822A	3895	Tannerus C	.220	.822	.525	22.7	55.3	9.15	15.90	2	C	O
42823			.224	.838	.498	24.2	56.9	7.37	12.81	3	C	O
42823A			.228	.838	.496	24.7	56.9	3.96	6.88	3	C	O
42824		Tannerus J	.226	.840	.493	24.6	57.1	7.11	12.36	3	C	O
42824A			.226	.842	.490	24.8	57.4	3.00	5.21	2	C	O
42825	3903D	Mutus P	.222	.857	.465	25.5	59.0	9.35	16.25	1	C	O
42826			.220	.868	.445	26.3	60.2	2.90	5.04	3	C	O
42826A		Mutus CB	.222	.867	.446	26.5	60.1	3.00	5.21	1	C	O
42826B			.224	.865	.449	26.5	59.9	2.05	3.56	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42827	3902	Mutus C	+.220	-.876	+.429	+27.1	-61.2	18.64	32.40	3	C	o
42828		Mutus CA	.225	.882	.414	28.5	61.9	9.38	16.30	2	C	o
42828A			.226	.880	.418	28.4	61.6	2.67	4.64	2	C	o
42829	3899	Mutus	.223	.896	.384	30.1	63.6	44.66	77.63	3	C	o
42829A			.220	.890	.399	28.8	62.9	2.16	3.75	3	C	o
42830	3986C	Asclepi C	.237	.802	.548	23.4	53.3	6.08	10.57	3	C	o
42830A	3986B	Asclepi B	.237	.810	.536	23.8	54.1	10.72	18.63	2	C	o
42830B			.232	.801	.552	22.8	53.2	2.15	3.74	2	C	o
42831			.237	.815	.529	24.1	54.6	5.18	9.00	2	C	o
42831A			.235	.818	.525	24.1	54.9	7.11	12.36	3	C	o
42831B			.236	.812	.534	23.9	54.3	3.51	6.10	2	C	o
42833			.239	.838	.491	26.0	56.9	4.21	7.32	4	C	o
42834		Hommel GA	.238	.844	.481	26.3	57.6	12.68	22.04	3	C	o
42836	3988A	Hommel M	.232	.864	.447	27.4	59.8	4.01	6.97	1	C	o
42836A			.231	.860	.455	26.9	59.3	2.41	4.19	1	C	o
42836B			.235	.860	.453	27.4	59.3	3.20	5.56	2	C	o
42836C			.230	.864	.448	27.2	59.8	4.98	8.66	3	C	o
42838	3899B	Mutus Q	.236	.885	.401	30.5	62.3	4.42	7.68	2	C	o
42838A			.230	.885	.405	29.6	62.3	2.40	4.17	2	C	o
42839	3900	Mutus A	.233	.897	.376	31.8	63.8	9.26	16.10	2	C	o
42839A		Mutus V	.237	.890	.390	31.3	62.9	13.55	23.55	2	C	p
42839B			.231	.896	.379	31.3	63.6	2.27	3.95	2	C	o
42840	3986D	Asclepi D	.243	.804	.543	24.1	53.5	10.31	17.92	2	C	o
42840A			.242	.800	.549	23.8	53.1	3.21	5.58	2	C	o
42841			.248	.813	.527	25.2	54.4	2.67	4.64	2	C	o
42842	3986	Asclepi	.246	.820	.517	25.5	55.1	24.44	42.48	3	C	p
42842A			.244	.828	.505	25.8	55.9	8.02	13.94	4	C	o
42842B			.249	.824	.509	26.1	55.5	4.94	8.59	3	C	o
42843			.241	.838	.490	26.2	56.9	4.72	8.20	4	C	o
42844	3988	Hommel G	.243	.849	.469	27.4	58.1	17.20	29.90	3	C	o
42845	3988B	Hommel N	.246	.860	.447	28.8	59.3	8.15	14.17	2	C	o
42845A	3988C	Hommel O	.247	.853	.460	28.2	58.5	3.36	5.84	2	C	o
42845B			.240	.859	.452	28.0	59.2	6.11	10.62	3	C	o
42845C			.249	.850	.464	28.2	58.2	4.16	7.23	3	C	o
42846			.247	.861	.445	29.1	59.4	2.86	4.97	2	C	o
42848			.240	.882	.406	30.6	61.9	2.25	3.91	2	C	o
42848A			.242	.888	.391	31.8	62.6	17.51	30.44	5	C	o
42848B			.247	.886	.392	32.2	62.4	5.16	8.97	4	C	o
42849			.243	.897	.369	33.3	63.8	6.56	11.40	3	C	o
42849A			.246	.894	.374	33.3	63.4	3.58	6.22	2	C	o
42849B		Mutus Z	.248	.899	.361	34.5	64.0	17.18	29.86	3	C	o
42850		Asclepi G	.250	.802	.542	24.7	53.3	3.09	5.37	2	C	o
42850A			.259	.808	.529	26.1	53.9	5.92	10.29	4	C	o
42852	3985B	Hommel K	.257	.824	.505	27.0	55.5	9.33	16.22	1	C	o
42854			.252	.842	.477	27.8	57.4	8.93	15.52	3	C	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42855			+.252	-.851	+.461	+28.7	-58.3	9.92	17.24	3	C	O
42856		Hommel Z	.255	.864	.434	30.4	59.8	2.41	4.19	2	C	O
42856A			.253	.869	.425	30.8	60.3	22.70	39.46	5	C	O
42856B		Hommel Y	.253	.869	.425	30.8	60.3	2.05	3.56	2	C	O
42857		Hommel X	.260	.873	.413	32.2	60.8	3.21	5.58	1	C	O
42859			.250	.896	.367	34.3	63.6	5.46	9.49	3	C	O
42862	3985C	Hommel L	.261	.830	.493	27.9	56.1	10.20	17.73	2	C	O
42862A			.269	.828	.492	28.7	55.9	3.19	5.54	2	C	O
42863			.265	.833	.486	28.6	56.4	3.08	5.35	3	C	O
42863A			.266	.833	.485	28.7	56.4	4.01	6.97	3	C	O
42864			.261	.840	.476	28.8	57.1	7.41	12.88	3	C	O
42864A			.261	.842	.472	28.9	57.4	2.95	5.13	3	C	O
42864B			.268	.843	.466	29.9	57.5	3.20	5.56	1	C	O
42864C			.268	.844	.465	30.0	57.6	2.36	4.10	2	C	O
42865	3986F	Hommel E	.266	.857	.441	31.1	59.0	7.93	13.78	1	C	O
42865A			.264	.854	.448	30.5	58.6	11.11	19.31	3	C	O
42867	3954A	Nearch E	.268	.878	.397	34.0	61.4	6.43	11.18	1	C	O
42867A			.269	.873	.407	33.5	60.8	4.94	8.59	4	C	O
42870	3985A	Hommel J	.279	.803	.527	27.9	53.4	10.44	18.15	1	C	O
42871			.272	.810	.520	27.6	54.1	2.83	4.92	3	C	O
42872			.271	.826	.494	28.7	55.7	2.71	4.71	1	C	O
42873		Hommel PB	.272	.835	.478	29.6	56.6	3.66	6.36	1	C	O
42873A			.270	.832	.485	29.1	56.3	3.76	6.54	2	C	O
42873B			.274	.836	.475	30.0	56.7	2.05	3.56	3	C	O
42874			.274	.842	.465	30.5	57.4	9.26	16.10	3	C	O
42875	3987	Hommel F	.277	.852	.444	31.9	58.4	11.80	20.51	2	C	?
42875A			.271	.850	.452	31.0	58.2	5.26	9.14	4	C	O
42875B			.273	.856	.439	31.9	58.9	2.67	4.64	2	C	O
42875C			.279	.859	.429	33.0	59.2	11.52	20.02	3	C	O
42878	3953	Nearch C	.273	.884	.379	35.7	62.1	23.59	41.00	3	C	O
42878A			.270	.880	.391	34.6	61.6	3.08	5.35	2	C	O
42881	3984	Hommel C	.285	.817	.501	29.6	54.8	30.66	53.29	3	C	p
42883	3989A	Hommel P	.287	.838	.464	31.7	56.9	19.66	34.17	3	C	O
42883A			.287	.834	.471	31.3	56.5	6.17	10.72	2	C	O
42884		Hommel PA	.289	.841	.457	32.3	57.2	4.50	7.82	2	C	O
42885			.283	.856	.433	33.2	58.9	3.53	6.14	1	C	O
42885A			.287	.854	.434	33.5	58.6	5.15	8.95	4	C	O
42886			.283	.861	.423	33.8	59.4	3.39	5.89	3	C	O
42887	3952	Nearch B	.284	.874	.394	35.8	60.9	24.54	42.65	3	C	?
42887A		Nearch BC	.283	.877	.388	36.1	61.3	7.67	13.33	2	C	O
42887B		Nearch BB	.287	.871	.399	35.7	60.6	5.20	9.04	1	C	O
42888			.280	.886	.370	37.1	62.4	12.05	20.94	4	C	O
42889	3954C	Nearch G	.288	.893	.346	39.8	63.3	3.12	5.42	2	C	O
42889A	3954B	Nearch F	.280	.890	.360	37.9	62.9	4.62	8.03	1	C	O
42891			.292	.812	.505	30.0	54.3	3.60	6.26	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42897		Nearch BA	+.290	-.873	+.392	+36.5	-60.8	13.89	24.14	3	C	O
42898			.294	.883	.366	38.8	62.0	11.33	19.69	5	C	O
42898A			.295	.886	.358	39.5	62.4	2.05	3.56	1	C	O
42900			.203	.908	.367	29.0	65.2	3.77	6.55	1	C	O
42900A			.201	.908	.368	28.7	65.2	2.79	4.85	2	C	O
42901	3908F	Manzinus R	.204	.913	.353	30.0	65.9	9.27	16.11	3	C	O
42901A			.200	.912	.358	29.2	65.8	5.04	8.76	3	C	O
42902		Manzinus T	.208	.924	.321	33.0	67.5	11.95	20.77	3	C	O
42902A			.200	.928	.314	32.5	68.1	2.48	4.31	1	C	O
42903	3908G	Manzinus U	.207	.931	.301	34.5	68.6	12.26	21.31	2	C	O
42904			.208	.949	.237	41.3	71.6	5.15	8.95	3	C	O
42904A			.202	.949	.242	39.8	71.6	14.87	25.85	3	C	O
42905	3916	Boguslawsky	.201	.956	.214	43.2	72.9	55.98	97.30	3f	C	O
42906	3916A	Boguslawsky F	.202	.967	.155	52.5	75.2	17.39	30.23	2	C	?
42906A			.202	.963	.178	48.5	74.4	3.61	6.27	3	C	O
42913			.210	.936	.282	36.6	69.4	5.25	9.13	3	C	O
42913A			.213	.938	.273	37.9	69.7	2.79	4.85	2	C	O
42914			.212	.940	.267	38.4	70.1	14.01	24.35	5	C	O
42915	3919C	Boguslawsky D	.218	.956	.196	48.0	72.9	13.52	23.50	1	C	?
42916	3918A	Boguslawsky E	.220	.962	.162	53.7	74.2	8.24	14.32	1	C	O
42917			.218	.971	.098	65.8	76.2	4.28	7.44	2	C	O
42920			.223	.902	.370	31.1	64.4	5.56	9.66	3	C	O
42921	3905	Mutus F	.226	.915	.334	34.1	66.2	24.37	42.36	3	C	O
42921A			.225	.918	.327	34.6	66.6	13.28	23.08	3	C	O
42922	3905A	Mutus G	.223	.922	.317	35.2	67.2	9.58	16.65	2	C	O
42923			.226	.931	.287	38.3	68.6	3.14	5.46	2	C	O
42923A			.225	.932	.284	38.4	68.7	5.41	9.40	3	C	O
42923B			.226	.935	.273	39.6	69.2	10.42	18.11	3	C	O
42923C			.223	.939	.262	40.4	69.9	6.18	10.74	5	C	O
42925		Boguslawsky K	.220	.959	.179	50.9	73.5	26.56	46.17	4	C	O
42926			.225	.964	.142	57.8	74.6	2.89	5.02	2	C	O
42926A			.227	.969	.098	66.8	75.7	3.09	5.37	2	C	O
42926B			.228	.966	.122	61.9	75.0	3.09	5.37	2	C	O
42927			.222	.971	.089	68.2	76.2	4.95	8.60	2	C	O
42930			.235	.904	.357	33.3	64.7	2.37	4.12	3	C	O
42931			.230	.910	.345	33.7	65.5	14.16	24.61	3	C	O
42931A			.239	.913	.331	35.9	65.9	4.74	8.24	3	C	O
42932		Mutus X	.233	.921	.312	36.7	67.1	11.95	20.77	3	C	O
42932A			.233	.924	.303	37.5	67.5	2.27	3.95	2	C	O
42932B			.239	.925	.295	39.0	67.7	4.37	7.60	3	C	O
42933	3924A	Boussingault F	.230	.932	.280	39.4	68.7	9.37	16.29	1	C	O
42934			.233	.943	.238	44.4	70.6	5.15	8.95	3	C	O
42935			.232	.954	.190	50.7	72.6	3.82	6.64	2	C	O
42935A			.232	.957	.174	53.1	73.1	2.99	5.20	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42935B			+.237	-.959	+.155	+56.7	-73.5	8.24	14.32	3	C	O
42936			.231	.960	.158	55.6	73.7	6.03	10.48	3	C	O
42936A			.233	.967	.103	66.1	75.2	4.85	8.43	2	C	O
42937			.233	.972	.030	82.6	76.4	12.48	21.69	1	C	O
42940		Mutus Y	.244	.905	.348	35.0	64.8	14.69	25.53	3	C	O
42941	3904	Mutus E	.244	.910	.335	36.1	65.5	12.34	21.45	3	C	O
42941A			.249	.916	.315	38.4	66.3	5.59	9.72	3	C	O
42942			.241	.921	.306	38.2	67.1	4.01	6.97	4	C	O
42944			.242	.943	.228	46.7	70.6	15.87	27.58	5	C	O
42945			.247	.957	.152	58.4	73.1	4.75	8.26	4	C	O
42946	3918	Boguslawsky B	.242	.961	.134	61.1	73.9	36.11	62.76	3	C	O
42946A			.249	.966	.070	74.4	75.0	16.69	29.01	2	C	?
42950			.254	.906	.339	36.9	65.0	5.99	10.41	4	C	O
42950A			.254	.908	.333	37.3	65.2	6.04	10.50	3	C	O
42951		Mutus W	.255	.918	.304	40.0	66.6	11.90	20.68	2	C	?
42952			.250	.921	.299	39.9	67.1	8.40	14.60	3	C	?
42952A			.254	.924	.286	41.6	67.5	3.30	5.74	3	C	O
42954			.256	.944	.208	50.9	70.7	3.09	5.37	3	C	O
42954A		Boussingault G	.250	.948	.197	51.8	71.4	2.63	4.57	2	C	O
42961			.262	.913	.313	40.0	65.9	7.90	13.73	3	C	O
42962			.262	.921	.288	42.3	67.1	3.41	5.93	2	C	O
42963			.260	.934	.245	46.7	69.1	2.06	3.58	2	C	O
42966	3934	Boussingault M	.260	.960	.104	68.2	73.7	30.42	52.87	3	C	O
42966A			.260	.960	.104	68.2	73.7	3.15	5.48	2	C	O
42966B			.268	.963	.028	83.9	74.4	4.23	7.35	2	C	O
42971			.271	.915	.299	42.2	66.2	2.17	3.77	3	C	O
42972	3936	Boussingault P	.276	.921	.275	45.1	67.1	7.48	13.00	3	C	O
42973	3936A	Boussingault K	.279	.933	.227	50.8	68.9	16.87	29.32	2	C	p
42973A	3924	Boussingault A	.278	.939	.202	53.9	69.9	41.22	71.65	2f	C	O
42974	3923	Boussingault	.274	.942	.194	54.7	70.4	75.40	131.06	3	C	?
42975			.272	.953	.133	63.9	72.4	16.50	28.68	3	C	O
42975A			.278	.956	.094	71.4	72.9	4.85	8.43	2	C	O
42975B			.276	.959	.064	76.9	73.5	6.09	10.59	2	C	O
42976		Hale	.273	.962	.005	88.9	74.2	46.20	80.30	3	C	?
42980			.287	.907	.308	43.0	65.1	11.02	19.15	3	C	O
42981			.284	.910	.302	43.2	65.5	3.61	6.27	3	C	O
42982	3933	Boussingault E	.282	.922	.265	46.7	67.2	56.35	97.94	3	C	p?
42983			.289	.935	.206	54.6	69.2	5.05	8.78	1	C	O
42983A			.289	.933	.214	53.4	68.9	6.66 14.48	11.58 25.17	3	C	O
42984	3935	Boussingault N	.281	.948	.149	62.0	71.4	8.37	14.55	1	C	O
42990			.296	.900	.320	42.8	64.2	5.35	9.30	3	C	O
42992			.294	.921	.256	49.0	67.1	3.77	6.55	1	C	O
42992A			.298	.927	.228	52.6	68.0	30.14	52.39	5	C	O
42993			.299	.934	.196	56.8	69.1	4.33	7.53	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
42993A			+.299	-.933	+.200	+56.2	-68.9	5.16	8.97	2	C	O
43001	3656B	Delambre D	.302	.019	.953	17.6	1.1	2.95	5.13	1	C	O
43003	3656	Delambre	.300	.034	.953	17.5	1.9	30.50	53.01	2	C	O
43008			.301	.085	.950	17.6	4.9	13.28	23.08	5	C	?
43009			.305	.095	.948	17.8	5.5	19.55	33.98	5	C	O
43010			.313	.006	.950	18.2	0.3	8.47	14.72	4f	C	O
43013			.318	.037	.947	18.6	2.1	4.90	8.52	4	C	O
43015			.315	.058	.947	18.4	3.3	2.48	4.31	3	C	O
43017			.310	.077	.948	18.1	4.4	2.88	5.01	3	C	O
43017A			.313	.075	.947	18.3	4.3	2.08	3.62	2	C	O
43018			.317	.084	.945	18.5	4.8	3.96	6.88	4	C	O
43019			.316	.095	.944	18.5	5.5	7.43	12.91	5	C	O
43021	3659	Delambre F	.330	.018	.944	19.3	1.0	2.74	4.76	1	C	O
43023			.322	.034	.946	18.8	1.9	5.30	9.21	5	C	O
43027		Alfraganus H	.327	.077	.942	19.1	4.4	7.54 6.34	13.11 11.02	5	C	p
43028	3681A	Alfraganus E	.325	.080	.942	19.0	4.6	2.07	3.60	1	C	O
43029	3680	Alfraganus	.324	.094	.941	19.0	5.4	11.96	20.79	1	C	pp
43030			.336	.003	.942	19.6	0.2	2.08	3.62	2	C	O
43030A		Delambre FA	.333	.009	.943	19.5	0.5	2.24	3.89	2	C	O
43033	3658	Delambre B	.336	.030	.941	19.6	1.7	4.84	8.41	3	C	O
43033A			.338	.033	.941	19.8	1.9	3.49	6.07	3	C	O
43033B			.339	.036	.940	19.8	2.1	2.73	4.75	3	C	O
43039		Alfraganus M	.334	.098	.937	19.6	5.6	1.82	3.16	2	C	O
43039A		Alfraganus K	.333	.092	.938	19.5	5.3	2.00	3.48	2	C	O
43040	3670	Hypatia E	.349	.006	.937	20.4	0.3	3.41	5.93	1	C	O
43041			.340	.016	.940	19.9	0.9	2.84	4.94	2	C	O
43041A			.345	.017	.938	20.2	1.0	13.94 7.02	24.23 12.20	4	C	O
43042			.342	.027	.939	20.0	1.5	2.54	4.41	3	C	O
43042A			.343	.024	.939	20.1	1.4	3.73	6.48	3	C	O
43045	3681	Alfraganus A	.347	.053	.936	20.3	3.0	7.72	13.42	3	C	O
43045A		Alfraganus AA	.348	.057	.936	20.4	3.3	6.72	11.68	3	C	O
43047	3684	Alfraganus D	.344	.070	.936	20.2	4.0	4.71	8.19	1	C	O
43051	3668	Hypatia C	.355	.016	.935	20.8	0.9	9.31	16.18	3	C	P
43056	3681B	Alfraganus F	.356	.061	.932	20.9	3.5	4.95	8.60	1	C	O
43056A			.350	.061	.935	20.5	3.5	4.25	7.39	3	C	O
43061		Hypatia CA	.365	.011	.931	21.4	0.6	1.19	2.07	2	C	O
43062			.364	.022	.931	21.4	1.3	1.74 2.83	3.02 4.92	2	C	O
43063		Hypatia R	.362	.034	.932	21.2	1.9	2.07	3.60	1	C	O
43064	3681C	Alfraganus G	.362	.046	.931	21.2	2.6	3.28	5.70	1	C	O
43067	3671	Hypatia F	.365	.072	.928	21.5	4.1	4.52	7.86	2	C	O
43067A			.368	.074	.927	21.7	4.2	6.95	12.08	4	C	O
43068	3666A	Hypatia B	.362	.081	.929	21.3	4.6	2.87	4.99	2	C	O
43069			.368	.096	.925	21.7	5.5	3.08	5.35	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43071			+.371	-.014	+.929	+21.8	-0.8	1.49 2.19	2.59 3.81	3	pMC	O
43072			.370	.022	.929	21.7	1.3	7.64 5.71	13.28 9.92	4f	aMC	O
43072A			.370	.026	.929	21.7	1.5	64.04	111.31	5	pMC	O
43073			.375	.039	.926	22.0	2.2	2.07	3.60	1	C	O
43075			.370	.051	.928	21.7	2.9	2.19	3.81	2	C	O
43078	3666	Hypatia A	.377	.085	.922	22.2	4.9	8.83	15.35	1	C	O
43081		Moltke AD	.383	.019	.924	22.5	1.1	2.07	3.60	2	pM	O
43082		Moltke AB	.389	.025	.921	22.9	1.4	3.77	6.55	2	C	O
43083			.382	.032	.924	22.5	1.8	4.17	7.25	4f	aMC	O
43084	3669A	Hypatia G	.390	.047	.920	23.0	2.7	2.93	5.09	2	C	O
43084A			.386	.045	.921	22.7	2.6	4.87	8.46	4	C	O
43085	(3669)	Hypatia D	.386	.055	.921	22.7	3.2	3.33	5.79	2	C	O
43085A	(3669)	Hypatia DA	.389	.055	.920	22.9	3.2	2.67	4.64	2	C	O
43086			.380	.063	.923	22.4	3.6	8.17	14.20	4	C	O
43087	3665	Hypatia	.384	.074	.920	22.6	4.2	23.54 15.91	40.92 27.65	3	C	O
43091	3667A	Moltke A	.394	.018	.919	23.2	1.0	2.45	4.26	1	C	O
43091A		Moltke AC	.398	.012	.917	23.5	0.7	2.03	3.53	1	pM	O
43093			.390	.036	.920	23.0	2.1	4.32	7.51	4	C	O
43095			.395	.056	.917	23.3	3.2	4.87	8.46	3	C	O
43096			.396	.062	.916	23.4	3.6	2.17	3.77	3	C	O
43096A			.396	.066	.916	23.4	3.8	9.28	16.13	4	C	O
43097			.396	.070	.916	23.4	4.0	2.18	3.79	2	C	O
43097A			.398	.078	.914	23.5	4.5	3.59	6.24	2	pMC	O
43099		Hypatia M	.395	.092	.914	23.4	5.3	15.19	26.40	4f	aMC	O
43100	3683	Alfraganus C	.309	.106	.945	18.1	6.1	6.22	10.81	1	C	O
43100A			.305	.103	.947	17.9	5.9	4.95	8.60	4	C	O
43101			.306	.111	.946	17.9	6.4	3.27	5.68	5	C	O
43102			.301	.124	.946	17.7	7.1	4.76 6.87	8.27 11.94	4	C	O
43103			.306	.130	.943	18.0	7.5	3.27	5.68	4	C	O
43103A			.307	.134	.942	18.0	7.7	3.96 5.28	6.88 9.18	4	C	O
43104		Zöllner D	.302	.145	.942	17.8	8.3	11.69	20.32	4	C	O
43105			.306	.153	.940	18.0	8.8	4.46	7.75	4	C	O
43107			.302	.179	.936	17.9	10.3	11.89 18.92	20.67 32.89	5	C	O
43107A			.308	.172	.936	18.2	9.9	6.44	11.19	5f	C	O
43110			.314	.105	.944	18.4	6.0	3.37	5.86	4	C	O
43111			.310	.112	.944	18.2	6.4	3.93	6.83	4	C	O
43111A			.310	.115	.944	18.2	6.6	2.08	3.62	4	C	O
43112			.315	.127	.941	18.5	7.3	3.17	5.51	4	C	O
43112A			.319	.120	.940	18.7	6.9	2.78	4.83	3	C	O
43115		Zöllner E	.310	.154	.938	18.3	8.9	3.17	5.51	2	C	O
43115A			.312	.151	.938	18.4	8.7	3.76	6.54	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43116	3697	Kant B	+.315	-.169	+.934	+18.6	-9.7	8.91	15.49	4f	C	O
43119			.318	.191	.929	18.9	11.0	2.08	3.62	3	C	O
43121			.325	.115	.939	19.1	6.6	5.78	10.05	5	C	O
43122		Zöllner H	.326	.124	.937	19.2	7.1	4.03 5.88	7.00 10.22	3	C	O
43124	3696	Zöllner	.321	.140	.937	18.9	8.0	26.75 20.91	46.50 36.34	4	C	P
43125			.320	.153	.935	18.9	8.8	3.96 2.98	6.88 5.18	4	C	O
43126			.322	.160	.933	19.0	9.2	6.44	11.19	4	C	O
43126A			.323	.167	.932	19.1	9.6	1.89 2.64	3.29 4.59	3	C	O
43127	3707A	Kant R	.323	.175	.930	19.2	10.1	2.44	4.24	2	C	O
43127A			.320	.172	.932	19.0	9.9	2.15	3.74	2	C	O
43129		Kant DA	.324	.192	.926	19.3	11.1	5.58	9.70	3	C	O
43130			.333	.102	.937	19.6	5.9	1.69 2.54	2.94 4.41	3	C	O
43130A			.338	.103	.935	19.9	5.9	5.65 3.68	9.82 6.40	4	C	O
43131			.339	.119	.933	20.0	6.8	2.09	3.63	2	C	O
43132			.333	.125	.935	19.6	7.2	5.68	9.87	4	C	O
43132A			.338	.123	.933	19.9	7.1	5.78	10.05	4	C	O
43133			.335	.130	.933	19.7	7.5	6.64	11.54	4	C	O
43135	3702A	Kant U	.340	.159	.927	20.1	9.1	2.97	5.16	2	C	O
43136	3702	Kant G	.332	.160	.930	19.7	9.2	13.04 16.93	22.67 29.43	4	C	O
43137	3707	Kant N	.333	.172	.927	19.8	9.9	5.37	9.33	1	C	O
43139	3699E	Kant T	.338	.196	.921	20.2	11.3	2.64	4.59	1	C	O
43139A			.339	.199	.919	20.2	11.5	2.08	3.62	2	C	O
43141			.344	.112	.932	20.3	6.4	2.09	3.63	2	C	O
43143			.349	.134	.927	20.6	7.7	2.24	3.89	2	C	O
43145		Kant HA	.349	.157	.924	20.7	9.0	3.99	6.94	3	C	O
43147	3706	Kant M	.345	.175	.922	20.5	10.1	6.08	10.57	4	C	O
43147A			.344	.174	.923	20.4	10.0	2.59	4.50	2	C	O
43148	3695	Kant	.340	.184	.922	20.2	10.6	18.22	31.67	2	C	P
43150	3704	Zöllner J	.352	.108	.930	20.7	6.2	5.82	10.12	2	C	O
43150A			.352	.104	.930	20.7	6.0	2.99	5.20	4	C	O
43151	3704A	Zöllner K	.354	.113	.928	20.9	6.5	4.12	7.16	2	C	O
43151A			.358	.120	.926	21.1	6.9	2.13	3.70	3	C	O
43151B			.359	.116	.926	21.2	6.7	2.09	3.63	2	C	O
43152		Zöllner G	.354	.128	.926	20.9	7.4	5.48	9.53	4	C	O
43152A			.358	.125	.925	21.2	7.2	2.39	4.15	2	C	O
43153			.352	.137	.926	20.8	7.9	2.72	4.73	2	C	O
43155	3703	Kant H	.352	.159	.922	20.9	9.1	3.83	6.66	3	C	O
43155A		Kant HB	.352	.153	.923	20.9	8.8	2.20	3.82	2	C	O
43155B			.358	.159	.920	21.3	9.1	3.31 4.58	5.75 7.96	3	C	O
43156			.356	.166	.920	21.2	9.6	2.35	4.08	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43157	3700	Kant E	+.357	-.179	+.917	+21.3	-10.3	16.96	29.48	4	C	O
43160			.361	.104	.927	21.3	6.0	4.00	6.95	4	C	O
43161			.363	.115	.925	21.4	6.6	2.08	3.62	3	C	O
43162	3704B	Zöllner A	.364	.123	.923	21.5	7.1	3.80	6.60	2	C	O
43162A			.366	.127	.922	21.7	7.3	2.28	3.96	2	C	O
43170			.371	.109	.922	21.9	6.3	2.08	3.62	2	C	O
43170A			.375	.101	.922	22.1	5.8	3.17	5.51	4	C	O
43173		Zöllner F	.370	.132	.920	21.9	7.6	11.00 12.90	19.12 22.42	4f	aMC	O
43173A			.372	.136	.918	22.1	7.8	4.52	7.86	4	aM	O
43174			.370	.144	.918	22.0	8.3	7.59	13.19	4f	aM	O
43176	3698	Kant C	.370	.163	.915	22.0	9.4	10.36	18.01	3	C	p?
43179			.379	.192	.905	22.7	11.1	37.92	65.91	5	C	O
43183		Zöllner FB	.382	.131	.915	22.7	7.5	2.20	3.82	2	pM	O
43183A			.388	.135	.912	23.1	7.8	8.04 10.71	13.97 18.62	5f	aM	O
43184		Zöllner FA	.385	.140	.912	22.9	8.0	2.28	3.96	2	pM	O
43187			.384	.176	.906	23.0	10.1	2.66	4.62	3	C	O
43190			.399	.106	.911	23.7	6.1	13.89	24.14	5	aM	O
43195			.394	.158	.905	23.5	9.1	8.78 10.35	15.26 17.99	5	aMC	O
43199			.396	.191	.898	23.8	11.0	3.97	6.90	4	C	O
43201			.307	.212	.928	18.3	12.2	3.07	5.34	2	C	O
43201A			.309	.216	.926	18.4	12.5	11.29	19.62	5	C	O
43202			.307	.227	.924	18.4	13.1	2.08	3.62	2	C	O
43203			.302	.237	.923	18.1	13.7	3.47	6.03	4	C	O
43203A			.304	.230	.924	18.2	13.3	2.18	3.79	3	C	O
43207		Tacitus X	.300	.273	.914	18.2	15.8	2.18	3.79	2	C	O
43209			.302	.297	.906	18.4	17.3	2.74	4.76	2	C	O
43209A			.304	.296	.906	18.6	17.2	13.48	23.43	5	C	O
43210	3699	Kant D	.314	.200	.928	18.7	11.5	29.73	51.68	4	C	O
43212	3699C	Kant Q	.314	.226	.922	18.8	13.1	2.88	5.01	2	C	O
43212A		Kant QA	.312	.229	.922	18.7	13.2	2.95	5.13	3	C	O
43212B			.316	.228	.921	18.9	13.2	4.95	8.60	3	C	p
43214			.310	.241	.920	18.6	13.9	4.95	8.60	4	C	O
43214A			.314	.240	.919	18.9	13.9	3.86	6.71	4	C	O
43215		Tacitus SA	.315	.259	.913	19.0	15.0	2.14	3.72	1	C	O
43215A		Tacitus S	.317	.250	.915	19.1	14.5	5.55	9.65	3	C	O
43217	3759	Tacitus	.313	.279	.908	19.0	16.2	22.93	39.86	3	C	pp
43219	3765	Tacitus N	.319	.292	.902	19.5	17.0	4.08	7.09	1	C	O
43221			.324	.218	.921	19.4	12.6	2.08	3.62	2	C	O
43221A			.328	.215	.920	19.6	12.4	2.97	5.16	2	C	O
43222			.321	.228	.919	19.2	13.2	3.96	6.88	4	C	O
43222A			.328	.228	.917	19.7	13.2	10.90 11.98	18.95 20.82	4	C	O
43223	3763	Tacitus C	.330	.237	.914	19.9	13.7	5.78	10.05	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43223A			+.329	-.239	+.914	+19.8	-13.8	2.08	3.62	2	C	O
43225	3761A	Tacitus J	.326	.257	.910	19.7	14.9	2.98	5.18	4	C	O
43226			.327	.265	.907	19.8	15.4	2.35	4.08	2	C	O
43228		Tacitus R	.323	.287	.902	19.7	16.7	2.79	4.85	2	C	O
43228A			.325	.285	.902	19.8	16.6	2.03	3.53	2	C	O
43230	3699D	Kant S	.331	.200	.922	19.7	11.5	2.92	5.08	2	C	O
43232	3764A	Tacitus K	.334	.227	.915	20.1	13.1	1.98	3.44	2	C	O
43234	3761	Tacitus B	.340	.243	.908	20.5	14.1	7.41	12.88	1	C	O
43234A	3762	Tacitus E	.335	.241	.911	20.2	13.9	5.13	8.92	1	C	O
43234B			.331	.243	.912	20.0	14.1	3.71	6.45	3	C	O
43237			.335	.276	.901	20.4	16.0	2.17	3.77	3	C	O
43243	3764	Tacitus D	.348	.234	.908	21.0	13.5	12.35	21.47	4	C	O
43244	3764B	Tacitus L	.346	.248	.905	20.9	14.4	3.20	5.56	3	C	O
43245A			.345	.251	.904	20.9	14.5	2.22	3.86	2	C	O
43245B			.345	.254	.904	20.9	14.7	15.86	27.57	5	C	O
43245C			.344	.250	.905	20.8	14.5	2.27	3.95	2	C	O
43246			.346	.264	.900	21.0	15.3	2.20	3.82	2	C	O
43247			.343	.273	.899	20.9	15.8	7.51	13.05	4	C	O
43248			.349	.288	.892	21.4	16.7	3.16	5.49	2	C	O
43249	4171A	Catharina E	.347	.295	.890	21.3	17.2	3.90	6.78	2	C	O
43250			.351	.206	.913	21.0	11.9	2.08	3.62	2	C	O
43251	4179	Cyrillus C	.358	.214	.909	21.5	12.4	6.94	12.06	3	C	O
43252			.356	.220	.908	21.4	12.7	5.20	9.04	4	C	O
43254	3764C	Tacitus M	.356	.241	.903	21.5	13.9	3.36	5.84	3	C	O
43254A			.355	.249	.901	21.5	14.4	2.89	5.02	3	C	O
43256			.358	.261	.897	21.8	15.1	2.17	3.77	2	C	O
43257			.357	.271	.894	21.8	15.7	2.08	3.62	2	C	O
43259	4171	Catharina D	.350	.291	.890	21.5	16.9	5.42	9.42	3f	C	O
43259A			.352	.292	.889	21.6	17.0	5.90	10.26	3f	C	O
43260	4178	Cyrillus B	.362	.202	.910	21.7	11.7	17.26	30.00	3	C	O
43261			.362	.210	.908	21.7	12.1	3.75	6.52	2	C	O
43264	3764D	Tacitus O	.362	.241	.900	21.9	13.9	2.68	4.66	1	C	O
43264A			.361	.246	.900	21.9	14.2	2.19	3.81	2	C	O
43264B			.368	.241	.898	22.3	13.9	2.07	3.60	2	C	O
43265			.362	.256	.896	22.0	14.8	2.96	5.14	3	C	O
43265A			.363	.258	.895	22.1	15.0	7.57	13.16	4	C	O
43267A			.370	.278	.886	22.7	16.1	2.01	3.49	2	C	O
43267B			.368	.270	.890	22.5	15.7	2.97	5.16	3	C	O
43272			.370	.226	.901	22.3	13.1	2.33	4.05	3	C	O
43272A			.372	.226	.900	22.5	13.1	3.51 2.69	6.10 4.68	4	C	O
43275			.373	.259	.891	22.7	15.0	2.58	4.48	2	C	O
43279	4172A	Catharina P	.378	.294	.878	23.3	17.1	27.98	48.63	4	C	O
43279A			.377	.291	.879	23.2	16.9	2.42	4.21	2	C	O
43281			.388	.214	.896	23.4	12.4	8.51	14.79	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43283	4177	Cyrillus A	+.381	-.238	+.893	+23.1	-13.8	8.76	15.23	2	C	P
43286			.384	.260	.886	23.4	15.1	2.98	5.18	3	C	O
43286A			.385	.262	.885	23.5	15.2	2.23	3.88	2	C	O
43287			.384	.272	.882	23.5	15.8	2.23	3.88	2	C	O
43293A	4176	Cyrillus	.397	.231	.888	24.1	13.4	53.75	93.43	4	C	PP
43295			.392	.254	.884	23.9	14.7	2.98	5.18	2	C	O
43299	4169	Catharina B	.394	.292	.871	24.3	17.0	12.45 14.30	21.64 24.86	3	C	P
43300	3759C	Tacitus H	.303	.306	.903	18.6	17.8	3.77	6.55	2	C	O
43300A			.307	.307	.901	18.8	17.9	3.33	5.79	3	C	O
43306			.305	.361	.881	19.1	21.2	17.80	30.94	3	C	pp
43307			.306	.374	.875	19.3	22.0	2.90	5.04	2	C	O
43308			.302	.383	.873	19.1	22.5	3.02	5.25	3	C	O
43309		Fermat PA	.300	.393	.869	19.0	23.1	3.15	5.48	2	C	O
43311			.311	.311	.898	19.1	18.1	2.17	3.77	2	C	O
43311A			.312	.311	.898	19.2	18.1	2.90	5.04	3	C	O
43311B			.315	.311	.897	19.4	18.1	2.95	5.13	2	C	O
43311C			.318	.313	.895	19.6	18.2	2.89	5.02	2	C	O
43311D			.319	.310	.896	19.6	18.1	2.94 3.90	5.11 6.78	3	C	O
43312			.312	.322	.894	19.2	18.8	2.36	4.10	2	C	O
43316			.319	.368	.873	20.1	21.6	2.77	4.81	3	C	O
43317	3801A	Fermat F	.320	.376	.870	20.2	22.1	2.92	5.08	3	C	O
43317A	(3801)	Fermat AA	.310	.376	.873	19.5	22.1	7.11	12.36	3	C	O
43317B	3801	Fermat A	.313	.371	.874	19.7	21.8	9.70	16.86	3	C	O
43318	3800	Fermat	.313	.385	.868	19.8	22.6	22.16	38.52	3	C	O
43320			.321	.308	.896	19.7	17.9	5.89 4.45	10.24 7.73	3	C	O
43323	3805A	Fermat G	.323	.333	.886	20.0	19.5	4.61	8.01	2	C	O
43323A			.323	.339	.884	20.1	19.8	5.53	9.61	3	C	O
43323B			.329	.337	.882	20.5	19.7	7.93 9.47	13.78 16.46	4	C	O
43324	3805	Fermat E	.320	.341	.884	19.9	19.9	4.60	8.00	1	C	O
43326			.320	.360	.876	20.1	21.1	22.73	39.51	5	C	O
43327			.322	.373	.870	20.3	21.9	2.10	3.65	3	C	O
43327A			.323	.376	.869	20.4	22.1	2.21	3.84	2	C	O
43327B			.324	.377	.868	20.5	22.1	3.01	5.23	3	C	O
43328			.320	.389	.864	20.3	22.9	3.16	5.49	3	C	O
43328A			.322	.383	.866	20.4	22.5	3.74	6.50	3	C	O
43329		Fermat H	.325	.393	.860	20.7	23.1	2.91	5.06	3	C	O
43329A			.320	.394	.862	20.4	23.2	2.10	3.65	2	C	O
43330	3760	Tacitus A	.335	.300	.893	20.6	17.5	5.89	10.24	2	C	O
43330A		Tacitus Q	.333	.309	.891	20.5	18.0	3.02	5.25	2	C	O
43333		Catharina M	.335	.330	.883	20.8	19.3	3.52	6.12	2	C	O
43333A			.337	.330	.882	20.9	19.3	2.46	4.28	3	C	O
43335			.330	.354	.875	20.7	20.7	8.24	14.32	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43337			+.334	-.376	+.864	+21.1	-22.1	6.02 8.49	10.46 14.76	5	C	O
43338			.330	.384	.862	20.9	22.6	12.76 10.35	22.18 17.99	5	C	O
43339	3802	Fermat B	.332	.392	.858	21.2	23.1	5.99	10.41	3	C	O
43339A			.330	.395	.857	21.1	23.3	3.72	6.47	3	C	O
43346			.349	.362	.864	22.0	21.2	2.12	3.68	1	C	O
43347			.349	.376	.858	22.1	22.1	2.93	5.09	3	C	O
43352			.357	.323	.876	22.2	18.8	3.43	5.96	2	C	O
43353		Catharina J	.357	.333	.873	22.2	19.5	3.25	5.65	2	C	O
43353A			.358	.338	.870	22.4	19.8	5.84	10.15	4	C	O
43354	4168	Catharina A	.357	.345	.868	22.4	20.2	7.97	13.85	2	C	O
43356		Polybius M	.350	.364	.863	22.1	21.3	3.27	5.68	2	C	O
43356A			.353	.366	.861	22.3	21.5	2.24	3.89	3	C	O
43356B			.355	.362	.862	22.4	21.2	3.41	5.93	4	C	O
43358	4110A	Polybius G	.357	.383	.852	22.7	22.5	2.82	4.90	2	C	O
43363	4170A	Catharina F	.370	.334	.867	23.1	19.5	5.40	9.39	1	C	O
43365			.367	.358	.859	23.1	21.0	4.03	7.00	4	C	O
43366	4112B	Polybius H	.361	.362	.859	22.8	21.2	4.69	8.15	2	C	O
43366A			.360	.364	.859	22.7	21.3	2.58	4.48	3	C	O
43366B			.362	.369	.856	22.9	21.7	2.22	3.86	2	C	O
43366C		Polybius P	.364	.367	.856	23.0	21.5	6.17 10.66	10.72 18.53	3	C	O
43367	4112A	Polybius F	.362	.379	.852	23.0	22.3	11.75	20.42	3	C	O
43368	4110B	Polybius J	.368	.387	.845	23.5	22.8	5.83	10.13	2	C	O
43369			.365	.396	.843	23.4	23.3	2.34	4.07	2	C	O
43369A			.369	.394	.842	23.7	23.2	4.79	8.33	4	C	O
43372			.375	.329	.867	23.4	19.2	2.17	3.77	2	C	O
43372A	4171B	Catharina S	.376	.323	.869	23.4	18.8	9.22	16.03	3	C	O
43373			.374	.336	.864	23.4	19.6	2.86	4.97	3	C	O
43375			.379	.350	.857	23.9	20.5	2.34	4.07	2	C	O
43376			.370	.362	.856	23.4	21.2	3.52	6.12	3	C	O
43376A			.370	.368	.853	23.4	21.6	2.86	4.97	2	C	O
43376B			.372	.362	.855	23.5	21.2	3.15	5.48	3	C	O
43377	4110	Polybius C	.371	.376	.849	23.6	22.1	14.92	25.93	4	C	O
43379			.372	.390	.842	23.8	23.0	3.70	6.43	3	C	O
43379A			.374	.397	.838	24.0	23.4	2.48	4.31	2	C	O
43381	4167	Catharina	.381	.311	.871	23.6	18.1	56.07	97.46	4	C	O
43384	4170B	Catharina K	.381	.343	.859	23.9	20.1	4.24	7.37	3	C	O
43384A	4170	Catharina C	.387	.348	.854	24.4	20.4	17.04	29.62	3	C	pp
43385	4170C	Catharina L	.384	.358	.851	24.3	21.0	2.68	4.66	1	C	O
43386			.385	.369	.846	24.5	21.7	2.34	4.07	3	C	O
43386A			.387	.360	.849	24.5	21.1	29.44	51.17	5	C	O
43388			.381	.385	.841	24.4	22.6	2.82	4.90	2	C	O
43392			.396	.328	.858	24.8	19.1	3.19	5.54	2	C	O
43392A			.390	.327	.861	24.4	19.1	3.16	5.49	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43393			+.390	-.335	+.858	+24.5	-19.6	2.12	3.68	3	C	0
43393A		Catharina CB	.390	.337	.857	24.5	19.7	4.85	8.43	3	C	0
43394		Catharina CA	.390	.340	.856	24.5	19.9	4.51	7.84	3	C	0
43394A			.393	.340	.854	24.7	19.9	2.46	4.28	2	C	0
43395			.397	.357	.846	25.2	20.9	2.92	5.08	3	C	0
43395A			.398	.354	.846	25.2	20.7	4.83	8.40	4	C	0
43396			.391	.368	.844	24.9	21.6	3.05	5.30	3	C	0
43396A			.395	.365	.843	25.1	21.4	3.19	5.54	4	C	0
43397			.393	.374	.840	25.1	22.0	2.75	4.78	3	C	0
43397A			.398	.372	.839	25.4	21.8	2.92	5.08	2	C	0
43399			.396	.396	.828	25.5	23.3	2.00	3.48	2	C	0
43399A			.393	.393	.831	25.3	23.1	2.11	3.67	2	C	0
43400		Fermat P	.304	.400	.865	19.4	23.6	20.87	36.28	4	C	p?
43401			.300	.416	.858	19.3	24.6	18.74	32.57	5	C	0
43401A			.301	.410	.861	19.3	24.2	4.86	8.45	3	C	p
43401B			.306	.413	.858	19.6	24.4	2.44	4.24	2	C	0
43402			.303	.423	.854	19.5	25.0	2.12	3.68	2	C	0
43405	4097	Pons A	.306	.459	.834	20.1	27.3	6.96	12.10	2	C	0
43405A			.309	.455	.835	20.3	27.1	14.39	25.01	5	C	0
43406			.306	.466	.830	20.2	27.8	12.90	22.42	4	C	0
43408			.305	.482	.821	20.4	28.8	6.35	11.04	5	C	0
43408A			.308	.487	.817	20.6	29.1	7.03	12.22	3	C	0
43410			.319	.405	.857	20.4	23.9	2.59	4.50	2	C	0
43411			.315	.415	.854	20.3	24.5	4.98	8.66	4	C	0
43413			.316	.433	.844	20.5	25.7	5.39	9.37	4	C	0
43413A			.316	.438	.842	20.6	26.0	4.92	8.55	4	C	0
43413B			.319	.430	.845	20.7	25.5	2.74	4.76	3	C	0
43415			.311	.459	.832	20.5	27.3	3.75	6.52	2	C	0
43415A			.313	.451	.836	20.5	26.8	2.22	3.86	2	C	0
43416	4097A	Pons L	.317	.462	.828	20.9	27.5	4.27	7.42	1	C	0
43416A			.315	.467	.826	20.9	27.8	5.19	9.02	4	C	0
43416B			.317	.465	.827	21.0	27.7	2.50	4.35	2	C	0
43418	4098	Pons B	.311	.481	.820	20.8	28.8	8.00	13.91	1	C	0
43418A			.317	.487	.814	21.3	29.1	2.34	4.07	3	C	0
43418B			.318	.483	.816	21.3	28.9	7.03	12.22	3	C	0
43419			.311	.499	.809	21.0	29.9	2.34	4.07	2	C	0
43420			.323	.409	.853	20.7	24.1	2.00	3.48	2	C	0
43420A			.326	.408	.853	20.9	24.1	3.14	5.46	2	C	0
43421			.325	.410	.852	20.9	24.2	2.38	4.14	2	C	0
43423			.329	.432	.840	21.4	25.6	2.34	4.07	2	C	0
43424			.321	.445	.836	21.0	26.4	2.69	4.68	3	C	0
43426			.326	.468	.821	21.6	27.9	17.59	30.57	4	C	0
43427	4102A	Pons G	.321	.475	.819	21.4	28.4	3.57	6.21	1	C	0
43430	4102	Pons F	.331	.403	.853	21.2	23.8	7.39	12.84	1	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43430A		Pons FA	+.335	-.407	+.850	+21.5	-24.0	9.43	16.39	3	C	O
43431			.334	.412	.848	21.5	24.3	2.89	5.02	3	C	O
43431A			.334	.415	.846	21.5	24.5	3.06	5.32	2	C	O
43431B			.337	.411	.847	21.7	24.3	4.25	7.39	3	C	O
43431C			.338	.414	.845	21.8	24.5	2.92	5.08	3	C	O
43431D			.338	.415	.845	21.8	24.5	3.40	5.91	3	C	O
43431E			.331	.419	.846	21.4	24.8	2.61	4.54	3	C	O
43432	4096	Pons	.332	.428	.841	21.6	25.3	23.37 17.57	40.62 30.54	3	C	R?
43432A			.336	.423	.842	21.8	25.0	2.78	4.83	2	C	O
43432B			.338	.426	.839	21.9	25.2	2.80	4.87	2	C	O
43432C			.337	.421	.842	21.8	24.9	2.90	5.04	3	C	O
43433			.339	.438	.833	22.2	26.0	2.80	4.87	4	C	O
43435	4102B	Pons H	.338	.454	.824	22.3	27.0	6.78	11.78	2	C	O
43435A			.335	.450	.828	22.0	26.7	42.80	74.39	5	C	O
43436	4099	Pons C	.338	.469	.816	22.5	28.0	10.08	17.52	2	C	p
43440			.341	.409	.846	21.9	24.1	2.69	4.68	3	C	O
43440A			.345	.408	.845	22.2	24.1	13.38	23.26	4	C	O
43441			.345	.412	.843	22.2	24.3	5.19	9.02	3	C	O
43442	4102C	Pons J	.342	.421	.840	22.2	24.9	3.10	5.39	2	C	O
43442A			.343	.426	.837	22.3	25.2	2.80	4.87	3	C	O
43442B			.344	.424	.838	22.3	25.1	2.95	5.13	3	C	O
43442C			.348	.424	.836	22.6	25.1	2.60	4.52	2	C	O
43443	4100	Pons D	.340	.431	.836	22.1	25.5	8.33	14.48	3	C	O
43443A			.349	.435	.830	22.8	25.8	2.88	5.01	3	C	O
43445	4102D	Pons K	.344	.460	.819	22.8	27.4	4.01	6.97	3	C	O
43445A			.347	.457	.819	23.0	27.2	4.27	7.42	3	C	O
43445B			.348	.459	.817	23.1	27.3	3.83	6.66	3	C	O
43448	4055A	Rothmann D	.340	.485	.806	22.9	29.0	7.08	12.31	5	C	O
43448A		Rothmann DA	.341	.480	.808	22.9	28.7	3.81	6.62	2	C	O
43448B			.349	.485	.802	23.5	29.0	2.34	4.07	2	C	O
43451			.350	.417	.839	22.6	24.6	5.45	9.47	4	C	O
43452			.350	.429	.833	22.8	25.4	8.56	14.88	4	C	O
43452A		Pons P	.356	.422	.834	23.1	25.0	3.01	5.23	2	C	O
43453		Pons N	.351	.438	.828	23.0	26.0	3.14	5.46	2	C	O
43453A			.352	.434	.829	23.0	25.7	4.17	7.25	2	C	O
43455			.357	.455	.816	23.6	27.1	2.95	5.13	3	C	O
43455A			.352	.456	.817	23.3	27.1	6.91	12.01	3	C	O
43458			.353	.484	.801	23.8	28.9	2.92	5.08	3	C	O
43458A			.350	.480	.804	23.5	28.7	2.16	3.75	3	C	O
43459			.350	.490	.798	23.7	29.3	2.34	4.07	3	C	O
43459A			.350	.492	.797	23.7	29.5	15.70	27.29	5	C	O
43462			.360	.425	.831	23.4	25.2	12.96	22.53	4	C	O
43462A			.368	.428	.825	24.0	25.3	4.55	7.91	3	C	O
43463			.364	.431	.826	23.8	25.5	2.75	4.78	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43463A	4101	Pons E	+.364	-.437	+.823	+23.9	-25.9	9.88	17.17	3	C	O
43463B			.367	.432	.824	24.0	25.6	4.45	7.73	4	C	O
43463C			.368	.436	.821	24.1	25.8	3.63	6.31	3	C	O
43464			.366	.440	.820	24.1	26.1	4.56	7.93	3	C	O
43464A			.366	.442	.819	24.1	26.2	2.54	4.41	2	C	O
43465	4102E	Pons M	.364	.457	.812	24.2	27.2	6.54	11.37	1	C	O
43465A			.363	.451	.815	24.0	26.8	2.38	4.14	2	C	O
43465B			.367	.450	.814	24.3	26.7	2.16	3.75	3	C	O
43466			.362	.466	.807	24.2	27.8	2.12	3.68	2	C	O
43466A			.365	.460	.809	24.3	27.4	2.33	4.05	2	C	O
43467		Rothmann G	.368	.473	.801	24.7	28.2	68.22	118.58	4	C	O
43468		Rothmann K	.362	.483	.797	24.4	28.9	3.15	5.48	1	C	O
43470			.378	.405	.833	24.4	23.9	2.45	4.26	1	C	O
43471	4112C	Polybius K	.376	.413	.829	24.4	24.4	8.61	14.97	2	C	O
43472			.372	.427	.824	24.3	25.3	3.28	5.70	2	C	O
43472A			.373	.426	.824	24.3	25.2	3.28	5.70	3	C	O
43473			.374	.438	.817	24.6	26.0	2.32	4.03	2	C	O
43473A			.370	.431	.823	24.2	25.5	2.52	4.38	2	C	O
43473B			.371	.435	.820	24.3	25.8	2.29	3.98	2	C	O
43473C			.373	.437	.818	24.5	25.9	2.22	3.86	2	C	O
43474			.371	.449	.813	24.5	26.7	2.18	3.79	2	C	O
43474A			.373	.449	.812	24.7	26.7	2.65	4.61	2	C	O
43474B			.379	.446	.811	25.1	26.5	2.00	3.48	2	C	O
43475			.373	.452	.810	24.7	26.9	4.77	8.29	3	C	O
43476			.375	.462	.804	25.0	27.5	2.21	3.84	1	C	O
43477	4055	Rothmann C	.372	.479	.795	25.1	28.6	11.39	19.80	2	C	p?
43478		Rothmann H	.376	.487	.788	25.5	29.1	6.71	11.66	2	C	O
43479		Rothmann J	.379	.491	.784	25.8	29.4	4.12	7.16	2	C	O
43479A			.378	.498	.780	25.8	29.9	13.11	22.79	4	C	O
43480			.383	.403	.831	24.7	23.8	2.45	4.26	3	C	O
43481			.381	.411	.828	24.7	24.3	3.40	5.91	3	C	O
43481A			.382	.419	.824	24.9	24.8	2.46	4.28	2	C	O
43482			.385	.426	.819	25.2	25.2	2.95	5.13	2	C	O
43482A			.387	.422	.820	25.3	25.0	2.40	4.17	2	C	O
43483	4109	Polybius B	.390	.431	.814	25.6	25.5	7.36	12.79	1	C	O
43483A		Polybius TA	.385	.434	.815	25.3	25.7	4.74	8.24	1	C	O
43484		Polybius T	.386	.440	.811	25.5	26.1	7.05	12.25	2	C	O
43486			.385	.462	.799	25.7	27.5	2.15	3.74	1	C	O
43488			.384	.485	.786	26.0	29.0	4.90	8.52	3	C	O
43489			.387	.498	.776	26.5	29.9	2.44	4.24	3	C	O
43491			.392	.412	.823	25.5	24.3	3.27	5.68	2	C	O
43491A			.397	.413	.820	25.8	24.4	2.34	4.07	2	C	O
43492			.392	.425	.816	25.7	25.2	2.22	3.86	2	C	O
43492A			.393	.421	.818	25.7	24.9	2.34	4.07	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43495	4083D	Piccolomini N	+.394	-.459	+.796	+26.3	-27.3	5.90	10.26	1	C	O
43496			.390	.463	.796	26.1	27.6	2.34	4.07	2	C	O
43496A			.396	.462	.794	26.5	27.5	2.46	4.28	2	C	O
43498			.399	.488	.776	27.2	29.2	17.67	30.71	5	C	O
43499			.390	.497	.775	26.7	29.8	4.72	8.20	3	C	O
43499A			.398	.497	.771	27.3	29.8	3.39	5.89	3	C	O
43500	4051B	Zagut H	.308	.501	.809	20.8	30.1	3.46	6.01	2	C	O
43500A			.305	.503	.809	20.7	30.2	2.96	5.14	2	C	O
43500B		Wilkins F	.302	.506	.808	20.5	30.4	3.78	6.57	2	C	O
43500C			.300	.504	.810	20.3	30.3	2.11	3.67	2	C	O
43500D			.304	.501	.810	20.6	30.1	2.16	3.75	3	C	O
43500E			.309	.500	.809	20.9	30.0	2.52	4.38	2	C	O
43501	4047A	Zagut R	.304	.512	.803	20.7	30.8	2.05	3.56	3	C	O
43501A			.309	.519	.797	21.2	31.3	3.21	5.58	2	C	O
43501B			.307	.517	.799	21.0	31.1	3.39	5.89	3	C	O
43504			.307	.549	.777	21.5	33.3	3.07	5.34	4	C	O
43505			.304	.558	.772	21.5	33.9	3.12	5.42	3	C	O
43505A			.303	.550	.778	21.3	33.4	3.03	5.27	4	C	O
43507			.300	.576	.760	21.5	35.2	2.97	5.16	3	C	O
43507A			.304	.570	.763	21.7	34.8	26.30	45.71	4	C	?
43508		Rabbi Levi U	.303	.582	.755	21.9	35.6	8.05	13.99	2	C	O
43508A			.304	.587	.750	22.1	35.9	10.17	17.68	3	C	O
43509	4038	Rabbi Levi E	.301	.598	.743	22.1	36.7	20.28	35.25	3	C	O
43509A		Rabbi Levi T	.308	.591	.746	22.4	36.2	5.99	10.41	1	C	O
43509B			.308	.594	.743	22.5	36.4	2.52	4.38	2	C	O
43509C			.301	.592	.748	21.9	36.3	2.67	4.64	3	C	O
43509D			.302	.590	.749	22.0	36.2	3.07	5.34	3	C	O
43510		Zagut LA	.319	.505	.802	21.7	30.3	3.08	5.35	1	C	O
43511			.310	.516	.799	21.2	31.1	2.58	4.48	2	C	O
43512	4046	Zagut	.319	.529	.786	22.1	31.9	48.46	84.23	3	C	O
43513	4047	Zagut A	.314	.530	.788	21.7	32.0	6.80	11.82	1	C	O
43516	4033	Rabbi Levi A	.319	.564	.762	22.7	34.3	6.95	12.08	2	C	O
43517	4037	Rabbi Levi D	.316	.580	.751	22.8	35.5	5.85	10.17	2	C	O
43517A			.316	.570	.758	22.6	34.8	2.07	3.60	2	C	O
43518			.316	.582	.749	22.9	35.6	2.52	4.38	2	C	O
43518A			.317	.585	.747	23.0	35.8	2.67	4.64	2	C	O
43519			.314	.592	.742	22.9	36.3	2.52	4.38	3	C	O
43520	4051C	Zagut L	.325	.505	.800	22.1	30.3	7.14	12.41	2	C	O
43521			.324	.517	.792	22.2	31.1	3.73	6.48	3	C	O
43522	4051D	Zagut K	.322	.526	.787	22.2	31.7	3.94	6.85	1	C	O
43522A			.326	.520	.790	22.4	31.3	4.68	8.13	3	C	O
43524			.326	.542	.775	22.8	32.8	2.05	3.56	2	C	O
43525	4046A	Zagut S	.323	.551	.769	22.8	33.4	3.73	6.48	1	C	O
43525A			.329	.550	.768	23.2	33.4	3.26	5.67	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43525B			+.329	-.558	+.762	+23.4	-33.9	2.17	3.77	3	C	O
43526	4033A	Rabbi Levi L	.322	.569	.757	23.1	34.7	7.27	12.64	1	C	O
43526A	4032	Rabbi Levi	.329	.570	.753	23.6	34.8	46.61	81.02	3	C	O
43527	4037A	Rabbi Levi M	.322	.577	.751	23.2	35.2	6.11	10.62	2	C	O
43528			.320	.580	.749	23.1	35.5	5.29	9.19	3	C	O
43528A			.321	.589	.742	23.4	36.1	4.59	7.98	3	C	O
43528B			.323	.589	.741	23.6	36.1	2.27	3.95	2	C	O
43529	4037B	Rabbi Levi N	.323	.594	.737	23.7	36.4	4.54	7.89	1	C	O
43529A			.321	.591	.740	23.4	36.2	4.53	7.87	1	C	O
43529B			.321	.596	.736	23.6	36.6	12.93	22.47	4	C	O
43529C			.328	.592	.736	24.0	36.3	2.11	3.67	1	C	O
43529D			.329	.598	.731	24.2	36.7	2.10	3.65	2	C	O
43530			.331	.506	.796	22.6	30.4	4.95	8.60	2	C	O
43530A			.338	.502	.796	23.0	30.1	29.99	52.13	5	C	O
43531	4051E	Zagut M	.334	.512	.791	22.9	30.8	3.15	5.48	2	C	O
43531A			.337	.510	.791	23.1	30.7	3.37	5.86	2	C	O
43531B			.330	.517	.790	22.7	31.1	6.04	10.50	4	C	O
43531C			.331	.513	.792	22.7	30.9	2.27	3.95	2	C	O
43532	4051	Zagut E	.334	.526	.782	23.1	31.7	20.11	34.95	3	C	O
43534			.330	.549	.768	23.3	33.3	2.97	5.16	4	C	O
43535			.336	.558	.759	23.9	33.9	2.16	3.75	2	C	O
43535A			.332	.550	.766	23.4	33.4	1.52 2.99	2.64 5.20	3	C	O
43535B			.332	.552	.765	23.5	33.5	2.30	4.00	2	C	O
43536			.336	.568	.751	24.1	34.6	3.18	5.53	3	C	O
43536A			.337	.568	.751	24.2	34.6	2.27	3.95	3	C	O
43537			.338	.574	.746	24.4	35.0	3.60	6.26	3	C	O
43537A			.339	.579	.742	24.6	35.4	3.87	6.73	3	C	O
43539			.330	.592	.735	24.2	36.3	2.73	4.75	2	C	O
43539A			.334	.599	.728	24.7	36.8	2.07	3.60	2	C	O
43540			.340	.507	.792	23.2	30.5	2.07	3.60	2	C	O
43541	4051F	Zagut N	.342	.519	.783	23.6	31.3	5.03	8.74	3	C	O
43545	4052A	Lindenau A	.348	.550	.759	24.6	33.4	3.17	5.51	3	C	O
43546	4034	Rabbi Levi B	.346	.566	.748	24.8	34.5	7.61	13.23	3	C	O
43546A			.342	.563	.752	24.4	34.3	3.22	5.60	3	C	O
43546B			.344	.562	.752	24.6	34.2	4.34	7.54	3	C	O
43546C			.343	.560	.754	24.5	34.1	4.70 8.18	8.17 14.22	4	C	O
43546D			.340	.568	.750	24.4	34.6	5.62	9.77	3	C	O
43547			.345	.571	.745	24.9	34.8	2.97	5.16	3	C	O
43547A			.348	.574	.741	25.1	35.0	6.93	12.05	3	C	O
43547B			.348	.577	.739	25.2	35.2	4.66	8.10	1	C	O
43548	4302A	Rabbi Levi O	.344	.583	.736	25.0	35.7	3.86	6.71	2	C	O
43548A			.343	.588	.733	25.1	36.0	3.19	5.54	3	C	O
43548B			.347	.585	.733	25.3	35.8	2.17	3.77	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43548C			+.348	-.583	+.734	+25.4	-35.7	2.17	3.77	2	C	O
43548D			.347	.580	.737	25.2	35.5	3.07	5.34	3	C	O
43549	4017A	Riccius T	.341	.592	.730	25.0	36.3	3.76	6.54	2	C	O
43549A			.346	.595	.725	25.5	36.5	2.90	5.04	3	C	O
43550			.359	.509	.782	24.6	30.6	7.21	12.53	2	C	O
43550A			.357	.506	.785	24.4	30.4	2.85	4.95	2	C	O
43553	4052	Lindenau	.356	.534	.767	24.9	32.3	30.73	53.41	2	C	PP
43554			.352	.549	.758	24.9	33.3	2.22	3.86	4	C	O
43556	4037C	Rabbi Levi P	.358	.566	.743	25.7	34.5	8.40	14.60	2	C	O
43557			.357	.572	.738	25.8	34.9	4.09	7.11	2	C	O
43557A	4025	Riccius H	.359	.579	.732	26.1	35.4	11.29	19.62	2	C	O
43557B			.352	.571	.742	25.4	34.8	3.96	6.88	3	C	O
43557C			.355	.570	.741	25.6	34.8	2.22	3.86	2	C	O
43558			.351	.585	.731	25.6	35.8	2.97	5.16	2	C	O
43558A			.351	.587	.730	25.7	35.9	2.97	5.16	2	C	O
43558B			.353	.582	.733	25.7	35.6	4.46	7.75	3	C	O
43558C			.354	.584	.730	25.9	35.7	4.26	7.40	3	C	O
43558D			.359	.589	.724	26.4	36.1	13.39	23.27	3	C	O
43559			.350	.590	.728	25.7	36.2	6.15	10.69	3	C	O
43559A			.354	.592	.724	26.1	36.3	10.15	17.64	4	C	O
43560	4056	Lindenau D	.365	.507	.781	25.1	30.5	5.84	10.15	1	C	O
43561			.369	.511	.776	25.4	30.7	4.66	8.10	2	C	O
43561A			.366	.510	.778	25.2	30.7	2.52	4.38	2	C	O
43561B			.365	.514	.776	25.2	30.9	2.35	4.08	3	C	O
43561C			.367	.514	.775	25.3	30.9	2.26	3.93	3	C	O
43565	4037D	Rabbi Levi Q	.362	.555	.749	25.8	33.7	3.63	6.31	3	C	O
43565A			.366	.558	.745	26.2	33.9	6.10	10.60	2	C	O
43566			.368	.567	.737	26.5	34.5	3.57	6.21	3	C	O
43567			.366	.578	.729	26.6	35.3	7.08	12.31	3	C	O
43567A			.363	.572	.736	26.3	34.9	2.77	4.81	3	C	O
43567B			.363	.571	.736	26.2	34.8	4.65	8.08	3	C	O
43567C			.368	.572	.733	26.7	34.9	2.42	4.21	3	C	O
43571			.370	.516	.773	25.6	31.1	5.83	10.13	3	C	O
43572		Lindenau H	.379	.520	.765	26.3	31.3	6.57	11.42	3	C	p?
43573	4058	Lindenau F	.376	.537	.755	26.5	32.5	5.43	9.44	4	C	O
43573A			.372	.538	.756	26.2	32.5	80.46	139.85	5	C	p?
43573B			.376	.534	.757	26.4	32.3	5.95	10.34	4	C	O
43575			.373	.559	.741	26.7	34.0	11.37	19.76	4	C	O
43576	4035	Rabbi Levi C	.375	.563	.736	27.0	34.3	11.20	19.47	2	C	O
43576A			.371	.569	.734	26.8	34.7	6.05	10.52	3	C	O
43577			.377	.575	.726	27.4	35.1	4.66	8.10	3	C	O
43578	4018	Riccius A	.372	.586	.720	27.3	35.9	13.99	24.32	3	C	p
43579	4026D	Riccius O	.376	.590	.715	27.8	36.2	5.10	8.86	3	C	O
43579A			.372	.598	.710	27.7	36.7	8.90	15.47	3	C	R

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43580			+.380	-.502	+.777	+26.1	-30.1	10.87	18.89	4	C	O
43581		Rothmann W	.385	.513	.767	26.6	30.9	6.04	10.50	3	C	O
43582	4057	Lindenau E	.380	.525	.762	26.5	31.7	4.42	7.68	1	C	O
43583			.385	.530	.756	27.0	32.0	2.66	4.62	1	C	O
43583A			.386	.538	.749	27.3	32.5	5.35	9.30	3	C	O
43583B			.387	.532	.753	27.2	32.1	6.98	12.13	3	C	O
43584	4058A	Lindenau G	.384	.548	.743	27.3	33.2	5.87	10.20	1	C	O
43584A			.382	.540	.750	27.0	32.7	4.87	8.46	3	C	O
43584B			.387	.542	.746	27.4	32.8	2.58	4.48	3	C	O
43585			.387	.558	.734	27.8	33.9	4.15	7.21	2	C	O
43585A			.384	.555	.738	27.5	33.7	3.16	5.49	3	C	O
43586	4037E	Rabbi Levi R	.388	.562	.730	28.0	34.2	6.57	11.42	1	C	O
43586A		Rabbi Levi S	.383	.563	.732	27.6	34.3	8.23	14.30	2	C	O
43586B			.389	.566	.727	28.2	34.5	2.97	5.16	2	C	O
43587			.380	.578	.722	27.8	35.3	10.89	18.93	5	C	O
43587A			.382	.570	.727	27.7	34.8	3.46	6.01	3	C	O
43587B			.382	.573	.725	27.8	35.0	3.86	6.71	4	C	O
43587C			.384	.574	.723	28.0	35.0	2.47	4.29	3	C	O
43588	4026E	Riccius P	.382	.584	.716	28.1	35.7	6.50	11.30	2	C	O
43588A		Riccius CA	.389	.585	.712	28.7	35.8	3.07	5.34	2	C	O
43588B			.382	.589	.712	28.2	36.1	2.42	4.21	3	C	O
43589			.382	.592	.710	28.3	36.3	2.37	4.12	3	C	O
43589A			.389	.590	.708	28.8	36.2	13.22	22.98	3	C	O
43593			.391	.535	.749	27.6	32.3	6.19	10.76	4	C	O
43594			.392	.547	.740	27.9	33.2	3.28	5.70	3	C	O
43594A			.393	.541	.744	27.9	32.8	3.52	6.12	3	C	O
43594B			.397	.545	.738	28.3	33.0	2.47	4.29	2	C	O
43594C			.390	.545	.742	27.7	33.0	4.30	7.47	4	C	O
43595			.399	.558	.728	28.7	33.9	2.67	4.64	3	C	O
43596			.399	.561	.725	28.8	34.1	4.46	7.75	3	C	O
43597			.397	.570	.719	28.9	34.8	2.11	3.67	3	C	O
43597A			.397	.575	.715	29.0	35.1	3.81	6.62	2	C	O
43598	4020A	Riccius Y	.395	.585	.708	29.1	35.8	5.24	9.11	1	C	O
43598A			.392	.581	.713	28.8	35.5	5.05	8.78	3	C	O
43598B			.396	.589	.704	29.3	36.1	2.78	4.83	3	C	O
43599	4020	Riccius C	.391	.593	.704	29.1	36.4	9.96	17.31	3	C	O
43599A			.393	.597	.699	29.3	36.7	5.60	9.73	3	C	O
43600	4040	Rabbi Levi G	.300	.600	.742	22.0	36.9	7.00	12.17	3	C	p?
43600A			.302	.604	.738	22.3	37.2	4.73	8.22	3	C	O
43600B			.304	.608	.733	22.5	37.4	5.19	9.02	3	C	O
43600C			.307	.602	.737	22.6	37.0	7.15	12.43	4	C	O
43600D			.302	.608	.734	22.4	37.4	2.57	4.47	3	C	O
43601	4038A	Rabbi Levi J	.306	.610	.731	22.7	37.6	4.03	7.00	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43602	3842	Büsching B	+.301	-.630	+.716	+22.8	-39.1	9.89	17.19	2	C	O
43602A			.302	.620	.724	22.6	38.3	2.11	3.67	3	C	O
43602B			.302	.626	.719	22.8	38.8	5.24	9.11	2	C	O
43602C			.307	.625	.718	23.2	38.7	2.67	4.64	2	C	O
43602D			.308	.627	.716	23.3	38.8	5.29	9.19	3	C	O
43602E			.306	.623	.720	23.0	38.5	12.50	21.73	3	C	O
43602F			.300	.620	.725	22.5	38.3	2.82	4.90	3	C	O
43604			.306	.645	.700	23.6	40.2	5.79	10.06	3	C	O
43604A			.307	.643	.702	23.6	40.0	2.41	4.19	2	C	O
43604B			.302	.649	.698	23.4	40.5	2.31	4.02	2	C	O
43604C			.306	.648	.697	23.7	40.4	5.05	8.78	3	C	O
43605			.304	.651	.696	23.6	40.6	3.47	6.03	3	C	O
43605A			.302	.656	.692	23.6	41.0	20.16	35.04	4	C	O
43605B			.305	.652	.694	23.7	40.7	4.04	7.02	3	C	O
43606			.304	.667	.680	24.1	41.8	5.49	9.54	3	C	O
43606A			.305	.664	.683	24.1	41.6	6.15	10.69	3	C	O
43606B			.308	.667	.678	24.4	41.8	3.83	6.66	3	C	O
43608			.302	.685	.663	24.5	43.2	2.47	4.29	3	C	O
43608A			.302	.688	.660	24.6	43.5	2.11	3.67	3	C	O
43608B			.305	.682	.665	24.6	43.0	2.22	3.86	2	C	O
43609			.302	.699	.648	25.0	44.3	5.04	8.76	4	C	O
43609A			.303	.692	.655	24.8	43.8	3.73	6.48	3	C	O
43610			.318	.602	.732	23.5	37.0	2.77	4.81	3	C	O
43610A			.317	.609	.727	23.6	37.5	2.65	4.61	2	C	O
43610B			.319	.607	.728	23.7	37.4	2.88	5.01	3	C	O
43610C			.315	.601	.735	23.2	36.9	3.42	5.94	3	C	O
43612			.313	.625	.715	23.6	38.7	2.72	4.73	2	C	O
43614			.312	.640	.702	24.0	39.8	3.88	6.74	4	C	O
43614A			.313	.640	.702	24.0	39.8	3.47	6.03	4	C	O
43614B			.312	.646	.697	24.1	40.2	6.96	12.10	3	C	O
43614C			.319	.648	.692	24.8	40.4	9.32	16.20	3	C	O
43614D			.319	.645	.694	24.7	40.2	4.62	8.03	2	C	O
43615			.310	.651	.693	24.1	40.6	8.16	14.18	3	C	O
43615A			.312	.654	.689	24.4	40.8	4.30	7.47	5	C	?
43615B			.315	.652	.690	24.5	40.7	4.03	7.00	3	C	O
43616			.310	.662	.682	24.4	41.5	2.87	4.99	2	C	O
43616A			.311	.666	.678	24.6	41.8	3.53	6.14	3	C	O
43617			.315	.670	.672	25.1	42.1	2.27	3.95	2	C	O
43618	4005	Nicolai B	.312	.684	.659	25.3	43.2	7.64	13.28	2	C	O
43619	4006A	Nicolai L	.311	.697	.646	25.7	44.2	7.29	12.67	2	C	O
43619A			.314	.691	.651	25.7	43.7	2.93	5.09	3	C	O
43619B			.316	.695	.646	26.1	44.0	2.32	4.03	2	C	O
43620			.328	.606	.725	24.4	37.3	2.54	4.41	1	C	O
43620A			.321	.601	.732	23.7	36.9	3.24	5.63	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43620B			+.328	-.604	+.726	+24.3	-37.2	3.83	6.61	2	C	O
43621			.320	.611	.724	23.8	37.7	2.98	5.18	3	C	O
43621A			.325	.619	.715	24.4	38.2	2.37	4.12	3	C	O
43621B			.322	.612	.722	24.0	37.7	5.75	9.99	3	C	O
43621C			.323	.610	.724	24.1	37.6	2.21	3.84	3	C	O
43622	4024	Riccius G	.324	.623	.712	24.5	38.5	7.39	12.84	1	C	O
43622A			.323	.629	.707	24.5	39.0	2.27	3.95	1	C	O
43622B			.325	.627	.708	24.7	38.8	2.27	3.95	2	C	O
43625	4003B	Nicolai E	.324	.651	.686	25.3	40.6	7.25	12.60	2	C	O
43625A			.329	.657	.678	25.9	41.1	2.52	4.38	2	C	O
43626	4003A	Nicolai D	.323	.666	.672	25.7	41.8	3.71	6.45	1	C	O
43626A		Nicolai R	.327	.663	.673	25.9	41.5	3.33	5.79	1	C	O
43626B			.323	.663	.675	25.6	41.5	4.95	8.60	4	C	O
43626C			.326	.668	.669	26.0	41.9	2.56	4.45	3	C	O
43627	4003	Nicolai	.322	.674	.665	25.8	42.4	24.19	42.05	2	C	O
43628	4011	Nicolai H	.327	.688	.648	26.8	43.5	9.77	16.98	3	C	O
43630			.330	.602	.727	24.4	37.0	2.38	5.87	3	C	O
43630A			.333	.609	.720	24.8	37.5	3.13	5.44	2	C	O
43631			.336	.612	.716	25.1	37.7	2.92	5.08	2	C	O
43632		Riccius W	.331	.628	.704	25.2	38.9	10.92	18.98	3	C	O
43632A			.337	.627	.702	25.6	38.8	2.00	3.48	2	C	O
43633	4026B	Riccius K	.336	.631	.699	25.7	39.1	3.43	5.96	2	C	O
43633A			.333	.638	.694	25.6	39.6	2.57	4.47	2	C	O
43633B			.332	.632	.700	25.4	39.2	4.04	7.02	2	C	O
43633C			.334	.634	.697	25.6	39.3	2.57	4.47	1	C	O
43633D			.333	.635	.697	25.5	39.4	4.50	7.82	3	C	O
43634			.333	.647	.686	25.9	40.3	2.47	4.29	3	C	O
43634A			.333	.649	.684	26.0	40.5	2.17	3.77	3	C	O
43635	4026A	Riccius J	.333	.652	.681	26.1	40.7	7.60	13.21	2	C	O
43635A			.330	.650	.685	25.7	40.5	3.93	6.83	2	C	O
43635B			.336	.654	.678	26.4	40.8	2.42	4.21	2	C	O
43635C			.339	.650	.680	26.5	40.5	2.97	5.16	3	C	O
43635D			.339	.653	.677	26.6	40.8	2.88	5.01	3	C	O
43636	4026C	Riccius L	.338	.662	.669	26.8	41.5	4.53	7.87	3	C	O
43636A			.337	.666	.665	26.9	41.8	2.16	3.75	2	C	O
43638			.333	.688	.645	27.3	43.5	2.97	5.16	2	C	O
43638A			.334	.682	.651	27.2	43.0	2.37	4.12	3	C	O
43638B			.334	.686	.646	27.3	43.3	2.27	3.95	2	C	O
43639			.333	.693	.639	27.5	43.9	11.08	19.26	4	C	O
43640			.349	.606	.715	26.0	37.3	5.69	9.89	3	C	O
43642			.347	.624	.700	26.4	38.6	2.88	5.01	4	C	O
43642A			.349	.623	.700	26.5	38.5	2.97	5.16	3	C	O
43644	4022	Riccius E	.342	.642	.686	26.5	39.9	12.59	21.88	1	C	p
43644A			.340	.648	.682	26.5	40.4	3.26	5.67	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43644B			+.349	-.644	+.681	+27.1	-40.1	3.90	6.78	3	C	0
43645	4022A	Riccius N	.349	.658	.667	27.6	41.1	7.64	13.28	2	C	0
43645A			.345	.655	.672	27.2	40.9	3.27	5.68	2	C	0
43645B			.340	.655	.675	26.7	40.9	2.78	4.83	3	C	0
43645C			.340	.659	.671	26.9	41.2	4.75	8.26	3	C	0
43645D			.343	.655	.673	27.0	40.9	3.04	5.28	3	C	0
43646			.341	.661	.668	27.0	41.4	2.84	4.94	2	C	0
43646A			.345	.665	.662	27.5	41.7	3.76	6.54	3	C	0
43646B			.347	.669	.657	27.8	42.0	2.58	4.48	3	C	0
43646C			.347	.662	.664	27.6	41.5	3.07	5.34	3	C	0
43646D			.344	.660	.668	27.3	41.3	2.97	5.16	2	C	0
43647			.347	.672	.654	27.9	42.2	2.37	4.12	2	C	0
43648	4012	Nicolai K	.346	.680	.646	28.2	42.8	14.45	25.12	3	C	0
43648A			.343	.687	.641	28.2	43.4	12.43	21.61	4	C	0
43649	4006	Nicolai C	.348	.695	.629	28.9	44.0	14.08	24.47	3	C	pp?
43649A			.343	.692	.635	28.4	43.8	2.20	3.82	3	C	0
43650	4017	Riccius	.357	.601	.715	26.5	36.9	40.62	70.60	3	C	0
43650A	4028	Riccius S	.356	.602	.715	26.5	37.0	6.34	11.02	3	C	0
43650B			.357	.604	.713	26.6	37.2	2.92	5.08	3	C	0
43650C			.354	.608	.711	26.5	37.4	6.59	11.45	3	C	0
43650D			.351	.609	.711	26.3	37.5	2.83	4.92	3	C	0
43650E			.358	.607	.709	26.8	37.4	3.66	6.36	3	C	0
43650F			.351	.600	.719	26.0	36.9	7.84	13.63	3	C	0
43651	4026	Riccius M	.352	.614	.706	26.5	37.9	7.81	13.57	1	C	0
43651A			.358	.617	.701	27.1	38.1	3.92	6.81	2	C	0
43652		Riccius X	.350	.627	.696	26.7	38.8	6.59	11.45	2	C	0
43652A			.356	.625	.695	27.1	38.7	2.53	4.40	3	C	0
43652B			.359	.623	.695	27.3	38.5	3.97	6.90	3	C	0
43652C			.358	.626	.693	27.3	38.8	3.77	6.55	3	C	0
43653			.356	.633	.687	27.4	39.3	3.74	6.50	2	C	0
43653A			.354	.632	.689	27.2	39.2	5.30	9.21	3	C	0
43653B			.353	.630	.692	27.0	39.1	2.87	4.99	3	C	0
43653C			.354	.635	.687	27.3	39.4	2.83	4.92	2	C	0
43654			.356	.648	.673	27.9	40.4	2.53	4.40	2	C	0
43654A			.355	.649	.673	27.8	40.5	2.08	3.62	3	C	0
43655		Riccius NB	.350	.653	.672	27.5	40.8	3.86	6.71	3	C	0
43655A			.354	.658	.665	28.0	41.1	2.12	3.68	3	C	0
43655B			.355	.656	.666	28.1	41.0	3.13	5.44	3	C	0
43657	4006B	Nicolai M	.358	.675	.645	29.0	42.5	6.16	10.71	1	C	0
43657A			.352	.674	.649	28.5	42.4	3.26	5.67	3	C	0
43657B			.358	.671	.649	28.9	42.1	3.92	6.81	3	C	0
43658			.353	.682	.641	28.9	43.0	2.87	4.99	2	C	0
43659			.352	.693	.629	29.2	43.9	2.97	5.16	2	C	0
43659A			.354	.696	.625	29.5	44.1	10.88	18.91	4	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43660			+.367	-.603	+.708	+27.4	-37.1	5.15	8.95	3	C	O
43660A			.365	.607	.706	27.3	37.4	3.07	5.34	2	C	O
43661			.361	.615	.701	27.2	38.0	8.91	15.49	5	C	O
43661A			.368	.612	.700	27.7	37.7	8.91	15.49	3	C	O
43662			.365	.620	.695	27.7	38.3	5.44	9.46	3	C	O
43662A			.367	.624	.690	28.0	38.6	7.13	12.39	4	C	O
43662B			.362	.624	.693	27.6	38.6	3.37	5.86	3	C	O
43662C			.362	.626	.691	27.7	38.8	4.06	7.06	3	C	O
43662D			.363	.628	.688	27.8	38.9	6.93	12.05	3	C	O
43663			.362	.633	.684	27.9	39.3	6.34	11.02	5	C	O
43663A			.366	.638	.677	28.4	39.6	3.02	5.25	3	C	O
43664	4021	Riccius D	.369	.648	.666	29.0	40.4	9.85	17.12	2	C	O
43664A		Riccius DA	.369	.640	.674	28.7	39.8	4.51	7.84	2	C	O
43664B			.364	.643	.674	28.4	40.0	4.06	7.06	3	C	O
43664C			.367	.642	.673	28.6	39.9	2.88	5.01	3	C	O
43665			.366	.653	.663	28.9	40.8	2.33	4.05	2	C	O
43665A			.368	.659	.656	29.3	41.2	2.62	4.55	3	C	O
43666	(4006C)	Riccius NA	.365	.661	.656	29.1	41.4	3.47	6.03	3	C	O
43666A			.362	.660	.658	28.8	41.3	2.92	5.08	3	C	O
43667			.361	.671	.648	29.1	42.1	3.12	5.42	3	C	O
43667A			.366	.674	.642	29.7	42.4	2.78	4.83	2	C	O
43668		Nicolai P	.362	.683	.634	29.7	43.1	17.19	29.88	3	C	O
43670	4019	Riccius B	.370	.608	.702	27.8	37.4	11.06	19.22	3	C	pp
43670A			.371	.603	.706	27.7	37.1	3.07	5.34	3	C	O
43671			.378	.619	.688	28.8	38.2	6.93	12.05	2	C	O
43671A			.370	.617	.695	28.0	38.1	2.83	4.92	2	C	O
43671B			.377	.616	.692	28.6	38.0	2.82	4.90	3	C	O
43672			.378	.623	.685	28.9	38.5	3.36	5.84	2	C	O
43672A			.372	.625	.686	28.5	38.7	2.97	5.16	3	C	O
43673			.374	.636	.675	29.0	39.5	6.34	11.02	3	C	O
43673A			.372	.634	.678	28.8	39.3	7.63	13.26	4	C	O
43674			.372	.642	.670	29.0	39.9	2.92	5.08	3	C	O
43674A			.378	.649	.660	29.8	40.5	2.97	5.16	3	C	O
43675			.376	.656	.654	29.9	41.0	3.87	6.73	2	C	O
43675A			.375	.655	.656	29.8	40.9	2.87	4.99	2	C	O
43675B			.379	.659	.650	30.3	41.2	2.97	5.16	3	C	O
43676			.371	.665	.648	29.8	41.7	3.32	5.77	3	C	O
43676A			.374	.667	.644	30.1	41.8	3.07	5.34	2	C	O
43676B			.378	.662	.647	30.3	41.5	3.12	5.42	3	C	O
43677			.373	.677	.634	30.5	42.6	2.97	5.16	2	C	O
43677A		Nicolai Q	.370	.675	.638	30.1	42.5	17.34	30.14	3	C	O
43678			.370	.680	.633	30.3	42.8	2.24	3.89	2	C	O
43679	4482A	Lockyer A	.371	.695	.616	31.1	44.0	5.94	10.32	2	C	O
43679A			.376	.696	.612	31.6	44.1	3.01	5.23	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43680			+.383	-.600	+.702	+28.6	-36.9	3.05	5.30	3	C	O
43680A			.380	.606	.699	28.5	37.3	4.17	7.25	4	C	O
43681			.387	.610	.691	29.2	37.6	6.54	11.37	3	C	O
43681A			.385	.612	.691	29.1	37.7	3.97	6.90	3	C	O
43681B			.385	.615	.688	29.2	38.0	3.77	6.55	3	C	O
43681C			.380	.619	.687	28.9	38.2	3.17	5.51	2	C	O
43682	4023	Riccius F	.383	.620	.685	29.2	38.3	3.72	6.47	3	C	O
43682A			.387	.620	.683	29.6	38.3	2.97	5.16	2	C	O
43682B			.389	.625	.677	29.9	38.7	5.65	9.82	3	C	O
43683			.382	.632	.674	29.5	39.2	10.12	17.59	5	C	O
43683A			.387	.637	.667	30.1	39.6	2.48	4.31	2	C	O
43683B			.387	.639	.665	30.2	39.7	2.08	3.62	2	C	O
43683C			.383	.636	.670	29.8	39.5	3.97	6.90	3	C	O
43685			.385	.650	.655	30.4	40.5	4.65	8.08	3	C	O
43685A			.387	.655	.649	30.8	40.9	3.57	6.21	2	C	O
43685B			.384	.655	.651	30.5	40.9	3.85	6.69	3	C	O
43685C			.381	.654	.654	30.2	40.8	2.56	4.45	3	C	O
43686	4026F	Riccius R	.383	.661	.645	30.7	41.4	3.97	6.90	1	C	O
43686A			.386	.665	.639	31.1	41.7	2.18	3.79	3	C	O
43686B			.388	.665	.638	31.3	41.7	2.48	4.31	2	C	O
43689			.382	.691	.614	31.9	43.7	2.18	3.79	2	C	O
43690			.390	.603	.696	29.3	37.1	7.08	12.31	2	C	O
43690A			.391	.606	.693	29.4	37.3	2.00	3.48	3	C	O
43690B			.396	.603	.693	29.8	37.1	6.43	11.18	4	C	O
43691	4064A	Wöhler A	.400	.612	.682	30.4	37.7	4.16	7.23	2	C	O
43691A			.392	.614	.685	29.8	37.9	21.10	36.67	5	C	O
43692		Wöhler E	.392	.628	.672	30.2	38.9	3.77	6.55	2	C	O
43692A			.395	.622	.676	30.3	38.5	6.93	12.05	5	C	O
43693			.398	.632	.665	30.9	39.2	3.77	6.55	3	C	O
43693A			.397	.634	.664	30.9	39.3	3.27	5.68	3	C	O
43693B			.395	.638	.661	30.9	39.6	2.28	3.96	3	C	O
43694			.390	.643	.659	30.6	40.0	3.62	6.29	3	C	O
43695			.392	.652	.649	31.1	40.7	2.78	4.83	3	C	O
43696			.390	.665	.637	31.5	41.7	7.48	13.00	4	C	O
43697			.392	.670	.630	31.9	42.1	3.97	6.90	3	C	O
43698			.391	.680	.620	32.2	42.8	2.28	3.96	2	C	O
43699			.395	.696	.600	33.4	44.1	5.96	10.36	3	C	O
43700			.306	.702	.643	25.4	44.6	3.96	6.88	4	C	O
43700A			.307	.700	.645	25.5	44.4	4.52	7.86	3	C	O
43702			.302	.725	.619	26.0	46.5	4.20	7.30	3	C	O
43702A			.304	.727	.616	26.3	46.6	9.26	16.10	3	C	O
43702B			.306	.728	.613	26.5	46.7	3.90	6.78	4	C	O
43703			.302	.730	.613	26.2	46.9	3.76	6.54	3	C	O
43704			.304	.742	.598	27.0	47.9	3.20	5.56	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43707			+.300	-.774	+.558	+28.3	-50.7	22.10	38.41	5	C	O
43707A	3996	Pitiscus E	.309	.776	.550	29.3	50.9	7.71	13.40	3	C	O
43710			.314	.704	.637	26.2	44.7	5.48	9.53	2	C	O
43710A			.315	.702	.639	26.3	44.6	3.76	6.54	2	C	O
43710B			.317	.708	.631	26.7	45.1	3.56	6.19	3	C	O
43710C			.318	.705	.634	26.6	44.8	6.81	11.84	3	C	O
43711			.318	.710	.628	26.8	45.2	3.81	6.62	4	C	O
43713		Pitiscus S	.312	.739	.597	27.6	47.6	13.72	23.85	2	C	O
43714			.313	.745	.589	28.0	48.2	9.31	16.18	4	C	O
43714A			.319	.745	.586	28.6	48.2	5.35	9.30	4	C	O
43715		Pitiscus R	.314	.750	.582	28.3	48.6	14.22	24.72	3	C	O
43715A			.316	.756	.573	28.9	49.1	5.11	8.88	4	C	O
43718	(3997B)	Hommel HA	.313	.788	.530	30.6	52.0	4.44	7.72	1	C	O
43719	3989	Hommel H	.312	.794	.522	30.9	52.6	24.81	43.12	3	C	O
43719A			.311	.791	.527	30.6	52.3	2.97	5.16	2	C	O
43720			.321	.707	.630	27.0	45.0	3.10	5.39	3	C	O
43720A			.323	.705	.631	27.1	44.8	2.97	5.16	2	C	O
43720B			.327	.703	.632	27.4	44.7	5.28	9.18	5	C	O
43721	4009	Spallanzani F	.329	.714	.618	28.0	45.6	12.76	22.18	3	C	O
43721A			.323	.710	.626	27.3	45.2	2.47	4.29	2	C	O
43721B			.325	.710	.625	27.5	45.2	2.67	4.64	3	C	O
43722			.324	.729	.603	28.3	46.8	8.05	13.99	3	C	O
43722A			.325	.721	.612	28.0	46.1	3.36	5.84	1	C	O
43723		Pitiscus T	.320	.730	.604	27.9	46.9	4.65	8.08	2	C	O
43723A	3994	Pitiscus C	.322	.733	.599	28.3	47.1	9.89	17.19	3	C	O
43725			.320	.752	.576	29.0	48.8	6.39	11.11	3	C	O
43726A	3992	Pitiscus A	.328	.768	.550	30.8	50.2	5.93	10.31	1	C	O
43727	3991	Pitiscus	.324	.772	.547	30.6	50.5	47.37	82.34	3	C	P
43728			.328	.787	.523	32.1	51.9	3.58	6.22	3	C	O
43729	3983B	Hommel R	.329	.794	.511	32.8	52.6	6.01	10.45	1	C	O
43731	(4008A)	Spallanzani G	.337	.710	.618	28.6	45.2	8.55	14.86	3	C	O
43731A			.331	.710	.622	28.0	45.2	4.36	7.58	2	C	O
43731B			.331	.716	.615	28.3	45.7	2.57	4.47	1	C	O
43732			.338	.727	.598	29.5	46.6	2.98	5.18	2	C	O
43732A		Spallanzani D	.332	.720	.609	28.6	46.1	3.59	6.24	1	C	O
43733	3997	Pitiscus F	.336	.730	.595	29.4	46.9	7.18	12.48	2	C	O
43733A			.331	.732	.595	29.1	47.1	7.37	12.81	4	C	O
43734			.330	.741	.585	29.4	47.8	8.90	15.47	5	C	O
43737			.330	.775	.539	31.5	50.8	2.67	4.64	1	C	O
43738			.333	.786	.521	32.6	51.8	5.94	10.32	3	C	O
43739			.336	.794	.507	33.6	52.6	3.01	5.23	4	C	O
43740		Dove Z	.349	.700	.623	29.3	44.4	3.71	6.45	3	C	O
43740A			.349	.701	.622	29.3	44.5	15.48	26.91	5	C	O
43741			.346	.710	.613	29.4	45.2	4.00	6.95	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43742	3997C	Pitiscus K	+.344	-.723	+.599	+29.9	-46.3	9.39	16.32	2	C	O
43743	3993	Pitiscus B	.341	.740	.580	30.5	47.7	14.13	24.56	3	C	O
43743A		Dove C	.349	.731	.586	30.8	47.0	10.88	18.91	3	C	O
43744			.341	.744	.575	30.7	48.1	2.42	4.21	2	C	O
43744A			.349	.748	.565	31.7	48.4	3.96	6.88	3	C	O
43747	3997D	Pitiscus L	.347	.779	.522	33.6	51.2	5.01	8.71	1	C	O
43747A			.348	.776	.526	33.5	50.9	2.97	5.16	2	C	O
43749			.343	.796	.499	34.5	52.7	5.24	9.11	4	C	O
43749A			.349	.797	.493	35.3	52.8	3.91	6.80	2	C	O
43750			.357	.708	.609	30.4	45.1	2.62	4.55	2	C	O
43752	4002	Dove	.358	.728	.585	31.5	46.7	17.51	30.44	3	C	O
43752A			.356	.729	.585	31.3	46.8	4.15	7.21	3	C	O
43753			.355	.732	.582	31.4	47.1	4.70	8.17	3	C	O
43753A			.356	.734	.578	31.6	47.2	3.96	6.88	2	C	O
43756			.355	.767	.534	33.6	50.1	7.02	12.20	4	C	O
43756A			.356	.764	.538	33.5	49.8	6.92	12.03	4	C	O
43759			.351	.796	.493	35.4	52.7	11.87	20.63	3	C	O
43760			.362	.700	.616	30.5	44.4	2.32	4.03	2	C	O
43765		Pitiscus U	.361	.753	.550	33.3	48.9	3.16	5.49	2	C	O
43765A		Pitiscus V	.368	.758	.539	34.3	49.3	2.72	4.73	2	C	O
43768	3972	Vlacq E	.364	.788	.497	36.2	52.0	6.39	11.11	2	C	O
43768A			.368	.788	.494	36.7	52.0	2.37	4.12	2	C	O
43769			.367	.791	.490	36.9	52.3	4.06	7.06	3	C	O
43770	(4480)	Lockyer HA	.377	.707	.598	32.2	45.0	7.35	12.78	1	C	O
43770A	(4480)	Lockyer HB	.376	.701	.606	31.8	44.5	15.68	27.25	2	C	O
43771			.373	.711	.596	32.0	45.3	9.40	16.34	4	C	O
43773	4002A	Dove A	.377	.730	.570	33.5	46.9	7.18	12.48	1	C	O
43773A		Dove B	.371	.733	.570	33.1	47.1	10.88	18.91	3	C	O
43775			.377	.751	.542	34.8	48.7	5.79	10.06	4	C	O
43777	3972A	Vlacq K	.374	.779	.503	36.6	51.2	6.84	11.89	1	C	O
43777A		Vlacq KA	.377	.775	.507	36.6	50.8	2.92	5.08	2	C	O
43780	(4480)	Lockyer H	.383	.701	.602	32.5	44.5	17.56	30.52	3	C	?
43780A			.382	.708	.594	32.7	45.1	7.07	12.29	3	C	O
43781	4482	Lockyer G	.385	.715	.584	33.4	45.6	13.54	23.53	1	C	p
43782			.385	.722	.575	33.8	46.2	10.98	19.08	4	C	O
43782A			.385	.724	.572	33.9	46.4	8.51	14.79	3	C	p?
43784	3972B	Vlacq H	.384	.742	.550	34.9	47.9	6.56	11.40	1	C	O
43784A			.380	.749	.543	35.0	48.5	2.22	3.86	2	C	O
43784B			.382	.745	.547	34.9	48.2	4.20	7.30	4	C	O
43785			.380	.750	.541	35.1	48.6	2.87	4.99	3	C	O
43785A			.380	.759	.529	35.7	49.4	9.96	17.31	3	C	O
43785B			.381	.757	.531	35.7	49.2	3.66	6.36	2	C	O
43785C			.388	.758	.524	36.5	49.3	9.80	17.03	4	C	O
43786			.387	.761	.521	36.6	49.6	3.76	6.54	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43787			+.389	-.778	+.493	+38.3	-51.1	2.97	5.16	3	C	O
43788			.386	.781	.491	38.2	51.4	2.57	4.47	2	C	O
43788A			.380	.789	.483	38.2	52.1	4.93	8.57	3	C	O
43791			.392	.717	.576	34.2	45.8	6.92	12.03	5	C	O
43792			.392	.725	.566	34.7	46.5	6.92	12.03	5	C	O
43792A			.394	.720	.571	34.6	46.1	9.90	17.21	5	C	O
43793			.397	.731	.555	35.6	47.0	4.66	8.10	3	C	O
43795	3971	Vlacq D	.390	.751	.533	36.2	48.7	19.50	33.89	2	C	pp?
43796			.391	.760	.519	37.0	49.5	3.01	5.23	2	C	O
43797	3968	Vlacq A	.394	.779	.488	38.9	51.2	10.09	17.54	1	C	?
43802	3985	Hommel D	.302	.827	.474	32.5	55.8	16.04	27.88	3	C	O
43804		Nearch K	.307	.847	.434	35.3	57.9	7.35	12.78	3	C	O
43805		Nearch M	.300	.852	.429	35.0	58.4	3.99	6.94	2	C	O
43805A		Nearch L	.305	.852	.426	35.6	58.4	10.17	17.68	3	C	O
43805B			.309	.855	.417	36.6	58.8	3.32	5.77	3	C	O
43805C			.303	.858	.415	36.1	59.1	3.91	6.80	3	C	O
43811	3981	Hommel	.315	.815	.486	32.9	54.6	72.10	125.32	3	C	p
43811A			.313	.811	.494	32.3	54.2	7.00	12.17	3	C	O
43812			.312	.821	.478	33.1	55.2	2.96	5.14	2	C	O
43813			.317	.833	.453	35.0	56.4	6.02	10.46	3	C	O
43814			.310	.848	.430	35.8	58.0	4.12	7.16	3	C	O
43815			.311	.852	.421	36.4	58.4	3.88	6.74	2	C	O
43816		Nearch AA	.318	.861	.397	38.7	59.4	7.32	12.72	2	C	O
43819	3936C	Boussingault S	.320	.899	.299	46.9	64.0	9.30	16.16	1	C	O
43819A	3936D	Boussingault T	.311	.891	.331	43.2	63.0	11.39	19.80	1	C	O
43819B	3936E	Boussingault D	.315	.895	.316	44.9	63.5	5.37	9.33	1	C	O
43820		Hommel V	.328	.804	.496	33.5	53.5	7.67	13.33	2	C	O
43822			.324	.827	.459	35.2	55.8	4.84	8.41	3	C	O
43822A			.326	.820	.470	34.7	55.1	3.08 6.17	5.35 10.72	3	C	O
43823		Hommel S	.325	.835	.444	36.2	56.6	12.38	21.52	3	C	O
43823A			.321	.839	.439	36.2	57.0	3.45	6.00	2	C	O
43824		Nearch J	.327	.843	.427	37.4	57.5	3.66	6.36	3	C	O
43826	3951	Nearch A	.321	.867	.381	40.1	60.1	24.64	42.83	2	C	pp
43828		Hagecius F	.328	.885	.330	44.8	62.3	20.77	36.10	2	C	R
43828A			.324	.882	.342	43.4	61.9	4.53	7.87	3	C	O
43830	3982	Hommel A	.334	.806	.489	34.4	53.7	29.43	51.15	3	C	p
43831			.339	.812	.475	35.5	54.3	4.15	7.21	2	C	O
43832		Hommel BA	.335	.827	.451	36.6	55.8	4.74	8.24	1	C	O
43832A			.330	.820	.468	35.2	55.1	3.19	5.54	3	C	O
43833	3954	Nearch D	.335	.839	.429	38.0	57.0	5.72	9.94	3	C	O
43833A			.333	.830	.447	36.7	56.1	12.72	22.11	4	C	O
43833B			.334	.833	.441	37.1	56.4	5.82	10.12	3	C	O
43833C			.335	.836	.435	37.6	56.7	3.94	6.85	3	C	O
43833D			.330	.837	.436	37.1	56.8	4.24	7.37	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43834			+.335	-.841	+.425	+38.3	-57.2	5.92	10.29	3	C	O
43834A			.334	.843	.422	38.4	57.5	2.95	5.13	2	C	O
43835			.339	.857	.388	41.1	59.0	6.83	11.87	3	C	O
43835A	3950	Nearch	.330	.852	.406	39.1	58.4	43.42	75.47	3f	C	O
43842	3983	Hommel B	.343	.822	.455	37.0	55.3	18.92	32.89	2	C	O
43843	3983A	Hommel Q	.346	.830	.437	38.3	56.1	16.71	29.04	2	C	O
43844		Nearch H	.349	.844	.407	40.6	57.6	5.43	9.44	3	C	O
43844A			.347	.842	.413	40.0	57.4	4.94	8.59	3	C	O
43845			.346	.852	.393	41.4	58.4	4.14	7.20	2	C	O
43845A			.340	.856	.389	41.1	58.9	4.12	7.16	2	C	O
43846	3962	Rosenberger E	.349	.860	.372	43.2	59.3	6.58	11.44	2	C	O
43848		Hagecius G	.349	.881	.319	47.5	61.8	16.98	29.51	3	C	O
43849	3946	Hagecius E	.340	.893	.295	49.1	63.3	25.08	43.59	2	C	O
43849A			.340	.890	.304	48.2	62.9	2.96	5.14	2	C	O
43851	3975	Vlacq G	.355	.818	.453	38.1	54.9	15.38	26.73	3	C	p
43854			.354	.842	.407	41.0	57.4	9.37	16.29	4	C	O
43855		Rosenberger W	.351	.854	.384	42.4	58.6	18.46	32.09	4	C	O
43857		Hagecius GA	.351	.877	.328	46.9	61.3	8.69	15.10	2	C	O
43858		Hagecius GB	.358	.880	.312	48.9	61.6	5.53	9.61	2	C	O
43858A			.353	.889	.292	50.4	62.7	3.75	6.52	2	C	O
43859			.350	.896	.273	52.0	63.6	2.97	5.16	2	C	O
43859A			.353	.895	.273	52.3	63.5	3.66	6.36	3	C	O
43859B			.358	.892	.276	52.4	63.1	2.97	5.16	2	C	O
43859C			.355	.894	.273	52.4	63.4	3.06	5.32	2	C	O
43860			.365	.802	.473	37.7	53.3	5.92	10.29	4	C	O
43861			.366	.815	.449	39.2	54.6	9.27	16.11	3	C	O
43862	3957A	Rosenberger F	.364	.829	.425	40.6	56.0	3.54	6.15	1	C	O
43863			.364	.833	.417	41.1	56.4	2.80	4.87	3	C	O
43864	3961	Rosenberger D	.366	.843	.394	42.9	57.5	28.82	50.09	2	C	p
43866	3941	Hagecius	.366	.864	.346	46.6	59.8	43.93	76.36	3	C	O
43866A			.364	.860	.358	45.5	59.3	2.87	4.99	2	C	O
43867	3944	Hagecius C	.361	.872	.331	47.5	60.7	13.61	23.66	3	C	p
43867A			.369	.873	.319	49.2	60.8	3.31	5.75	3	C	O
43868			.366	.888	.278	52.7	62.6	6.91	12.01	3	C	O
43868A			.367	.886	.283	52.3	62.4	3.66	6.36	3	C	O
43869		Helmholtz R	.364	.895	.258	54.7	63.5	6.86	11.92	2	C	O
43869A			.364	.898	.247	55.8	63.9	13.24	23.01	3	C	O
43870A	3967	Vlacq	.374	.802	.466	38.8	53.3	51.31	89.18	3	C	PP
43870B			.373	.806	.460	39.1	53.7	2.76	4.80	2	C	O
43871			.379	.813	.442	40.6	54.4	5.63	9.79	3	C	O
43871A			.373	.814	.445	40.0	54.5	5.13	8.92	3	C	O
43872			.379	.826	.417	42.3	55.7	3.05	5.30	2	C	O
43873		Rosenberger T	.377	.834	.403	43.1	56.5	4.34	7.54	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43876	3943	Hagecius B	+.373	-.869	+.325	+48.9	-60.3	19.79	34.40	3	C	O
43877			.370	.876	.309	50.1	61.2	4.93	8.57	3	C	O
43878			.372	.889	.267	54.3	62.7	4.74	8.24	4	C	O
43878A			.375	.887	.269	54.3	62.5	4.93	8.57	4	C	O
43879			.374	.890	.261	55.1	62.9	7.48	13.00	2	C	O
43879A			.376	.897	.232	58.3	63.8	7.51	13.05	3	C	O
43882	3957	Rosenberger	.388	.823	.415	43.1	55.4	54.97	95.55	3	C	p
43882A	3965	Rosenberger S	.380	.827	.414	42.5	55.8	8.10	14.08	3	C	O
43882B			.386	.826	.411	43.2	55.7	2.37	4.12	2	C	O
43883			.382	.834	.398	43.8	56.5	2.96	5.14	2	C	O
43883A			.388	.837	.386	45.2	56.8	3.11	5.41	2	C	O
43885	3942	Hagecius A	.386	.850	.358	47.1	58.2	34.95	60.75	3	C	O
43886		Hagecius H	.383	.869	.313	50.7	60.3	7.40	12.86	1	C	O
43886A			.388	.862	.326	49.9	59.5	3.45	6.00	3	C	O
43887	3947	Hagecius K	.380	.876	.297	52.0	61.2	17.79	30.92	3	C	p
43888	3948	Hagecius J	.389	.888	.245	57.8	62.6	7.90	13.73	1	C	O
43888A			.381	.888	.257	55.9	62.6	5.73	9.96	2	C	O
43889			.382	.892	.242	57.7	63.1	3.76	6.54	3	C	O
43889A			.388	.892	.232	59.1	63.1	9.97	17.33	3	C	O
43890	3965A	Rosenberger G	.391	.808	.441	41.6	53.9	5.03	8.74	2	C	O
43890A			.396	.809	.434	42.4	54.0	5.53	9.61	3	C	O
43892			.390	.820	.419	43.0	55.1	3.65	6.34	2	C	O
43892A			.392	.825	.407	43.9	55.6	2.08	3.62	2	C	O
43893			.393	.836	.383	45.7	56.7	5.95	10.34	3	C	O
43893A			.397	.834	.383	46.0	56.5	4.41	7.67	3	C	O
43894	3945	Hagecius D	.397	.840	.370	47.0	57.1	9.70	16.86	1	C	O
43895			.392	.856	.337	49.3	58.9	3.30	5.74	2	C	O
43896		Hagecius M	.394	.866	.308	52.0	60.0	5.82	10.12	1	C	O
43896A		Hagecius N	.397	.868	.298	53.1	60.2	9.09	15.80	2	C	O
43896B			.390	.860	.329	49.8	59.3	4.04	7.02	3	C	O
43897	3948A	Hagecius L	.394	.879	.269	55.7	61.5	4.34	7.54	1	C	O
43898			.396	.883	.252	57.5	62.0	6.91	12.01	3	C	O
43899			.392	.898	.200	63.0	63.9	4.05	7.04	2	C	O
43899A			.397	.894	.208	62.4	63.4	5.92	10.29	3	C	O
43901	3926	Boussingault B	.301	.911	.282	46.9	65.6	30.83	53.59	3	C	O
43901A			.307	.915	.262	49.5	66.2	3.09	5.37	3	C	O
43904	3931	Neumayer	.306	.946	.107	70.7	71.1	43.82	76.17	3	C	O
43904A	3931A	Neumayer M	.310	.950	.037	83.1	71.8	17.86	31.04	1	C	?
43910	3937	Boussingault C	.314	.907	.281	48.2	65.1	13.88	24.13	2	C	p
43913			.310	.939	.149	64.3	69.9	4.30	7.47	3	C	O
43914			.314	.946	.081	75.6	71.1	14.33	24.91	3	C	?
43920	3936B	Boussingault R	.326	.901	.286	48.7	64.3	7.12	12.38	1	C	O
43920A		Helmholtz N	.326	.905	.273	50.0	64.8	7.41	12.88	2	C	O
43920B		Helmholtz M	.326	.908	.263	51.1	65.2	12.25	21.29	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
43921	3927	Helmholtz D	+.326	-.916	+.234	+54.4	-66.3	26.30	45.71	2	C	P
43922			.325	.921	.215	56.5	67.1	2.97	5.16	2	C	O
43922A			.320	.922	.218	55.7	67.2	2.87	4.99	2	C	O
43923			.321	.935	.151	64.8	69.2	3.16	5.49	1	C	O
43924			.325	.940	.104	72.3	70.1	3.86	6.71	3	C	O
43924A		Neumayer P	.321	.947	.012	87.8	71.3	12.65	21.99	2	C	?
43924B		Neumayer N	.328	.943	.056	80.3	70.6	20.55	35.72	3	C	?
43930	3925	Helmholtz A	.338	.902	.269	51.5	64.4	9.18	15.96	1	C	O
43930A			.333	.905	.265	51.5	64.8	4.34	7.54	3	C	O
43930B			.337	.905	.260	52.4	64.8	3.76	6.54	3	C	O
43931			.336	.915	.223	56.4	66.2	21.53	37.42	3	C	O
43932	3932	Helmholtz	.335	.928	.163	64.0	68.1	54.62	94.94	3	C	p
43933			.330	.935	.130	68.5	69.2	4.03	7.00	2	C	O
43933A			.333	.937	.106	72.4	69.6	8.24	14.32	3	C	O
43950			.356	.909	.217	58.7	65.4	6.61	11.49	3	C	O
43951		Helmholtz T	.356	.911	.208	59.7	65.6	17.77	30.89	3	C	O
43952	3932A	Helmholtz B	.351	.926	.139	68.4	67.8	5.54	9.63	1	C	O
43952A			.356	.925	.133	69.5	67.7	4.35	7.56	2	C	O
43952B			.357	.928	.107	73.4	68.1	5.02	8.73	3	C	O
43953			.357	.930	.087	76.2	68.4	8.90	15.47	3	C	O
43960		Helmholtz S	.362	.901	.239	56.6	64.3	17.77	30.89	3	C	O
43961			.360	.911	.201	60.8	65.6	3.66	6.36	1	C	O
43962			.364	.920	.145	68.2	66.9	4.25	7.39	2	C	O
43962A			.364	.928	.079	77.7	68.1	20.15	35.02	3	C	O
43970	3928	Helmholtz F	.376	.901	.216	60.1	64.3	30.19	52.47	2	C	O
43970A			.374	.906	.198	62.1	65.0	7.08	12.31	3	C	O
43972			.374	.926	.051	82.2	67.8	9.81	17.05	1	C	O
43972A			.370	.928	.044	83.3	68.1	24.62	42.79	3	C	O
43981			.388	.913	.126	72.0	65.9	6.37	11.07	2	C	O
43981A			.383	.917	.111	73.8	66.5	19.26	33.48	3	C	O
43981B			.389	.916	.098	75.8	66.3	2.38	4.14	1	C	O
43982			.384	.922	.050	82.6	67.2	3.18	5.53	2	C	O
43990	3930	Helmholtz H	.390	.902	.185	64.6	64.4	10.10	17.56	1	C	O
43990A	3930A	Helmholtz J	.396	.905	.155	68.6	64.8	12.82	22.28	1	C	O
43990B			.394	.907	.149	69.3	65.1	14.03	24.39	3	C	O
43990C			.393	.909	.139	70.5	65.4	7.91	13.75	3	C	O
43991			.397	.910	.120	73.2	65.5	10.74	18.67	2	C	O
44001	3667	Moltke	.410	.010	.912	24.2	0.6	3.72	6.47	1	pM	O
44005			.400	.055	.915	23.6	3.2	13.25	23.03	5	C	O
44006			.404	.066	.912	23.9	3.8	5.00	8.69	3	C	O
44006A			.403	.062	.913	23.8	3.6	3.97	6.90	2	C	O
44007	3665A	Hypatia H	.407	.078	.910	24.1	4.5	2.94	5.11	1	pMC	O
44016			.419	.062	.906	24.8	3.6	3.35	5.82	2	C	O
44016A		Torricelli L	.411	.061	.910	24.3	3.5	2.40	4.17	2	pMC	O
44021	3667B	Moltke B	.426	.018	.905	25.2	1.0	2.83	4.92	2	pM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44023			+.427	-.031	+.904	+25.3	-1.8	2.02	3.51	2	pM	O
44025		Torricelli H	.427	.058	.902	25.3	3.3	4.15	7.21	1	pM	O
44026		Torricelli J	.423	.063	.904	25.1	3.6	3.02	5.25	1	pMC	O
44026A			.424	.069	.903	25.2	4.0	2.78	4.83	3	pMC	O
44027		Torricelli K	.425	.070	.902	25.2	4.0	3.63	6.31	1	pMC	O
44033			.436	.038	.899	25.9	2.2	47.05	81.78	5f	aM	O
44034	4227	Torricelli C	.438	.047	.898	26.0	2.7	6.38	11.09	1	pM	O
44039			.439	.100	.893	26.2	5.7	2.10	3.65	2	pM	O
44052	4228A	Torricelli G	.453	.025	.891	26.9	1.4	2.02	3.51	2	pM	O
44055			.452	.057	.890	26.9	3.3	2.09	3.63	2	pM	O
44059			.451	.091	.888	26.9	5.2	2.14	3.72	2	pM	O
44067		Torricelli T	.461	.074	.884	27.5	4.2	1.93	3.35	1	pM	O
44068			.463	.085	.883	27.6	4.9	2.07	3.60	2	pM	O
44068A			.469	.084	.879	28.1	4.8	5.98 7.92	10.39 13.77	3	pM	O
44078	4224	Torricelli	.476	.082	.876	28.5	4.7	11.71	20.35	3	pM	O
44078A			.472	.086	.877	28.3	4.9	2.50	4.35	2	C	O
44079		Torricelli R	.470	.093	.878	28.2	5.3	48.11	83.62	5f	aM	O
44079A			.475	.090	.875	28.5	5.2	2.23	3.88	3	pM	O
44081		Censorinus K	.482	.018	.876	28.8	1.0	2.34	4.07	2	pM	O
44084	4226	Torricelli B	.487	.045	.872	29.2	2.6	3.98	6.92	1	pM	O
44087	4228	Torricelli F	.489	.073	.869	29.4	4.2	4.70	8.17	3	pMC	O
44087A			.487	.070	.871	29.2	4.0	3.48	6.05	3	pMC	O
44097	4225	Torricelli A	.495	.079	.865	29.8	4.5	6.07	10.55	1	pMC	O
44097A			.498	.070	.864	29.9	4.0	12.80	22.25	5	aMC	O
44101		Theophilus E	.404	.118	.907	24.0	6.8	11.00	19.12	5	aM	pp
44102			.406	.123	.906	24.1	7.1	2.04	3.55	3	pM	O
44106			.406	.169	.898	24.3	9.7	10.67	18.55	5	aMC	O
44109	4184	Cyrillus M	.403	.192	.895	24.2	11.1	3.97	6.90	4	C	O
44111		Theophilus GB	.416	.116	.902	24.8	6.7	2.08	3.62	3	pM	O
44116			.412	.168	.896	24.7	9.7	2.17	3.77	2	aMC	O
44117			.419	.171	.892	25.2	9.8	3.03	5.27	3	C	O
44118	4220	Theophilus B	.419	.184	.889	25.2	10.6	4.98	8.66	1	C	O
44123			.427	.134	.894	25.5	7.7	9.60	16.69	5	aM	O
44132		Theophilus G	.431	.125	.894	25.7	7.2	12.17	21.15	5f	aM	O
44132A		Theophilus GA	.438	.122	.891	26.2	7.0	2.29	3.98	2	pM	O
44133		Theophilus F	.434	.139	.890	26.0	8.0	7.16	12.45	4	aM	p
44139	4195	Theophilus	.435	.198	.878	26.3	11.4	57.53	100.00	2	pMC	PP
44156			.458	.162	.874	27.7	9.3	4.73 3.87	8.22 6.73	4	aMC	O
44163			.464	.138	.875	27.9	7.9	2.19	3.81	3	pM	O
44166			.460	.165	.872	27.8	9.5	5.30	9.21	4	aMC	O
44173			.470	.130	.873	28.3	7.5	2.14	3.72	3	pM	O
44173A		Theophilus W	.474	.135	.870	28.6	7.8	2.18	3.79	2	pM	O
44180		Torricelli N	.485	.106	.868	29.2	6.1	2.45	4.26	2	pM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44186	4222A	Mädler A	+.490	-.165	+.856	+29.8	-9.5	2.80	4.87	2	pM	O
44186A			.489	.164	.857	29.7	9.4	15.03	26.12	5	aM	O
44187			.483	.170	.859	29.3	9.8	4.15	7.21	4	aM	O
44189	4222	Mädler	.487	.191	.852	29.7	11.0	16.01	27.83	2	pM	pp
44191		Torricelli P	.495	.113	.862	29.9	6.5	2.19	3.81	2	pM	O
44207			.406	.272	.872	25.0	15.8	2.09	3.63	2	C	O
44215			.415	.250	.875	25.4	14.5	2.66	4.62	3	C	O
44215A			.415	.254	.874	25.4	14.7	3.03	5.27	3	C	O
44216			.415	.263	.871	25.5	15.2	2.11	3.67	2	C	O
44216A	4182	Cyrillus F	.417	.264	.870	25.6	15.3	24.02 27.48	41.75 47.76	4	C	O
44217	4181	Cyrillus E	.412	.274	.869	25.4	15.9	6.01	10.45	1	C	O
44217A			.412	.277	.868	25.4	16.1	9.50	16.51	4	C	O
44218			.412	.286	.865	25.5	16.6	5.89 4.26	10.24 7.40	3	C	O
44219			.413	.298	.861	25.6	17.3	6.73	11.70	4	C	O
44219A			.411	.292	.864	25.5	17.0	4.12 2.31	7.16 4.02	3	C	O
44223			.425	.234	.874	25.9	13.5	3.53	6.14	4	C	O
44224			.426	.245	.871	26.1	14.2	7.10	12.34	4	C	O
44224A			.429	.249	.868	26.3	14.4	3.12	5.42	3	C	O
44225	4180	Cyrillus D	.420	.252	.872	25.7	14.6	4.02	6.99	3	C	O
44225A			.426	.253	.869	26.1	14.7	3.10	5.39	3	C	O
44226			.426	.266	.865	26.2	15.4	12.63	21.95	4	C	P
44227			.429	.272	.861	26.5	15.8	4.07	7.07	3	C	O
44228			.420	.289	.860	26.0	16.8	8.52	14.81	4	C	O
44228A			.425	.280	.861	26.3	16.3	7.00 4.73	12.17 8.22	4	C	O
44228B			.428	.281	.859	26.5	16.3	6.21 3.71	10.79 6.45	4	C	O
44229	4158	Beaumont D	.422	.294	.858	26.2	17.1	6.58	11.44	1	C	O
44229A			.422	.298	.856	26.2	17.3	5.63	9.79	4	C	O
44231		Theophilus K	.432	.217	.875	26.3	12.5	3.97	6.90	3	C	O
44234			.430	.247	.868	26.3	14.3	3.24	5.63	3	C	O
44234A			.436	.248	.865	26.7	14.4	9.91	17.23	4	C	O
44236	4183	Cyrillus G	.432	.270	.861	26.7	15.7	4.19	7.28	1	C	O
44237			.430	.275	.860	26.6	16.0	5.21	9.06	3	C	O
44237A			.437	.272	.857	27.0	15.8	3.19	5.54	3	C	O
44244	4221	Theophilus C	.440	.248	.863	27.0	14.4	5.30	9.21	3	C	O
44244A			.440	.249	.863	27.0	14.4	2.51	4.36	2	C	O
44246			.441	.264	.858	27.2	15.3	3.51	6.10	3	C	O
44246A			.442	.267	.856	27.3	15.5	3.19	5.54	3	C	O
44248	4155	Beaumont A	.447	.280	.850	27.8	16.3	7.18	12.48	4	C	P
44249		Beaumont N	.446	.290	.847	27.8	16.9	3.04	5.28	2	C	O
44257			.450	.277	.849	27.9	16.1	2.65	4.61	3	C	O
44257A			.451	.275	.849	28.0	16.0	2.49	4.33	2	C	O
44259	4157B	Beaumont H	.454	.296	.840	28.4	17.2	3.96	6.88	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44259A			+.456	-.293	+.840	+28.5	-17.0	2.54	4.41	2	C	O
44269			.466	.290	.836	29.1	16.9	2.16	3.75	2	pMC	O
44269A			.469	.299	.831	29.4	17.4	3.19	5.54	3	C	O
44284	4157D	Beaumont L	.485	.249	.838	30.1	14.4	2.56	4.45	1	pM	O
44285			.485	.259	.835	30.1	15.0	2.35	4.08	2	pM	O
44296			.494	.264	.828	30.8	15.3	2.21	3.84	2	pM	O
44300		Catharina G	.402	.300	.865	24.9	17.5	8.85 12.67	15.38 22.02	4	C	O
44301A			.406	.316	.858	25.3	18.4	7.50	13.04	4	C	O
44301B			.407	.319	.856	25.4	18.6	2.46	4.28	3	C	O
44303	4167A	Catharina H	.405	.330	.853	25.4	19.3	3.46	6.01	2	C	O
44304			.405	.342	.848	25.5	20.0	17.03	29.60	5	C	O
44305			.401	.350	.847	25.3	20.5	3.52	6.12	4	C	O
44305A			.407	.357	.841	25.8	20.9	2.45	4.26	2	C	O
44306			.407	.369	.836	26.0	21.7	2.91	5.06	3	C	O
44307			.405	.372	.835	25.9	21.8	2.58	4.48	2	C	O
44308	4107	Polybius	.400	.382	.833	25.6	22.5	24.51	42.60	3	C	O
44310			.410	.306	.859	25.5	17.8	6.06	10.53	3	C	O
44310A			.412	.302	.860	25.6	17.6	4.10	7.13	4	C	O
44310B			.412	.308	.858	25.7	17.9	3.89	6.76	3	C	O
44311			.417	.319	.851	26.1	18.6	8.36	14.53	4	C	pp
44312			.412	.325	.851	25.8	19.0	2.93	5.09	3	C	O
44313			.411	.336	.847	25.9	19.6	3.20	5.56	3	C	O
44316			.412	.367	.834	26.3	21.5	3.14	5.46	2	C	O
44317			.414	.374	.830	26.5	22.0	2.72	4.73	2	C	O
44319		Polybius N	.414	.398	.819	26.8	23.5	6.67	11.59	3	C	O
44319A			.415	.395	.820	26.9	23.3	2.43	4.22	2	C	O
44320			.421	.308	.853	26.3	17.9	2.91	5.06	3	C	O
44320A			.424	.304	.853	26.4	17.7	6.91	12.01	3	C	O
44320B			.425	.309	.851	26.5	18.0	2.80	4.87	4	C	O
44321	4158B	Beaumont F	.426	.314	.848	26.7	18.3	5.85	10.17	2	C	O
44322	4156	Beaumont B	.428	.321	.845	26.9	18.7	9.40	16.34	1	C	O
44322A			.427	.327	.843	26.9	19.1	4.67	8.12	3	C	O
44322B			.428	.328	.842	26.9	19.1	3.08	5.35	2	C	O
44324	4157A	Beaumont G	.428	.348	.834	27.2	20.4	4.66	8.10	1	C	O
44324A		Beaumont J	.420	.341	.841	26.5	19.9	3.03	5.27	1	C	O
44325A			.429	.352	.832	27.3	20.6	7.02	12.20	5f	C	O
44327			.427	.374	.823	27.4	22.0	2.93	5.09	3	C	O
44328			.425	.384	.820	27.4	22.6	3.40	5.91	4	C	O
44329			.423	.392	.817	27.4	23.1	2.77	4.81	2	C	O
44329A			.428	.396	.812	27.8	23.3	3.84	6.67	4	C	O
44330			.430	.307	.849	26.9	17.9	6.86	11.92	3	C	O
44331			.434	.313	.845	27.2	18.2	4.63	8.05	3	C	O
44331A			.437	.314	.843	27.4	18.3	4.18	7.27	4	C	O
44332			.434	.326	.840	27.3	19.0	7.67	13.33	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44332A	4158A	Beaumont E	+.437	-.323	+.839	+27.5	-18.8	10.42	18.11	3	C	O
44333			.437	.337	.834	27.7	19.7	8.39 5.82	14.58 10.12	5	C	O
44333A			.438	.334	.835	27.7	19.5	5.74	9.98	3	C	O
44333B			.439	.337	.833	27.8	19.7	2.00	3.48	2	C	O
44337	4112D	Polybius L	.438	.374	.817	28.2	22.0	4.14	7.20	1	C	O
44337A			.432	.370	.822	27.7	21.7	6.89 8.84	11.98 15.37	4f	C	O
44338			.433	.383	.816	28.0	22.5	4.09 5.67	7.11 9.86	3f	C	O
44339	4108	Polybius A	.432	.391	.813	28.0	23.0	9.66	16.79	1	C	O
44339A			.437	.397	.807	28.4	23.4	2.58	4.48	3	C	O
44341			.443	.317	.839	27.8	18.5	3.80	6.60	4	C	O
44341A			.446	.316	.837	28.0	18.4	2.09	3.63	2	C	O
44342			.442	.327	.835	27.9	19.1	3.66	6.36	3	C	O
44342A			.443	.323	.836	27.9	18.8	2.77	4.81	2	C	O
44342B			.445	.324	.835	28.1	18.9	4.57	7.94	3	C	O
44342C			.448	.325	.833	28.3	19.0	2.32	4.03	3	C	O
44344	4156A	Beaumont C	.440	.346	.829	28.0	20.2	3.81	6.62	1	C	O
44351	4154	Beaumont	.458	.310	.833	28.8	18.1	30.58	53.15	3	aMC	pp
44352			.450	.323	.833	28.4	18.8	2.27	3.95	2	C	O
44353		Beaumont M	.452	.332	.828	28.6	19.4	7.37	12.81	3	C	O
44354			.454	.347	.821	29.0	20.3	4.45	7.73	3	C	O
44355			.455	.357	.816	29.1	20.9	11.95	20.77	4f	C	O
44359			.459	.397	.795	30.0	23.4	2.58	4.48	2	C	O
44362			.467	.327	.822	29.6	19.1	6.39	11.11	4	C	?
44362A			.469	.320	.823	29.7	18.7	3.41	5.93	3	C	O
44364		Beaumont P	.465	.341	.817	29.6	19.9	11.12	19.33	3f	C	O
44365			.460	.355	.814	29.5	20.8	2.18	3.79	2	C	O
44367			.464	.377	.802	30.1	22.1	8.04	13.97	4f	C	O
44367A			.468	.371	.802	30.3	21.8	2.93	5.09	3	C	O
44367B			.468	.373	.801	30.3	21.9	2.93	5.09	3	C	O
44370	4157C	Beaumont K	.477	.300	.826	30.0	17.5	3.31	5.75	1	pM	O
44373			.471	.330	.818	29.9	19.3	7.12	12.38	4	C	?
44374			.477	.342	.810	30.5	20.0	8.65	15.03	4f	aMC	O
44374A			.478	.345	.808	30.6	20.2	4.43	7.70	4f	aMC	O
44375	4126A	Fracastorius H	.476	.354	.805	30.6	20.7	11.83	20.56	4	C	O
44375A			.477	.357	.803	30.7	20.9	6.26 7.64	10.88 13.28	4	C	O
44376			.478	.360	.801	30.8	21.1	4.57	7.94	4	C	O
44377	4121	Fracastorius D	.477	.371	.797	30.9	21.8	15.61	27.13	3	C	PP
44379		Fracastorius X	.475	.391	.788	31.1	23.0	3.90	6.78	3	C	O
44379A			.475	.393	.787	31.1	23.1	4.82	8.38	3	C	O
44380			.482	.308	.820	30.4	17.9	2.06	3.58	2	pM	O
44380A		Beaumont R	.486	.307	.818	30.7	17.9	2.32	4.03	2	pM	O
44382			.482	.320	.816	30.6	18.7	2.32	4.03	3	pM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44384	4122	Fracastorius E	+.484	-.344	+.805	+31.0	-20.1	6.87	11.94	3	C	O
44387			.480	.377	.792	31.2	22.1	7.10	12.34	3	C	O
44388			.487	.388	.782	31.9	22.8	4.71	8.19	3	C	O
44389			.484	.395	.781	31.8	23.3	2.22	3.86	2	C	O
44389A	4126	Fracastorius Y	.488	.392	.780	32.0	23.1	7.33	12.74	3	C	O
44389B			.488	.397	.777	32.1	23.4	5.92	10.29	3	C	O
44390			.491	.300	.818	31.0	17.5	2.10	3.65	2	pM	O
44401	4112	Polybius E	.402	.413	.817	26.2	24.4	5.09	8.85	1	C	O
44401A			.404	.415	.815	26.4	24.5	2.92	5.08	3	C	O
44402			.403	.420	.813	26.4	24.8	2.65	4.61	2	C	O
44402A			.405	.428	.808	26.6	25.3	2.11	3.67	3	C	O
44405			.407	.452	.794	27.1	26.9	2.34	4.07	2	C	O
44406			.406	.469	.784	27.4	28.0	5.82	10.12	5	C	O
44409	4053A	Rothmann A	.404	.492	.771	27.6	29.5	4.24	7.37	3	C	O
44409A			.400	.494	.772	27.4	29.6	2.65	4.61	2	C	O
44409B			.404	.495	.769	27.7	29.7	2.48	4.31	3	C	O
44409C			.409	.495	.767	28.1	29.7	2.11	3.67	3	C	O
44410			.412	.400	.819	26.7	23.6	3.28	5.70	2	C	O
44411			.410	.418	.811	26.8	24.7	5.45	9.47	2	C	O
44412		Polybius Q	.419	.424	.803	27.6	25.1	3.45	6.00	1	C	O
44412A			.414	.429	.803	27.3	25.4	3.87	6.73	3	C	O
44413		Polybius R	.414	.432	.801	27.3	25.6	4.59	7.98	1	C	O
44413A			.418	.436	.797	27.7	25.8	2.87	4.99	2	C	O
44414			.412	.448	.793	27.4	26.6	2.11	3.67	2	C	O
44415	4111	Polybius D	.418	.452	.788	27.9	26.9	5.17	8.99	1	C	O
44416	4082	Piccolomini H	.411	.468	.782	27.7	27.9	4.72	8.20	3	C	O
44417			.410	.475	.779	27.8	28.4	3.01	5.23	2	C	O
44417A			.410	.479	.776	27.8	28.6	2.71	4.71	3	C	O
44417B			.411	.470	.781	27.8	28.0	3.34	5.81	3	C	O
44418	4055C	Rothmann F	.411	.488	.770	28.1	29.2	4.44	7.72	2	C	O
44418A			.412	.480	.775	28.0	28.7	3.40	5.91	3	C	O
44419			.419	.494	.762	28.8	29.6	2.81	4.88	3	C	O
44420			.422	.400	.814	27.4	23.6	18.06 12.23	31.39 21.26	5	C	O
44420A			.429	.402	.809	27.9	23.7	3.52	6.12	3	C	O
44421			.422	.410	.809	27.6	24.2	5.20	9.04	2	C	O
44421A			.427	.413	.804	28.0	24.4	2.11	3.67	1	C	O
44423			.424	.430	.797	28.0	25.5	4.03	7.00	3	C	O
44424			.425	.444	.789	28.3	26.4	3.36	5.84	3	C	O
44425			.428	.450	.784	28.6	26.7	4.04	7.02	3	C	O
44427			.421	.471	.775	28.5	28.1	4.38	7.61	4	C	O
44427A		Piccolomini T	.428	.478	.767	29.2	28.6	4.34	7.54	2	C	O
44428		Rothmann L	.420	.488	.765	28.8	29.2	7.64	13.28	3	C	O
44429			.427	.494	.757	29.4	29.6	3.81	6.62	3	C	O
44430			.430	.400	.809	28.0	23.6	4.97	8.64	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44430A			+.430	-.405	+.807	+28.1	-23.9	2.04	3.55	2	C	O
44431			.430	.411	.804	28.1	24.3	6.02	10.46	3	C	p
44431A			.430	.417	.801	28.2	24.6	2.35	4.08	2	C	O
44431B			.436	.412	.800	28.6	24.3	2.75	4.78	2	C	O
44432		Polybius V	.440	.425	.791	29.1	25.2	3.20	5.56	1	C	O
44433			.438	.431	.789	29.0	25.5	10.83	18.82	4	C	O
44435		Piccolomini W	.436	.450	.779	29.2	26.7	3.16	5.49	1	C	O
44436			.433	.460	.775	29.2	27.4	2.11	3.67	1	C	O
44437			.431	.478	.765	29.4	28.6	4.65	8.08	4	C	O
44438			.433	.486	.759	29.7	29.1	17.18 22.57	29.86 39.23	5	C	O
44439			.436	.496	.751	30.1	29.7	3.68	6.40	3	C	O
44440			.443	.403	.801	29.0	23.8	8.56	14.88	5	C	O
44441			.443	.411	.797	29.1	24.3	10.51 9.97	18.27 17.33	5	C	O
44441A			.448	.414	.792	29.5	24.5	4.51	7.84	3	C	O
44442			.443	.420	.792	29.2	24.8	15.25	26.51	5	C	p?
44443	4083A	Piccolomini K	.447	.433	.783	29.7	25.7	4.28	7.44	1	C	O
44443A			.449	.430	.783	29.8	25.5	11.74 14.64	20.41 25.45	4	C	O
44444			.443	.449	.776	29.7	26.7	2.94	5.11	2	C	O
44444A			.444	.446	.777	29.7	26.5	3.70	6.43	3	C	O
44445			.447	.455	.770	30.1	27.1	4.41	7.67	3	C	p
44450			.455	.406	.793	29.9	24.0	14.93	25.95	5	C	O
44451			.451	.415	.790	29.7	24.5	4.84	8.41	3	C	O
44451A			.454	.417	.787	30.0	24.6	2.40	4.17	3	C	O
44451B			.455	.414	.788	30.0	24.5	3.16	5.49	3	C	O
44451C			.458	.417	.785	30.3	24.6	4.11	7.14	3	C	O
44452		Piccolomini J	.455	.422	.784	30.1	25.0	16.64	28.92	4	C	O
44453	4076	Piccolomini B	.458	.437	.774	30.6	25.9	7.51	13.05	2	C	O
44454	4083E	Piccolomini O	.455	.450	.768	30.6	26.7	6.28	10.92	2	C	O
44454A	4075	Piccolomini A	.454	.445	.772	30.5	26.4	9.20	15.99	2	C	O
44455			.454	.458	.764	30.7	27.3	14.25	24.77	4	C	O
44456			.451	.462	.764	30.6	27.5	7.17	12.46	3	C	O
44456A	4077	Piccolomini C	.459	.465	.757	31.2	27.7	15.05	26.16	3	C	p
44457			.451	.471	.758	30.7	28.1	3.53	6.14	3	C	O
44462			.468	.429	.773	31.2	25.4	4.64	8.07	2	C	O
44463			.466	.431	.773	31.1	25.5	4.95	8.60	2	C	O
44465		Piccolomini X	.467	.454	.759	31.6	27.0	3.96	6.88	3	C	O
44466	4083	Piccolomini M	.467	.468	.750	31.9	27.9	14.30	24.86	2	C	R
44469A	4074	Piccolomini	.464	.497	.733	32.3	29.8	51.37	89.29	2	C	P
44470			.479	.406	.778	31.6	24.0	9.10	15.82	5	C	O
44473			.475	.430	.768	31.7	25.5	12.63	21.95	5	C	O
44474	4079	Piccolomini E	.474	.440	.763	31.9	26.1	10.90	18.95	2	C	O
44474A	4080	Piccolomini F	.473	.444	.761	31.9	26.4	39.06	67.89	5	C	?
44475	4078	Piccolomini D	.476	.453	.754	32.3	26.9	9.70	16.86	1	C	?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44481			+.486	-.414	+.770	+32.3	-24.5	2.22	3.86	2	c	o
44482			.483	.427	.764	32.3	25.3	2.58	4.48	4	c	o
44485			.484	.452	.749	32.9	26.9	2.46	4.28	2	c	o
44490			.496	.405	.768	32.9	23.9	2.62	4.55	3	c	o
44490A			.498	.406	.766	33.0	24.0	3.90	6.78	3	c	o
44491			.496	.412	.764	33.0	24.3	3.28	5.70	3	c	o
44491A			.496	.414	.763	33.0	24.5	3.87	6.73	3	c	o
44492		Fracastorius Q	.497	.426	.756	33.3	25.2	4.65	8.08	3	c	o
44492A			.494	.423	.760	33.0	25.0	12.83	22.30	5	c	o
44493		Fracastorius P	.497	.430	.754	33.4	25.5	4.60	8.00	2	c	o
44494	4083B	Piccolomini L	.499	.440	.747	33.8	26.1	7.03	12.22	1	c	?
44494A			.493	.447	.746	33.4	26.6	5.98	10.39	4	c	o
44494B			.497	.449	.743	33.8	26.7	2.94	5.11	3	c	o
44501	4053	Rothmann	.401	.513	.759	27.8	30.9	24.77	43.05	2	c	p
44502	4054	Rothmann B	.405	.527	.747	28.5	31.8	10.33	17.96	3	c	pp
44504			.401	.549	.733	28.7	33.3	2.97	5.16	2	c	o
44504A			.406	.546	.733	29.0	33.1	3.46	6.01	3	c	o
44504B			.406	.541	.737	28.9	32.8	10.50	18.25	4	c	o
44504C			.407	.549	.730	29.1	33.3	3.00	5.21	3	c	o
44505			.406	.556	.725	29.2	33.8	4.90	8.52	3	c	o
44506			.408	.568	.715	29.7	34.6	3.02	5.25	1	c	o
44508			.402	.584	.705	29.7	35.7	4.55	7.91	1	c	o
44508A			.409	.580	.704	30.1	35.5	3.15	5.48	1	c	o
44508B			.407	.582	.704	30.0	35.6	2.83	4.92	2	c	o
44508C			.403	.589	.700	29.9	36.1	4.28	7.44	2	c	o
44509	4064C	Wöhler C	.408	.598	.690	30.6	36.7	5.15 8.80	8.95 15.30	2	c	o
44509A			.408	.590	.697	30.4	36.2	4.89	8.50	3	c	o
44512			.414	.526	.743	29.1	31.7	4.95	8.60	2	c	o
44512A			.419	.522	.743	29.4	31.5	2.45	4.26	3	c	o
44513			.411	.537	.737	29.2	32.5	3.05	5.30	3	c	o
44514	4055B	Rothmann E	.411	.544	.732	29.3	33.0	6.67	11.59	2	c	o
44515			.412	.557	.721	29.7	33.8	2.72	4.73	2	c	o
44515A			.413	.550	.726	29.6	33.4	3.50	6.08	4	c	o
44516			.412	.569	.712	30.1	34.7	3.45	6.00	2	c	o
44517			.418	.578	.701	30.8	35.3	4.99	8.67	3	c	o
44517A			.419	.576	.702	30.8	35.2	3.40	5.91	3	c	o
44518			.413	.589	.695	30.7	36.1	3.92	6.81	2	c	o
44518A			.417	.589	.692	31.1	36.1	3.50	6.08	4	c	o
44519			.412	.596	.689	30.9	36.6	2.97	5.16	3	c	o
44519A			.413	.598	.687	31.0	36.7	2.78	4.83	3	c	o
44519B			.415	.593	.690	31.0	36.4	4.17	7.25	4	c	o
44519C			.417	.599	.684	31.4	36.8	2.88	5.01	3	c	o
44519D		Wöhler D	.419	.590	.690	31.3	36.2	4.07	7.07	2	c	o
44521			.422	.510	.750	29.4	30.7	4.64	8.07	4	c	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44521A			+.426	-.512	+.746	+29.7	-30.8	7.64	13.28	3	C	O
44521B		Rothmann M	.426	.518	.742	29.9	31.2	10.74	18.67	3	C	O
44521C			.420	.513	.749	29.3	30.9	3.75	6.52	3	C	O
44522			.423	.522	.741	29.7	31.5	6.35	11.04	3	C	O
44522A			.428	.528	.734	30.3	31.9	4.04	7.02	3	C	O
44523			.426	.532	.732	30.2	32.1	3.83	6.66	2	C	O
44525			.426	.558	.712	30.9	33.9	2.95	5.13	3	C	O
44526			.426	.568	.704	31.2	34.6	50.49	87.76	4	C	O
44528			.421	.581	.697	31.1	35.5	2.50	4.35	2	C	O
44528A			.423	.585	.692	31.4	35.8	3.05	5.30	3	C	O
44528B			.426	.584	.691	31.7	35.7	2.70	4.69	3	C	O
44529			.420	.595	.685	31.5	36.5	2.95	5.13	3	C	O
44529A			.420	.596	.684	31.5	36.6	3.07	5.34	3	C	O
44529B			.427	.599	.677	32.2	36.8	9.92	17.24	4	C	O
44530			.439	.504	.744	30.5	30.3	5.04	8.76	3	C	O
44532			.437	.529	.727	31.0	31.9	6.00	10.43	4	C	O
44533			.431	.538	.724	30.8	32.5	2.96	5.14	3	C	O
44533A			.430	.535	.727	30.6	32.3	4.20	7.30	4	C	O
44534			.430	.542	.722	30.8	32.8	14.00	24.33	3	C	O
44534A			.434	.548	.715	31.3	33.2	5.60	9.73	5	C	O
44534B			.437	.544	.716	31.4	33.0	3.80	6.60	5	C	O
44536	4062	Stiborius	.439	.565	.699	32.1	34.4	24.79	43.09	3	C	P
44538	4064D	Stiborius F	.436	.585	.684	32.5	35.8	4.75	8.26	1	C	O
44538A			.435	.589	.681	32.6	36.1	3.50	6.08	2	C	O
44539		Stiborius N	.438	.592	.677	32.9	36.3	5.20	9.04	2	C	O
44539A			.435	.594	.677	32.7	36.4	2.95	5.13	2	C	O
44539B			.437	.597	.673	33.0	36.7	4.90	8.52	3	C	O
44543			.440	.536	.720	31.4	32.4	4.99	8.67	5	C	O
44543A			.442	.539	.717	31.7	32.6	3.15	5.48	5	C	O
44543B			.442	.532	.722	31.5	32.1	4.75	8.26	5	C	O
44547			.445	.578	.684	33.0	35.3	3.46 6.89	6.01 11.98	4	C	O
44547A			.447	.575	.685	33.1	35.1	3.57 6.89	6.21 11.98	4	C	O
44547B			.449	.570	.688	33.1	34.8	5.80	10.08	3	C	O
44548		Stiborius M	.441	.580	.685	32.8	35.5	4.35	7.56	1	C	O
44548A			.441	.583	.682	32.9	35.7	6.95	12.08	3	C	O
44549			.445	.590	.674	33.4	36.2	2.97	5.16	3	C	O
44549A			.446	.593	.670	33.6	36.4	4.37	7.60	3	C	O
44553			.458	.533	.711	32.8	32.2	5.36	9.32	3	C	O
44554			.459	.544	.702	33.2	33.0	12.20	21.21	4	C	O
44555	4065	Stiborius C	.456	.558	.693	33.3	33.9	12.55	21.81	2	C	p?
44555A			.456	.550	.700	33.1	33.4	6.99	12.15	4	C	O
44556			.455	.566	.687	33.5	34.5	11.50	19.99	4	C	O
44557		Stiborius L	.452	.573	.684	33.5	35.0	5.55	9.65	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44557A			+.457	-.576	+.678	+34.0	-35.2	10.39	18.06	5	C	O
44558			.450	.580	.679	33.5	35.5	5.90	10.26	5	C	O
44559			.451	.597	.663	34.2	36.7	4.95	8.60	3	C	O
44562			.461	.520	.719	32.7	31.3	6.89	11.98	4	C	O
44563			.468	.530	.707	33.5	32.0	2.58	4.48	3	C	O
44563A			.468	.532	.706	33.6	32.1	5.49	9.54	3	C	O
44563B			.461	.539	.705	33.2	32.6	6.60	11.47	4	C	O
44564			.464	.549	.695	33.7	33.3	5.10	8.86	2	C	O
44564A		Stiborius P	.468	.548	.693	34.0	33.2	4.10	7.13	2	C	O
44564B			.469	.544	.696	34.0	33.0	4.00	6.95	3	C	O
44565			.460	.552	.695	33.5	33.5	4.15	7.21	3	C	O
44566		Stiborius EA	.465	.567	.680	34.4	34.5	6.15	10.69	3	C	O
44567			.467	.570	.676	34.6	34.8	3.60	6.26	3	C	O
44567A	4067	Stiborius E	.461	.570	.680	34.1	34.8	8.73	15.17	3	C	O
44567B			.464	.578	.671	34.7	35.3	5.25	9.13	4	C	?
44567C			.461	.576	.675	34.3	35.2	5.36	9.72	3	C	O
44568		Stiborius K	.462	.581	.670	34.6	35.5	8.95	15.56	2	C	?
44569			.464	.592	.659	35.2	36.3	5.15	8.95	4	C	O
44571			.476	.513	.714	33.7	30.9	5.50	9.56	3	C	O
44571A			.476	.517	.711	33.8	31.1	4.10	7.13	3	C	O
44572	4083C	Piccolomini S	.479	.523	.705	34.2	31.5	12.52	21.76	3	C	?
44572A			.479	.520	.707	34.1	31.3	8.35	14.51	2	C	O
44573			.476	.534	.699	34.3	32.3	6.50	11.30	3	C	O
44574			.471	.546	.693	34.2	33.1	3.10	5.39	2	C	O
44574A			.472	.549	.690	34.4	33.3	6.30	10.95	2	C	O
44574B			.472	.540	.697	34.1	32.7	4.30	7.47	3	C	O
44574C			.475	.544	.692	34.5	33.0	4.00	6.95	2	C	O
44575			.470	.559	.683	34.5	34.0	3.97	6.90	3	C	O
44576			.472	.560	.681	34.7	34.1	5.25	9.13	3	C	O
44576A			.471	.566	.677	34.8	34.5	2.90	5.04	2	C	O
44577			.474	.572	.669	35.3	34.9	3.00	5.21	3	C	O
44577A			.479	.573	.665	35.8	35.0	8.60	14.95	4	C	p?
44578		Stiborius J	.471	.589	.657	35.6	36.1	5.65	9.82	2	C	O
44578A			.470	.583	.663	35.3	35.7	3.55	6.17	3	C	O
44578B			.470	.585	.661	35.4	35.8	6.15	10.69	3	C	O
44579			.479	.598	.643	36.7	36.7	3.20	5.56	2	C	O
44583			.483	.537	.692	34.9	32.5	10.65	18.51	3	C	O
44583A			.489	.532	.691	35.3	32.1	7.25	12.60	3	C	O
44584			.481	.541	.690	34.9	32.8	3.29	5.72	2	C	O
44584A			.484	.542	.687	35.2	32.8	6.89	11.98	2	C	O
44584B			.487	.544	.683	35.5	33.0	4.90	8.52	2	C	O
44585	4066	Stiborius D	.487	.550	.678	35.7	33.4	10.37	18.02	2	C	?
44585A			.480	.557	.678	35.3	33.8	3.00	5.21	3	C	O
44585B			.485	.558	.673	35.8	33.9	3.67	6.38	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44585C			+.489	-.552	+.675	+35.9	-33.5	4.15	7.21	3	C	O
44586			.481	.561	.674	35.5	34.1	2.18	3.79	3	C	O
44586A			.488	.561	.669	36.1	34.1	4.75	8.26	3	C	O
44586B			.489	.564	.665	36.3	34.3	3.20	5.56	2	C	O
44586C			.488	.569	.662	36.4	34.7	3.00	5.21	3	C	O
44590			.494	.500	.711	34.8	30.0	11.29	19.62	4	C	O
44591			.492	.516	.701	35.1	31.1	4.75	8.26	2	C	O
44591A			.493	.513	.703	35.1	30.9	2.80	4.87	3	C	O
44592			.499	.524	.690	35.9	31.6	3.50	6.08	2	C	O
44594			.494	.542	.680	36.0	32.8	8.25	14.34	4	C	O
44594A			.495	.547	.675	36.2	33.2	3.77	6.55	4	C	O
44595		Stiborius DA	.491	.555	.671	36.2	33.7	7.05	12.25	2	C	O
44596			.496	.569	.656	37.1	34.7	3.00	5.21	3	C	O
44597			.492	.574	.655	36.9	35.0	3.95	6.87	4	C	O
44597A			.499	.577	.647	37.7	35.2	4.10	7.13	4	C	O
44599			.499	.590	.635	38.2	36.2	14.70	25.55	4	C	O
44599A			.494	.594	.635	37.9	36.4	4.00	6.95	2	C	O
44599B			.492	.599	.632	37.9	36.8	2.00	3.48	2	C	O
44600	4064B	Wöhler B	.408	.605	.684	30.8	37.2	4.70	8.17	1	C	O
44600A			.400	.608	.686	30.3	37.4	2.98	5.18	2	C	O
44600B			.404	.609	.683	30.6	37.5	4.95	8.60	3	C	O
44601			.400	.616	.679	30.5	38.0	2.53	4.40	3	C	O
44601A			.401	.618	.676	30.7	38.2	5.50	9.56	2	C	O
44602			.401	.629	.666	31.1	39.0	3.95	6.87	3	C	O
44603			.409	.631	.659	31.8	39.1	2.90	5.04	2	C	O
44603A			.409	.638	.652	32.1	39.6	4.05	7.04	2	C	O
44604			.404	.640	.654	31.7	39.8	3.30	5.74	3	C	O
44604A			.409	.646	.645	32.4	40.2	4.87	8.46	4	C	O
44605			.402	.659	.636	32.3	41.2	2.68	4.66	2	C	O
44605A			.406	.659	.633	32.7	41.2	2.18	3.79	2	C	O
44606		Janssen N	.400	.661	.635	32.2	41.4	3.10	5.39	1	C	O
44607			.401	.678	.616	33.1	42.7	2.18	3.79	2	C	O
44608		Janssen X	.402	.680	.613	33.2	42.8	13.85	24.07	3	C	p
44608A			.402	.686	.606	33.5	43.3	4.67	8.12	3	C	O
44610			.410	.607	.681	31.1	37.4	3.02	5.25	2	C	O
44610A			.415	.607	.678	31.5	37.4	2.20	3.82	3	C	O
44611	4064	Wöhler	.410	.619	.670	31.5	38.2	15.08	26.21	2	C	O
44611A			.415	.613	.672	31.7	37.8	2.45	4.26	2	C	O
44613			.411	.632	.657	32.0	39.2	3.90	6.78	2	C	O
44613A			.415	.633	.654	32.4	39.3	7.00	12.17	4	C	p?
44613B			.417	.630	.655	32.5	39.1	3.00	5.21	2	C	O
44613C			.417	.638	.647	32.8	39.6	2.55	4.43	2	C	O
44617			.413	.670	.617	33.8	42.1	2.45	4.26	3	C	O
44617A			.416	.674	.610	34.3	42.4	2.38	4.14	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44617B			.416	.676	.608	34.4	42.5	12.90	22.42	5	C	O
44617C			.417	.673	.611	34.3	42.3	2.68	4.66	3	C	O
44617D			.418	.671	.612	34.3	42.1	14.00 11.53	24.33 20.04	5	C	O
44618	4489A	Janssen B	.413	.684	.601	34.5	43.2	12.77	22.20	2	C	O
44619			.419	.695	.584	35.6	44.0	12.77 7.98	22.20 13.87	4	C	O
44619A			.419	.699	.580	35.9	44.3	3.20	5.56	4	C	O
44620			.427	.604	.673	32.4	37.2	8.10	14.08	5	C	O
44621			.420	.610	.672	32.0	37.6	28.28	49.15	5	C	O
44621A			.425	.617	.662	32.7	38.1	8.92	15.50	4	C	O
44622			.420	.620	.663	32.4	38.3	3.02	5.25	2	C	O
44623			.427	.631	.648	33.4	39.1	10.59	18.41	5	C	O
44624		Wöhler F	.426	.644	.635	33.8	40.1	4.45	7.73	2	C	O
44625			.426	.658	.621	34.5	41.1	11.90	20.68	4	C	O
44626			.422	.664	.617	34.4	41.6	4.77	8.29	4	C	O
44627		Janssen MA	.427	.671	.606	35.2	42.1	3.95	6.87	1	C	O
44628	4488A	Janssen C	.420	.680	.601	34.9	42.8	4.09	7.11	1	C	O
44630	4063A	Stiborius B	.440	.606	.663	33.6	37.3	5.55	9.65	1	C	O
44631			.437	.616	.655	33.7	38.0	2.90	5.04	1	C	O
44631A			.435	.610	.662	33.3	37.6	3.40	5.91	2	C	O
44632			.437	.626	.646	34.1	38.8	4.96	8.62	3	C	O
44633			.432	.631	.644	33.8	39.1	2.95	5.13	2	C	O
44634			.430	.643	.634	34.2	40.0	2.25	3.91	2	C	O
44635			.439	.654	.616	35.5	40.8	18.50	32.16	4	C	O
44636	4487A	Janssen M	.433	.668	.605	35.6	41.9	9.10	15.82	1	C	O
44636A			.439	.666	.603	36.1	41.8	4.80	8.34	3	C	O
44637			.439	.676	.592	36.6	42.5	5.06	8.80	3	C	O
44638	4487	Janssen J	.433	.687	.584	36.6	43.4	17.15	29.81	2	C	p
44639			.439	.692	.573	37.5	43.8	11.00	19.12	5	C	O
44640			.448	.602	.661	34.1	37.0	3.90	6.78	3	C	O
44641			.444	.613	.654	34.2	37.8	10.30	17.90	5	C	O
44641A			.449	.616	.647	34.7	38.0	5.75	9.99	3	C	O
44642			.444	.623	.644	34.6	38.5	5.75	9.99	3	C	O
44642A			.447	.620	.645	34.7	38.3	9.92	17.24	4	C	O
44644		Wöhler G	.446	.644	.622	35.7	40.1	4.00	6.95	1	C	O
44646			.441	.661	.607	36.0	41.4	11.20	19.47	4	C	O
44646A			.441	.668	.599	36.3	41.9	3.00	5.21	3	C	O
44652		Brenner P	.450	.627	.636	35.3	38.8	3.60	6.26	1	C	O
44653		Brenner Q	.454	.632	.628	35.9	39.2	4.75	8.26	1	C	O
44655	4465B	Brenner F	.458	.652	.604	37.2	40.7	7.98	13.87	1	C	O
44660	4063	Stiborius A	.466	.600	.650	35.6	36.9	18.61	32.35	2	C	pp
44660A	4064E	Stiborius G	.466	.606	.645	35.9	37.3	5.48	9.53	1	C	O
44660B			.465	.603	.648	35.7	37.1	34.50	59.97	5	C	?
44661			.464	.613	.639	36.0	37.8	6.50	11.30	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44661A			+.464	-.616	+.637	+36.1	-38.0	4.95	8.60	4	C	O
44662		Brenner S	.463	.621	.632	36.2	38.4	3.80	6.60	1	C	O
44662A		Brenner N	.465	.629	.623	36.7	39.0	4.21	7.32	1	C	O
44662B			.468	.620	.630	36.6	38.3	4.10	7.13	3	C	O
44662C		Brenner M	.468	.626	.624	36.9	38.8	4.00	6.95	2	C	O
44663			.460	.632	.624	36.4	39.2	6.95	12.08	3	C	O
44665			.463	.654	.598	37.7	40.8	2.87	4.99	2	C	O
44666			.462	.662	.590	38.1	41.5	20.11	34.95	5	C	O
44667			.462	.678	.572	38.9	42.7	2.65	4.61	1	C	O
44668			.467	.682	.563	39.7	43.0	4.67	8.12	3	C	O
44668A			.460	.683	.567	39.0	43.1	91.11	158.36	4	C	?
44669			.463	.692	.554	39.9	43.8	4.00	6.95	3	C	O
44670			.479	.607	.634	37.1	37.4	5.55	9.65	4	C	O
44671		Brenner J	.472	.611	.636	36.6	37.7	4.86	8.45	1	C	O
44671A		Brenner L	.470	.617	.631	36.7	38.1	3.65	6.34	2	C	O
44671B		Brenner K	.477	.616	.627	37.3	38.0	4.25	7.39	2	C	O
44671C			.479	.610	.631	37.2	37.6	4.00	6.95	4	C	O
44675		Brenner R	.470	.652	.595	38.3	40.7	5.95	10.34	1	C	O
44675A			.474	.651	.593	38.6	40.6	6.82	11.85	3	C	O
44676			.472	.669	.574	39.4	42.0	5.14	8.93	2	C	O
44679			.479	.695	.536	41.8	44.0	15.50	26.94	5	C	?
44680			.483	.605	.633	37.3	37.2	3.45	6.00	2	C	O
44681			.482	.616	.623	37.7	38.0	2.72	4.73	2	C	O
44683	4461A	Brenner	.488	.632	.602	39.0	39.2	50.27	87.38	4	C	O
44683A			.482	.637	.602	38.7	39.6	3.02	5.25	2	C	O
44684			.482	.643	.595	39.0	40.0	5.20	9.04	3	C	O
44686			.485	.665	.568	40.5	41.7	4.00	6.95	3	C	O
44690			.491	.605	.627	38.1	37.2	2.60	4.52	2	C	O
44691			.490	.612	.621	38.3	37.7	4.55	7.91	2	C	O
44691A			.499	.610	.616	39.0	37.6	5.95	10.34	2	C	O
44692			.497	.629	.598	39.7	39.0	3.95	6.87	4	C	O
44694	4462	Brenner A	.490	.648	.583	40.0	40.4	18.11	31.48	2	C	p
44695			.495	.652	.574	40.8	40.7	5.25	9.13	2	C	O
44695A			.496	.656	.569	41.1	41.0	7.00	12.17	3	C	O
44697	4469	Fabricius	.490	.680	.545	41.9	42.8	44.92	78.08	2	C	P
44700			.402	.700	.590	34.3	44.4	6.02	10.46	3	C	O
44700A			.409	.708	.576	35.4	45.1	3.25	5.65	2	C	O
44701			.404	.710	.577	35.0	45.2	2.98	5.18	2	C	O
44701A			.405	.711	.575	35.2	45.3	2.29	3.98	2	C	O
44701B			.409	.713	.570	35.7	45.5	8.05	13.99	5	C	O
44701C			.406	.718	.565	35.7	45.9	2.08	3.62	2	C	O
44702			.400	.722	.565	35.3	46.2	2.78	4.83	2	C	O
44703	4481 3974	Lockyer F	.402	.737	.543	36.5	47.5	11.37	19.76	2	C	p
44703A			.407	.739	.537	37.2	47.6	8.76	15.23	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44704			+.401	-.749	+.527	+37.2	-48.5	5.98	10.39	4	C	O
44705			.401	.751	.525	37.4	48.7	22.14	38.48	4	C	?
44705A			.404	.759	.511	38.4	49.4	4.55	7.91	3	C	O
44706	3970	Vlacq C	.406	.769	.494	39.4	50.3	11.07	19.24	3	C	O
44706A			.405	.765	.501	39.0	49.9	6.93	12.05	4	C	O
44707	3969	Vlacq B	.402	.777	.484	39.7	51.0	8.79	15.28	3	C	O
44709			.400	.797	.453	41.5	52.8	4.44	7.72	2	C	O
44710			.410	.706	.577	35.4	44.9	11.75	20.42	4	C	O
44712	4479	Lockyer	.413	.722	.555	36.6	46.2	19.76	34.35	2	C	p
44712A			.411	.724	.554	36.6	46.4	3.15	5.48	2	C	O
44713			.416	.733	.538	37.7	47.1	6.21	10.79	3	C	O
44713A			.417	.737	.532	38.1	47.5	11.08	19.26	4	C	O
44714		Janssen R	.417	.745	.521	38.7	48.2	12.74	22.14	2	C	O
44715			.410	.757	.509	38.9	49.2	12.21	21.22	4	C	O
44715A			.412	.752	.515	38.7	48.8	7.83	13.61	4	C	O
44716			.412	.761	.501	39.4	49.6	5.04	8.76	2	C	O
44718	3960	Rosenberger C	.412	.789	.456	42.1	52.1	27.03	46.98	2	C	P
44719		Rosenberger J	.413	.798	.439	43.3	52.9	12.91	22.44	3	C	O
44723			.421	.732	.536	38.2	47.1	4.28	7.44	3	C	O
44725	4485	Janssen E	.423	.752	.506	39.9	48.8	14.40	25.03	1	C	p?
44726			.425	.760	.492	40.8	49.5	5.99	10.41	3	C	O
44726A			.425	.767	.481	41.5	50.1	5.98	10.39	3	C	O
44727		Janssen S	.426	.770	.475	41.9	50.4	4.62	8.03	2	C	O
44728			.426	.782	.455	43.1	51.4	2.72	4.73	4	C	O
44728A			.428	.783	.451	43.5	51.5	2.48	4.31	4	C	O
44729		Rosenberger L	.427	.794	.433	44.6	52.6	4.94	8.59	2	C	O
44729A			.421	.793	.440	43.7	52.5	3.83	6.66	4	C	O
44730			.439	.705	.557	38.2	44.8	6.30	10.95	3	C	O
44732			.432	.728	.532	39.1	46.7	2.63	4.57	3	C	O
44732A		Janssen Q	.439	.722	.535	39.4	46.2	2.97	5.16	2	C	O
44734	4484	Janssen D	.436	.749	.499	41.2	48.5	16.66	28.96	3	C	O
44734A			.436	.740	.512	40.4	47.7	2.99	5.20	2	C	O
44735			.430	.759	.489	41.3	49.4	4.81	8.36	3	C	O
44736	4486	Janssen F	.432	.762	.482	41.8	49.6	20.47	35.58	3	C	O
44737			.435	.779	.452	43.9	51.2	4.15	7.21	4	C	O
44741			.443	.715	.541	39.3	45.6	3.67	6.38	3	C	O
44741A		Janssen P	.449	.711	.541	39.7	45.3	2.97	5.16	2	C	O
44741B			.446	.711	.544	39.4	45.3	15.15 21.00	26.33 36.50	4	C	O
44744			.445	.744	.498	41.8	48.1	3.01	5.23	2	C	O
44745		Janssen T	.443	.752	.488	42.2	48.8	17.89	31.10	3	C	O
44748	3959	Rosenberger B	.444	.787	.428	46.0	51.9	19.06	33.13	2	C	O
44748A			.444	.781	.439	45.3	51.4	3.98	6.92	3	C	O
44748B			.443	.783	.437	45.4	51.5	2.46	4.28	2	C	O
44749			.445	.798	.406	47.6	52.9	5.20	9.04	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44749A			+.448	-.792	+.415	+47.2	-52.4	2.63	4.57	3	C	O
44749B			.449	.798	.402	48.2	52.9	7.08	12.31	3	C	O
44750			.451	.703	.550	39.4	44.7	4.81	8.36	3	C	O
44752	4491	Janssen H	.459	.723	.516	41.6	46.3	6.54	11.37	2	C	O
44758			.456	.780	.429	46.8	51.3	3.18	5.53	3	C	O
44759		Watt S	.454	.790	.412	47.8	52.2	3.22	5.60	1	C	O
44759A			.458	.794	.400	48.9	52.6	5.99	10.41	4	C	O
44760	4483	Janssen	.469	.706	.531	41.5	44.9	109.01	189.48	3	C	P?
44761	4488	Janssen K	.466	.720	.514	42.2	46.1	8.97	15.59	1	C	O
44766	4499A	Watt A	.463	.769	.441	46.4	50.3	5.49	9.54	1	C	O
44767		Watt R	.464	.777	.425	47.5	51.0	6.91	12.01	1	C	O
44767A			.468	.774	.426	47.7	50.7	2.01	3.49	3	C	O
44768			.461	.786	.412	48.2	51.8	2.22	3.86	3	C	O
44768A			.461	.788	.408	48.5	52.0	2.02	3.51	3	C	O
44768B			.465	.783	.413	48.4	51.5	2.27	3.95	3	C	O
44769			.463	.792	.398	49.3	52.4	3.51	6.10	4	C	O
44769A			.468	.799	.378	51.1	53.0	5.55	9.65	4	C	O
44771		Janssen L	.478	.718	.506	43.4	45.9	6.86	11.92	1	C	O
44772			.474	.722	.504	43.2	46.2	4.98	8.66	4	C	O
44773			.473	.738	.481	44.5	47.6	6.30	10.95	4	C	O
44776	4499B	Watt B	.477	.767	.429	48.0	50.1	3.35	5.82	1	C	O
44778			.470	.780	.413	48.7	51.3	3.16	5.49	3	C	O
44778A			.471	.786	.400	49.6	51.8	4.21	7.32	3	C	O
44778B			.472	.780	.411	49.0	51.3	2.37	4.12	3	C	O
44779			.471	.796	.380	51.1	52.7	3.06	5.32	2	C	O
44779A			.478	.791	.382	51.4	52.3	3.20	5.56	3	C	O
44783		Steinheil Y	.480	.735	.479	45.1	47.3	9.29	16.15	3	C	O
44783A			.484	.730	.483	45.1	46.9	2.75	4.78	2	C	O
44783B		Steinheil X	.484	.738	.470	45.8	47.6	9.83	17.09	3	C	?
44785	4500	Steinheil	.480	.750	.455	46.5	48.6	38.33	66.62	2f	C	O
44786	4499	Watt	.487	.761	.429	48.6	49.6	38.15	66.31	3	C	pp
44788		Watt T	.482	.784	.391	50.9	51.6	2.43	4.22	2	C	O
44788A		Watt U	.483	.788	.382	51.7	52.0	2.77	4.81	2	C	O
44788B			.489	.781	.388	51.5	51.4	2.87	4.99	2	C	O
44789	4512	Biela A	.484	.797	.361	53.3	52.8	14.92	25.93	2	C	p
44790	4470	Fabricius A	.495	.702	.512	44.0	44.6	26.06	45.30	4	C	p?
44791	4471A	Fabricius J	.494	.717	.492	45.1	45.8	9.33	16.22	1	C	O
44792		Steinheil Z	.491	.724	.485	45.4	46.4	13.38	23.26	3	C	O
44797		Watt W	.494	.778	.388	51.8	51.1	4.18	7.27	2	C	O
44798			.494	.789	.365	53.5	52.1	11.69	20.32	4	C	O
44798A			.498	.784	.371	53.3	51.6	3.85	6.69	2	C	O
44798B			.493	.785	.375	52.7	51.7	3.47	6.03	3	C	O
44800			.404	.805	.434	42.9	53.6	4.28	7.44	4	C	O
44801	3964	Rosenberger N	.406	.812	.419	44.1	54.3	4.73	8.22	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44801A			+.406	-.810	+.423	+43.8	-54.1	4.66	8.10	2	C	O
44803			.409	.839	.359	48.7	57.0	3.16	5.49	3	C	O
44805		Hagecius Q	.409	.859	.308	53.0	59.2	11.25	19.55	3	C	O
44806		Hagecius P	.403	.864	.302	53.2	59.8	4.24	7.37	2	C	O
44806A			.407	.868	.284	55.0	60.2	4.34	7.54	2	C	O
44806B			.405	.869	.284	54.9	60.3	4.93	8.57	3	C	O
44807			.407	.878	.252	58.2	61.4	5.40	9.39	3	C	O
44808		Hagecius V	.401	.882	.248	58.3	61.9	7.90	13.73	3	C	O
44808A			.405	.880	.248	58.5	61.6	3.05	5.30	3	C	O
44809		Gill F	.401	.897	.186	65.1	63.8	12.97	22.54	2	C	O
44809A			.400	.890	.219	61.3	62.9	5.95	10.34	3	C	O
44811	3965B	Rosenberger H	.417	.818	.396	46.5	54.9	6.97	12.11	1	C	O
44812		Rosenberger HA	.419	.820	.390	47.1	55.1	4.76	8.27	1	C	O
44813			.413	.833	.368	48.3	56.4	3.29	5.72	3	C	O
44814		Biela BA	.411	.843	.347	49.8	57.5	4.44	7.72	1	C	O
44815		Hagecius R	.414	.854	.315	52.7	58.6	8.39	14.58	3	C	O
44815A			.416	.851	.321	52.4	58.3	2.71	4.71	2	C	O
44817			.411	.874	.259	57.8	60.9	5.68	9.87	3	C	O
44817A		Hagecius T	.414	.871	.265	57.4	60.6	7.90	13.73	3	C	O
44817B		Pontecoulant K	.417	.879	.231	61.0	61.5	7.60	13.21	3	C	O
44817C			.417	.875	.246	59.5	61.0	3.05	5.30	3	C	O
44819		Gill G	.414	.895	.166	68.1	63.5	18.47	32.10	3	C	O
44819A			.412	.894	.176	66.9	63.4	8.15	14.17	3	C	O
44819B		Gill H	.414	.898	.149	70.2	63.9	4.74	8.24	2	C	O
44821	3965C	Rosenberger K	.430	.814	.391	47.8	54.5	10.48	18.22	2	C	O
44821A			.423	.818	.390	47.3	54.9	2.87	4.99	2	C	O
44822			.425	.827	.368	49.1	55.8	3.01	5.23	2	C	O
44823	4513	Biela B	.420	.834	.358	49.6	56.5	24.84	43.18	3	C	p
44823A			.424	.831	.360	49.7	56.2	2.86	4.97	2	C	O
44825		Hagecius S	.420	.857	.299	54.6	59.0	5.92	10.29	1	C	O
44825A			.425	.859	.285	56.1	59.2	5.92	10.29	4	C	O
44826			.420	.867	.268	57.4	60.1	6.42	11.16	3	C	O
44827			.423	.877	.228	61.7	61.3	11.85	20.60	4	C	O
44828	3929	Pontécoulant J	.428	.880	.206	64.3	61.6	22.42	38.97	2	C	pp
44828A			.429	.886	.176	67.7	62.4	4.19	7.28	2	C	O
44829		Gill E	.424	.893	.151	70.4	63.3	7.21	12.53	1	C	O
44829A		Gill A	.429	.893	.136	72.4	63.3	6.91	12.01	2	C	O
44830	3958	Rosenberger A	.435	.804	.405	47.0	53.5	28.15	48.93	3	C	O
44831			.439	.810	.389	48.5	54.1	4.39	7.63	3	C	O
44832		Biela W	.436	.820	.371	49.6	55.1	9.32	16.20	2	C	?
44833		Biela J	.434	.839	.328	52.9	57.0	7.90	13.73	2	C	O
44834		Biela H	.431	.847	.311	54.2	57.9	4.49	7.80	2	C	O
44834A			.438	.847	.301	55.5	57.9	8.05	13.99	3	C	O
44835			.436	.850	.296	55.9	58.2	7.90	13.73	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44835A			+.437	-.851	+.291	+56.3	-58.3	3.20	5.56	3	C	O
44835B			.434	.853	.290	56.3	58.5	3.40	5.91	2	C	O
44835C			.438	.854	.281	57.3	58.6	2.81	4.88	2	C	O
44835D			.433	.858	.276	57.5	59.1	3.55	6.17	3	C	O
44835E			.436	.857	.275	57.8	59.0	3.15	5.48	4	C	O
44838		Gill C	.430	.885	.179	67.5	62.3	17.42	30.28	3	C	O
44839		Gill	.432	.894	.119	74.6	63.4	36.99	64.29	2	C	O
44839A			.434	.898	.072	80.5	63.9	8.90	15.47	3	C	?
44839B			.438	.898	.042	84.5	63.9	63.56	110.48	4	C	O?
44840			.447	.808	.384	49.3	53.9	2.97	5.16	2	C	O
44840A		Biela V	.444	.805	.393	48.5	53.6	3.45	6.00	2	C	O
44841	4511	Biela	.449	.818	.360	51.3	54.9	43.85	76.22	2	C	PP
44843			.440	.835	.330	53.1	56.6	10.27	17.85	3	C	O
44843A		Biela G	.449	.831	.328	53.8	56.2	5.46	9.49	1	C	O
44845		Pontécoulant L	.445	.857	.260	59.7	59.0	9.60	16.69	3	C	O
44845A			.440	.853	.281	57.5	58.5	2.57	4.47	3	C	O
44847	4522	Pontécoulant E	.445	.870	.212	64.5	60.5	25.49	44.31	4	C	p?
44847A			.446	.876	.184	67.6	61.2	3.48	6.05	3	C	O
44848		Gill B	.446	.880	.163	69.9	61.6	17.73	30.82	2	C	O
44848A			.440	.886	.146	71.6	62.4	6.13	10.65	1	C	O
44849		Gill D	.441	.894	.079	79.8	63.4	8.80	15.30	2	C	O
44850		Biela U	.450	.803	.391	49.0	53.4	9.37	16.29	3	C	O
44850A		Biela T	.452	.807	.380	49.9	53.8	3.94	6.85	1	C	O
44850B			.454	.807	.378	50.2	53.8	2.76	4.80	3	C	O
44850C			.452	.809	.376	50.3	54.0	3.55	6.17	3	C	O
44850D			.454	.804	.384	49.8	53.5	3.25	5.65	3	C	O
44853		Biela F	.452	.832	.322	54.6	56.3	5.13	8.92	1	C	O
44854	4519	Pontécoulant B	.453	.847	.278	58.4	57.9	22.25	38.67	3	C	O
44854A			.455	.842	.290	57.5	57.4	3.46	6.01	2	C	O
44855			.456	.855	.247	61.6	58.8	2.57	4.47	3	C	O
44856			.454	.861	.229	63.2	59.4	18.18	31.60	5	C	?
44856A			.456	.869	.192	67.2	60.3	2.97	5.16	3	C	O
44860			.461	.802	.380	50.5	53.3	2.54	4.41	3	C	O
44860A			.467	.806	.364	52.1	53.7	4.71	8.19	2	C	O
44861	4514	Biela C	.470	.811	.348	53.5	54.2	14.76	25.66	2	C	pp
44862	4515	Biela D	.468	.827	.312	56.4	55.8	7.89	13.71	2	C	O
44863			.465	.831	.305	56.7	56.2	10.85	18.86	3	C	O
44863A		Biela E	.460	.833	.307	56.2	56.4	4.44	7.72	2	C	O
44866			.468	.860	.203	66.5	59.3	4.66	8.10	3	C	O
44866A			.468	.867	.171	69.9	60.1	19.71	34.26	3	C	O
44867			.464	.871	.161	70.8	60.6	15.49	26.92	3	C	O
44867A			.463	.874	.147	72.3	60.9	12.26 18.05	21.31 31.37	3	C	O
44867B		Pontécoulant M	.469	.873	.134	74.1	60.8	5.53	9.61	2	C	O
44873			.474	.831	.291	58.4	56.2	7.95	13.82	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
44873A			+.471	-.834	+.287	+58.6	-56.5	4.39	7.63	2	C	O
44874	4518	Pontécoulant A	.476	.845	.244	62.9	57.7	10.67	18.55	1	C	O
44874A	4524	Pontécoulant G	.470	.840	.271	60.0	57.1	30.61 18.01	53.20 31.30	3	C	O
44875	4517	Pontécoulant	.475	.854	.212	65.9	58.6	52.36	91.01	3	C	pp
44875A		Pontécoulant H	.475	.852	.220	65.1	58.4	5.03	8.74	2	C	O
44875B			.477	.856	.199	67.3	58.9	5.33	9.26	3	C	O
44876	4521	Pontécoulant D	.472	.868	.154	71.9	60.2	5.93	10.31	1	C	O
44876A			.478	.868	.135	74.3	60.2	5.72	9.94	3	C	O
44876B			.477	.868	.138	73.9	60.2	25.12	43.66	3	C	O
44881		Biela Y	.488	.818	.305	58.0	54.9	8.45	14.69	3	C	O
44881A			.483	.819	.310	57.3	55.0	2.87	4.99	3	C	O
44882	4520	Pontécoulant C	.485	.825	.290	59.1	55.6	16.99	29.53	3	C	O
44882A			.483	.822	.302	58.0	55.3	4.16	7.23	3	C	O
44885			.480	.856	.192	68.2	58.9	4.83	8.40	3	C	O
44886	4530	Hanno E	.488	.860	.149	73.0	59.3	10.47	18.20	1	C	?
44886A			.483	.860	.165	71.2	59.3	3.95	6.87	3	C	O
44886B			.482	.868	.119	76.1	60.2	8.84	15.37	3	C	O
44886C			.488	.868	.092	79.3	60.2	3.95	6.87	3	C	O
44887			.483	.872	.080	80.6	60.7	24.13	41.94	3f	C	O
44890		Biela Z	.495	.807	.322	57.0	53.8	27.67	48.09	3	C	O
44890A			.490	.806	.332	55.9	53.7	5.83	10.13	3	C	O
44891			.499	.812	.303	58.8	54.3	2.97	5.16	3	C	O
44892			.492	.827	.272	61.1	55.8	5.78	10.05	3	C	O
44893			.497	.834	.240	64.3	56.5	11.57	20.11	2	C	O
44893A			.492	.830	.263	61.9	56.1	7.75	13.47	3	C	O
44894	4523	Pontécoulant F	.499	.842	.205	67.7	57.4	34.64	60.21	4	C	?
44894A			.499	.847	.183	69.8	57.9	4.75	8.26	3	C	O
44895			.497	.854	.154	72.8	58.6	5.92	10.29	3	C	O
44896			.494	.863	.106	77.9	59.7	12.68	22.04	3	C	O
44900			.402	.907	.125	72.7	65.1	4.94	8.59	3	C	O
44901			.403	.912	.076	79.3	65.8	17.17	29.84	3	C	O
44901A			.400	.913	.080	78.7	65.9	7.12	12.38	2	C	O
44910			.415	.904	.103	76.1	64.7	5.09	8.85	2	C	O
45004			.504	.049	.862	30.3	2.8	2.20	3.82	2	C	O
45007			.501	.076	.862	30.2	4.4	4.24	7.37	4	aMC	O
45011			.515	.018	.857	31.0	1.0	5.14	8.93	4f	aMC	O
45012			.517	.022	.856	31.1	1.3	5.80	10.08	4f	aMC	O
45012A			.511	.029	.859	30.7	1.7	3.07	5.34	3	C	O
45012B			.510	.023	.860	30.7	1.3	2.30	4.00	3	pM	O
45014		Censorinus L	.518	.044	.854	31.2	2.5	2.48	4.31	1	C	O
45014A			.517	.048	.855	31.2	2.8	2.49	4.33	3	C	O
45014B			.516	.045	.855	31.1	2.6	2.40	4.17	2	C	O
45014C			.516	.047	.855	31.1	2.7	2.50	4.35	2	C	O
45015		Censorinus T	.516	.056	.855	31.1	3.2	2.82	4.90	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45016		Torricelli M	+.517	-.064	+.854	+31.2	-3.7	8.30	14.43	2	C	p
45016A			.515	.068	.854	31.1	3.9	6.01	10.45	3	C	o
45017			.515	.073	.854	31.1	4.2	3.58	6.22	4	C	o
45019			.513	.099	.853	31.0	5.7	3.87	6.73	3	C	o
45019A			.512	.090	.854	30.9	5.2	2.36	4.10	3	mC	o
45021		Censorinus J	.520	.018	.854	31.3	1.0	3.07	5.34	1	pMC	o
45021A			.528	.016	.849	31.9	0.9	3.25	5.65	2	pMC	o
45022			.520	.028	.854	31.3	1.6	14.56	25.31	5	C	o
45022A			.527	.024	.850	31.8	1.4	10.92	18.98	4	C	o
45023	4237	Censorinus B	.521	.035	.853	31.4	2.0	4.46	7.75	1	C	o
45023A			.524	.032	.851	31.6	1.8	29.70	51.62	5	aMC	o
45023B			.528	.034	.849	31.9	1.9	2.90	5.04	3	C	o
45024			.525	.043	.850	31.7	2.5	3.28	5.70	2	C	o
45024A			.529	.045	.847	32.0	2.6	5.00	8.69	2	C	o
45027			.524	.070	.849	31.7	4.0	3.31	5.75	3	C	o
45028	4294	Isidorus C	.523	.084	.848	31.7	4.8	5.24	9.11	2	C	o
45029			.528	.092	.844	32.0	5.3	3.88	6.74	3	C	o
45030	4235	Censorinus	.540	.007	.842	32.7	0.4	2.20	3.82	1	C	o
45031			.532	.014	.847	32.1	0.8	2.06	3.58	1	pM	o
45031A			.532	.016	.847	32.1	0.9	2.84	4.94	2	C	o
45031B			.533	.018	.846	32.2	1.0	7.99 7.11	13.89 12.36	3	C	o
45033			.432	.039	.846	32.2	2.2	3.09	5.37	3	C	o
45033A			.535	.036	.844	32.4	2.1	2.10	3.65	2	C	o
45034			.534	.045	.844	32.3	2.6	2.80	4.87	3	C	o
45034A			.535	.043	.844	32.4	2.5	9.65	16.77	5	C	o
45035			.533	.059	.844	32.3	3.4	2.10	3.65	2	C	o
45036	4294B	Isidorus H	.538	.068	.840	32.6	3.9	4.05	7.04	1	C	o
45036A			.533	.066	.844	32.3	3.8	2.10	3.65	2	C	o
45037			.534	.074	.842	32.4	4.2	3.24	5.63	2	C	o
45037A			.538	.074	.840	32.6	4.2	2.80	4.87	3	C	o
45039	4295	Isidorus E	.537	.094	.838	32.6	5.4	8.69	15.10	1	C	o
45039A			.531	.093	.842	32.2	5.3	2.55	4.43	2	C	o
45040	4236	Censorinus A	.544	.007	.839	33.0	0.4	3.75	6.52	1	C	o
45041			.549	.010	.836	33.3	0.6	6.85	11.91	2	C	o
45041A			.546	.014	.838	33.1	0.8	2.80	4.87	2	C	o
45042			.542	.029	.840	32.8	1.7	2.10	3.65	2	C	o
45042A			.546	.023	.837	33.1	1.3	2.50	4.35	2	C	o
45043			.545	.034	.838	33.0	1.9	4.26	7.40	3	C	o
45044			.548	.047	.835	33.3	2.7	26.12 23.89	45.40 41.52	4	C	o
45046			.540	.062	.839	32.8	3.6	3.43	5.96	2	C	o
45047	4293	Isidorus B	.543	.078	.836	33.0	4.5	17.50	30.42	3	C	pp
45049			.549	.097	.830	33.5	5.6	4.17	7.25	3	C	o
45051			.552	.015	.834	33.5	0.9	2.30	4.00	1	C	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45051A			+.550	-.017	+.835	+33.4	-1.0	2.30	4.00	2	C	O
45053	4243A	Censorinus H	.555	.032	.831	33.7	1.8	5.02	8.73	3	C	O
45053A			.559	.037	.828	34.0	2.1	2.57	4.47	1	C	O
45053B			.554	.038	.832	33.7	2.2	2.10	3.65	2	C	O
45054			.559	.042	.828	34.0	2.4	2.19	3.81	1	C	O
45054A			.557	.043	.829	33.9	2.5	2.00	3.48	2	C	O
45057	4286	Isidorus D	.559	.074	.826	34.1	4.2	8.82	15.33	1	C	O
45058			.559	.088	.824	34.1	5.0	8.94	15.54	4	C	O
45058A			.556	.080	.827	33.9	4.6	2.10	3.65	3	C	O
45059			.557	.096	.825	34.0	5.5	4.17	7.25	1	C	O
45059A			.552	.096	.828	33.7	5.5	3.58	6.22	3	C	O
45060			.566	.009	.824	34.5	0.5	5.70	9.91	3	C	O
45062			.565	.022	.825	34.4	1.3	25.42	44.18	5	C	O
45062A		Censorinus U	.565	.026	.825	34.4	1.5	1.98	3.44	2	C	O
45064			.561	.043	.827	34.2	2.5	10.01	17.40	5	C	O
45065	4238	Censorinus C	.561	.053	.826	34.2	3.0	17.07	29.67	2	C	P
45065A			.560	.052	.827	34.1	3.0	2.10	3.65	3	C	O
45069			.560	.093	.823	34.2	5.3	3.33	5.79	3	C	O
45076	4240	Censorinus E	.570	.062	.819	34.8	3.6	6.95	12.08	2	C	O
45078			.574	.089	.814	35.2	5.1	7.30	12.69	3	C	O
45078A			.572	.085	.816	35.0	4.9	6.37	11.07	3	C	p?
45079			.573	.093	.814	35.1	5.3	4.80	8.34	3	C	O
45081		Censorinus V	.580	.011	.815	35.5	0.6	2.30	4.00	1	C	O
45082			.583	.028	.812	35.7	1.6	14.02	24.37	4	C	O
45083	4239	Censorinus D	.586	.033	.810	35.9	1.9	5.87	10.20	1	C	O
45084			.583	.045	.811	35.7	2.6	5.63	9.79	4	C	O
45084A			.588	.041	.808	36.1	2.3	10.29	17.89	5f	C	O
45085			.586	.059	.808	35.9	3.4	7.33	12.74	4	C	O
45086	4245	Censorinus S	.589	.067	.805	36.2	3.8	7.16	12.45	3	C	pp
45088			.587	.080	.806	36.1	4.6	2.11	3.67	2	C	O
45089			.580	.099	.809	35.7	5.7	4.90	8.52	3	C	O
45089A			.582	.096	.808	35.8	5.5	2.80	4.87	3	C	O
45090		Maskelyne T	.596	.001	.803	36.6	0.1	3.43	5.96	1	C	O
45091			.591	.018	.806	36.2	1.0	11.81	20.53	5f	C	O
45091A			.598	.018	.801	36.7	1.0	9.61	16.70	5f	C	O
45093	4244	Censorinus N	.596	.034	.802	36.6	1.9	21.57	37.49	4	C	P
45094			.596	.045	.802	36.6	2.6	5.78	10.05	3f	C	O
45095			.592	.050	.804	36.4	2.9	8.74	15.19	4	C	O
45095A			.595	.054	.802	36.6	3.1	5.14 4.17	8.93 7.25	3	C	O
45096		Censorinus Z	.598	.063	.799	36.8	3.6	6.71	11.66	2f	C	O
45096A			.590	.060	.805	36.2	3.4	2.16	3.75	3	C	O
45097	4289	Capella M	.600	.077	.796	37.0	4.4	6.68	11.61	2	C	O
45097A		Capella MA	.591	.075	.803	36.3	4.3	2.10	3.65	2	C	O
45099	4285	Capella C	.591	.100	.800	36.4	5.7	4.90	8.52	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45103			+.500	-.135	+.855	+30.3	-7.8	16.76	29.13	5	aMC	0
45105		Isidorus V	.506	.154	.849	30.8	8.9	2.16	3.75	2	pM	0
45108			.504	.181	.845	30.8	10.4	2.30	4.00	3	pM	0
45110			.513	.101	.852	31.0	5.8	3.73	6.48	3	C	0
45112			.514	.121	.849	31.2	6.9	5.88	10.22	3	C	0
45112A			.518	.126	.846	31.5	7.2	11.03	19.17	4f	C	0
45113		Isidorus U	.518	.138	.844	31.5	7.9	3.16	5.49	1	pMC	0
45114			.519	.148	.842	31.7	8.5	2.20	3.82	2	C	0
45115			.515	.156	.843	31.4	9.0	15.51	26.96	5f	aMC	0
45121	4294A	Isidorus G	.521	.111	.846	31.6	6.4	4.54	7.89	2	C	0
45121A			.525	.116	.843	31.9	6.7	13.23	23.00	5	C	0
45121B			.525	.111	.844	31.9	6.4	2.78	4.83	2	C	0
45122			.527	.127	.840	32.1	7.3	10.55	18.34	5f	C	0
45124			.522	.148	.840	31.9	8.5	2.11	3.67	2	C	0
45125			.526	.150	.837	32.1	8.6	2.01	3.49	2	C	0
45125A			.527	.154	.836	32.2	8.9	4.16	7.23	3	C	0
45126		Isidorus W	.528	.164	.833	32.4	9.4	2.01	3.49	1	C	0
45126A			.528	.169	.832	32.4	9.7	6.96	12.10	5	C	0
45128			.522	.188	.832	32.1	10.8	28.98	50.37	5	aM	0
45131			.535	.116	.837	32.6	6.7	11.72	20.37	4	C	0
45131A			.536	.112	.837	32.6	6.4	2.06	3.58	2	C	0
45132			.531	.123	.838	32.3	7.1	9.06	15.75	5	C	0
45132A			.536	.120	.836	32.7	6.9	2.08	3.62	1	C	0
45134			.533	.147	.833	32.6	8.5	2.10	3.65	1	C	0
45134A			.534	.143	.833	32.7	8.2	6.96	12.10	5	C	0
45135			.531	.150	.834	32.5	8.6	9.17	15.94	4	C	0
45136			.534	.163	.830	32.8	9.4	11.91	20.70	5	C	0
45141			.542	.114	.833	33.1	6.5	5.61	9.75	3	C	0
45141A			.547	.112	.830	33.4	6.4	2.20	3.82	3	C	0
45141B			.547	.114	.829	33.4	6.5	3.51	6.10	3	C	0
45142			.543	.127	.830	33.2	7.3	2.40	4.17	1	C	0
45143	4292	Isidorus A	.542	.139	.829	33.2	8.0	6.75	11.73	1	C	0
45143A			.542	.136	.829	33.2	7.8	2.70	4.69	2	C	0
45143B	4291	Isidorus	.547	.139	.826	33.5	8.0	22.51	39.13	2	C	0
45145	4294C	Isidorus K	.543	.155	.825	33.3	8.9	4.11	7.14	1	C	0
45145A			.545	.158	.823	33.5	9.1	5.59	9.72	3	C	0
45152		Capella T	.558	.120	.821	34.2	6.9	3.28	5.70	1	C	0
45155	4295A	Isidorus F	.556	.152	.817	34.2	8.7	11.77	20.46	3	C	0
45155A			.550	.159	.820	33.9	9.1	2.01	3.49	2	C	0
45156			.556	.168	.814	34.3	9.7	6.18	10.74	5	C	0
45156A			.557	.163	.814	34.4	9.4	7.30	12.69	4	C	0
45157			.557	.172	.813	34.4	9.9	9.65	16.77	4	C	0
45157A			.558	.178	.811	34.5	10.3	7.95	13.82	5	aMC	0
45161			.561	.116	.820	34.4	6.7	8.09	14.06	3	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45163A	4275	Capella	+.567	-.133	+.813	+34.9	-7.6	25.73	44.72	3	C	P
45164			.566	.149	.811	34.9	8.6	7.40	12.86	3	C	O
45166			.562	.166	.810	34.7	9.6	6.86	11.92	3	C	O
45166A			.567	.168	.806	35.1	9.7	2.84	4.94	2	C	O
45167			.569	.171	.804	35.3	9.8	2.11	3.67	1	C	O
45168			.566	.181	.804	35.1	10.4	13.33	23.17	5f	aM	O
45170		Capella R	.574	.104	.812	35.2	6.0	4.17	7.25	2	C	O
45170A			.572	.108	.813	35.1	6.2	2.99 2.51	5.20 4.36	3	C	O
45175	4285A	Capella F	.572	.160	.804	35.4	9.2	7.75	13.47	2	C	O
45175A			.576	.152	.803	35.6	8.7	2.80	4.87	2	C	O
45176			.575	.168	.801	35.7	9.7	8.81	15.31	3	MC	p?
45180			.587	.106	.803	36.2	6.1	3.91	6.80	3	C	O
45181		Capella CA	.590	.110	.800	36.4	6.3	5.07	8.81	2	C	O
45182			.585	.125	.801	36.1	7.2	6.92	12.03	2	C	O
45183			.585	.130	.801	36.2	7.5	6.17	10.72	3	C	O
45186	4284A	Capella J	.580	.164	.798	36.0	9.4	5.76	10.01	1	C	O
45186A			.588	.167	.791	36.6	9.6	14.17	24.63	4f	aMC	O
45187			.580	.171	.796	36.1	9.8	3.00	5.21	1	C	O
45188		Gaudibert D	.582	.184	.792	36.3	10.6	2.65	4.61	1	pM	O
45189		Gaudibert DA	.581	.190	.791	36.3	11.0	1.81	3.15	2	pM	O
45190			.590	.108	.800	36.4	6.2	3.81	6.62	3	C	O
45190A			.592	.108	.799	36.5	6.2	3.31	5.75	3	C	O
45191	4285B	Capella G	.596	.119	.794	36.9	6.8	7.12	12.38	1	C	O
45191A			.592	.116	.798	36.6	6.7	3.24	5.63	2	C	O
45192			.591	.128	.796	36.6	7.4	4.07	7.07	2	C	O
45192A			.595	.128	.793	36.9	7.4	3.92	6.81	3	C	O
45193	4283	Capella A	.599	.133	.790	37.2	7.6	7.68	13.35	1	C	O
45193A			.591	.132	.796	36.6	7.6	6.61	11.49	3	C	O
45194			.594	.143	.792	36.9	8.2	20.09	34.92	5	C	O
45195			.590	.151	.793	36.6	8.7	6.86	11.92	2	C	O
45195A			.591	.155	.792	36.7	8.9	5.00	8.69	2	C	O
45195B			.595	.152	.789	37.0	8.7	5.10	8.86	3	C	O
45196	4284	Capella B	.591	.164	.790	36.8	9.4	4.65	8.08	1	C	O
45198			.599	.180	.780	37.5	10.4	2.89	5.02	1	C	O
45199			.592	.196	.782	37.1	11.3	5.88	10.22	5f	aMC	O
45199A			.596	.198	.778	37.4	11.4	5.35	9.30	5f	aMC	O
45201		Mädler D	.505	.219	.835	31.2	12.7	2.11	3.67	2	pM	O
45202A			.506	.222	.833	31.3	12.8	2.01	3.49	2	pM	O
45204			.503	.245	.829	31.3	14.2	2.01	3.49	2	pM	O
45208			.502	.284	.817	31.6	16.5	2.00	3.48	2	pM	O
45222			.522	.228	.822	32.4	13.2	2.01	3.49	2	pM	O
45240	4145	Daguerre	.541	.205	.816	33.6	11.8	26.09	45.35	5	aM	p?
45244		Daguerre X	.549	.242	.800	34.5	14.0	2.01	3.49	1	pM	O
45255		Daguerre Z	.550	.257	.795	34.7	14.9	2.01	3.49	1	pM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45264		Daguerre Y	+.562	-.240	+.792	+35.4	-13.9	1.86	3.23	1	pM	O
45266		Daguerre U	.564	.260	.784	35.7	15.1	2.06	3.58	1	pM	O
45271		Daguerre K	.571	.211	.793	35.7	12.2	2.98	5.18	2	pM	O
45280			.585	.204	.785	36.7	11.8	12.02	20.89	4	aM	O
45281			.588	.218	.779	37.0	12.6	2.01	3.49	2	pM	O
45281A			.586	.213	.782	36.9	12.3	5.81	10.10	4	aM	O
45283		Gaudibert H	.581	.238	.778	36.7	13.8	6.18	10.74	3	aM	P
45290			.599	.204	.774	37.7	11.8	5.22	9.07	4	C	O
45297			.598	.271	.754	38.4	15.7	2.00	3.48	2	pM	O
45301			.506	.316	.803	32.2	18.4	2.06	3.58	1	pM	O
45302		Fracastorius S	.500	.325	.803	31.9	19.0	2.61	4.54	1	pM	O
45302A			.505	.329	.798	32.3	19.2	6.67	11.59	5	aMC	?
45306	4117	Fracastorius	.509	.363	.780	33.1	21.3	71.11	123.60	4f	aMC	pp?
45307	4127A	Fracastorius M	.505	.370	.780	32.9	21.7	2.56	4.45	1	pM	O
45308			.502	.387	.773	33.0	22.8	2.71	4.71	2	C	O
45309			.506	.391	.769	33.4	23.0	5.04	8.76	3	C	O
45309A			.506	.393	.768	33.4	23.1	3.39	5.89	3	C	O
45315	4127	Fracastorius L	.512	.352	.784	33.2	20.6	2.71	4.71	1	pM	O
45319	4127C	Fracastorius N	.514	.394	.762	34.0	23.2	6.17	10.72	2	C	O
45328			.527	.387	.757	34.9	22.8	3.51	6.10	3	C	O
45329			.523	.390	.758	34.6	23.0	2.40	4.17	3	C	O
45329A			.527	.398	.751	35.1	23.5	2.34	4.07	3	C	O
45331	4148	Rosse C	.536	.317	.782	34.4	18.5	2.76	4.80	1	pM	O
45333			.537	.333	.775	34.7	19.5	2.37	4.12	2	pM	O
45334			.536	.344	.771	34.8	20.1	3.72	6.47	3	aMC	O
45334A			.539	.345	.768	35.0	20.2	4.26	7.40	3	aMC	O
45335			.537	.358	.764	35.1	21.0	2.00	3.48	1	C	O
45337			.532	.372	.761	35.0	21.8	2.26	3.93	2	C	O
45337A			.534	.370	.760	35.1	21.7	4.66	8.10	2	C	O
45338			.534	.384	.753	35.3	22.6	9.91	17.23	3	C	O
45338A		Fracastorius W	.539	.385	.749	35.7	22.6	3.89	6.76	2	C	O
45339			.535	.399	.745	35.7	23.5	9.57	16.63	5f	C	O
45339A			.537	.392	.747	35.7	23.1	11.89	20.67	5f	C	O
45340	4143	Rosse	.545	.307	.780	34.9	17.9	6.93	12.05	1	pM	O
45345			.543	.351	.763	35.4	20.5	3.07	5.34	2	pMC	O
45346			.540	.361	.760	35.4	21.2	4.13	7.18	4	C	O
45346A			.545	.361	.757	35.8	21.2	7.17	12.46	4	C	O
45346B			.546	.369	.752	36.0	21.7	7.18	12.48	5	C	O
45347			.540	.370	.756	35.5	21.7	2.16	3.75	2	C	O
45347A			.546	.373	.750	36.0	21.9	7.18	12.48	5	C	O
45347B			.545	.376	.749	36.0	22.1	4.32	7.51	4	C	O
45348			.546	.384	.745	36.3	22.6	4.56	7.93	4	C	O
45348A			.546	.387	.743	36.3	22.8	5.50	9.56	4	C	O
45356			.556	.360	.749	36.6	21.1	9.16	15.92	4f	aMC	O
45357			.558	.373	.741	37.0	21.9	20.81	36.17	4f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45365	4126B	Fracastorius J	.567	.355	.743	37.3	20.8	7.08	12.31	1	pMC	O
45365A			.560	.350	.751	36.7	20.5	3.32	5.77	4	aMC	O
45366			.564	.366	.740	37.3	21.5	3.20	5.56	3	C	O
45368	4119	Fracastorius B	.560	.384	.734	37.3	22.6	15.40	26.77	1	C	P
45368A			.567	.386	.728	37.9	22.7	5.95	10.34	3	C	O
45368B			.568	.389	.725	38.1	22.9	2.38	4.14	2	C	O
45369			.569	.398	.720	38.3	23.5	2.53	4.40	2	C	O
45373		Fracastorius T	.571	.338	.748	37.4	19.8	7.58	13.18	4f	aMC	O
45373A			.573	.335	.748	37.5	19.6	2.06	3.58	2	pMC	O
45374			.577	.349	.738	38.0	20.4	3.96	6.88	3	C	O
45375			.576	.358	.735	38.1	21.0	2.28	3.96	2	C	O
45376			.574	.361	.735	38.0	21.2	2.28	3.96	2	C	O
45376A			.574	.366	.733	38.1	21.5	6.38	11.09	4	C	O
45379			.571	.391	.722	38.3	23.0	2.03	3.53	2	C	O
45379A		Santbech R	.576	.396	.715	38.8	23.3	2.93	5.09	2	C	O
45379B		Santbech Q	.579	.394	.714	39.0	23.2	6.79	11.80	1	C	O
45379C		Santbech S	.578	.398	.712	39.1	23.5	5.30	9.21	1	C	O
45385			.586	.354	.729	38.8	20.7	4.19	7.28	2	pMC	O
45385A			.587	.359	.726	39.0	21.0	4.13	7.18	2	C	O
45386	4124	Fracastorius G	.580	.360	.731	38.4	21.1	9.80	17.03	2	C	O
45386A			.582	.362	.728	38.6	21.2	4.00	6.95	2	C	O
45386B			.587	.367	.722	39.1	21.5	2.16	3.75	2	C	O
45386C			.588	.369	.720	39.2	21.7	2.00	3.48	3	C	O
45394		Santbech M	.595	.348	.724	39.4	20.4	6.24	10.85	2	pMC	O
45395			.590	.354	.726	39.1	20.7	2.99	5.20	2	pMC	O
45395A		Santbech N	.598	.354	.719	39.7	20.7	5.93	10.31	1	pMC	O
45396		Santbech L	.593	.363	.719	39.5	21.3	4.24	7.37	2	C	O
45397	4386	Santbech C	.590	.378	.713	39.6	22.2	9.79	17.02	2	C	O
45397A			.594	.379	.710	39.9	22.3	3.59	6.24	1	C	O
45400		Fracastorius R	.508	.404	.761	33.7	23.8	3.02	5.25	1	C	O
45402			.500	.426	.754	33.5	25.2	2.46	4.28	2	C	O
45402A		Fracastorius Z	.502	.420	.756	33.6	24.8	4.91	8.53	2	C	O
45402B			.509	.424	.749	34.2	25.1	2.99	5.20	2	C	O
45403			.505	.439	.743	34.2	26.0	2.06	3.58	2	C	O
45403A			.508	.435	.743	34.3	25.8	5.65	9.82	3	C	O
45405	4081	Piccolomini G	.507	.457	.731	34.8	27.2	10.20	17.73	2	C	O
45407			.504	.478	.719	35.0	28.6	2.06	3.58	2	C	O
45407A			.509	.479	.715	35.4	28.6	2.98	5.18	2	C	O
45408			.502	.487	.715	35.1	29.1	2.45	4.26	2	C	O
45409		Piccolomini R	.505	.590	.711	35.4	29.3	8.92	15.50	3	C	O
45409A			.506	.496	.706	35.6	29.7	3.42	5.94	4	C	O
45410			.512	.407	.756	34.1	24.0	18.03 15.43	31.34 26.82	5	C	O
45411	4120	Fracastorius C	.516	.416	.749	34.6	24.6	9.97	17.33	1	C	O
45412	4127B	Fracastorius K	.515	.428	.743	34.7	25.3	9.63	16.74	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45413			+.515	-.432	+.740	+34.8	-25.6	6.04	10.50	2	C	O
45413A			.519	.437	.735	35.2	25.9	9.82	17.07	3	C	P
45415	4419A	Weinek A	.519	.453	.725	35.6	26.9	5.70	9.91	1	C	O
45415A			.515	.457	.725	35.4	27.2	6.94	12.06	3	C	O
45416			.510	.462	.726	35.1	27.5	6.94	12.06	2	C	O
45416A			.511	.465	.723	35.3	27.7	3.93	6.83	3	C	O
45416B			.517	.462	.721	35.7	27.5	6.94	12.06	3	C	O
45416C			.514	.469	.718	35.6	28.0	2.06	3.58	3	C	O
45417	4421	Neander C	.516	.479	.710	36.0	28.6	11.37	19.76	1	C	p?
45418			.510	.488	.708	35.8	29.2	4.06	7.06	4	C	O
45419			.510	.491	.706	35.8	29.4	3.93	6.83	4	C	O
45420			.521	.408	.750	34.8	24.1	4.71	8.19	3	C	O
45420A			.524	.401	.751	34.9	23.6	3.93	6.83	4	C	O
45420B			.526	.402	.749	35.1	23.7	2.26	3.93	3	C	O
45421			.529	.418	.739	35.6	24.7	4.06	7.06	3	C	O
45422			.527	.422	.738	35.5	25.0	5.95	10.34	4f	C	O
45423			.521	.436	.734	35.4	25.8	15.37	26.72	4	C	?
45425			.520	.458	.721	35.8	27.3	3.73	6.48	2	C	O
45425A			.522	.450	.725	35.8	26.7	6.47	11.25	2	C	O
45428			.520	.488	.701	36.6	29.2	6.00	10.43	4	C	O
45428A			.528	.489	.694	37.3	29.3	2.30	4.00	2	C	O
45429			.523	.493	.695	37.0	29.5	4.46	7.75	3	C	O
45430			.533	.407	.742	35.7	24.0	8.93	15.52	3	C	p
45431			.534	.414	.737	35.9	24.5	8.92 6.69	15.50 11.63	5	C	O
45432			.533	.420	.735	36.0	24.8	7.83	13.61	5f	C	O
45432A			.533	.425	.732	36.1	25.2	20.81 24.17	36.17 42.01	5f	C	O
45433		Weinek D	.537	.438	.721	36.7	26.0	5.05	8.78	1	C	O
45434			.530	.449	.719	36.4	26.7	4.69	8.15	3	C	O
45434A			.536	.443	.719	36.7	26.3	17.35	30.16	4	C	O
45435			.537	.454	.711	37.1	27.0	3.60	6.26	3	C	O
45435A			.533	.453	.715	36.7	26.9	3.57	6.21	3	C	O
45435B			.536	.455	.711	37.0	27.1	3.80	6.60	3	C	O
45435C			.536	.451	.714	36.9	26.8	3.76	6.54	3	C	O
45436	4419	Weinek	.535	.462	.707	37.1	27.5	18.62	32.36	2	C	O
45438			.533	.489	.690	37.7	29.3	2.26	3.93	3	C	O
45439			.539	.498	.679	38.4	29.9	6.89	11.98	2	C	O
45441	4118	Fracastorius A	.542	.413	.732	36.5	24.4	10.50	18.25	1	C	p
45442			.542	.428	.723	36.8	25.3	5.20	9.04	3	C	O
45445			.545	.451	.707	37.6	26.8	15.86	27.57	4	C	O
45447		Weinek H	.547	.479	.687	38.5	28.6	3.27	5.68	2	C	O
45448		Weinek K	.545	.484	.685	38.5	28.9	7.97	13.85	2	C	O
45449			.540	.495	.681	38.4	29.7	4.71	8.19	4	C	O
45449A		Neander T	.541	.499	.677	38.6	29.9	5.65	9.82	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45449B			+.549	-.493	+.675	+39.1	-29.5	3.81	6.62	3	C	O
45452		Weinek E	.552	.428	.716	37.6	25.3	4.91	8.53	1	C	O
45454			.551	.442	.708	37.9	26.2	4.81	8.36	3	C	O
45454A			.554	.444	.704	38.2	26.4	9.33	16.22	3	C	O
45455	4419B	Weinek B	.553	.452	.700	38.3	26.9	6.03	10.48	2	C	O
45455A			.555	.455	.696	38.6	27.1	3.73	6.48	3	C	O
45456			.559	.463	.688	39.1	27.6	2.45	4.26	2	C	O
45460			.560	.404	.723	37.7	23.8	8.57 12.09	14.90 21.01	4	C	O
45460A		Santbech T	.563	.408	.719	38.1	24.1	2.68	4.66	2	C	O
45462		Weinek F	.560	.424	.712	38.2	25.1	2.48	4.31	1	pMC	O
45464			.562	.440	.700	38.7	26.1	9.31	16.18	5	C	O
45465		Weinek G	.561	.452	.694	39.0	26.9	8.82	15.33	2	C	O
45465A			.566	.450	.691	39.3	26.7	12.89	22.40	3	C	O
45466			.567	.462	.682	39.7	27.5	7.88	13.70	3	C	O
45466A			.568	.469	.676	40.0	28.0	6.93	12.05	2	C	O
45467	4420	Neander B	.568	.472	.674	40.1	28.2	5.89	10.24	2	C	O
45467A			.567	.477	.672	40.2	28.5	3.93	6.83	4	C	O
45469	4423	Neander E	.566	.498	.657	40.7	29.9	15.21	26.44	2	C	O
45470		Santbech U	.574	.406	.711	38.9	24.0	4.94	8.59	1	C	O
45471		Santbech V	.577	.416	.703	39.4	24.6	3.84	6.67	2	C	O
45471A			.570	.414	.710	38.8	24.5	2.23	3.88	2	pMC	O
45471B			.572	.412	.709	38.9	24.3	3.76	6.54	2	C	O
45473		Weinek M	.579	.435	.690	40.0	25.8	3.30	5.74	1	pMC	O
45474			.571	.444	.691	39.6	26.4	3.76	6.54	2	C	O
45474A		Weinek L	.574	.441	.690	39.8	26.2	3.71	6.45	2	C	O
45477		Neander P	.578	.476	.663	41.1	28.4	3.31	5.75	1	C	O
45478			.571	.488	.660	40.9	29.2	3.54	6.15	4	C	O
45480			.583	.408	.703	39.7	24.1	5.20	9.04	2	C	O
45481			.581	.411	.703	39.6	24.3	2.80	4.87	3	C	O
45481A			.588	.415	.694	40.3	24.5	8.08	14.04	3	C	O
45481B			.589	.418	.692	40.4	24.7	5.00	8.69	3	C	O
45483			.587	.436	.682	40.7	25.8	16.21	28.18	5f	aMC	O
45484			.589	.449	.672	41.2	26.7	31.72	55.13	5f	C	O
45487			.580	.473	.663	41.2	28.2	2.88	5.01	2	C	O
45488		Reichenbach KB	.585	.488	.648	42.1	29.2	4.90	8.52	1	C	O
45488A		Neander Q	.580	.482	.657	41.5	28.8	3.22	5.60	2	C	O
45489			.581	.495	.646	42.0	29.7	3.27	5.68	2	C	O
45489A			.585	.498	.640	42.4	29.9	2.62	4.55	2	C	O
45490			.590	.407	.697	40.2	24.0	8.08	14.04	5	aMC	O
45491		Santbech W	.595	.412	.690	40.8	24.3	7.43	12.91	2	C	O
45497		Reichenbach KA	.595	.475	.648	42.5	28.4	5.06	8.80	1	C	O
45498	4417A	Reichenbach K	.592	.483	.645	42.5	28.9	6.37	11.07	1	C	O
45500	4083F	Piccolomini P	.506	.508	.697	36.0	30.5	6.03	10.48	1	C	O
45500A			.501	.506	.702	35.5	30.4	6.95	12.08	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45500B			+.502	-.502	+.704	+35.5	-30.1	4.89	8.50	4	C	O
45500C			.502	.509	.699	35.7	30.6	3.95	6.87	4	C	O
45502			.503	.528	.684	36.3	31.9	24.90 20.96	43.28 36.43	5	C	O
45504			.500	.549	.670	36.7	33.3	2.75	4.78	2	C	O
45504A			.503	.541	.674	36.7	32.8	9.50	16.51	4	C	O
45504B			.505	.546	.668	37.1	33.1	7.25	12.60	3	C	O
45505			.508	.556	.658	37.7	33.8	5.35	9.30	4	C	O
45505A			.509	.558	.655	37.8	33.9	2.20	3.82	1	C	O
45506			.506	.565	.652	37.8	34.4	2.55	4.43	3	C	O
45506A			.509	.562	.652	38.0	34.2	4.05	7.04	3	C	O
45506B			.509	.565	.649	38.1	34.4	3.55	6.17	3	C	O
45507	4427D	Neander M	.502	.571	.650	37.7	34.8	6.13	10.65	1	C	O
45507A			.506	.571	.646	38.1	34.8	2.45	4.26	3	C	O
45507B			.509	.571	.644	38.3	34.8	2.38	4.14	3	C	O
45508			.500	.585	.639	38.1	35.8	8.40	14.60	5	C	O
45509		Brenner D	.505	.591	.629	38.8	36.2	4.80	8.34	2	C	O
45511		Piccolomini Q	.510	.512	.691	36.4	30.8	7.96	13.84	2	C	O
45511A			.512	.510	.691	36.5	30.7	6.41	11.14	3	C	O
45512			.514	.529	.675	37.3	31.9	4.45	7.73	3	C	O
45513	4427B	Neander N	.512	.537	.670	37.4	32.5	9.08	15.78	2	C	O
45513A			.518	.539	.664	38.0	32.6	2.20	3.82	2	C	O
45514		Neander X	.514	.546	.662	37.8	33.1	6.89	11.98	1	C	O
45515			.511	.550	.661	37.7	33.4	4.85	8.43	3	C	O
45515A			.512	.556	.655	38.0	33.8	4.00	6.95	5	C	O
45516		Neander Y	.510	.568	.646	38.3	34.6	5.00	8.69	1	C	O
45516A			.514	.563	.647	38.5	34.4	3.50	6.08	5	C	O
45517			.516	.570	.639	38.9	34.8	3.80	6.60	3	C	O
45518	4427C	Neander O	.512	.582	.632	39.0	35.6	7.42	12.90	1	C	O
45519			.515	.595	.617	39.8	36.5	4.95	8.60	4	C	O
45521		Neander V	.528	.519	.672	38.1	31.3	2.85	4.95	1	C	O
45522			.528	.526	.667	38.4	31.7	2.10	3.65	2	C	O
45523	4424	Neander F	.520	.532	.668	37.9	32.1	12.89	22.40	2	C	O
45523A		Neander W	.526	.534	.662	38.5	32.3	5.00	8.69	2	C	O
45523B			.527	.539	.657	38.7	32.6	9.25	16.08	4	C	O
45523C			.528	.530	.664	38.5	32.0	7.20	12.51	4	C	O
45524	4427E	Neander R	.522	.550	.652	38.7	33.4	6.71	11.66	1	C	O
45524A			.523	.544	.656	38.6	33.0	2.65	4.61	3	C	O
45524B			.525	.540	.658	38.6	32.7	4.10	7.13	3	C	O
45524C			.528	.546	.650	39.1	33.1	9.65	16.77	5	C	O
45524D			.528	.543	.653	39.0	32.9	3.25	5.65	3	C	O
45525			.521	.556	.648	38.8	33.8	3.77	6.55	3	C	O
45525A			.526	.552	.647	39.1	33.5	8.90 7.64	15.47 13.28	4	C	O
45525B			.528	.552	.645	39.3	33.5	2.28	3.96	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45526			+.527	-.567	+.633	+39.8	-34.5	5.16	8.97	4	C	O
45527		Neander K	.524	.574	.629	39.8	35.0	7.94 6.23	13.80 10.83	2	C	O
45527A			.525	.578	.625	40.0	35.3	5.20	9.04	4	C	O
45527B			.528	.579	.621	40.4	35.4	5.15	8.95	5	C	O
45528			.522	.584	.622	40.0	35.7	13.89	24.14	5	C	O
45528A			.528	.586	.615	40.7	35.9	7.20	12.51	4	C	O
45529			.521	.590	.617	40.2	36.2	10.10	17.56	5	C	O
45529A			.526	.597	.606	41.0	36.7	2.70	4.69	3	C	O
45529B			.527	.594	.608	40.9	36.4	6.10	10.60	5	C	O
45530			.534	.504	.679	38.2	30.3	2.92	5.08	2	C	O
45532			.530	.521	.669	38.4	31.4	3.00	5.21	2	C	O
45537			.532	.576	.621	40.6	35.2	7.25	12.60	4	C	O
45537A			.536	.578	.615	41.1	35.3	2.90	5.04	2	C	O
45538			.531	.580	.618	40.7	35.5	8.10	14.08	5	C	O
45538A			.535	.587	.608	41.4	35.9	2.08	3.62	2	C	O
45539			.531	.591	.607	41.2	36.2	6.95	12.08	5	C	O
45539A		Brenner C	.537	.595	.598	41.9	36.5	4.25	7.39	2	C	O
45539B			.539	.597	.594	42.2	36.7	4.47	7.77	3	C	O
45540			.541	.507	.671	38.9	30.5	5.45	9.47	3	C	O
45540A			.546	.502	.671	39.1	30.1	4.80	8.34	4	C	O
45540B			.546	.508	.666	39.3	30.5	6.10	10.60	3	C	O
45541	4418	Neander	.549	.520	.654	40.0	31.3	30.06	52.25	2	C	PP
45541A	4418A	Neander A	.547	.514	.661	39.6	30.9	7.06	12.27	1	C	O
45541B			.542	.511	.667	39.1	30.7	6.02	10.46	3	C	O
45543			.544	.537	.645	40.2	32.5	2.88	5.01	2	C	O
45544			.548	.549	.631	41.0	33.3	3.30	5.74	2	C	O
45545			.548	.558	.623	41.3	33.9	2.95	5.13	3	C	O
45545A			.545	.554	.629	40.9	33.6	7.55	13.12	4	C	O
45546			.549	.561	.620	41.5	34.1	2.68	4.66	2	C	O
45548			.540	.589	.601	41.9	36.1	2.18	3.79	3	C	O
45548A			.544	.588	.599	42.3	36.0	8.00	13.91	4	C	O
45549			.547	.597	.587	43.0	36.7	10.91	18.96	5	C	O
45552			.558	.529	.639	41.1	31.9	20.50	35.63	4	C	O
45553			.555	.538	.634	41.2	32.5	3.17	5.51	3	C	O
45554		Neander HB	.550	.541	.636	40.8	32.8	7.70	13.38	2	C	O
45554A			.556	.549	.624	41.7	33.3	2.88	5.01	3	C	O
45555			.550	.550	.628	41.2	33.4	3.00	5.21	3	C	O
45555A			.557	.550	.622	41.8	33.4	3.30	5.74	3	C	O
45555B		Neander Z	.557	.557	.616	42.1	33.8	3.90	6.78	1	C	O
45558			.550	.584	.597	42.7	35.7	2.97	5.16	3	C	O
45558A			.550	.587	.594	42.8	35.9	2.73	4.75	3	C	O
45558B			.556	.584	.591	43.2	35.7	3.10	5.39	2	C	O
45558C			.557	.588	.587	43.5	36.0	2.18	3.79	2	C	O
45558D			.559	.583	.590	43.5	35.7	3.17	5.51	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45559			+.555	-.590	+.586	+43.4	-36.2	2.08	3.62	2	C	O
45561			.563	.512	.649	41.0	30.8	4.95	8.60	2	C	O
45562	4423A	Neander L	.570	.521	.635	41.9	31.4	11.89	20.67	2	C	O
45562A			.567	.522	.637	41.7	31.5	6.00	10.43	2	C	O
45562B		Neander S	.569	.529	.630	42.1	31.9	6.60	11.47	2	C	O
45564		Neander HA	.560	.543	.626	41.8	32.9	5.14	8.93	2	C	O
45564A	4425A	Neander H	.567	.545	.618	42.6	33.0	7.53	13.09	1	C	O
45564B			.568	.541	.620	42.5	32.8	4.40	7.65	4	C	O
45566		Neander JB	.561	.567	.603	42.9	34.5	3.60	6.26	2	C	O
45567			.561	.570	.600	43.1	34.8	3.80	6.60	3	C	O
45567A			.562	.571	.598	43.2	34.8	2.00	3.48	2	C	O
45567B			.566	.573	.593	43.7	35.0	3.51	6.10	1	C	O
45567C			.568	.579	.585	44.2	35.4	2.88	5.01	3	C	O
45568			.563	.580	.589	43.7	35.5	5.55	9.65	3	C	O
45568A			.566	.581	.585	44.1	35.5	2.70	4.69	2	C	O
45569			.560	.592	.580	44.0	36.3	7.15 12.05	12.43 20.94	3	C	O
45569A			.560	.599	.572	44.4	36.8	2.68	4.66	2	C	O
45570			.579	.505	.640	42.1	30.3	3.11	5.41	2	C	O
45571			.578	.513	.635	42.3	30.9	3.97	6.90	2	C	O
45571A			.578	.516	.632	42.4	31.1	7.25	12.60	3	C	O
45572			.579	.524	.625	42.8	31.6	2.58	4.48	2	C	O
45574	4425	Neander G	.578	.550	.603	43.8	33.4	10.75	18.69	1	C	O
45575	4427A	Neander J	.570	.559	.602	43.4	34.0	7.57	13.16	2	C	O
45575A			.575	.556	.600	43.8	33.8	3.10	5.39	2	C	O
45575B	4425	Neander G	.578	.550	.603	43.8	33.4	10.75	18.69	1	C	O
45576		Neander JA	.573	.563	.596	43.9	34.3	6.10	10.60	1	C	O
45576A			.577	.567	.588	44.5	34.5	2.05	3.56	2	C	O
45576B			.578	.568	.586	44.6	34.6	2.08	3.62	2	C	O
45577		Rheita C	.571	.575	.586	44.3	35.1	5.49	9.54	3	C	O
45577A			.570	.571	.591	44.0	34.8	3.01	5.23	2	C	O
45578			.577	.581	.574	45.1	35.5	20.25	35.20	5	C	P
45579			.578	.591	.563	45.8	36.2	7.95	13.82	5	C	p?
45580			.580	.503	.641	42.1	30.2	4.32	7.51	2	C	O
45580A			.581	.500	.642	42.1	30.0	4.52	7.86	2	C	O
45581		Reichenbach W	.589	.510	.627	43.2	30.7	10.25	17.82	3	C	O
45581A			.585	.516	.626	43.1	31.1	2.85	4.95	3	C	O
45583			.584	.537	.609	43.8	32.5	8.25	14.34	5	C	O
45585			.586	.559	.587	45.0	34.0	5.36	9.32	3	C	O
45585A			.588	.555	.588	45.0	33.7	2.88	5.01	3	C	O
45586			.584	.568	.580	45.2	34.6	3.00	5.21	3	C	O
45587			.587	.579	.566	46.1	35.4	2.78	4.83	3	C	O
45588			.586	.587	.559	46.4	35.9	2.48	4.31	2	C	O
45590			.594	.502	.629	43.4	30.1	5.00	8.69	3	C	O
45590A		Reichenbach N	.598	.507	.621	43.9	30.5	8.00	13.91	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45591		Reichenbach Y	+.590	-.518	+.619	+43.6	-31.2	9.91	17.23	2	C	O
45591A		Reichenbach X	.596	.513	.618	44.0	30.9	6.40	11.12	2	C	O
45591B			.598	.519	.611	44.4	31.3	6.00	10.43	3	C	O
45593			.590	.532	.607	44.2	32.1	2.60	4.52	2	C	O
45597			.592	.575	.565	46.4	35.1	2.82	4.90	3	C	O
45597A			.592	.578	.562	46.5	35.3	8.25	14.34	5	C	O
45597B			.596	.572	.564	46.6	34.9	2.55	4.43	3	C	O
45597C			.597	.574	.560	46.8	35.0	3.00	5.21	2	C	O
45598			.591	.585	.555	46.8	35.8	4.00	6.95	4	C	O
45599			.595	.593	.543	47.6	36.4	3.14	5.46	2	C	O
45600		Brenner H	.500	.601	.624	38.7	36.9	4.57	7.94	3	C	O
45600A			.502	.606	.617	39.1	37.3	6.00	10.43	2	C	O
45600B			.508	.600	.618	39.4	36.9	12.36	21.48	5	C	O
45602	4465A	Brenner E	.505	.628	.592	40.5	38.9	8.12	14.11	1	C	O
45603			.506	.635	.584	40.9	39.4	4.73	8.22	3	C	O
45603A			.507	.639	.578	41.2	39.7	7.91	13.75	3	C	O
45603B			.505	.636	.584	40.9	39.5	2.84	4.94	2	C	O
45604			.507	.647	.570	41.7	40.3	4.14	7.20	2	C	O
45604A			.505	.642	.577	41.2	39.9	3.10	5.39	3	C	O
45609			.503	.692	.518	44.2	43.8	13.36	23.22	4	C	O
45610			.511	.606	.610	40.0	37.3	16.26	28.26	4	C	O
45611			.518	.612	.598	40.9	37.7	11.00	19.12	4	C	O
45611A			.517	.617	.593	41.1	38.1	9.10	15.82	4	C	O
45612			.513	.626	.587	41.1	38.8	5.30	9.21	4	C	O
45612A			.515	.623	.589	41.2	38.5	7.65	13.30	4	C	O
45612B			.519	.627	.581	41.8	38.8	8.00	13.91	3	C	O
45613			.512	.638	.575	41.7	39.6	3.05	5.30	2	C	O
45613A			.516	.635	.575	41.9	39.4	5.76	10.01	4	C	O
45613B			.517	.630	.579	41.7	39.1	7.34	12.76	3	C	O
45615			.519	.659	.544	43.6	41.2	2.25	3.91	3	C	O
45616			.519	.661	.542	43.8	41.4	2.63	4.57	3	C	O
45618	4471	Fabricius B	.512	.689	.513	44.9	43.6	9.96	17.31	2	C	O
45619			.519	.691	.503	45.9	43.7	7.00	12.17	3	C	O
45619A			.519	.698	.493	46.4	44.3	17.16	29.83	5	C	O
45621			.521	.613	.594	41.3	37.8	22.00	38.24	5	C	O
45621A			.526	.611	.592	41.6	37.7	2.48	4.31	2	C	O
45621B			.527	.610	.592	41.7	37.6	2.85	4.95	2	C	O
45622			.522	.627	.578	42.1	38.8	2.25	3.91	2	C	O
45622A			.529	.621	.578	42.4	38.4	13.00	22.60	5	C	?
45623		Metius E	.523	.638	.565	42.8	39.6	4.00	6.95	2	C	O
45623A		Metius F	.528	.630	.569	42.8	39.1	5.62	9.77	2	C	O
45623B			.520	.638	.568	42.5	39.6	2.97	5.16	3	C	O
45624	4461	Metius	.523	.647	.555	43.3	40.3	50.42	87.64	2	C	pp
45627			.526	.672	.521	45.3	42.2	6.01	10.45	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45627A			+.529	-.670	+.521	+45.4	-42.1	2.50	4.35	3	C	O
45628			.522	.686	.507	45.8	43.3	8.06	14.01	3	C	O
45630		Brenner B	.530	.607	.592	41.8	37.4	5.50	9.56	1	C	O
45630A			.533	.600	.597	41.8	36.9	8.00	13.91	5	C	O
45630B			.530	.606	.593	41.8	37.3	11.91	20.70	5	C	O
45634	4463	Metius B	.534	.644	.548	44.3	40.1	8.26	14.36	1	C	O
45636			.532	.662	.528	45.2	41.5	3.97	6.90	4	C	O
45637			.535	.675	.508	46.5	42.5	3.10	5.39	3	C	O
45638			.530	.685	.500	46.7	43.2	3.30	5.74	2	C	O
45638A			.535	.680	.501	46.9	42.8	5.77 10.31	10.03 17.92	2	C	O
45638B			.538	.684	.493	47.5	43.2	4.03	7.00	4	C	O
45638C			.533	.686	.495	47.1	43.3	4.96	8.62	2	C	O
45641			.549	.619	.562	44.3	38.2	4.00	6.95	3	C	O
45642			.548	.625	.556	44.6	38.7	2.79	4.85	3	C	O
45644	4465C	Metius G	.542	.647	.536	45.3	40.3	5.32	9.25	2	C	O
45645			.543	.658	.522	46.1	41.1	4.21	7.32	3	C	O
45645A			.544	.654	.526	46.0	40.8	3.97	6.90	3	C	O
45645B			.546	.652	.526	46.1	40.7	3.05	5.30	2	C	O
45646			.542	.669	.509	46.8	42.0	7.15	12.43	4	C	O
45646A			.547	.664	.510	47.0	41.6	3.30	5.74	2	C	O
45647			.547	.676	.494	47.9	42.5	9.96	17.31	3	C	O
45648			.548	.684	.481	48.7	43.2	9.01	15.66	3	C	O
45649	4464	Metius C	.542	.697	.469	49.1	44.2	6.20	10.78	1	C	O
45649A			.545	.692	.473	49.0	43.8	7.06	12.27	2	C	O
45651	4442A	Rheita P	.553	.615	.562	44.5	38.0	6.11	10.62	1	C	O
45652			.557	.629	.542	45.8	39.0	10.62	18.46	4	C	p?
45655			.553	.650	.521	46.7	40.5	10.49	18.23	4	C	O
45656	4444	Young C	.559	.662	.499	48.2	41.5	17.46	30.35	2	C	O
45656A			.559	.660	.502	48.1	41.3	2.78	4.83	2	C	O
45657	4465	Metius D	.551	.677	.488	48.5	42.6	6.19	10.76	1	C	O
45658			.552	.687	.473	49.4	43.4	4.26	7.40	2	C	O
45659			.550	.691	.469	49.5	43.7	4.16	7.23	3	C	O
45659A			.552	.699	.455	50.5	44.3	6.86	11.92	3	C	O
45659B			.553	.697	.456	50.5	44.2	4.87	8.46	2	C	O
45659C			.556	.694	.457	50.6	43.9	3.97	6.90	3	C	O
45661		Rheita PA	.561	.610	.560	45.1	37.6	2.00	3.48	2	C	O
45661A			.569	.619	.541	46.4	38.2	3.85	6.69	3	C	O
45667			.560	.676	.479	49.5	42.5	8.57	14.90	4	C	O
45671			.580	.616	.533	47.4	38.0	5.87	10.20	3	C	O
45672			.577	.628	.522	47.9	38.9	3.45	6.00	3	C	O
45673			.578	.630	.519	48.1	39.1	5.79	10.06	2	C	O
45673A			.574	.630	.523	47.7	39.1	4.36	7.58	3	C	O
45678	4445	Young D	.570	.688	.449	51.8	43.5	26.59	46.22	2	C	P
45680	4441	Rheita	.585	.603	.542	47.2	37.1	40.30	70.05	2	C	P

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45681			+.581	-.611	+.538	+47.2	-37.7	3.85	6.69	3	C	O
45681A			.584	.611	.534	47.5	37.7	4.35	7.56	3	C	O
45681B			.587	.617	.524	48.2	38.1	4.00	6.95	2	C	O
45683			.589	.634	.501	49.6	39.3	2.88	5.01	3	C	O
45684			.587	.641	.495	49.9	39.9	7.94 10.18	13.80 17.69	4	C	O
45684A			.588	.646	.487	50.4	40.2	6.46	11.23	3	C	O
45685		Young A	.588	.657	.473	51.1	41.1	7.34	12.76	1	C	O
45685A		Young B	.584	.655	.479	50.6	40.9	4.05	7.04	2	C	O
45686	4446	Young	.581	.663	.472	50.9	41.5	41.26	71.72	3	C	O
45688		Young S	.588	.686	.429	53.9	43.3	6.11	10.62	2	C	O
45689		Mallet C	.580	.695	.425	53.8	44.0	16.17	28.11	3	C	O
45689A			.583	.692	.426	53.9	43.8	7.06	12.27	4	C	O
45692			.594	.628	.503	49.8	38.9	3.90	6.78	3	C	O
45692A			.594	.622	.510	49.3	38.5	2.20	3.82	2	C	O
45693			.592	.635	.496	50.0	39.4	7.00	12.17	3	C	O
45693A		Rheita D	.596	.630	.498	50.1	39.1	3.60	6.26	1	C	O
45694			.598	.643	.478	51.3	40.0	4.17	7.25	4	C	O
45695			.590	.650	.479	50.9	40.5	3.06	5.32	3	C	O
45696			.596	.660	.457	52.5	41.3	2.48	4.31	2	C	O
45696A			.599	.667	.443	53.5	41.8	7.26	12.62	3	C	O
45701		Steinheil HB	.507	.712	.486	46.2	45.4	3.53	6.14	1	C	O
45701A			.504	.719	.479	46.5	46.0	3.37 7.23	5.86 12.57	3	C	O
45703			.508	.730	.457	48.0	46.9	5.15	8.95	4	C	O
45705			.508	.755	.415	50.8	49.0	7.28	12.65	2	C	O
45706	4507	Watt C	.503	.766	.400	51.5	50.0	13.83	24.04	2f	C	O
45706A			.508	.760	.405	51.4	49.5	6.37	11.07	4	C	O
45707		Watt CA	.504	.770	.391	52.2	50.4	4.55	7.91	1	C	O
45708			.508	.783	.359	54.8	51.5	9.93	17.26	3	C	O
45709			.500	.795	.343	55.5	52.7	4.46	7.75	3	C	O
45709A			.503	.792	.346	55.5	52.4	2.31	4.02	2	C	O
45709B			.506	.799	.325	57.3	53.0	7.08	12.31	2	C	O
45710			.514	.705	.489	46.4	44.8	4.71	8.19	2	C	O
45710A			.517	.702	.490	46.5	44.6	3.94	6.85	3	C	O
45711	4506	Steinheil H	.511	.716	.476	47.1	45.7	11.24	19.54	1	C	O
45711A			.518	.717	.466	48.0	45.8	6.32	10.99	3	C	O
45712			.510	.726	.461	47.9	46.6	8.50	14.77	4	C	O
45712A		Steinheil HA	.517	.720	.463	48.2	46.1	3.80	6.60	2	C	O
45712B			.513	.722	.464	47.9	46.2	8.16	14.18	4	C	O
45716			.519	.766	.379	53.8	50.0	7.78	13.52	3	C	O
45717			.510	.770	.383	53.1	50.4	2.02	3.51	2	C	O
45717A			.513	.770	.379	53.5	50.4	2.56	4.45	3	C	O
45717B		Watt DA	.516	.772	.371	54.3	50.5	6.61	11.49	3	C	O
45717C			.517	.775	.363	54.9	50.8	8.79	15.28	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45717D			+.513	-.779	+.361	+54.9	-51.2	5.23	9.09	3	C	O
45718		Watt K	.516	.782	.350	55.9	51.4	4.83	8.40	1	C	O
45719		Watt L	.513	.794	.326	57.6	52.6	18.27	31.76	3	C	O
45720		Steinheil E	.523	.706	.478	47.6	44.9	9.07	15.77	2	C	O
45720A			.529	.701	.478	47.9	44.5	12.08	21.00	3	C	O
45721	4504A	Steinheil F	.526	.711	.467	48.4	45.3	11.84	20.58	2	C	O
45721A			.527	.719	.453	49.3	46.0	7.05	12.25	3	C	O
45722			.528	.723	.446	49.8	46.3	9.38	16.30	3	C	O
45722A			.527	.728	.439	50.2	46.7	2.96	5.14	3	C	O
45723			.524	.736	.429	50.7	47.4	15.76	27.39	3	C	O
45723A			.526	.730	.436	50.3	46.9	3.75	6.52	3	C	O
45724			.528	.749	.400	52.8	48.5	9.36	16.27	3	C	O
45724A			.525	.746	.410	52.0	48.2	4.34	7.54	4	C	O
45725		Steinheil K	.521	.750	.408	52.0	48.6	2.96	5.14	2	C	O
45726	4502	Watt D	.525	.769	.365	55.2	50.3	18.66	32.43	3	C	O
45727		Watt H	.527	.779	.340	57.2	51.2	9.01	15.66	4	C	O
45728		Watt J	.528	.784	.326	58.3	51.6	10.07	17.50	2	C	O
45730			.530	.705	.462	49.3	44.8	4.06	7.06	3	C	O
45731	4505	Steinheil G	.536	.715	.449	50.1	45.6	10.99	19.10	1	C	O
45731A			.531	.714	.456	49.3	45.6	3.89	6.76	3	C	O
45732			.530	.726	.438	50.4	46.6	5.35	9.30	3	C	O
45732A			.534	.725	.435	50.8	46.5	3.55	6.17	4	C	O
45732B			.538	.723	.433	51.1	46.3	4.34	7.54	4	C	O
45733			.532	.737	.417	51.9	47.5	15.79	27.45	3	C	O
45733A			.538	.739	.406	53.0	47.6	4.49	7.80	4	C	O
45735			.532	.756	.381	54.4	49.1	2.95	5.13	2	C	O
45736	4502A	Watt E	.532	.762	.369	55.2	49.6	5.71	9.92	1	C	O
45737		Watt G	.539	.776	.328	58.7	50.9	7.46	12.97	2	C	O
45738			.536	.782	.318	59.3	51.4	4.23	7.35	3	C	O
45738A			.531	.789	.309	59.8	52.1	7.72	13.42	4	C	O
45739			.535	.792	.294	61.2	52.4	2.36	4.10	2	C	O
45740			.540	.702	.464	49.3	44.6	4.16	7.23	3	C	O
45741			.545	.716	.436	51.3	45.7	2.96	5.14	3	C	O
45741A			.544	.713	.442	50.9	45.5	3.94	6.85	4	C	O
45741B			.544	.711	.446	50.7	45.3	2.96	5.14	3	C	O
45742		Mallet B	.541	.727	.423	52.0	46.6	18.75	32.59	3	C	p?
45744			.549	.743	.383	55.1	48.0	9.55	16.60	3	C	O
45745	4509A	Mallet J	.547	.751	.370	55.9	48.7	30.08	52.28	3	C	O
45750	4504	Young F	.557	.705	.439	51.8	44.8	13.06	22.70	1	C	O
45751			.552	.713	.432	51.9	45.5	3.05	5.30	1	C	O
45752			.550	.723	.418	52.8	46.3	3.15	5.48	2	C	O
45752A			.557	.728	.400	54.3	46.7	6.52	11.33	2	C	O
45752B			.559	.725	.402	54.3	46.5	9.66	16.79	3	C	O
45752C			.559	.723	.406	54.0	46.3	3.20	5.56	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45754		Mallet L	+.554	-.740	+.381	+55.5	-47.7	7.65	13.30	2	C	O
45756		Reimarus F	.555	.760	.338	58.6	49.5	3.93	6.83	1	C	O
45756A		Reimarus C	.552	.768	.325	59.5	50.2	6.18	10.74	2	C	O
45757			.556	.770	.313	60.6	50.4	16.35	28.42	4	C	O
45757A			.550	.776	.309	60.7	50.9	6.28	10.92	4	C	O
45760			.562	.703	.436	52.2	44.7	10.35	17.99	5	C	O
45761	4510	Mallet	.569	.712	.411	54.1	45.4	33.52	58.26	3	C	O
45761A		Mallet A	.562	.718	.411	53.8	45.9	15.99	27.79	2	C	O
45763	4510A	Mallet K	.566	.738	.367	57.0	47.6	24.73	42.98	3	C	O
45763A			.569	.734	.371	56.9	47.2	2.76	4.80	2	C	O
45763B			.568	.737	.366	57.2	47.5	2.81	4.88	3	C	O
45764			.565	.746	.353	58.0	48.2	7.41	12.88	2	C	O
45765			.567	.757	.325	60.2	49.2	6.20	10.78	2	C	O
45765A			.564	.750	.346	58.5	48.6	4.63	8.05	2	C	O
45766		Reimarus B	.566	.760	.319	60.6	49.5	9.01	15.66	3	C	O
45766A			.569	.765	.302	62.1	49.9	9.77	16.98	4	C	O
45769	4528	Hanno B	.566	.794	.222	68.6	52.6	20.46	35.56	2	C	O
45769A	4528A	Hanno F	.568	.791	.227	68.2	52.3	4.97	8.64	2	C	O
45770		Mallet E	.574	.707	.413	54.3	45.0	2.86	4.97	1	C	O
45771			.577	.716	.393	55.7	45.7	6.71	11.66	4	C	O
45771A			.578	.713	.397	55.5	45.5	4.24	7.37	3	C	O
45771B			.574	.714	.401	55.1	45.6	4.39	7.63	3	C	O
45775	4503A	Reimarus H	.577	.757	.307	62.0	49.2	5.93	10.31	1	C	O
45775A		Reimarus A	.570	.752	.331	59.9	48.8	16.46	28.61	3	C	O
45776	4539	Brisbane H	.579	.769	.271	64.9	50.3	24.92 13.84	43.31 24.06	3f	C	O
45776A			.575	.766	.287	63.4	50.0	3.04	5.28	2	C	O
45776B			.575	.761	.300	62.4	49.6	5.07	8.81	3	C	O
45776C			.578	.762	.292	63.2	49.6	4.67	8.12	3	C	O
45779		Brisbane Z	.577	.796	.183	72.4	52.7	36.93	64.19	4f	aMC	O
45779A			.575	.792	.205	70.4	52.4	9.15	15.90	3	C	O
45780			.582	.701	.412	54.7	44.5	6.34	11.02	3	C	O
45780A			.583	.705	.404	55.3	44.8	2.21	3.84	2	C	O
45781		Mallet D	.582	.720	.378	57.0	46.1	24.01	41.73	3	C	p
45781A			.582	.712	.393	56.0	45.4	6.03	10.48	3	C	O
45781B			.587	.710	.389	56.5	45.2	5.20	9.04	2	C	O
45783	4503	Reimarus	.585	.739	.334	60.3	47.6	27.82	48.36	3	C	O
45783A			.581	.735	.350	59.0	47.3	3.22	5.60	2	C	O
45783B			.588	.731	.346	59.5	47.0	5.93	10.31	3	C	O
45784			.580	.741	.338	59.7	47.8	6.03	10.48	2	C	O
45784A			.582	.746	.324	60.9	48.2	4.52	7.86	2	C	O
45784B		Reimarus U	.586	.749	.309	62.2	48.5	11.69	20.32	2	C	O
45785			.585	.756	.294	63.3	49.1	4.62	8.03	3	C	O
45786			.584	.766	.269	65.3	50.0	4.47	7.77	2	C	O
45786A			.588	.766	.260	66.2	50.0	3.92	6.81	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45787		Brisbane X	+.588	-.771	+.245	+67.4	-50.4	11.62	20.20	2f	C	O
45787A			.587	.774	.237	68.0	50.7	6.23	10.83	3	C	O
45787B			.589	.777	.222	69.3	51.0	8.05	13.99	4	C	O
45788		Brisbane Y	.586	.781	.216	69.8	51.4	9.52	16.55	3	C	O
45789			.588	.793	.159	74.8	52.5	36.84	64.03	5f	aMC	O
45789A			.588	.796	.144	76.3	52.7	3.94	6.85	3	pMC	?
45790			.599	.701	.387	57.1	44.5	5.99	10.41	4	C	O
45791			.599	.719	.352	59.5	46.0	2.91	5.06	3	C	O
45794		Reimarus S	.597	.741	.307	62.8	47.8	5.05	8.78	2	C	O
45794A		Reimarus T	.594	.748	.296	63.5	48.4	13.73	23.86	3	C	O
45794B			.599	.748	.286	64.5	48.4	3.75	6.52	3	C	O
45795			.596	.758	.265	66.0	49.3	6.95	12.08	3	C	O
45795A			.596	.754	.276	65.1	48.9	3.95	6.87	3	C	O
45796			.591	.764	.259	66.3	49.8	12.53	21.78	2f	C	O
45796A			.599	.767	.230	69.0	50.1	6.84	11.89	3	C	O
45796B			.592	.761	.265	65.9	49.6	7.27	12.64	3	C	O
45797			.593	.775	.218	69.8	50.8	3.89	6.76	2	C	O
45797A			.594	.772	.226	69.2	50.5	8.52	14.81	3	C	O
45798			.597	.781	.183	72.9	51.4	18.85	32.76	4f	aMC	O
45800		Watt N	.507	.805	.308	58.7	53.6	6.47	11.25	2	C	O
45801		Hanno W	.502	.815	.289	60.0	54.6	5.67	9.86	2	C	O
45801A			.505	.813	.290	60.1	54.4	2.96	5.14	3	C	O
45801B			.501	.819	.280	60.8	55.0	2.86	4.97	2	C	O
45804			.506	.844	.178	70.6	57.6	4.74	8.24	3	C	O
45804A			.500	.848	.176	70.6	58.0	9.04	15.71	3	C	O
45805	4530A	Hanno D	.503	.858	.104	78.3	59.1	10.18	17.69	1	C	?
45805A			.507	.859	.071	82.0	59.2	3.42	5.94	3f	C	O
45805B			.502	.850	.160	72.4	58.2	3.75	6.52	3	C	O
45806			.502	.862	.070	82.0	59.5	29.54	51.34	4f	aMC	O
45806A			.501	.865	.000	90.0	59.9	18.71	32.52	3f	aMC	O
45810		Watt M	.519	.800	.301	59.9	53.1	23.92	41.58	2	C	p
45810A			.511	.809	.291	60.4	54.0	3.15	5.48	2	C	O
45811			.511	.810	.288	60.6	54.1	25.55	44.41	3	C	O
45812		Hanno Z	.519	.820	.241	65.1	55.1	5.92	10.29	2	C	O
45814			.515	.845	.144	74.4	57.7	32.88	57.15	3f	C	O
45814A			.511	.842	.173	71.3	57.4	4.46	7.75	2	C	O
45815	4526A	Hanno R	.519	.854	.036	86.0	58.6	27.31	47.47	3f	aMC	O
45815A			.513	.855	.076	81.6	58.8	15.20	26.42	3f	C	O
45815B			.512	.852	.109	77.9	58.4	11.16	19.40	2	C	O
45820			.522	.804	.285	61.4	53.5	2.81	4.88	2	C	O
45822	4529	Hanno C	.523	.828	.202	68.9	55.9	12.42	21.59	2	C	O
45822A		Hanno X	.527	.822	.216	67.7	55.3	7.38	12.83	1	C	O
45822B		Hanno Y	.520	.822	.232	65.9	55.3	4.32	7.51	2	C	O
45823	4525	Hanno	.525	.832	.179	71.1	56.3	32.32	56.18	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
45823A			+.529	-.836	+.146	+74.6	-56.7	2.50	4.35	2	C	0
45824			.524	.842	.128	76.2	57.4	36.36	63.20	5f	aMC	0
45830	4527	Hanno A	.532	.803	.269	63.2	53.4	22.06	38.34	2f	C	0
45830A			.536	.809	.241	65.8	54.0	10.60	18.42	4	C	0
45831			.538	.816	.211	68.5	54.7	8.06	14.01	3	C	0
45831A			.534	.818	.214	68.2	54.9	3.54	6.15	2	C	0
45832			.536	.821	.197	69.9	55.2	4.79	8.33	3	C	0
45832A			.538	.823	.182	71.3	55.4	7.27	12.64	3	C	0
45832B			.538	.822	.187	70.9	55.3	5.20	9.04	3	C	0
45832C			.537	.826	.171	72.3	55.7	6.24	10.85	3	C	0
45832D			.537	.829	.156	73.8	56.0	10.61 15.78	18.44 27.43	3	aMC	0
45833			.535	.839	.099	79.5	57.0	3.54	6.15	2	C	0
45834			.531	.847	.025	87.3	57.9	6.26	10.88	3	C	0
45834A			.536	.844	.019	88.0	57.6	5.07	8.81	2	C	0
45840			.547	.800	.247	65.7	53.1	25.07	43.58	4f	C	0
45840A			.549	.806	.221	68.0	53.7	8.37	14.55	3	C	0
45840B			.543	.805	.239	66.2	53.6	3.33	5.79	2	pMC	0
45841			.543	.810	.221	67.8	54.1	6.87	11.94	2	C	0
45841A			.544	.813	.208	69.1	54.4	6.24	10.85	2	C	0
45841B			.545	.819	.179	71.8	55.0	8.31	14.44	3	pMC	0
45850			.551	.800	.237	66.7	53.1	3.35	5.82	1	C	0
45850A			.559	.802	.211	69.4	53.3	3.95	6.87	2	C	0
45850B			.552	.808	.206	69.5	53.9	5.40	9.39	3	C	0
45851			.551	.810	.201	70.0	54.1	5.40	9.39	3	pMC	0
45851A			.558	.814	.161	73.9	54.5	3.74	6.50	3	pM	0
45851B			.558	.815	.156	74.4	54.6	3.11	5.41	3	pM	0
45853			.551	.831	.076	82.1	56.2	8.32	14.46	1	C	0
45853A			.551	.835	.000	90.0	56.6	32.77	56.96	3f	C	0
45853B			.555	.830	.055	84.3	56.1	12.49	21.71	2	C	0
45860			.560	.804	.200	70.3	53.5	8.59	14.93	3	C	0
45870	(4531A)	Hanno K	.579	.804	.135	76.8	53.5	14.39	25.01	3f	aMC	0
45871	(4531B)	Hanno L	.578	.813	.070	83.1	54.4	40.52	70.43	2f	C	0
45871A		Hanno J	.577	.816	.035	86.5	54.7	32.57	56.61	2f	C	0
45881			.582	.811	.060	84.2	54.2	6.87	11.94	3	C	0
45890		Lyot M	.596	.803	.000	90.0	53.4	13.51	23.48	1	C	0
46000		Censorinus X	.604	.009	.797	37.2	0.5	11.24	19.54	4	C	0
46000A			.603	.001	.798	37.1	0.1	12.75	22.16	5	C	0
46000B			.607	.009	.795	37.4	0.5	14.32	24.89	5	C	0
46001		Censorinus W	.609	.017	.793	37.5	1.0	5.45	9.47	1	C	0
46003			.605	.037	.795	37.3	2.1	3.73	6.48	3	C	0
46003A			.609	.036	.792	37.5	2.1	2.70	4.69	2	C	0
46003B			.605	.039	.795	37.3	2.2	2.68	4.66	2	C	0
46003C			.608	.033	.793	37.5	1.9	2.05	3.56	2	C	0
46004			.609	.047	.792	37.6	2.7	8.52 10.28	14.81 17.87	4	C	0

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46004A			+.604	-.042	+.796	+37.2	-2.4	2.78	4.83	2	C	O
46005	4241	Censorinus F	.607	.055	.793	37.4	3.2	7.42	12.90	1	C	O
46005A			.600	.052	.798	36.9	3.0	2.30	4.00	2	C	O
46007			.604	.072	.794	37.3	4.1	2.40	4.17	2	C	O
46007A			.607	.071	.792	37.5	4.1	2.25	3.91	2	C	O
46012			.613	.028	.790	37.8	1.6	3.12	5.42	2	C	O
46013		Censorinus NA	.612	.034	.790	37.8	1.9	7.18	12.48	4	C	O
46013A			.616	.037	.787	38.1	2.1	2.89	5.02	2	C	O
46014			.611	.040	.791	37.7	2.3	7.87	13.68	3	C	O
46016			.613	.069	.787	37.9	4.0	2.75	4.78	3	C	O
46017			.612	.075	.787	37.9	4.3	13.99	24.32	5	C	O
46017A			.615	.072	.785	38.1	4.1	2.00	3.48	2	C	O
46018		Lubbock K	.618	.089	.781	38.3	5.1	3.81	6.62	2	C	O
46018A			.610	.085	.788	37.7	4.9	2.00	3.48	2	C	O
46019			.617	.092	.782	38.3	5.3	2.97	5.16	2	C	O
46020	4273	Lubbock M	.625	.006	.781	38.7	0.3	10.72	18.63	3	C	?
46023			.627	.038	.778	38.9	2.2	9.72	16.89	4f	C	O
46024			.622	.046	.782	38.5	2.6	16.01	27.83	3	C	O
46025			.624	.056	.779	38.7	3.2	5.35	9.30	3	C	O
46025A			.627	.059	.777	38.9	3.4	2.91	5.06	1	C	O
46026			.621	.061	.781	38.5	3.5	2.42	4.21	2	C	O
46026A			.629	.061	.775	39.1	3.5	2.61	4.54	2	C	O
46027	4262	Lubbock D	.629	.079	.773	39.1	4.5	7.18	12.48	1	C	O
46028			.623	.084	.778	38.7	4.8	5.70	9.91	5	C	O
46032	4274	Lubbock N	.638	.027	.770	39.7	1.5	15.06	26.18	4	C	O
46035		Lubbock P	.635	.050	.771	39.5	2.9	4.40	7.65	2	C	O
46036	4264	Lubbock G	.632	.064	.772	39.3	3.7	5.93	10.31	1	C	O
46037			.631	.071	.773	39.2	4.1	17.15	29.81	5	C	O
46038		Lubbock L	.630	.086	.772	39.2	4.9	3.73	6.48	1	C	O
46038A		Lubbock C	.638	.084	.765	39.8	4.8	4.70	8.17	2	C	O
46038B			.632	.082	.771	39.4	4.7	3.06	5.32	2	C	O
46039			.631	.093	.770	39.3	5.3	2.03	3.53	3	C	O
46040		Lubbock R	.648	.005	.762	40.4	0.3	13.81	24.00	4f	aMC	O
46041			.644	.010	.765	40.1	0.6	4.41	7.67	3	C	O
46041A			.646	.016	.763	40.2	0.9	5.55	9.65	3	C	O
46042			.642	.028	.766	40.0	1.6	3.27	5.68	2	C	O
46043			.642	.033	.766	40.0	1.9	2.45	4.26	2	C	O
46043A			.644	.035	.764	40.1	2.0	6.88	11.96	3	C	O
46044			.649	.046	.759	40.5	2.6	11.89 16.26	20.67 28.26	4f	aMC	pp?
46045			.642	.051	.765	40.0	2.9	5.95	10.34	3	C	p
46046			.644	.068	.762	40.2	3.9	12.38 17.71	21.52 30.78	5	C	O
46047			.643	.076	.762	40.2	4.4	13.22 19.93	22.98 34.64	5	C	O
46049			.645	.096	.758	40.4	5.5	12.98	22.56	4	aMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46050			+.658	-.004	+.753	+41.1	-0.2	6.78	11.78	3	C	O
46050A			.656	.009	.755	41.0	0.5	5.70	9.91	3	C	O
46053		Lubbock J	.652	.036	.757	40.7	2.1	3.31	5.75	2	C	O
46060			.667	.009	.745	41.8	0.5	8.92 11.63	15.50 20.21	5f	aMC	O
46062			.667	.022	.745	41.8	1.3	18.97	32.97	5f	aMC	O
46064	4264A	Lubbock H	.666	.046	.745	41.8	2.6	6.70	11.65	3f	aMC	O
46066	4261	Lubbock	.664	.068	.745	41.7	3.9	8.33	14.48	3f	aMC	O
46081		Secchi X	.690	.013	.724	43.6	0.7	3.24	5.63	1	pM	O
46082			.685	.021	.728	43.2	1.2	19.60	34.07	5f	aM	O
46085			.680	.053	.731	42.9	3.0	10.98	19.08	5f	aM	O
46095			.699	.052	.713	44.4	3.0	14.44	25.10	5f	aM	O
46101	4287	Capella D	.605	.117	.788	37.5	6.7	4.63	8.05	1	C	O
46101A			.603	.114	.790	37.4	6.5	4.05	7.04	2	C	O
46102			.606	.126	.785	37.7	7.2	4.60	8.00	1	C	O
46103	4288	Capella E	.606	.130	.785	37.7	7.5	9.00	15.64	2	C	O
46104	4285C	Capella H	.601	.142	.787	37.4	8.2	4.85	8.43	2	C	O
46105			.603	.154	.783	37.6	8.9	2.97	5.16	3	C	O
46105A			.604	.150	.783	37.7	8.6	3.99	6.94	3	C	O
46105B			.605	.154	.781	37.8	8.9	3.43	5.96	4	C	O
46105C			.609	.150	.779	38.0	8.6	2.15	3.74	2	C	O
46107			.607	.174	.775	38.1	10.0	4.55	7.91	4f	C	O
46109	4314A	Gaudibert C	.601	.200	.774	37.8	11.5	4.86	8.45	2	C	O
46109A	4314	Gaudibert	.602	.190	.776	37.8	11.0	16.43	28.56	3	C	PP
46109B			.605	.198	.771	38.1	11.4	3.92	6.81	2	C	O
46111			.611	.118	.783	38.0	6.8	2.62	4.55	3	C	O
46115	4313	Gutenberg B	.613	.158	.774	38.4	9.1	8.84	15.37	2	C	O
46115A		Gutenberg BA	.612	.152	.776	38.3	8.7	5.28	9.18	2	C	O
46116			.614	.162	.773	38.5	9.3	3.38	5.87	2	C	O
46117			.613	.172	.771	38.5	9.9	18.58	32.29	4f	C	O
46118			.617	.186	.765	38.9	10.7	5.89	10.24	4f	C	O
46119	4320	Gaudibert J	.620	.194	.760	39.2	11.2	5.83	10.13	1	C	O
46121A	4319	Gutenberg H	.625	.117	.772	39.0	6.7	2.83	4.92	2	C	O
46125			.623	.155	.767	39.1	8.9	3.00	5.21	3	C	O
46127			.622	.178	.763	39.2	10.3	40.85	71.00	5f	C	O
46127A			.627	.172	.760	39.5	9.9	5.72	9.94	3	C	O
46130A	4318	Gutenberg G	.639	.106	.762	40.0	6.1	17.74	30.83	3	MC	P
46135	4312	Gutenberg A	.634	.157	.757	39.9	9.0	8.44	14.67	1	C	O
46142		Gutenberg K	.648	.125	.751	40.8	7.2	3.48	6.05	2	C	O
46147		Gutenberg C	.649	.175	.740	41.2	10.1	25.61	44.51	4	C	p?
46148			.645	.189	.740	41.1	10.9	6.37	11.07	4	C	O
46149			.649	.194	.736	41.4	11.2	2.94	5.11	2	C	O
46155	4303	Gutenberg	.652	.151	.743	41.3	8.7	40.73	70.79	3	aMC	P
46159			.650	.196	.734	41.5	11.3	3.92	6.81	3	C	O
46160			.669	.109	.735	42.3	6.3	10.39	18.06	5f	aM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46164	4316	Gutenberg E	+.668	-.142	+.730	+42.4	-8.2	15.93	27.69	4f	aMC	O
46167		Gutenberg F	.666	.177	.725	42.6	10.2	3.79	6.59	2	pMC	O
46169	4315	Gutenberg D	.668	.190	.719	42.9	11.0	11.70	20.34	2f	C	O
46171			.675	.112	.729	42.8	6.4	4.89	8.50	5f	aM	O
46175			.676	.158	.720	43.2	9.1	12.15	21.12	4	aMC	O
46175A			.670	.158	.725	42.7	9.1	2.69	4.68	2	C	O
46180			.682	.103	.724	43.3	5.9	2.64	4.59	2	pMC	O
46182			.685	.127	.717	43.7	7.3	22.74	39.53	5f	aM	O
46183			.680	.138	.720	43.4	7.9	2.05	3.56	2	pM	O
46183A			.682	.139	.718	43.5	8.0	19.60	34.07	5f	aM	O
46196		Goclenius B	.692	.160	.704	44.5	9.2	4.06	7.06	2	pMC	O
46197A	4325	Goclenius	.696	.174	.697	45.0	10.0	31.15 38.22	54.14 66.43	3	aM	p
46200		Gaudibert CA	.604	.202	.771	38.1	11.7	3.76	6.54	1	C	O
46201		Gaudibert A	.600	.212	.771	37.9	12.2	11.29	19.62	4f	aMC	O
46201A		Gaudibert B	.608	.213	.765	38.5	12.3	11.96	20.79	3	aMC	O
46210			.613	.206	.763	38.8	11.9	8.07 10.30	14.03 17.90	5	C	O
46211			.619	.218	.755	39.4	12.6	11.51	20.01	4	aMC	p
46212			.616	.224	.755	39.2	12.9	9.01	15.66	4	aMC	O
46215	4365	Bohnenberger F	.618	.253	.744	39.7	14.7	5.27	9.16	1	pMC	O
46216			.617	.262	.742	39.7	15.2	5.49	9.54	5f	aMC	O
46217	4357	Bohnenberger	.619	.279	.734	40.1	16.2	18.97	32.97	2	pM	pp?
46219	4359	Bohnenberger G	.616	.295	.730	40.1	17.2	6.95	12.08	1	pM	O
46220			.626	.200	.754	39.7	11.5	8.17 10.63	14.20 18.48	5f	aMC	O
46224			.624	.246	.742	40.1	14.2	2.10	3.65	2	pM	O
46225		Bohnenberger J	.626	.256	.737	40.4	14.8	2.88	5.01	1	pM	O
46229			.629	.299	.718	41.2	17.4	3.22	5.60	2	C	O
46231			.634	.211	.744	40.4	12.2	12.52	21.76	4f	C	O
46234			.635	.241	.734	40.9	13.9	3.22	5.60	1	C	O
46234A			.637	.240	.733	41.0	13.9	7.20	12.51	3	MC	O
46240			.643	.200	.739	41.0	11.5	2.55	4.43	2	C	O
46242			.644	.223	.732	41.3	12.9	13.32	23.15	4	aMC	O
46243			.640	.236	.731	41.2	13.7	3.10	5.39	2	pMC	O
46244			.642	.243	.727	41.4	14.1	2.41	4.19	1	C	O
46246			.640	.265	.721	41.6	15.4	3.98	6.92	3	C	O
46246A			.640	.269	.720	41.6	15.6	4.57	7.94	2	C	O
46246B			.645	.266	.716	42.0	15.4	8.10	14.08	3	C	O
46247	4350	Colombo E	.649	.272	.711	42.4	15.8	9.65	16.77	2	C	O
46247A			.643	.273	.716	41.9	15.8	13.42	23.33	3	C	p
46248			.640	.282	.715	41.8	16.4	4.17	7.25	3	aMC	O
46249	4363	Bohnenberger E	.640	.300	.707	42.1	17.5	6.65	11.56	1	C	O
46250			.656	.202	.727	42.1	11.7	2.98	5.18	2	C	O
46254			.654	.242	.717	42.4	14.0	5.05	8.78	4f	aMC	O
46255			.650	.255	.716	42.2	14.8	3.02	5.25	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46255A			+.653	-.259	+.712	+42.5	-15.0	3.32	5.77	3	C	O
46256			.655	.264	.708	42.8	15.3	3.62	6.29	2	pMC	O
46257			.652	.278	.705	42.7	16.1	3.92	6.81	3	C	O
46257A			.654	.274	.705	42.8	15.9	5.23	9.09	3	C	O
46257B			.657	.272	.703	43.1	15.8	3.42	5.94	5f	aMC	O
46257C			.658	.276	.701	43.2	16.0	8.49	14.76	4f	aMC	O
46259			.651	.297	.699	43.0	17.3	3.12	5.42	2	pMC	O
46266			.663	.260	.702	43.4	15.1	3.54	6.15	4	aMC	O
46267			.660	.271	.701	43.3	15.7	4.23	7.35	5f	aMC	O
46267A			.665	.273	.695	43.7	15.8	6.86	11.92	5f	aMC	O
46269		Colombo H	.666	.299	.683	44.3	17.4	7.90	13.73	3f	aMC	O
46273			.670	.235	.704	43.6	13.6	11.96	20.79	5f	aMC	O
46274	4348	Colombo A	.679	.244	.692	44.4	14.1	23.70	41.19	2f	C	O
46274A		Colombo G	.670	.242	.702	43.7	14.0	5.01	8.71	1	pMC	O
46274B		Colombo J	.670	.247	.700	43.7	14.3	3.76	6.54	1	pMC	O
46278			.678	.288	.676	45.1	16.7	6.04	10.50	4	C	O
46279			.674	.294	.678	44.8	17.1	8.35	14.51	4f	aMC	O
46280	4335	Magelhaens	.681	.206	.703	44.1	11.9	22.15	38.50	2f	pMC	O
46281	4336	Magelhaens A	.690	.220	.690	45.0	12.7	17.51	30.44	2f	C	O
46288	4349	Colombo B	.681	.282	.676	45.2	16.4	8.94	15.54	1	C	O
46288A			.684	.288	.670	45.6	16.7	7.65	13.30	4	C	O
46289			.682	.295	.669	45.5	17.2	7.35	12.78	4	C	O
46293			.690	.236	.684	45.2	13.7	7.35	12.78	3	C	O
46293A			.693	.230	.683	45.4	13.3	8.33	14.48	4	C	O
46296	4347	Colombo	.696	.261	.669	46.1	15.1	45.01	78.23	3	C	PP
46297		Colombo K	.697	.272	.663	46.4	15.8	2.59	4.50	2	C	O
46297A			.691	.277	.668	46.0	16.1	2.21	3.84	3	C	O
46298			.692	.289	.662	46.3	16.8	6.54	11.37	3	C	O
46298A			.693	.283	.663	46.3	16.4	4.03 6.65	7.00 11.56	3	C	O
46303			.604	.333	.724	39.8	19.5	7.19	12.50	5f	aMC	O
46305			.604	.359	.712	40.3	21.0	3.07	5.34	2	pMC	O
46305A			.608	.357	.710	40.5	20.9	4.01	6.97	2	pMC	O
46305B			.609	.352	.712	40.5	20.6	2.18	3.79	2	pMC	O
46305C			.608	.359	.708	40.6	21.0	3.50	6.08	3	MC	O
46306		Santbech P	.600	.362	.713	40.1	21.2	4.91	8.53	2	C	O
46306A			.609	.363	.705	40.8	21.3	5.49	9.54	3	MC	O
46310	4358	Bohnenberger A	.614	.305	.728	40.1	17.8	16.84	29.27	3f	aMC	O
46313			.614	.336	.714	40.7	19.6	3.66	6.36	3	C	O
46316			.611	.360	.705	40.9	21.1	3.50	6.08	3	MC	O
46321		Bohnenberger W	.624	.312	.716	41.1	18.2	5.65	9.82	2	C	O
46321A	4361	Bohnenberger C	.623	.318	.715	41.1	18.5	9.03	15.70	2	MC	p?
46321B			.628	.319	.710	41.5	18.6	3.01	5.23	3	pMC	O
46322		Bohnenberger P	.626	.328	.707	41.5	19.1	5.95	10.34	2	pMC	O
46322A			.627	.325	.708	41.5	19.0	3.21	5.58	1	pMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46327			+.621	-.377	+.687	+42.1	-22.1	2.96	5.14	2	pMC	O
46327A			.626	.378	.682	42.5	22.2	5.31	9.23	3	C	O
46330		Bohnenberger N	.636	.308	.708	42.0	17.9	4.00	6.95	1	pM	O
46334		Santbech H	.638	.349	.686	42.9	20.4	5.48	9.53	2	C	O
46335			.635	.351	.688	42.7	20.5	2.78	4.83	2	C	O
46340			.641	.305	.704	42.3	17.8	7.83	13.61	5	C	O
46341	4362	Bohnenberger D	.644	.315	.697	42.7	18.4	8.04	13.97	2	pMC	O
46341A			.648	.314	.694	43.0	18.3	4.06	7.06	2	C	O
46342		Santbech K	.646	.328	.689	43.1	19.1	5.45	9.47	2	pMC	O
46343			.640	.339	.690	42.9	19.8	3.02	5.25	2	C	O
46343A		Santbech J	.647	.336	.684	43.4	19.6	7.92	13.77	3	C	O
46346			.648	.367	.667	44.2	21.5	4.06	7.06	3	C	O
46348		Santbech G	.646	.389	.657	44.5	22.9	2.81	4.88	2	C	O
46349			.640	.390	.662	44.0	23.0	9.39	16.32	5	aMC	O
46355A	4383	Santbech	.650	.356	.671	44.1	20.9	37.08	64.45	3	pMC	p
46357	4387A	Santbech E	.652	.380	.656	44.8	22.3	6.30	10.95	2	pMC	O
46357A			.651	.378	.658	44.7	22.2	4.01	6.97	3	pMC	O
46358			.652	.388	.651	45.0	22.8	2.50	4.35	2	pMC	O
46361			.663	.315	.679	44.3	18.4	10.94	19.02	5f	aMC	O
46362			.661	.324	.677	44.3	18.9	3.16	5.49	3	C	O
46365		Santbech D	.662	.358	.658	45.2	21.0	4.48	7.79	2	C	O
46369			.669	.399	.627	46.9	23.5	5.22	9.07	4	C	O
46370			.675	.304	.672	45.1	17.7	6.04	10.50	5	C	O
46371			.670	.311	.674	44.8	18.1	6.50	11.30	4	C	O
46371A			.674	.317	.667	45.3	18.5	10.19	17.71	4f	aMC	O
46371B			.676	.310	.669	45.3	18.1	5.04	8.76	3	C	O
46372		Colombo T	.674	.324	.664	45.4	18.9	4.76	8.27	3	C	O
46372A			.671	.323	.667	45.2	18.8	4.82	8.38	4	C	O
46379			.677	.394	.622	47.4	23.2	6.24	10.85	3	C	O
46380			.680	.302	.668	45.5	17.6	8.26	14.36	4	C	O
46381			.682	.311	.662	45.9	18.1	8.56	14.88	3	C	O
46382			.685	.322	.654	46.3	18.8	14.09	24.49	4f	aMC	O
46386			.689	.360	.629	47.6	21.1	2.01	3.49	2	pM	O
46387			.689	.370	.623	47.9	21.7	4.74	8.24	4f	aMC	O
46388			.680	.387	.623	47.5	22.8	3.73	6.48	3	C	O
46388A			.682	.384	.622	47.6	22.6	3.52	6.12	3	C	O
46389			.680	.391	.620	47.6	23.0	6.74	11.72	3	C	O
46390			.694	.309	.650	46.9	18.0	3.62	6.29	2	C	O
46391			.692	.313	.651	46.8	18.2	8.06	14.01	4	C	O
46392	4375	Monge	.697	.329	.637	47.6	19.2	21.21	36.87	2	pMC	p
46394			.697	.345	.629	48.0	20.2	7.19 13.84	12.50 24.06	4	C	O
46397	4397	Biot A	.698	.378	.608	48.9	22.2	8.38	14.57	1	C	O
46397A			.692	.372	.619	48.2	21.8	5.04	8.76	3	aMC	O
46397B			.698	.370	.613	48.7	21.7	6.04	10.50	5	aMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46401	4385	Santbech B	+604	-.418	+.679	+41.7	-24.7	9.01	15.66	1	C	O
46402			.601	.428	.675	41.7	25.3	4.01	6.97	3	C	O
46402A			.603	.423	.676	41.7	25.0	3.17	5.51	3	C	O
46402B			.607	.421	.674	42.0	24.9	2.00	3.48	3	C	O
46403	4388A	Santbech F	.604	.432	.670	42.0	25.6	7.35	12.78	1	C	O
46404	4422	Neander D	.604	.446	.661	42.4	26.5	6.74	11.72	1	C	O
46404A		Neander DA	.603	.441	.665	42.2	26.2	4.46	7.75	2	C	O
46404B			.609	.440	.660	42.7	26.1	3.68	6.40	3	C	O
46405			.606	.450	.656	42.7	26.7	4.90	8.52	3	C	O
46405A		Reichenbach R	.609	.453	.651	43.1	26.9	4.01	6.97	2	C	O
46409	4413	Reichenbach C	.606	.490	.627	44.0	29.3	16.05	27.90	2	C	p
46409A		Reichenbach TC	.607	.498	.619	44.4	29.9	8.61	14.97	2	C	O
46411	4384	Santbech A	.615	.411	.673	42.4	24.3	14.41	25.05	2	C	p
46412		Santbech Y	.617	.426	.662	43.0	25.2	4.73	8.22	1	C	O
46412A			.611	.422	.670	42.4	25.0	2.30	4.00	1	C	O
46412B		Santbech X	.613	.425	.666	42.6	25.2	4.27	7.42	1	C	O
46412C			.614	.427	.664	42.8	25.3	3.00	5.21	3	C	O
46413		Santbech Z	.615	.435	.658	43.1	25.8	3.01	5.23	1	C	O
46413A			.616	.438	.655	43.3	26.0	2.20	3.82	2	C	O
46415		Reichenbach S	.610	.455	.649	43.2	27.1	5.05	8.78	1	C	O
46415A			.614	.457	.644	43.7	27.2	3.00	5.21	2	C	O
46419			.614	.498	.612	45.1	29.9	10.01	17.40	3	C	O
46421			.625	.417	.660	43.4	24.6	7.81	13.57	3	C	O
46421A			.621	.415	.665	43.0	24.5	2.70	4.69	2	C	O
46422		Borda M	.628	.429	.649	44.0	25.4	7.71	13.40	3	C	O
46424			.624	.443	.644	44.1	26.3	2.45	4.26	3	C	O
46426			.620	.462	.634	44.4	27.5	10.11	17.57	3	C	O
46427	4414A	Reichenbach D	.621	.471	.627	44.7	28.1	17.67	30.71	3	C	O
46427A		Reichenbach DA	.626	.478	.616	45.5	28.6	4.00	6.95	3	C	O
46429		Reichenbach T	.624	.490	.609	45.7	29.3	37.03	64.36	4	C	P
46431			.634	.418	.651	44.3	24.7	7.51	13.05	3	C	O
46431A			.636	.412	.653	44.3	24.3	7.91	13.75	3	C	O
46432			.630	.424	.651	44.1	25.1	3.95	6.87	3	C	O
46433			.639	.437	.633	45.3	25.9	2.20	3.82	3	C	O
46434		Borda G	.639	.442	.630	45.4	26.2	3.30	5.74	1	C	O
46435			.634	.450	.629	45.2	26.7	7.00	12.17	3	C	O
46436			.633	.463	.620	45.6	27.6	9.70 16.56	16.86 28.78	4	C	O
46436A			.633	.469	.616	45.8	28.0	2.50	4.35	2	C	O
46437			.639	.478	.603	46.7	28.6	3.77	6.55	2	C	O
46438			.630	.484	.607	46.0	28.9	4.91	8.53	3	C	O
46439			.639	.496	.588	47.4	29.7	4.52	7.86	2	C	O
46441			.646	.413	.642	45.2	24.4	3.01	5.23	3	C	O
46441A			.649	.413	.639	45.4	24.4	2.96	5.14	2	C	O
46443			.647	.439	.623	46.1	26.0	12.15	21.12	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46446			+.648	-.460	+.607	+46.9	-27.4	4.37	7.60	2	C	O
46450	4402A	Borda E	.652	.406	.640	45.5	24.0	6.96	12.10	3	C	O
46451		Borda D	.657	.415	.629	46.2	24.5	3.68	6.40	2	C	O
46452	4401	Borda	.658	.425	.622	46.6	25.2	25.36	44.08	3	C	P
46454			.650	.443	.617	46.5	26.3	5.02	8.73	1	C	O
46454A		Borda H	.650	.449	.613	46.7	26.7	5.62	9.77	3	C	O
46454B			.652	.440	.617	46.6	26.1	7.03	12.22	3	C	O
46455		Borda L	.659	.454	.600	47.7	27.0	6.86	11.92	2	C	O
46455A		Borda J	.652	.453	.608	47.0	26.9	6.81 9.86	11.84 17.14	1	C	O
46455B			.657	.456	.600	47.6	27.1	7.43	12.91	2	C	O
46456		Borda K	.651	.461	.603	47.2	27.5	7.03	12.22	1	C	O
46456A			.654	.465	.597	47.6	27.7	3.71	6.45	2	C	O
46457	4412	Reichenbach B	.654	.476	.588	48.0	28.4	25.17	43.75	3	C	p
46462			.662	.428	.615	47.1	25.3	13.19	22.93	3	C	p?
46464		Borda F	.667	.441	.601	48.0	26.2	6.12	10.64	1	C	O
46467	4411	Reichenbach A	.664	.474	.578	48.9	28.3	19.48	33.86	2	C	p
46468	4411A	Reichenbach H	.668	.482	.567	49.7	28.8	5.89	10.24	1	C	O
46468A			.662	.486	.571	49.2	29.1	6.04	10.50	3	C	O
46469			.665	.493	.561	49.8	29.5	4.43	7.70	3	C	O
46470			.670	.400	.625	47.0	23.6	3.02	5.25	4	C	O
46471			.677	.410	.611	47.9	24.2	2.11	3.67	2	C	O
46478			.672	.482	.562	50.1	28.8	4.16	7.23	3	C	O
46478A			.675	.484	.557	50.5	28.9	3.83	6.66	2	C	O
46479			.670	.492	.556	50.3	29.5	3.12	5.42	2	C	O
46479A			.671	.498	.549	50.7	29.9	2.82	4.90	3	C	O
46479B			.672	.490	.555	50.4	29.3	3.02	5.25	2	C	O
46482			.684	.426	.592	49.1	25.2	34.24	59.51	5	C	O
46484			.689	.447	.570	50.4	26.6	5.73	9.96	2	C	O
46484A			.680	.441	.586	49.3	26.2	2.92	5.08	2	C	O
46484B			.684	.441	.581	49.7	26.2	4.03	7.00	3	C	O
46485		Borda R	.685	.460	.565	50.5	27.4	9.56	16.62	2	C	O
46486			.681	.460	.570	50.1	27.4	3.83	6.66	3	C	O
46487			.680	.479	.555	50.8	28.6	3.42	5.94	2	C	O
46488		Snellius C	.684	.485	.545	51.5	29.0	4.94	8.59	1	C	O
46488A		Snellius D	.687	.480	.546	51.5	28.7	5.04	8.76	1	C	O
46489			.686	.492	.536	52.0	29.5	4.63	8.05	2	C	O
46491			.694	.413	.590	49.6	24.4	2.31	4.02	2	C	O
46492			.698	.424	.577	50.4	25.1	5.03	8.74	2	C	O
46492A			.699	.422	.577	50.4	25.0	2.92	5.08	1	C	O
46494			.692	.442	.571	50.5	26.2	4.03	7.00	3	C	O
46494A			.696	.440	.567	50.8	26.1	4.23	7.35	3	C	O
46495	4402	Borda A	.693	.451	.562	50.9	26.8	11.07 6.34	19.24 11.02	2	C	O
46495A			.696	.454	.556	51.4	27.0	5.34	9.28	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46496		Snellius E	+.691	-.469	+.550	+51.5	-28.0	6.89	11.98	1	C	O
46497			.692	.479	.540	52.0	28.6	14.10	24.51	3	C	O
46498			.697	.487	.526	52.9	29.1	5.85	10.17	3	C	O
46499			.696	.491	.524	53.0	29.4	2.51	4.36	3	C	O
46501			.602	.513	.612	44.5	30.9	3.82	6.64	3	C	O
46501A			.602	.510	.614	44.4	30.7	2.51	4.36	3	C	O
46501B			.600	.515	.612	44.4	31.0	3.76	6.54	3	C	O
46501C			.604	.517	.607	44.9	31.1	2.21	3.84	2	C	O
46504	4417	Reichenbach M	.609	.544	.577	46.5	33.0	7.39	12.84	2	C	O
46506			.600	.565	.566	46.7	34.4	7.12	12.38	3	C	O
46506A			.605	.562	.564	47.0	34.2	5.07	8.81	3	C	O
46506B			.605	.566	.560	47.2	34.5	4.87	8.46	2	C	O
46507			.608	.570	.553	47.7	34.8	2.99	5.20	2	C	O
46507A			.603	.570	.558	47.2	34.8	6.09	10.59	3	C	O
46507B			.602	.579	.550	47.6	35.4	14.07	24.46	4f	C	O
46508			.606	.585	.539	48.3	35.8	3.21	5.58	3	C	O
46508A			.608	.589	.532	48.8	36.1	3.13	5.44	3	C	O
46509			.608	.592	.529	49.0	36.3	3.54	6.15	3	C	O
46510		Reichenbach TB	.618	.501	.606	45.6	30.1	9.15	15.90	2	C	O
46510A		Reichenbach TA	.617	.507	.602	45.7	30.5	4.53	7.87	2	C	O
46510B			.613	.505	.608	45.3	30.3	3.91	6.80	3	C	O
46510C			.610	.509	.607	45.1	30.6	4.42	7.68	3	C	O
46511			.610	.514	.603	45.3	30.9	4.77	8.29	2	C	O
46511A			.619	.512	.596	46.1	30.8	3.65	6.34	3	C	O
46511B			.615	.515	.597	45.8	31.0	3.93	6.83	3	C	O
46512		Reichenbach Z	.610	.529	.590	46.0	31.9	8.52	14.81	2	C	p
46512A			.615	.525	.588	46.3	31.7	3.48	6.05	3	C	O
46512B			.619	.525	.584	46.7	31.7	4.72	8.20	3	C	O
46512C			.619	.522	.587	46.5	31.5	4.16	7.23	3	C	O
46513			.612	.533	.584	46.3	32.2	3.08	5.35	2	C	O
46513A			.614	.537	.578	46.7	32.5	3.97	6.90	3	C	O
46513B			.611	.536	.583	46.4	32.4	4.07	7.07	3	C	O
46513C			.618	.534	.577	47.0	32.3	2.51	4.36	3	C	O
46514			.618	.541	.570	47.3	32.8	4.59	7.98	2	C	O
46514A			.615	.543	.572	47.1	32.9	2.61	4.54	3	C	O
46514B			.612	.547	.571	47.0	33.2	2.91	5.06	3	C	O
46516			.614	.566	.550	48.1	34.5	2.81	4.88	3	C	O
46517	4416	Rheita F	.610	.579	.541	48.4	35.4	7.99	13.89	2	C	O
46520			.629	.503	.593	46.7	30.2	6.08	10.57	3	C	O
46520A		Reichenbach L	.627	.507	.591	46.7	30.5	4.44	7.72	2	C	O
46521			.628	.514	.584	47.1	30.9	3.11	5.41	2	C	O
46522			.625	.524	.579	47.2	31.6	3.82	6.64	3	C	O
46522A			.622	.527	.579	47.0	31.8	4.32	7.51	3	C	O
46522B			.621	.520	.586	46.6	31.3	3.14	5.46	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46523			+.620	-.536	+.573	+47.3	-32.4	2.86	4.97	2	C	O
46523A			.624	.531	.573	47.4	32.1	2.61	4.54	3	C	O
46523B		Reichenbach FA	.627	.532	.569	47.8	32.1	3.72	6.47	2	C	O
46525			.621	.550	.558	48.0	33.4	2.61	4.54	2	C	O
46526	4415	Rheita E	.625	.562	.542	49.1	34.2	37.88 18.64	65.84 32.40	3	C	?
46527		Rheita M	.626	.578	.523	50.1	35.3	14.16	24.61	3	C	O
46527A		Rheita N	.622	.575	.531	49.5	35.1	4.58	7.96	2	C	O
46529			.626	.595	.504	51.2	36.5	3.66	6.36	2	C	O
46530			.631	.505	.589	47.0	30.3	2.51	4.36	3	C	O
46532		Reichenbach F	.638	.521	.567	48.4	31.4	8.66	15.05	2	C	O
46532A			.638	.524	.564	48.5	31.6	4.09	7.11	2	C	O
46532B			.632	.525	.570	48.0	31.7	4.72	8.20	3	C	O
46533		Reichenbach FB	.633	.533	.561	48.4	32.2	3.44	5.98	2	C	O
46534			.637	.541	.549	49.2	32.8	3.12	5.42	2	C	O
46536			.633	.561	.533	49.9	34.1	3.04	5.28	2	C	O
46536A			.630	.567	.531	49.9	34.5	3.41	5.93	2	C	O
46537	4610	Stevinus D	.637	.571	.518	50.9	34.8	12.40	21.55	2	C	p?
46537A			.639	.576	.510	51.4	35.2	4.02	6.99	2	C	O
46537B			.632	.579	.515	50.8	35.4	3.70	6.43	3	C	O
46538			.631	.587	.507	51.2	35.9	3.51	6.10	3	C	O
46540	4408	Reichenbach	.642	.504	.578	48.0	30.3	41.10	71.44	3	C	p
46540A			.646	.502	.575	48.3	30.1	2.31	4.02	3	C	O
46542	4412A	Reichenbach G	.646	.526	.553	49.4	31.7	8.86	15.40	1	C	O
46542A			.642	.522	.562	48.8	31.5	2.93	5.09	2	C	O
46543		Reichenbach Q	.649	.536	.540	50.2	32.4	5.59	9.72	2	C	O
46543A			.644	.532	.550	49.5	32.1	3.60	6.26	3	C	O
46543B		Reichenbach P	.649	.530	.546	49.9	32.0	7.11	12.36	2	C	O
46544	4610B	Stevinus H	.647	.547	.531	50.6	33.2	8.35	14.51	2	C	O
46544A		Reichenbach U	.640	.540	.547	49.5	32.7	8.27	14.37	3	C	O
46545	4610A	Stevinus G	.641	.555	.530	50.4	33.7	7.45	12.95	2	C	O
46547	4611	Stevinus E	.647	.578	.497	52.5	35.3	9.11	15.83	2	C	O
46548			.649	.581	.491	52.9	35.5	6.16	10.71	2	C	O
46548A		Stevinus J	.640	.589	.493	52.4	36.1	7.59	13.19	2	C	O
46549			.643	.597	.480	53.3	36.7	3.05	5.30	3	C	O
46549A			.645	.592	.483	53.2	36.3	2.88	5.01	3	C	O
46550			.657	.509	.556	49.8	30.6	3.52	6.12	3	C	O
46551		Reichenbach J	.653	.510	.560	49.4	30.7	8.54	14.84	2	C	O
46551A			.658	.515	.549	50.1	31.0	4.12	7.16	3	C	O
46551B			.656	.517	.550	50.0	31.1	2.41	4.19	3	C	O
46551C			.658	.519	.546	50.3	31.3	3.01	5.23	3	C	O
46551D			.658	.511	.553	50.0	30.7	3.62	6.29	3	C	O
46554			.655	.548	.520	51.5	33.2	5.93 4.44	10.31 7.72	3	C	O
46556			.655	.563	.504	52.4	34.3	5.86	10.19	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46556A			+.659	-.564	+.498	+52.9	-34.3	4.85	8.43	4	C	O
46556B			.659	.561	.501	52.8	34.1	3.94	6.85	4	C	O
46557			.656	.573	.491	53.2	35.0	3.84	6.67	2	C	O
46557A			.658	.576	.485	53.6	35.2	6.97	12.11	4	C	O
46558			.650	.585	.485	53.3	35.8	3.25	5.65	3	C	O
46558A			.653	.588	.477	53.8	36.0	2.90	5.04	4	C	O
46559			.651	.594	.473	54.0	36.4	3.04	5.28	3	C	O
46559A			.651	.597	.469	54.2	36.7	4.21	7.32	4	C	O
46561			.665	.514	.542	50.8	30.9	2.84	4.94	2	C	O
46561A			.663	.518	.540	50.8	31.2	3.61	6.27	2	C	O
46561B			.666	.517	.538	51.1	31.1	2.02	3.51	3	C	O
46562	4607	Stevinus A	.667	.528	.526	51.8	31.9	4.71	8.19	1	C	O
46562A		Stevinus R	.661	.524	.537	50.9	31.6	14.65	25.46	3	C	O
46565	4609	Stevinus C	.665	.551	.504	52.8	33.4	10.98	19.08	2	C	O
46566			.668	.561	.489	53.8	34.1	2.96	5.14	3	C	O
46569			.666	.594	.451	55.9	36.4	11.06	19.22	5	C	O
46570			.671	.505	.543	51.0	30.3	3.01	5.23	2	C	O
46571		Stevinus S	.670	.510	.539	51.2	30.7	4.02	6.99	2	C	O
46571A			.679	.511	.527	52.2	30.7	3.21	5.58	3	C	O
46576			.673	.563	.480	54.5	34.3	3.34	5.81	3	C	O
46580	4612	Stevinus F	.685	.509	.521	52.7	30.6	5.76	10.01	2	C	O
46580A			.680	.500	.536	51.7	30.0	3.01	5.23	3	C	O
46581	4608	Stevinus B	.680	.517	.520	52.6	31.1	11.57	20.11	2	C	?
46583A	4602	Stevinus	.684	.537	.494	54.2	32.5	42.85	74.48	2	C	P
46586		Stevinus K	.680	.563	.470	55.4	34.3	4.34	7.54	2	C	O
46586A			.682	.567	.462	55.9	34.5	6.62	11.51	2	C	O
46587			.681	.571	.458	56.1	34.8	3.73	6.48	2	C	O
46587A			.689	.571	.446	57.1	34.8	28.94	50.30	3	C	O
46588			.681	.584	.442	57.0	35.7	14.99	26.05	3	C	P
46589			.680	.597	.426	58.0	36.7	4.36	7.58	2	C	O
46590	4615	Snellius B	.692	.502	.519	53.1	30.1	16.69	29.01	2	C	O
46595		Stevinus L	.690	.556	.463	56.1	33.8	8.26	14.36	2	C	O
46596		Furnerius EA	.696	.569	.438	57.8	34.7	3.92	6.81	2	C	O
46597	4580	Furnerius E	.690	.570	.446	57.1	34.8	12.82	22.28	2	C	O
46597A			.692	.577	.434	57.9	35.2	3.72	6.47	3	C	O
46599			.694	.599	.399	60.1	36.8	2.16	3.75	2	C	O
46600			.605	.604	.519	49.4	37.2	30.29	52.65	3f	C	O
46601A			.602	.612	.513	49.6	37.7	6.84	11.89	5	C	O
46601B	(4442)	Rheita A	.604	.616	.506	50.1	38.0	6.16	10.71	2	C	O
46601C	(4442)		.604	.619	.502	50.3	38.2	6.20	10.78	2	C	?
46604		Rheita H	.603	.640	.476	51.7	39.8	3.99	6.94	1	C	O
46604A			.601	.647	.469	52.0	40.3	2.81	4.88	3	C	O
46606			.600	.661	.451	53.1	41.4	2.26	3.93	2	C	O
46607		Young R	.608	.674	.420	55.4	42.4	5.00	8.69	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46608			+.606	-.686	+.403	+56.4	-43.3	7.92	13.77	3	C	O
46608A			.602	.689	.404	56.2	43.6	6.29	10.93	3	C	O
46609			.604	.697	.386	57.4	44.2	10.05	17.47	3	C	O
46611			.616	.611	.497	51.1	37.7	6.14	10.67	4	C	O
46613	4443	Rheita B	.618	.630	.470	52.7	39.1	12.00	20.86	2	C	?
46614	4443A	Rheita G	.617	.650	.444	54.3	40.5	8.32	14.46	1	C	O
46614A			.613	.640	.463	52.9	39.8	10.45	18.16	4	C	O
46614B			.612	.645	.458	53.2	40.2	7.02	12.20	3	C	O
46620			.626	.606	.491	51.9	37.3	2.89	5.02	2	C	O
46622			.627	.624	.466	53.4	38.6	10.91	18.96	5	C	O
46623			.622	.633	.461	53.5	39.3	2.95	5.13	2	C	O
46623A			.624	.637	.453	54.0	39.6	8.32	14.46	3	C	O
46624			.621	.643	.448	54.2	40.0	8.62	14.98	4	C	O
46624A			.626	.649	.432	55.4	40.5	3.19	5.54	3	C	O
46625			.623	.659	.421	55.9	41.2	8.63	15.00	4	C	O
46626			.625	.665	.409	56.8	41.7	13.32	23.15	3	C	O
46627			.624	.679	.387	58.2	42.8	12.48	21.69	3	C	O
46627A			.624	.676	.392	57.9	42.5	7.73	13.44	3	C	O
46629			.620	.694	.366	59.4	43.9	2.77	4.81	3	C	O
46631		Rheita L	.632	.610	.478	52.9	37.6	6.01	10.45	1	C	O
46631A			.634	.619	.464	53.8	38.2	3.99	6.94	3	C	O
46633			.634	.630	.448	54.7	39.1	2.84	4.94	2	C	O
46634			.638	.641	.427	56.2	39.9	6.92	12.03	4	C	O
46635			.634	.658	.406	57.3	41.1	12.25	21.29	3	C	O
46637			.632	.673	.384	58.7	42.3	6.03	10.48	2	C	O
46637A			.636	.672	.379	59.2	42.2	6.07	10.55	3	C	O
46637B			.636	.670	.383	59.0	42.1	4.02	6.99	3	C	O
46638			.631	.687	.360	60.3	43.4	10.51	18.27	3	C	O
46638A			.631	.684	.366	59.9	43.2	7.99	13.89	3	C	O
46639			.635	.693	.341	61.7	43.9	5.58	9.70	3	C	O
46639A			.631	.693	.349	61.1	43.9	5.43	9.44	3	C	O
46639B			.638	.693	.336	62.2	43.9	6.84	11.89	3	C	O
46639C			.639	.695	.330	62.7	44.0	9.04	15.71	3	C	O
46639D			.633	.697	.337	62.0	44.2	6.23	10.83	2	C	O
46641			.647	.619	.445	55.5	38.2	3.60	6.26	2	C	O
46644			.648	.640	.413	57.5	39.8	2.70	4.69	2	C	O
46645			.649	.655	.387	59.2	40.9	3.77	6.55	3	C	O
46646	4566	Fraunhofer F	.645	.665	.376	59.7	41.7	9.27	16.11	2	C	O
46647			.641	.675	.365	60.3	42.5	5.68	9.87	3	C	O
46647A			.640	.670	.376	59.6	42.1	3.04	5.28	3	C	O
46647B			.648	.679	.345	62.0	42.8	3.55	6.17	3	C	O
46648	4565	Fraunhofer E	.640	.687	.344	61.7	43.4	24.29	42.22	3	C	O
46648A			.647	.682	.341	62.2	43.0	4.56	7.93	2	C	O
46649			.646	.696	.313	64.1	44.1	2.72	4.73	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46650			+.652	-.607	+.454	+55.1	-37.4	5.04	8.76	2	C	O
46650A			.651	.601	.464	54.5	36.9	2.21	3.84	3	C	O
46651		Fraunhofer T	.652	.614	.445	55.7	37.9	4.54	7.89	2	C	O
46651A			.652	.617	.441	55.9	38.1	3.99	6.94	2	C	O
46652		Fraunhofer V	.659	.629	.412	58.0	39.0	13.54	23.53	3	C	O
46653			.654	.635	.411	57.8	39.4	2.55	4.43	2	C	O
46653A		Fraunhofer VA	.659	.632	.408	58.3	39.2	4.54	7.89	2	C	O
46655			.651	.657	.380	59.7	41.1	9.65	16.77	4f	C	O
46655A			.654	.652	.384	59.6	40.7	2.97	5.16	3	C	O
46655B			.655	.658	.371	60.4	41.1	7.04	12.24	4f	C	O
46657			.655	.678	.334	63.0	42.7	3.97	6.90	3	C	O
46658			.652	.688	.319	64.0	43.5	12.15	21.12	3	C	O
46659			.657	.695	.292	66.0	44.0	4.42	7.68	2	C	O
46660	4579	Furnerius D	.661	.602	.448	55.9	37.0	9.27	16.11	1	C	O
46660A			.661	.606	.443	56.2	37.3	3.04	5.28	3	C	O
46661			.661	.613	.433	56.8	37.8	2.07	3.60	2	C	O
46661A			.669	.615	.417	58.0	38.0	6.60	11.47	3	C	O
46662	4567	Fraunhofer G	.667	.623	.409	58.5	38.5	6.27	10.90	1	C	O
46663	4560	Fraunhofer	.662	.636	.397	59.1	39.5	32.71	56.85	2	C	pp
46665	4566A	Fraunhofer H	.667	.653	.359	61.7	40.8	24.66	42.86	3f	C	O
46665A			.666	.650	.366	61.2	40.5	4.15	7.21	2	C	O
46667	4566B	Fraunhofer J	.662	.674	.328	63.7	42.4	36.14	62.82	3f	C	O
46668	4563	Fraunhofer C	.662	.681	.313	64.7	42.9	21.65	37.63	3	C	p
46668A			.661	.682	.313	64.7	43.0	4.99	8.67	2	C	p?
46669			.662	.693	.285	66.7	43.9	25.59	44.48	3	C	p?
46669A			.664	.695	.276	67.4	44.0	11.30	19.64	4	C	O
46669B			.669	.698	.255	69.1	44.3	14.92	25.93	2	C	O
46670			.675	.603	.425	57.8	37.1	12.05	20.94	3	C	O
46670A			.675	.606	.421	58.1	37.3	3.04	5.28	2	C	O
46671			.670	.616	.414	58.3	38.0	3.04	5.28	2	C	O
46672			.675	.625	.392	59.8	38.7	5.56	9.66	2	C	O
46672A			.673	.620	.403	59.1	38.3	3.55	6.17	2	C	O
46672B			.674	.623	.397	59.5	38.5	4.16	7.23	2	C	O
46673	4561	Fraunhofer A	.679	.637	.365	61.7	39.6	16.55	28.77	3f	C	O
46673A		Fraunhofer X	.670	.639	.378	60.6	39.7	3.26	5.67	1	C	O
46674			.674	.649	.353	62.4	40.5	10.18	17.69	3f	C	O
46676			.675	.661	.328	64.1	41.4	5.91	10.27	2	C	O
46677			.677	.670	.305	65.8	42.1	5.89	10.24	4	C	O
46678			.671	.680	.296	66.2	42.8	3.01 6.55	5.23 11.38	2	C	O
46678A			.670	.685	.286	66.9	43.2	12.37	21.50	3	C	O
46678B		Fraunhofer R	.676	.688	.264	68.7	43.5	6.08	10.57	3	C	O
46679			.677	.690	.256	69.3	43.6	7.79	13.54	3	C	O
46682			.688	.621	.376	61.4	38.4	4.68	8.13	2	C	O
46682A			.683	.626	.376	61.1	38.8	4.16	7.23	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46682B			+.684	-.629	+.369	+61.6	-39.0	2.40	4.17	3	C	O
46682C			.686	.626	.371	61.6	38.8	2.00	3.48	2	C	O
46683		Fraunhofer W	.688	.634	.353	62.8	39.3	10.22	17.76	3	C	O
46684		Fraunhofer Y	.681	.645	.347	63.0	40.2	7.66	13.31	2	C	O
46684A		Fraunhofer Z	.689	.641	.338	63.9	39.9	8.23	14.30	2	C	O
46685		Fraunhofer M	.688	.655	.312	65.6	40.9	12.13	21.08	2	C	O
46685A		Fraunhofer N	.681	.655	.327	64.3	40.9	6.97	12.11	3	C	O
46686	4562	Fraunhofer B	.687	.667	.288	67.2	41.8	20.44	35.53	2	C	p
46686A			.684	.664	.302	66.2	41.6	10.04	17.45	3	C	O
46686B			.680	.662	.315	65.1	41.5	5.28	9.18	3	C	O
46687			.682	.673	.286	67.2	42.3	4.62	8.03	2	C	O
46687A			.689	.673	.269	68.7	42.3	4.75	8.26	3	C	O
46688	4564	Fraunhofer D	.682	.683	.262	69.0	43.1	9.55	16.60	3	C	?
46688A		Fraunhofer S	.686	.683	.251	69.9	43.1	7.71	13.40	2	C	O
46689			.683	.694	.228	71.6	43.9	6.44	11.19	3	C	O
46689A			.680	.690	.248	70.0	43.6	5.92	10.29	3	C	O
46690			.693	.601	.398	60.1	36.9	3.03	5.27	2	C	O
46691		Furnerius P	.695	.615	.372	61.8	38.0	10.45	18.16	4	C	O
46692		Furnerius PB	.690	.623	.368	61.9	38.5	4.15	7.21	3	C	O
46692A		Furnerius PA	.694	.626	.356	62.9	38.8	4.07	7.07	3	C	O
46694		Fraunhofer U	.693	.645	.322	65.1	40.2	13.59	23.62	2	C	O
46695			.696	.656	.292	67.2	41.0	10.92	18.98	3	C	O
46696			.695	.666	.271	68.7	41.8	3.92	6.81	3	C	O
46696A			.690	.660	.297	66.7	41.3	6.94	12.06	3	C	O
46697		Fraunhofer L	.692	.670	.269	68.8	42.1	4.71	8.19	3	C	O
46697A		Fraunhofer K	.690	.675	.261	69.3	42.5	9.39	16.32	3	C	O
46697B			.699	.675	.236	71.3	42.5	5.19	9.02	3	C	O
46698	4545A	Oken A	.690	.685	.234	71.3	43.2	20.44	35.53	2	C	p
46698A			.695	.685	.219	72.5	43.2	3.75	6.52	2	C	O
46699	(4545)		.699	.698	.156	77.5	44.3	29.90	51.97	4f	C	O
46700			.605	.707	.366	58.8	45.0	9.04	15.71	3	C	O
46700A			.600	.708	.372	58.2	45.1	2.16	3.75	2	C	O
46701	4538	Vega J	.606	.714	.351	59.9	45.6	11.10	19.29	2	C	O
46701A			.603	.717	.350	59.9	45.8	4.63	8.05	2	C	O
46701B			.600	.715	.359	59.1	45.6	5.36	9.32	4	C	O
46702			.603	.728	.326	61.6	46.7	17.26 11.30	30.00 19.64	4	C	O
46702A			.600	.720	.349	59.8	46.1	4.62	8.03	3	C	O
46702B			.600	.726	.336	60.7	46.6	3.02	5.25	3	C	O
46702C			.605	.724	.331	61.3	46.4	20.11	34.95	5	C	O
46703		Reimarus R	.605	.739	.296	63.9	47.6	20.24	35.18	3	C	O
46703A			.604	.730	.320	62.1	46.9	4.93	8.57	4	C	O
46703B			.602	.738	.305	63.1	47.6	5.05	8.78	3	C	O
46704			.609	.749	.261	66.8	48.5	3.02	5.25	3	C	O
46704A			.608	.747	.269	66.1	48.3	8.11	14.10	4	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46705	4540A	Brisbane	+.609	-.756	+.240	+68.5	-49.1	25.83	44.90	2	C	p
46705A			.601	.752	.271	65.8	48.8	8.31	14.44	3	C	O
46706	4540	Brisbane E	.606	.768	.207	71.1	50.2	32.17	55.92	3f	C	O
46706A			.605	.766	.217	70.2	50.0	7.59	13.19	3	C	O
46706B			.609	.761	.224	69.8	49.6	4.57	7.94	2	C	O
46707			.606	.778	.166	74.7	51.1	12.11	21.05	4f	C	O
46709		Lyot F	.607	.791	.077	82.8	52.3	11.97	20.81	1	C	O
46709A		Lyot N	.600	.797	.069	83.4	52.8	7.08	12.31	2	C	O
46709B			.601	.792	.107	79.9	52.4	19.46	33.82	4f	C	O
46710			.611	.700	.370	58.8	44.4	3.02	5.25	3	C	O
46710A		Vega H	.618	.701	.356	60.1	44.5	3.62	6.29	3	C	O
46712	4536	Vega B	.619	.722	.309	63.5	46.2	17.28	30.04	3	C	O
46712A			.617	.721	.315	62.9	46.1	5.83	10.13	3	C	O
46712B			.616	.729	.299	64.1	46.8	15.54	27.01	5	C	O
46713	4536A	Vega A	.617	.734	.284	65.3	47.2	6.98	12.13	2	C	O
46713A			.614	.731	.298	64.1	47.0	7.48	13.00	3	C	O
46714		Peirescius G	.618	.744	.254	67.7	48.1	14.53	25.26	2	C	O
46715			.615	.754	.231	69.4	48.9	5.03	8.74	3	C	O
46715A			.611	.759	.225	69.8	49.4	2.91	5.06	2	C	O
46716			.617	.761	.200	72.0	49.6	7.24	12.58	2	C	O
46718	4540C	Lyot H	.610	.782	.128	78.2	51.4	35.95	62.49	3f	C	O
46718A		Lyot D	.615	.784	.084	82.2	51.6	7.98	13.87	1	C	O
46718B		Lyot E	.611	.788	.076	82.9	52.0	7.39	12.84	2	C	O
46721	4532	Vega	.628	.712	.314	63.4	45.4	43.49	75.59	3	C	O
46721A			.620	.713	.327	62.2	45.5	2.01	3.49	2	C	O
46722			.627	.726	.282	65.7	46.6	7.10	12.34	4	C	O
46723			.626	.737	.255	67.8	47.5	25.59	44.48	5	C	?
46723A			.622	.731	.281	65.7	47.0	12.73	22.13	5	C	O
46725			.623	.759	.189	73.1	49.4	4.62	8.03	1	pMC	O
46725A			.624	.754	.205	71.8	48.9	12.05	20.94	4	C	O
46726			.625	.760	.178	74.1	49.5	4.42	7.68	2	pMC	O
46727		Lyot C	.628	.771	.106	80.4	50.4	9.47	16.46	1	C	O
46730		Vega G	.633	.700	.331	62.4	44.4	6.03	10.48	2	C	O
46731		Vega C	.637	.710	.300	64.8	45.2	12.30	21.38	3	C	O
46732	4542	Peirescius	.637	.725	.262	67.6	46.5	35.51	61.72	3	C	p
46734	(4544)	Peirescius D	.635	.744	.208	71.9	48.1	24.51	42.60	3f	C	O
46736	(4540B)	Lyot	.637	.768	.066	84.1	50.2	81.14	141.03	3f	C	O
46737		Lyot B	.631	.771	.086	82.2	50.4	5.12	8.90	1	C	O
46740		Vega D	.640	.704	.308	64.3	44.7	14.57	25.32	3	C	O
46740A		Peirescius J	.649	.708	.278	66.8	45.1	8.55	14.86	3	C	O
46741			.644	.710	.285	66.1	45.2	6.43	11.18	5	C	O
46741A			.641	.710	.292	65.5	45.2	2.08	3.62	2	C	O
46743			.645	.731	.223	70.9	47.0	8.13	14.13	3	C	O
46743A			.647	.732	.213	71.7	47.1	3.12	5.42	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
46743B			+.640	-.737	+.217	+71.2	-47.5	5.19	9.02	3	C	O
46745		Lyot A	.645	.755	.118	79.6	49.0	22.02	38.27	2	C	p
46750			.654	.704	.277	67.1	44.7	4.02	6.99	4	C	O
46750A			.657	.708	.259	68.5	45.1	5.76	10.01	2	C	O
46751			.655	.713	.250	69.1	45.5	7.59	13.19	3	C	O
46751A			.657	.713	.245	69.6	45.5	3.41	5.93	3	C	O
46752	4541	Peirescius C	.656	.722	.220	71.5	46.2	23.52	40.88	3	C	O
46753			.650	.733	.201	72.9	47.1	3.23	5.61	2	C	O
46754			.658	.744	.116	80.0	48.1	11.91	20.70	5	C	O
46760	4543	Peirescius A	.667	.710	.226	71.3	45.2	8.48	14.74	1	C	O
46761		Peirescius B	.660	.714	.234	70.5	45.6	10.60	18.42	2	C	O
46770		Oken F	.677	.700	.227	71.4	44.4	11.85	20.60	2	C	O
46771		Peirescius H	.673	.711	.204	73.1	45.3	4.72	8.20	2	pMC	O
46772		Lyot T	.671	.729	.135	78.6	46.8	4.62	8.03	2	C	O
46774		Lyot P	.670	.740	.059	85.0	47.7	7.54	13.11	2	C	O
46782		Oken E	.680	.721	.133	78.9	46.1	6.94	12.06	2	C	O
46782A			.680	.728	.087	82.7	46.7	7.72	13.42	3	C	?
46791		Lyot S	.693	.719	.053	85.6	46.0	14.88	25.86	2	C	?
46792		Lyot R	.693	.721	.000	90.0	46.1	17.48	30.38	2	C	?
47002			.707	.020	.707	45.0	1.1	2.09	3.63	2	pM	O
47006			.700	.067	.711	44.6	3.8	2.09	3.63	2	pM	O
47010		Secchi K	.713	.003	.701	45.5	0.2	3.69	6.41	1	pM	O
47015		Messier E	.711	.058	.701	45.4	3.3	2.97	5.16	1	pM	O
47023	(4255)	Messier A	.730	.035	.683	46.9	2.0	7.48 6.03	13.00 10.48	1	pM	O
47026	4257	Messier D	.722	.062	.689	46.3	3.6	4.56	7.93	1	pM	O
47027		Messier DA	.721	.073	.689	46.3	4.2	2.09	3.63	2	pM	O
47033	4254	Messier	.738	.033	.674	47.6	1.9	5.08 6.33	8.83 11.00	1	pM	O
47041	4256	Messier B	.743	.015	.669	48.0	0.9	3.66	6.36	1	pM	O
47061			.760	.014	.650	49.5	0.8	9.80	17.03	5f	aM	O
47074			.773	.042	.633	50.7	2.4	16.66	28.96	5f	aM	O
47079			.771	.093	.630	50.7	5.3	2.53	4.40	1	pM	O
47082		Messier L	.786	.021	.618	51.8	1.2	2.33	4.05	2	pM	O
47082A		Messier J	.789	.027	.614	52.1	1.5	2.53	4.40	2	pM	O
47086		Messier GB	.782	.066	.620	51.6	3.8	2.80	4.87	2	pM	O
47089		Messier GA	.780	.092	.619	51.6	5.3	2.15	3.74	2	pM	O
47094			.799	.048	.599	53.1	2.8	2.09	3.63	2	pM	O
47095			.799	.052	.599	53.1	3.0	2.19	3.81	2	pM	O
47096			.795	.061	.604	52.8	3.5	2.50	4.35	2	pM	O
47099	4258A	Messier G	.794	.094	.601	52.9	5.4	7.40	12.86	1	pM	O
47099A			.796	.097	.597	53.1	5.6	2.90	5.04	2	pM	O
47100			.702	.103	.705	44.9	5.9	9.40	16.34	5	aM	O
47103			.702	.138	.699	45.1	7.9	9.01	15.66	5f	aM	O
47105			.705	.151	.693	45.5	8.7	18.62	32.36	5f	aM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47109			+.707	-.193	+.680	+46.1	-11.1	15.04	26.14	5f	aM	O
47116			.710	.160	.686	46.0	9.2	10.64	18.49	5f	aM	O
47118			.714	.181	.676	46.6	10.4	12.12	21.07	5f	aM	O
47118A			.718	.188	.670	47.0	10.8	2.03	3.53	3	MC	O
47128			.722	.185	.667	47.3	10.7	2.08	3.62	2	pM	O
47138			.730	.182	.659	47.9	10.5	2.39	4.15	1	pM	O
47141			.748	.116	.653	48.9	6.7	14.02	24.37	5f	aM	O
47153			.757	.133	.640	49.8	7.6	12.44	21.62	5f	aM	O
47154			.751	.143	.645	49.4	8.2	12.74	22.14	5f	aM	O
47156		Goclenius U	.757	.162	.633	50.1	9.3	12.87	22.37	5f	aM	O
47159		Goclenius UE	.756	.190	.626	50.4	11.0	2.16	3.75	1	pM	O
47162	4326	Goclenius A	.765	.121	.633	50.4	6.9	6.63	11.52	1	pM	O
47163			.767	.136	.627	50.7	7.8	10.78	18.74	5f	aM	O
47164		Goclenius UB	.766	.149	.625	50.8	8.6	1.95	3.39	1	pM	O
47168		Goclenius UD	.763	.181	.621	50.9	10.4	1.52	2.64	2	pM	O
47172		Goclenius AA	.775	.126	.619	51.4	7.2	2.06	3.58	1	pM	O
47175		Goclenius UA	.772	.153	.617	51.4	8.8	3.05	5.30	1	pM	O
47177		Goclenius UC	.770	.173	.614	51.4	10.0	5.09 4.50	8.85 7.82	1	pM	O
47194			.800	.148	.581	54.0	8.5	2.17	3.77	2	pM	O
47195		Langrenus DA	.793	.154	.589	53.4	8.9	3.43	5.96	1	pM	O
47197		Langrenus DB	.791	.172	.587	53.4	9.9	1.95	3.39	1	pM	O
47208			.704	.285	.651	47.3	16.6	7.80	13.56	4	C	O
47209			.700	.292	.652	47.0	17.0	8.00	13.91	5	C	O
47211			.714	.211	.668	46.9	12.2	4.40 5.95	7.65 10.34	4	aMC	O
47211A			.716	.217	.664	47.2	12.5	13.99	24.32	4f	aMC	O
47212			.714	.228	.662	47.2	13.2	6.99	12.15	5f	aMC	O
47213		Bellot B	.720	.234	.653	47.8	13.6	4.18	7.27	1	C	O
47213A			.710	.238	.663	47.0	13.8	17.99	31.27	4f	aMC	O
47215		Colombo M	.717	.252	.650	47.8	14.6	9.67	16.81	2f	C	O
47216		Colombo P	.717	.261	.646	48.0	15.1	3.10	5.39	2	C	O
47218			.713	.280	.643	48.0	16.3	4.50	7.82	4	C	O
47219			.719	.290	.632	48.7	16.9	2.09	3.63	2	C	O
47221	4338	Bellot	.728	.215	.651	48.2	12.4	9.91	17.23	1	aMC	O
47222		Bellot A	.720	.229	.655	47.7	13.2	4.51	7.84	1	C	O
47223			.729	.238	.642	48.6	13.8	20.98	36.47	5f	C	O
47224			.727	.249	.640	48.6	14.4	9.97	17.33	4	C	p?
47225			.722	.250	.645	48.2	14.5	4.00	6.95	2	C	O
47226			.721	.260	.642	48.3	15.1	3.25	5.65	2	C	O
47227			.721	.277	.635	48.6	16.1	8.70	15.12	5f	aMC	O
47227A			.726	.279	.629	49.1	16.2	9.99	17.36	5f	aMC	O
47227B		McClure A	.728	.270	.630	49.1	15.7	3.23	5.61	1	C	O
47231			.735	.211	.644	48.8	12.2	22.55	39.20	5f	aM	O
47232			.732	.225	.643	48.7	13.0	3.00	5.21	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47232A			+.732	-.227	+.642	+48.7	-13.1	7.19	12.50	3f	C	O
47232B			.733	.222	.643	48.7	12.8	5.00	8.69	3f	aM	O
47234		Crozier H	.737	.241	.631	49.4	14.1	6.49	11.28	2	C	O
47234A			.731	.249	.635	49.0	14.4	12.49	21.71	4f	C	O
47235			.730	.258	.633	49.1	15.0	6.99	12.15	4f	C	O
47235A		McClure C	.739	.254	.624	49.8	14.7	15.49	26.92	4f	C	O
47236		McClure B	.731	.266	.628	49.3	15.4	5.05	8.78	1	pMC	O
47236A			.732	.261	.629	49.3	15.1	2.90	5.04	2	C	O
47236B			.735	.264	.625	49.6	15.3	6.86	11.92	4f	aMC	O
47239			.736	.297	.608	50.4	17.3	4.80	8.34	3	pM	O
47239A			.737	.294	.609	50.5	17.1	4.50	7.82	2	C	O
47243			.745	.231	.626	50.0	13.4	16.98	29.51	4f	aMC	O
47243A			.740	.238	.629	49.6	13.8	2.80	4.87	3	C	O
47245		McClure CA	.740	.250	.624	49.8	14.5	2.86	4.97	2	C	O
47246	4344	McClure	.742	.264	.616	50.3	15.3	13.62	23.67	2	C	O
47249	4377	Cook B	.749	.297	.592	51.7	17.3	5.20	9.04	1	pM	O
47250		Crozier G	.750	.209	.628	50.1	12.1	2.08	3.62	2	pM	O
47251			.756	.210	.620	50.6	12.1	2.16	3.75	2	pM	O
47252		Crozier F	.758	.221	.614	51.0	12.8	2.98	5.18	1	pM	O
47253	4341	Crozier	.753	.234	.615	50.8	13.5	12.89	22.40	2f	MC	O
47254		McClure M	.757	.245	.606	51.3	14.2	12.21	21.22	4f	C	O
47255	4345	McClure D	.760	.255	.598	51.8	14.8	12.43	21.61	3f	C	O
47257			.752	.275	.599	51.5	16.0	2.16	3.75	2	pM	O
47261		Crozier E	.768	.219	.602	51.9	12.7	3.65	6.34	1	pM	O
47263	4343A	Crozier D	.763	.232	.603	51.7	13.4	12.04	20.93	4f	aMC	O
47263A			.769	.239	.593	52.4	13.8	2.92	5.08	2	pM	O
47264			.765	.240	.598	52.0	13.9	7.39	12.84	4f	C	O
47264A			.767	.241	.595	52.2	13.9	2.16	3.75	3	C	O
47264B			.769	.242	.592	52.4	14.0	3.39	5.89	2	pMC	O
47265			.769	.258	.585	52.7	15.0	7.70	13.38	5f	C	O
47266			.765	.267	.586	52.5	15.5	3.36	5.84	2	pMC	O
47267			.761	.271	.589	52.2	15.7	2.91	5.06	3	C	O
47267A			.762	.274	.587	52.4	15.9	2.91	5.06	2	pMC	O
47271	4343	Crozier B	.773	.217	.596	52.4	12.5	4.55	7.91	2	pMC	O
47271A			.776	.210	.595	52.5	12.1	2.18	3.79	2	pM	O
47274		McClure N	.771	.245	.588	52.7	14.2	5.23	9.09	1	pMC	O
47275		McClure P	.777	.255	.576	53.5	14.8	9.21 7.44	16.01 12.93	4f	aMC	O
47281			.781	.217	.586	53.1	12.5	11.64	20.23	5f	aM	O
47283		McClure S	.780	.238	.579	53.4	13.8	2.08	3.62	2	pM	O
47284			.787	.242	.568	54.2	14.0	2.06	3.58	2	pM	O
47294			.799	.240	.551	55.4	13.9	2.19	3.81	2	pM	O
47296		Vendelinus V	.797	.268	.541	55.8	15.5	2.61	4.54	2	pM	O
47309			.708	.395	.585	50.4	23.3	2.82	4.90	3	pM	O
47310	4373	Cook	.718	.301	.628	48.8	17.5	26.80	46.58	3f	aMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47312	4374A	Cook G	+.711	-.324	+.624	+48.7	-18.9	5.18	9.00	1	pM	O
47313			.712	.336	.617	49.1	19.6	3.07	5.34	3	aMC	O
47313A			.718	.337	.609	49.7	19.7	7.30	12.69	4	aMC	O
47314	4398	Biot B	.714	.348	.608	49.6	20.4	16.34	28.40	3f	C	O
47314A			.711	.340	.616	49.1	19.9	9.67	16.81	4	C	O
47316		Biot T	.712	.365	.600	49.9	21.4	2.72	4.73	3	C	O
47318	4396	Biot	.718	.385	.580	51.1	22.6	7.41	12.88	1	pM	O
47320	4376	Cook A	.721	.305	.622	49.2	17.8	3.32	5.77	1	pMC	O
47327		Biot C	.722	.375	.581	51.2	22.0	4.58	7.96	1	pM	O
47336			.739	.366	.566	52.6	21.5	2.59	4.50	2	pMC	O
47338			.737	.384	.556	53.0	22.6	3.07	5.34	2	pM	O
47341			.742	.312	.593	51.4	18.2	3.08	5.35	2	pM	O
47346			.749	.368	.551	53.7	21.6	9.47	16.46	5f	aMC	O
47349			.743	.393	.542	53.9	23.1	3.12	5.42	2	pM	O
47354		Cook D	.754	.344	.560	53.4	20.1	2.51	4.36	2	pM	O
47357			.752	.376	.541	54.2	22.1	5.04	8.76	2	pMC	O
47358			.752	.384	.536	54.5	22.6	2.71	4.71	2	pM	O
47359	4653A	Wrottesley A	.750	.399	.528	54.9	23.5	5.52	9.59	1	C	O
47362			.768	.320	.555	54.2	18.7	3.34	5.81	3	M	O
47366			.763	.368	.531	55.1	21.6	4.63	8.05	2	pM	O
47371		Cook E	.778	.316	.543	55.1	18.4	2.98	5.18	2	pM	O
47372			.776	.320	.544	55.0	18.7	2.13	3.70	2	pM	O
47378			.776	.380	.503	57.0	22.3	2.51	4.36	2	C	O
47380	4377A	Cook F	.785	.302	.541	55.4	17.6	4.08	7.09	1	pM	O
47380A			.782	.302	.545	55.1	17.6	2.60	4.52	1	pM	O
47383	4647	Petavius B	.790	.340	.510	57.1	19.9	19.18	33.34	2	pMC	p
47386			.782	.361	.508	57.0	21.2	2.80	4.87	2	C	O
47389			.785	.390	.481	58.5	23.0	5.03	8.74	3	C	O
47389A			.787	.398	.471	59.1	23.5	2.99	5.20	3	C	O
47392			.797	.322	.511	57.3	18.8	11.72	20.37	5f	aMC	O
47395			.793	.358	.493	58.1	21.0	8.05	13.99	5	C	O
47400			.704	.405	.583	50.4	23.9	2.97	5.16	3	C	O
47401		Biot D	.702	.411	.582	50.4	24.3	5.38	9.35	2	C	O
47401A		Biot E	.705	.417	.574	50.9	24.6	4.43	7.70	1	C	O
47402			.702	.424	.572	50.8	25.1	3.97	6.90	4	C	O
47403			.706	.434	.560	51.6	25.7	3.91	6.80	2	C	O
47404			.706	.444	.552	52.0	26.4	3.07	5.34	2	C	O
47405			.702	.450	.552	51.8	26.7	3.02	5.25	2	C	O
47405A			.702	.455	.548	52.0	27.1	2.02	3.51	3	C	O
47408			.706	.484	.517	53.8	28.9	3.42	5.94	3	C	O
47410			.717	.409	.564	51.8	24.1	3.17	5.51	2	pMC	O
47411			.720	.411	.559	52.2	24.3	3.93	6.83	2	pMC	O
47411A			.713	.417	.564	51.7	24.6	3.78	6.57	2	C	O
47411B			.714	.410	.568	51.5	24.2	3.02	5.25	2	pMC	O
47411C			.714	.414	.565	51.7	24.5	2.97	5.16	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47412			+.712	-.420	+.563	+51.7	-24.8	2.67	4.64	2	C	O
47412A			.715	.428	.553	52.3	25.3	3.12	5.42	3	C	O
47412B			.718	.423	.553	52.4	25.0	2.92	5.08	3	C	O
47413		Snellius Y	.712	.433	.553	52.2	25.7	5.87	10.20	1	C	O
47414			.710	.440	.550	52.2	26.1	2.61	4.54	2	C	O
47414A			.713	.448	.539	52.9	26.6	4.17	7.25	2	C	O
47414B			.718	.445	.535	53.3	26.4	12.23	21.26	4	C	O
47415			.711	.452	.539	52.9	26.9	4.16	7.23	2	C	O
47415A			.712	.454	.536	53.0	27.0	4.27	7.42	2	C	O
47415B			.714	.450	.536	53.1	26.7	2.82	4.90	3	C	O
47416	4614	Snellius A	.716	.460	.525	53.7	27.4	21.24	36.92	2	C	p
47417			.714	.478	.512	54.4	28.6	3.22	5.60	3	C	O
47418			.710	.486	.510	54.3	29.1	9.36	16.27	3	C	O
47418A			.712	.482	.511	54.4	28.8	2.94	5.11	2	C	O
47420			.722	.408	.559	52.3	24.1	3.09	5.37	2	pMC	O
47422			.725	.429	.539	53.4	25.4	3.01	5.23	4	C	O
47422A			.728	.428	.536	53.7	25.3	3.93	6.83	3	C	O
47426		Snellius X	.728	.460	.508	55.1	27.4	4.23	7.35	2	C	O
47429	4613	Snellius	.720	.490	.491	55.7	29.3	47.56	82.67	3	C	p
47430			.739	.408	.536	54.0	24.1	4.03	7.00	3	C	O
47431			.730	.414	.544	53.3	24.5	3.14	5.46	3	C	O
47434			.735	.445	.512	55.2	26.4	3.62	6.29	2	C	O
47439			.738	.495	.459	58.1	29.7	9.05	15.73	4	C	O
47440			.746	.402	.531	54.6	23.7	4.08	7.09	3	C	O
47440A			.748	.401	.529	54.7	23.6	2.77	4.81	3	C	O
47441			.740	.410	.533	54.2	24.2	3.42	5.94	3	C	O
47447			.747	.482	.458	58.5	28.8	44.93 50.44	78.10 87.67	5	C	O
47451	4653B	Wrottesley B	.759	.419	.498	56.7	24.8	5.63	9.79	3	C	O
47454			.755	.443	.483	57.4	26.3	2.72	4.73	2	C	O
47455			.755	.453	.474	57.9	26.9	2.41	4.19	2	C	O
47456	4650	Petavius E	.753	.468	.463	58.4	27.9	15.95	27.72	4	C	O
47458			.756	.484	.441	59.8	28.9	13.58	23.60	4f	C	O
47459			.756	.499	.424	60.7	29.9	4.86	8.45	3	C	O
47459A			.758	.492	.428	60.5	29.5	12.57	21.85	4f	C	O
47460A	4653	Wrottesley	.765	.405	.501	56.8	23.9	32.84	57.08	2	C	P
47466	4648	Petavius C	.767	.464	.443	60.0	27.6	6.03	10.48	1	C	O
47468			.764	.482	.429	60.7	28.8	3.01	5.23	2	C	O
47477			.777	.475	.413	62.0	28.4	9.62	16.72	3	C	O
47477A			.779	.472	.413	62.1	28.2	6.24	10.85	3	C	O
47478	4623	Hase A	.778	.485	.399	62.8	29.0	8.06	14.01	1	C	O
47479	4622	Hase	.774	.491	.400	62.7	29.4	47.85	83.17	4	C	?
47482	4636	Petavius	.786	.427	.447	60.4	25.3	101.60	176.60	2	C	PP
47486			.780	.462	.422	61.6	27.5	3.93	6.83	3	C	O
47488			.788	.480	.386	63.9	28.7	6.37	11.07	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47493		Petavius A	+.790	-.439	+.428	+61.6	-26.0	2.91	5.06	1	C	O
47496	4630	Palitzsch	.797	.469	.381	64.5	28.0	23.61	41.04	3	C	O
47500			.701	.503	.506	54.2	30.2	12.46	21.66	3	C	O
47505	4578	Furnerius C	.704	.555	.443	57.8	33.7	12.70	22.07	2	C	O
47506			.708	.560	.430	58.7	34.1	4.52	7.86	3	C	O
47508	4577	Furnerius B	.705	.580	.408	59.9	35.5	12.58	21.87	2	C	P
47508A			.705	.585	.401	60.4	35.8	3.01	5.23	2	C	O
47508B			.702	.587	.403	60.1	35.9	2.33	4.05	2	C	O
47509	4575	Furnerius	.701	.592	.398	60.4	36.3	72.00	125.15	3	C	O
47509A			.703	.599	.383	61.4	36.8	4.19	7.28	3	C	O
47511			.713	.515	.476	56.3	31.0	2.11	3.67	3	C	O
47512			.718	.520	.463	57.2	31.3	9.55	16.60	3	C	O
47512A			.710	.526	.468	56.6	31.7	4.69	8.15	2	C	O
47512B			.710	.521	.474	56.3	31.4	3.10	5.39	2	C	O
47513			.719	.530	.450	58.0	32.0	3.94	6.85	2	C	O
47514			.714	.541	.444	58.1	32.8	42.62	74.08	4	C	O
47515	4576	Furnerius A	.716	.552	.427	59.2	33.5	7.08	12.31	1	C	?
47515A			.710	.550	.440	58.2	33.4	4.56	7.93	2	C	O
47515B			.717	.556	.420	59.6	33.8	3.14	5.46	3	C	O
47516			.713	.563	.418	59.6	34.3	5.53	9.61	2	C	O
47516A			.715	.561	.417	59.7	34.1	4.32	7.51	3	C	O
47517			.718	.578	.388	61.6	35.3	3.65	6.34	3	C	O
47520			.728	.505	.464	57.5	30.3	3.06	5.32	3	C	O
47521			.720	.514	.466	57.1	30.9	2.87	4.99	3	C	O
47523			.728	.530	.435	59.1	32.0	4.98	8.66	2	C	O
47524			.723	.541	.430	59.3	32.8	2.81	4.88	2	C	O
47524A			.726	.548	.415	60.2	33.2	2.90	5.04	2	C	O
47525		Furnerius N	.729	.553	.403	61.0	33.6	5.28	9.18	2	C	O
47526			.721	.560	.408	60.5	34.1	5.07	8.81	3	C	O
47527			.723	.579	.377	62.5	35.4	3.21	5.58	1	C	O
47529	4581	Furnerius F	.725	.591	.354	64.0	36.2	24.64	42.83	3	C	O
47530			.731	.503	.461	57.8	30.2	2.81	4.88	3	C	O
47530A			.733	.504	.457	58.1	30.3	3.01	5.23	2	C	O
47530B			.733	.508	.452	58.3	30.5	2.81	4.88	3	C	O
47533			.735	.534	.418	60.4	32.3	10.25	17.82	4	C	O
47533A			.731	.531	.429	59.6	32.1	3.98	6.92	2	C	O
47533B			.730	.532	.429	59.6	32.1	4.19	7.28	3	C	O
47534			.735	.542	.407	61.0	32.8	4.36	7.58	2	C	O
47535			.735	.553	.392	61.9	33.6	7.51	13.05	2	C	O
47535A			.737	.550	.393	61.9	33.4	2.90	5.04	3	C	O
47537	4583	Furnerius J	.739	.571	.358	64.2	34.8	14.06	24.44	2	C	O
47538		Furnerius VA	.736	.588	.335	65.5	36.0	6.54	11.37	2	C	O
47538A		Furnerius V	.739	.584	.336	65.6	35.7	33.39 21.37	58.04 37.14	4f	C	O
47539			.731	.595	.334	65.4	36.5	5.43	9.44	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47539A			+.739	-.594	+.318	+66.7	-36.4	10.24	17.80	3	C	O
47542	4624	Hase B	.740	.524	.422	60.3	31.6	13.99	24.32	3	C	O
47542A			.743	.528	.411	61.0	31.9	12.71	22.09	3	C	O
47542B			.744	.525	.413	60.9	31.7	3.75	6.52	2	C	O
47542C			.748	.523	.409	61.4	31.5	3.65	6.34	2	C	O
47543			.746	.530	.403	61.6	32.0	7.21	12.53	3	C	O
47544			.746	.544	.384	62.8	33.0	5.58	9.70	3	C	O
47544A			.741	.543	.395	61.9	32.9	3.13	5.44	2	C	O
47545		Furnerius X	.744	.557	.369	63.6	33.8	4.57	7.94	2	C	O
47545A		Furnerius Z	.743	.552	.378	63.0	33.5	4.35	7.56	2	C	O
47546			.744	.567	.354	64.6	34.5	4.24	7.37	3	C	O
47546A			.747	.568	.345	65.2	34.6	4.13	7.18	3	C	O
47548			.747	.584	.318	67.0	35.7	13.06	22.70	4	C	O
47549			.743	.593	.310	67.3	36.4	7.29	12.67	3	C	O
47549A			.748	.591	.302	68.0	36.2	6.53	11.35	3	C	O
47549B			.747	.594	.299	68.2	36.4	2.72	4.73	3	C	O
47551			.759	.510	.405	61.9	30.7	4.06	7.06	2	C	O
47551A			.757	.512	.406	61.8	30.8	2.58	4.48	2	C	O
47551B			.753	.518	.406	61.7	31.2	3.60	6.26	2	C	O
47551C			.755	.516	.405	61.8	31.8	2.18	3.79	3	C	O
47552		Hase DA	.759	.529	.380	63.4	31.1	6.54 4.02	11.37 6.99	2	C	O
47552A			.750	.524	.404	61.7	31.6	2.94	5.11	2	C	O
47553			.754	.532	.385	62.9	32.1	16.32	28.37	4	C	O
47553A			.759	.536	.370	64.0	32.4	4.32	7.51	2	C	O
47554			.750	.547	.372	63.6	33.2	3.26	5.67	2	C	O
47554A			.752	.540	.378	63.3	32.7	9.23	16.04	3	C	O
47554B			.753	.549	.363	64.3	33.3	10.88	18.91	1	C	O
47556		Furnerius Y	.750	.563	.347	65.2	34.3	6.93	12.05	2	C	O
47556A			.750	.566	.342	65.5	34.5	2.82	4.90	3	C	O
47556B			.757	.567	.325	66.8	34.5	18.28	31.77	4	C	O
47556C			.753	.568	.332	66.2	34.6	2.82	4.90	2	C	O
47558		Furnerius U	.754	.584	.301	68.3	35.7	11.21	19.48	3	C	O
47561	4625	Hase D	.766	.515	.385	63.3	31.0	32.34	56.21	2	C	O
47563			.765	.530	.366	64.4	32.0	3.37	5.86	3	C	O
47564			.763	.548	.343	65.8	33.2	13.43	23.34	4	C	O
47565			.767	.550	.330	66.7	33.4	7.51 5.03	13.05 8.74	3	C	O
47567		Adams M	.768	.570	.292	69.2	34.8	13.93	24.21	3	C	O
47567A		Adams MA	.764	.578	.287	69.4	35.3	3.02	5.25	3	C	O
47568		Adams PA	.769	.583	.262	71.2	35.7	7.84	13.63	2	C	O
47572	4724	Adams B	.778	.523	.348	65.9	31.5	16.20	28.16	2	C	O
47573		Adams C	.770	.535	.348	65.7	32.3	5.72	9.94	2	C	O
47573A			.773	.539	.335	66.6	32.6	14.55	25.29	3	C	O
47573B			.774	.532	.343	66.1	32.1	3.94	6.85	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47574			+.772	-.546	+.325	+67.1	-33.1	7.27	12.64	3	C	O
47575			.779	.557	.288	69.7	33.8	2.88	5.01	2	C	O
47575A			.770	.552	.320	67.4	33.5	22.31	38.78	4	C	O
47576			.772	.563	.295	69.1	34.3	10.02	17.42	3	C	O
47576A			.778	.562	.281	70.2	34.2	5.44	9.46	2	C	O
47576B			.778	.564	.277	70.4	34.3	4.90	8.52	2	C	O
47577		Adams P	.773	.576	.266	71.0	35.2	13.50	23.47	2	C	O
47579			.776	.599	.198	75.7	36.8	17.17	29.84	2	C	O
47579A			.775	.598	.204	75.2	36.7	4.16	7.23	2	C	O
47580			.782	.505	.365	65.0	30.3	4.46	7.75	2	C	O
47582			.781	.524	.340	66.5	31.6	3.53	6.14	2	C	O
47583			.788	.532	.310	68.5	32.1	2.87	4.99	3	C	O
47585			.785	.558	.269	71.1	33.9	6.65	11.56	3	C	O
47585A			.782	.555	.284	70.1	33.7	2.66	4.62	3	C	O
47586			.786	.561	.260	71.7	34.1	7.62	13.24	3	C	O
47586A			.788	.568	.238	73.2	34.6	4.05	7.04	2	C	O
47586B			.787	.565	.248	72.5	34.4	7.51	13.05	3	C	O
47589	4558	Marinus E	.785	.592	.183	76.9	36.3	9.94	17.28	1	C	O
47589A			.787	.594	.167	78.0	36.4	13.03	22.65	4	C	O
47589B			.789	.593	.161	78.5	36.4	5.23	9.09	3	C	O
47589C			.780	.595	.194	76.0	36.5	4.58	7.96	3	C	O
47591			.795	.514	.322	67.9	30.9	3.34	5.81	1	C	O
47591A			.792	.513	.331	67.3	30.9	2.50	4.35	3	C	O
47591B			.793	.516	.324	67.8	31.1	3.75	6.52	2	C	O
47591C			.795	.511	.327	67.6	30.7	2.91	5.06	2	C	O
47591D			.797	.510	.324	67.9	30.7	2.91	5.06	2	C	O
47593	4726	Adams	.790	.530	.308	68.7	32.0	38.07	66.17	2	C	O
47594		Adams DA	.797	.546	.258	72.0	33.1	10.87	18.89	1	C	O
47597		Abel K	.799	.573	.182	77.1	35.0	5.20	9.04	2	C	O
47598		Abel C	.799	.588	.126	81.0	36.0	17.92	31.15	3f	C	O
47598A			.794	.588	.154	79.0	36.0	8.20	14.25	3	C	O
47598B		Abel J	.799	.581	.155	79.0	35.5	6.24	10.85	2	C	O
47598C			.795	.582	.171	77.9	35.6	3.54	6.15	2	C	O
47599		Abel B	.796	.597	.100	82.8	36.7	23.37	40.62	3	C	p
47601		Furnerius T	.705	.613	.357	63.2	37.8	5.93	10.31	2	C	O
47602			.706	.622	.339	64.4	38.5	4.06	7.06	2	C	O
47602A			.706	.624	.335	64.6	38.6	4.16	7.23	2	C	O
47603			.703	.635	.320	65.5	39.4	5.17	8.99	3	C	O
47604			.703	.640	.310	66.2	39.8	3.14	5.46	2	C	O
47604A			.704	.647	.293	67.4	40.3	3.41	5.93	3	C	O
47607			.702	.670	.241	71.0	42.1	8.74	15.19	3	C	O
47607A			.700	.670	.247	70.6	42.1	4.12	7.16	3	C	O
47609	4545	Oken	.701	.691	.176	75.9	43.7	41.38	71.92	3f	C	O
47610		Furnerius TB	.712	.609	.350	63.9	37.5	4.69	8.15	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47611	4582	Furnerius G	+.715	-.618	+.327	+65.4	-38.2	19.77	34.36	2	C	O
47611A		Furnerius TA	.712	.612	.344	64.2	37.7	4.12	7.16	2	C	O
47612			.717	.627	.305	67.0	38.8	3.85	6.69	2	C	O
47613		Furnerius S	.719	.631	.291	67.9	39.1	8.59	14.93	1	C	O
47613A		Furnerius Q	.712	.636	.298	67.3	39.5	17.27	30.02	2	C	p
47614		Furnerius R	.716	.642	.274	69.0	39.9	9.48	16.48	3	C	O
47614A			.710	.646	.280	68.5	40.2	5.03	8.74	3	C	O
47614B			.713	.641	.284	68.3	39.9	7.85	13.64	4	C	O
47615			.712	.650	.266	69.5	40.5	3.28	5.70	2	C	O
47615A			.713	.652	.258	70.1	40.7	6.65	11.56	3	C	O
47615B			.715	.652	.252	70.6	40.7	7.16	12.45	3	C	O
47617		Oken N	.712	.674	.197	74.5	42.4	23.18	40.29	4	C	O
47618		Oken L	.715	.683	.149	78.2	43.1	5.92	10.29	1	C	O
47620			.725	.607	.325	65.8	37.4	9.92	17.24	4	C	O
47620A			.729	.603	.324	66.0	37.1	2.40	4.17	2	C	O
47620B			.725	.601	.336	65.1	36.9	12.47	21.67	3	C	O
47622			.720	.626	.300	67.4	38.8	6.23	10.83	3	C	O
47622A			.728	.628	.275	69.3	38.9	5.03	8.74	2	C	O
47623			.727	.635	.261	70.2	39.4	6.83	11.87	3	C	O
47623A		Marinus J	.728	.638	.251	71.0	39.6	5.81	10.10	2	C	O
47623B			.729	.639	.245	71.4	39.7	4.00	6.95	2	C	O
47624			.728	.642	.241	71.7	39.9	3.43	5.96	3	C	O
47624A			.728	.643	.238	71.9	40.0	5.52	9.59	4	C	O
47626	4559	Marinus F	.725	.660	.197	74.8	41.3	9.59	16.67	2	C	O
47626A		Oken M	.722	.666	.188	75.4	41.8	3.91	6.80	2	C	O
47627		Hamilton B	.729	.677	.101	82.1	42.6	18.35	31.90	3	C	O
47628			.724	.686	.072	84.3	43.3	56.38	98.00	4f	C	O
47630			.738	.600	.309	67.3	36.9	5.22	9.07	2	C	O
47631	4585	Furnerius K	.730	.617	.294	68.1	38.1	20.89	36.31	3	C	O
47631A			.731	.613	.300	67.7	37.8	5.49	9.54	3	C	O
47632			.730	.624	.279	69.1	38.6	3.73	6.48	2	C	O
47632A		Furnerius L	.734	.624	.268	69.9	38.6	7.50	13.04	2	C	O
47632B			.735	.629	.253	71.0	39.0	2.98	5.18	2	C	O
47632C			.739	.621	.261	70.5	38.4	3.76	6.54	2	C	O
47633			.731	.630	.262	70.3	39.1	14.13	24.56	3	C	O
47633A			.732	.639	.236	72.1	39.7	2.87	4.99	2	C	O
47634	4554	Marinus A	.734	.642	.222	73.2	39.9	15.49	26.92	1	C	?
47637	4559A	Hamilton	.731	.679	.068	84.7	42.8	32.92	57.22	2	C	pp
47640	4584	Furnerius H	.742	.610	.278	69.5	37.6	25.12	43.66	2	C	p
47640A			.740	.604	.296	68.2	37.2	11.99	20.84	5	C	O
47641			.748	.617	.245	71.9	38.1	7.91	13.75	3	C	O
47642			.744	.623	.242	72.0	38.5	9.52	16.55	2	C	O
47643	4555	Marinus B	.743	.638	.202	74.8	39.6	33.82	58.78	3	C	?
47644	4558A	Marinus G	.741	.648	.176	76.6	40.4	12.27	21.33	2	C	?
47644A		Marinus H	.746	.644	.170	77.2	40.1	9.41	16.36	2	C	?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
47650		Furnerius W	+.755	-.603	+.258	+71.2	-37.1	18.30	31.81	3	C	O
47650A			.757	.600	.259	71.1	36.9	3.69	6.41	2	C	O
47651	4556	Marinus C	.756	.615	.224	73.5	38.0	21.41	37.21	2	C	O
47651A			.753	.614	.237	72.6	37.9	5.13	8.92	2	C	O
47651B			.758	.617	.212	74.4	38.1	3.76	6.54	2	C	O
47651C			.755	.611	.238	72.5	37.7	4.71	8.19	3	C	O
47652			.753	.624	.209	74.5	38.6	5.07	8.81	2	C	O
47653	4550	Marinus	.751	.635	.181	76.4	39.4	33.41	58.07	2	C	pp
47654			.753	.643	.140	79.5	40.0	31.28	54.37	5f	C	O
47654A			.756	.646	.106	82.0	40.2	50.21	87.27	5f	C	O
47661		Marinus R	.762	.616	.200	75.3	38.0	25.18	43.77	3	C	O
47663		Marinus S	.766	.639	.070	84.8	39.7	18.87	32.80	2	C	?
47671		Marinus N	.776	.610	.160	78.3	37.6	9.17	15.94	1	C	O
47671A			.777	.618	.120	81.2	38.2	31.68	55.06	4f	C	O
47672	4557	Marinus D	.771	.620	.145	79.3	38.3	29.33	50.98	3f	C	O
47680		Marinus M	.783	.609	.127	80.8	37.5	15.00	26.07	3f	C	O
47681		Abel E	.789	.610	.073	84.7	37.6	7.40	12.86	2	C	O
47691		Abel D	.791	.611	.032	87.7	37.7	17.06	29.65	3	aMC	O
48005			.807	.056	.588	53.9	3.2	2.02	3.51	2	pM	O
48014			.811	.049	.583	54.3	2.8	2.06	3.58	1	pM	O
48019		Langrenus FD	.811	.092	.578	54.5	5.3	2.18	3.79	2	pM	O
48019A			.818	.090	.568	55.2	5.2	2.16	3.75	2	pM	O
48019B			.811	.098	.577	54.6	5.6	2.27	3.95	2	pM	O
48026			.830	.069	.553	56.3	4.0	2.99	5.20	2	pM	O
48026A			.824	.068	.562	55.7	3.9	2.93 4.12	5.09 7.16	2	pM	O
48027		Langrenus FC	.824	.073	.562	55.7	4.2	3.09	5.37	2	pM	O
48027A			.829	.074	.554	56.2	4.2	4.34	7.54	3	M	O
48027B			.827	.072	.558	56.0	4.1	2.38	4.14	2	pM	O
48027C			.820	.076	.567	55.3	4.4	2.87	4.99	2	pM	O
48028		Langrenus FB	.829	.081	.553	56.3	4.6	3.79	6.59	1	pM	O
48028A			.823	.084	.562	55.7	4.8	2.61	4.54	1	pM	O
48028B			.825	.083	.559	55.9	4.8	2.16	3.75	2	pM	O
48028C			.826	.085	.557	56.0	4.9	2.38	4.14	2	pM	O
48028D			.821	.086	.564	55.5	4.9	2.16	3.75	2	pM	O
48028E			.829	.089	.552	56.3	5.1	2.13	3.70	2	C	O
48035			.830	.052	.555	56.2	3.0	2.38	4.14	2	pM	O
48035A			.833	.051	.551	56.5	2.9	2.18	3.79	2	pM	O
48035B			.832	.055	.552	56.4	3.2	2.06	3.58	2	pM	O
48036			.835	.066	.546	56.8	3.8	2.27	3.95	2	pM	O
48037			.834	.074	.547	56.8	4.2	3.80	6.60	2	pM	O
48037A			.834	.078	.546	56.8	4.5	2.90	5.04	2	pM	O
48038			.836	.080	.543	57.0	4.6	4.34	7.54	2	pM	O
48038A			.837	.087	.540	57.2	5.0	2.38	4.14	2	pM	O
48038B			.836	.085	.542	57.0	4.9	2.93	5.09	2	pM	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48038C			+.839	-.082	+.538	+57.3	-4.7	2.50	4.35	2	pM	O
48038D			.834	.083	.545	56.8	4.8	2.28	3.96	2	pM	O
48038E			.838	.084	.539	57.2	4.8	2.28	3.96	2	pM	O
48038F			.832	.086	.548	56.6	4.9	2.06	3.58	2	pM	O
48039			.837	.099	.538	57.3	5.7	2.27	3.95	2	pM	O
48039A			.834	.092	.544	56.9	5.3	2.60	4.52	2	pM	O
48039B			.836	.090	.541	57.1	5.2	2.16	3.75	2	pM	O
48039C			.839	.094	.536	57.4	5.4	2.18	3.79	2	pM	O
48039D			.830	.090	.550	56.4	5.2	2.13	3.70	2	C	O
48044	4658B	Webb D	.842	.041	.538	57.4	2.3	3.88	6.74	1	pM	O
48045		Langrenus BA	.840	.056	.540	57.3	3.2	2.86	4.97	1	pM	O
48045A			.845	.050	.532	57.8	2.9	2.16	3.75	2	pM	O
48046			.847	.062	.528	58.1	3.6	2.27	3.95	2	pM	O
48048	4687	Langrenus B	.843	.081	.532	57.8	4.6	20.02	34.80	3f	aM	O
48048A			.842	.082	.533	57.7	4.7	2.80	4.87	2	pM	O
48049			.840	.097	.534	57.6	5.6	3.50	6.08	3	pM	O
48049A			.845	.094	.526	58.1	5.4	2.39	4.15	2	pM	O
48051	4658A	Webb B	.851	.014	.525	58.3	0.8	3.51	6.10	1	pM	O
48053			.857	.039	.514	59.1	2.2	2.23	3.88	2	pM	O
48057			.851	.077	.519	58.6	4.4	2.19	3.81	3	pM	O
48057A			.856	.079	.511	59.2	4.5	2.08	3.62	2	pM	O
48059		Langrenus BB	.851	.090	.517	58.7	5.2	3.23	5.61	2	pM	O
48061	4656	Webb	.865	.016	.502	59.9	0.9	13.24	23.01	2	pMC	p
48063	4657	Webb H	.861	.036	.507	59.5	2.1	5.97	10.38	1	pM	O
48065		Langrenus TC	.869	.059	.491	60.5	3.4	2.91	5.06	2	pM	O
48065A			.862	.050	.504	59.7	2.9	2.13	3.70	2	pM	O
48067			.861	.074	.503	59.7	4.2	2.80	4.87	3	pM	O
48067A			.867	.075	.493	60.4	4.3	2.09	3.63	2	pM	O
48069	4688	Langrenus C	.862	.098	.497	60.0	5.6	7.53	13.09	1	pMC	O
48069A		Langrenus CA	.866	.090	.492	60.4	5.2	3.10	5.39	1	pMC	O
48071		Webb Q	.876	.018	.482	61.2	1.0	2.79	4.85	2	pM	O
48072			.873	.023	.487	60.8	1.3	2.09	3.63	2	pM	O
48074			.872	.046	.487	60.8	2.6	2.60	4.52	2	pM	O
48074A			.875	.042	.482	61.1	2.4	2.39	4.15	3	pM	O
48075			.878	.054	.476	61.6	3.1	10.00	17.38	5f	aMC	O
48079			.879	.093	.468	62.0	5.3	2.67	4.64	3	C	O
48080			.887	.008	.462	62.5	0.5	6.37	11.07	5	C	O
48083			.885	.037	.464	62.3	2.1	20.88	36.29	5f	C	O
48088		Langrenus T	.884	.080	.461	62.5	4.6	24.17	42.01	4f	aMC	O
48089			.889	.090	.449	63.2	5.2	8.56	14.88	4f	C	O
48089A			.885	.092	.456	62.7	5.3	9.30	16.16	5f	C	O
48090		Webb M	.897	.003	.442	63.8	0.2	2.94	5.11	2	pMC	O
48090A		Webb N	.896	.005	.444	63.6	0.3	2.35	4.08	2	pMC	O
48091		Webb J	.899	.010	.438	64.0	0.6	13.62	23.67	4f	aMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48091A		Webb K	+.890	-.013	+.456	+62.9	-0.7	12.20	21.21	4f	C	O
48092	4666A	Maclaurin H	.899	.028	.437	64.1	1.6	23.80	41.37	4f	aMC	O
48093		Maclaurin S	.898	.038	.438	64.0	2.2	9.30	16.16	3f	aMC	O
48093A			.893	.035	.449	63.3	2.0	7.20	12.51	4	C	O
48093B		Maclaurin HA	.895	.039	.444	63.6	2.2	4.05	7.04	1	C	O
48093C			.890	.031	.455	62.9	1.8	4.20	7.30	3	C	O
48094			.898	.049	.437	64.0	2.8	11.37	19.76	5	C	O
48096			.890	.060	.452	63.1	3.4	20.38	35.42	5	aMC	O
48097			.890	.072	.450	63.2	4.1	11.00	19.12	4f	C	O
48097A			.898	.076	.433	64.2	4.4	6.80	11.82	5	C	O
48098		Langrenus TB	.893	.086	.442	63.7	4.9	7.85	13.64	2	C	O
48098A			.896	.087	.435	64.1	5.0	4.10	7.13	2	C	O
48099		Langrenus TA	.894	.091	.439	63.9	5.2	5.22	9.07	2	C	O
48100		Langrenus FE	.804	.102	.586	53.9	5.9	3.58	6.22	1	pM	O
48101		Langrenus FF	.806	.114	.581	54.2	6.5	3.97	6.90	1	pM	O
48102			.800	.120	.588	53.7	6.9	2.27	3.95	3	pM	O
48105			.805	.151	.574	54.5	8.7	2.38	4.14	2	pM	O
48108			.808	.181	.561	55.2	10.4	2.27	3.95	3	pM	O
48109			.802	.196	.564	54.9	11.3	2.06	3.58	2	pM	O
48111			.816	.119	.566	55.3	6.8	2.16	3.75	2	pM	O
48113			.815	.133	.564	55.3	7.6	2.04	3.55	2	pM	O
48116			.816	.163	.555	55.8	9.4	2.16	3.75	2	pM	O
48117			.811	.176	.558	55.5	10.1	2.16	3.75	3	pM	O
48118	4691	Langrenus D	.813	.181	.553	55.8	10.4	4.77	8.29	1	pM	O
48119		Langrenus DC	.812	.199	.549	56.0	11.5	3.24	5.63	2	pM	O
48120	4692	Langrenus F	.828	.101	.552	56.3	5.8	24.76	43.04	3f	aM	O
48121			.823	.113	.557	55.9	6.5	2.16	3.75	2	pM	O
48121A			.824	.112	.555	56.0	6.4	2.38	4.14	2	pM	O
48122		Langrenus FA	.828	.130	.545	56.6	7.5	2.71	4.71	2	pM	O
48130			.835	.107	.540	57.1	6.1	4.34	7.54	2	pM	O
48140	4689	Langrenus K	.841	.101	.532	57.7	5.8	16.91	29.39	3	aM	p
48141		Langrenus KA	.844	.116	.524	58.2	6.7	3.93	6.83	2	pM	O
48165	4677	Langrenus	.863	.155	.481	60.9	8.9	75.93	131.98	2	pMC	PP
48179			.872	.196	.449	62.8	11.3	7.20	12.51	3	C	O
48179A			.877	.195	.439	63.4	11.2	6.31	10.97	3	C	O
48181			.882	.117	.456	62.6	6.7	5.71	9.92	3	C	O
48183		Langrenus R	.888	.134	.440	63.6	7.7	2.99	5.20	1	C	O
48186			.889	.168	.426	64.4	9.7	14.14	24.58	4	C	O
48189			.885	.196	.422	64.5	11.3	8.37	14.55	3	C	O
48189A			.889	.198	.413	65.1	11.4	4.69	8.15	4	C	O
48191			.893	.112	.436	64.0	6.4	9.73	16.91	4	C	O
48191A		Langrenus S	.898	.116	.424	64.7	6.7	5.10	8.86	2	C	O
48191B			.897	.113	.427	64.5	6.5	6.84	11.89	5	C	O
48193	4694	Langrenus H	.892	.139	.430	64.3	8.0	13.23	23.00	4	C	O
48194	4694A	Langrenus J	.896	.144	.420	64.9	8.3	8.84	15.37	1	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48195			+.894	-.159	+.419	+64.9	-9.1	3.89	6.76	2	C	O
48197			.897	.175	.406	65.7	10.1	18.59	32.31	5	C	O
48199			.890	.194	.413	65.1	11.2	5.72	9.94	4	C	O
48202			.804	.227	.550	55.6	13.1	2.68	4.66	2	pM	O
48202A		Langrenus V	.806	.229	.546	55.9	13.2	2.86	4.97	2	pM	O
48203			.801	.230	.553	55.4	13.3	2.06	3.58	2	pM	O
48203A			.803	.233	.549	55.7	13.5	2.49	4.33	2	pM	O
48209			.801	.297	.520	57.0	17.3	2.93	5.09	1	pM	O
48209A			.801	.299	.519	57.1	17.4	4.88	8.48	4f	aM	O
48209B			.804	.294	.517	57.3	17.1	8.12	14.11	5f	aM	O
48209C			.809	.290	.511	57.7	16.9	13.21	22.96	4f	aM	O
48211		Langrenus U	.819	.218	.531	57.1	12.6	2.06	3.58	2	pM	O
48216		Vendelinus S	.817	.265	.512	57.9	15.4	3.09	5.37	1	pM	O
48218			.811	.280	.514	57.6	16.3	3.14	5.46	4f	aMC	O
48218A			.812	.284	.510	57.9	16.5	4.57	7.94	2	C	O
48218B			.818	.283	.501	58.5	16.4	19.09	33.18	4	aMC	O
48219			.818	.291	.496	58.8	16.9	4.88	8.48	3	C	O
48220			.825	.206	.526	57.5	11.9	3.29	5.72	3	pM	O
48225		Vendelinus W	.827	.252	.503	58.7	14.6	3.03	5.27	1	pMC	O
48226			.820	.268	.506	58.3	15.5	14.00	24.33	5f	aMC	O
48227		Vendelinus U	.822	.275	.499	58.8	16.0	3.07	5.34	2	C	O
48228			.825	.284	.489	59.4	16.5	6.02	10.46	2	C	O
48229			.821	.291	.491	59.1	16.9	3.53	6.14	3	aMC	O
48229A			.821	.295	.489	59.2	17.2	5.00	8.69	3	C	O
48229B			.826	.293	.482	59.8	17.0	23.03	40.03	5	C	O
48234			.831	.244	.500	59.0	14.1	2.06	3.58	2	pMC	O
48234A			.832	.245	.498	59.1	14.2	2.38	4.14	2	C	O
48234B			.832	.248	.496	59.2	14.4	3.20	5.56	2	C	O
48234C			.835	.248	.491	59.5	14.4	9.22	16.03	4	C	O
48235			.839	.251	.483	60.1	14.5	8.22	14.29	4	C	O
48243	4697	Lohse	.843	.237	.483	60.2	13.7	24.03	41.77	2	C	P
48245			.842	.254	.476	60.5	14.7	4.78	8.31	2	pMC	O
48246	4704	Vendelinus H	.847	.263	.462	61.4	15.2	4.17	7.25	1	pMC	O
48248	4696	Vendelinus	.846	.280	.454	61.8	16.3	84.61	147.06	3f	aMC	O
48249		Vendelinus Z	.846	.295	.444	62.3	17.2	3.95	6.87	1	pMC	O
48250		Langrenus Q	.853	.207	.479	60.7	11.9	6.99	12.15	2	C	O
49252	4695	Langrenus E	.850	.220	.479	60.6	12.7	17.12	29.76	3	C	O
48253			.854	.238	.463	61.6	13.8	5.24	9.11	3	C	O
48254			.851	.240	.467	61.2	13.9	5.03	8.74	4	C	O
48259			.859	.292	.421	63.9	17.0	9.40	16.34	3	C	O
48261	4695A	Langrenus L	.861	.228	.455	62.2	13.2	6.70	11.65	2	C	O
48262			.867	.221	.447	62.7	12.8	7.90	13.73	5	C	O
48263		Vendelinus T	.865	.233	.444	62.8	13.5	2.88	5.01	2	C	O
48263A		Vendelinus K	.861	.239	.449	62.5	13.8	5.22	9.07	3	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48265			+.860	-.258	+.440	+62.9	-15.0	3.11	5.41	2	C	O
48265A			.860	.259	.440	62.9	15.0	17.58	30.56	4	C	O
48265B			.867	.252	.430	63.6	14.6	3.56	6.19	2	C	O
48267			.861	.273	.429	63.5	15.8	16.50	28.68	5	C	O
48270		Langrenus P	.872	.209	.443	63.1	12.1	24.20	42.06	3	C	O
48271			.871	.218	.440	63.2	12.6	5.20	9.04	4	C	O
48271A			.879	.219	.424	64.3	12.7	20.00	34.76	4	C	O
48273		Lamé K	.876	.230	.424	64.2	13.3	4.73	8.22	1	C	O
48274			.877	.249	.411	64.9	14.4	3.22	5.60	1	C	O
48275	(4699)	Lamé	.873	.254	.416	64.5	14.7	48.55	84.39	3	C	P
48276	(4702A)	Lamé G	.877	.266	.400	65.5	15.4	14.95	25.99	3	C	P
48276A			.877	.263	.402	65.4	15.2	3.50	6.08	2	C	O
48277		Lamé Z	.878	.274	.392	65.9	15.9	9.79	17.02	3	C	O
48277A			.879	.278	.387	66.2	16.1	3.22	5.60	3	C	O
48278	(4699A)	Vendelinus N	.874	.289	.391	65.9	16.8	10.39	18.06	3	C	O
48278A	(4699A)		.876	.283	.391	66.0	16.4	11.34	19.71	3	C	O
48279		Vendelinus NA	.875	.295	.384	66.3	17.2	3.19	5.54	1	C	O
48281	4706	Langrenus X	.883	.214	.418	64.7	12.4	14.12	24.54	1	C	O
48281A	4703	Langrenus G	.889	.210	.407	65.4	12.1	13.06	22.70	2	C	O
48282		Lamé W	.889	.226	.398	65.9	13.1	3.32	5.77	1	C	O
48283			.888	.238	.393	66.1	13.8	2.93	5.09	3	C	O
48284	(4705)	Lamé J	.883	.247	.399	65.7	14.3	10.38	18.04	3	C	O
48284A			.883	.242	.402	65.5	14.0	15.29	26.58	4	C	O
48285			.880	.255	.401	65.5	14.8	12.46	21.66	4	C	O
48285A			.884	.252	.394	66.0	14.6	3.95	6.87	3	C	O
48286			.884	.260	.389	66.3	15.1	5.08	8.83	2	C	O
48287	(4699B)	Lamé M	.883	.272	.383	66.6	15.8	7.51	13.05	1	C	O
48287A			.889	.271	.369	67.5	15.7	3.35	5.82	3	C	O
48290			.898	.200	.392	66.4	11.5	4.50	7.82	2	C	O
48291		Lamé T	.896	.216	.388	66.6	12.5	6.11	10.62	1	C	O
48291A			.899	.214	.382	67.0	12.4	3.80	6.60	2	C	O
48292			.895	.220	.388	66.6	12.7	2.50	4.35	2	C	O
48292A		Lamé N	.898	.222	.380	67.1	12.8	4.90	8.52	1	C	O
48293		Lamé F	.890	.238	.389	66.4	13.8	5.56	9.66	2	C	O
48294		Lamé E	.892	.240	.383	66.8	13.9	6.32	10.99	2	C	O
48296			.893	.267	.362	67.9	15.5	2.98	5.18	3	C	O
48297			.891	.278	.359	68.1	16.1	2.59	4.50	2	C	O
48297A			.892	.270	.363	67.9	15.7	3.37	5.86	2	C	O
48297B		Lamé H	.893	.273	.358	68.2	15.8	7.05	12.25	3	C	O
48297C			.894	.278	.351	68.5	16.1	2.96	5.14	2	C	O
48298			.898	.284	.336	69.5	16.5	2.68	4.66	2	C	O
48298A			.899	.281	.336	69.5	16.3	4.01	6.97	3	C	O
48298B			.892	.288	.348	68.7	16.7	3.56	6.19	3	C	O
48299			.897	.294	.330	69.8	17.1	2.73	4.75	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48299A			+.898	-.296	+.326	+70.1	-17.2	3.67	6.38	2	C	O
48302		Vendelinus D	.804	.325	.498	58.2	19.0	5.54	9.63	3	C	O
48315		Holden R	.819	.353	.452	61.1	20.7	10.06	17.49	3	C	O
48316			.813	.362	.456	60.7	21.2	10.05	17.47	5	C	O
48320			.825	.309	.473	60.2	18.0	3.02	5.25	2	C	O
48320A			.822	.307	.480	59.7	17.9	5.65	9.82	3	C	O
48322		Holden W	.820	.325	.471	60.1	19.0	6.80	11.82	2	C	O
48322A		Holden WA	.822	.320	.471	60.2	18.7	2.99	5.20	2	C	O
48322B			.829	.321	.458	61.1	18.7	3.77	6.55	3	C	O
48324		Holden S	.824	.348	.447	61.5	20.4	8.83	15.35	2	C	O
48324A			.830	.345	.438	62.2	20.2	3.35	5.82	3	C	O
48327			.824	.370	.429	62.5	21.7	3.34	5.81	2	C	O
48330	4701	Vendelinus E	.832	.308	.461	61.0	17.9	12.00	20.86	2f	C	O
48330A	4701A	Vendelinus L	.840	.302	.451	61.8	17.6	9.77	16.98	3f	C	O
48330B			.832	.303	.465	60.8	17.6	3.01	5.23	3	C	O
48330C			.834	.304	.460	61.1	17.7	3.77	6.55	3	C	O
48331		Holden V	.838	.318	.443	62.1	18.5	5.79	10.06	1	C	O
48332	4698	Holden	.838	.328	.436	62.5	19.1	27.08	47.07	2f	C	O
48332A			.830	.320	.457	61.2	18.7	2.93	5.09	2	C	O
48333			.838	.330	.435	62.6	19.3	2.41	4.19	2	C	O
48335			.832	.358	.424	63.0	21.0	3.74	6.50	2	C	O
48335A			.838	.355	.414	63.7	20.8	2.94	5.11	2	C	O
48336			.833	.361	.419	63.3	21.2	5.62	9.77	3	C	O
48336A			.831	.369	.416	63.4	21.7	4.19	7.28	3	C	O
48340		Vendelinus Y	.843	.301	.446	62.1	17.5	5.96	10.36	3	C	O
48349			.845	.395	.360	66.9	23.3	4.45	7.73	1	C	O
48351	4702	Vendelinus F	.859	.317	.402	64.9	18.5	18.19	31.62	2f	C	O
48352		Holden T	.851	.325	.413	64.1	19.0	5.16	8.97	2	C	O
48360			.864	.301	.404	65.0	17.5	2.68	4.66	3	C	O
48360A			.869	.308	.387	66.0	17.9	22.49	39.09	4f	C	O
48361			.866	.310	.392	65.6	18.1	2.73	4.75	3	C	O
48362			.864	.326	.384	66.1	19.0	20.81	36.17	5f	C	O
48363			.865	.332	.376	66.5	19.4	4.01	6.97	2	C	O
48364			.866	.346	.361	67.4	20.2	3.35	5.82	2	C	O
48364A		Balmer P	.867	.349	.356	67.7	20.4	7.70	13.38	3	C	O
48367			.863	.377	.336	68.7	22.1	3.13	5.44	3	C	O
48367A			.866	.373	.333	69.0	21.9	2.83	4.92	3	C	O
48369	4740	Phillips B	.867	.396	.302	70.8	23.3	23.18	40.29	3f	C	O
48370		Vendelinus P	.874	.301	.381	66.4	17.5	9.40	16.34	1	C	O
48371		Balmer S	.877	.316	.362	67.6	18.4	3.40	5.91	2	C	O
48373			.870	.332	.365	67.3	19.4	2.95	5.13	2	C	O
48373A			.874	.332	.355	67.9	19.4	9.01	15.66	4f	C	O
48374			.872	.343	.349	68.2	20.1	3.56	6.19	3	C	O
48374A			.872	.348	.344	68.5	20.4	3.35	5.82	3	C	O
48375			.872	.353	.339	68.7	20.7	34.92	60.70	5f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48378			+.875	-.383	+.296	+71.3	-22.5	9.51 14.40	16.53 25.03	3	C	O
48379			.873	.395	.286	71.9	23.3	6.06	10.53	3	C	O
48380			.887	.300	.351	68.4	17.5	3.82	6.64	2	C	O
48380A			.889	.300	.346	68.7	17.5	3.21	5.58	2	C	O
48382		Balmer R	.885	.320	.338	69.1	18.7	2.55	4.43	2	C	O
48384		Balmer N	.883	.341	.323	69.9	19.9	4.35	7.56	1	C	O
48384A		Balmer	.886	.343	.312	70.6	20.1	64.31	111.78	4f	C	O
48385		Balmer M	.887	.354	.297	71.5	20.7	2.99	5.20	2	C	O
48391		Balmer Q	.894	.319	.315	70.6	18.6	3.86	6.71	2	C	O
48394			.892	.344	.293	71.8	20.1	3.15	5.48	3	C	O
48394A			.892	.346	.291	71.9	20.2	2.73	4.75	3	C	O
48394B			.894	.342	.289	72.1	20.0	3.15	5.48	2	C	O
48397			.899	.376	.225	76.0	22.1	29.77	51.74	4	C	O
48407			.807	.470	.358	66.1	28.0	4.23	7.35	3	C	O
48408			.804	.489	.338	67.2	29.3	3.75	6.52	2	C	O
48409			.802	.491	.340	67.0	29.4	3.12	5.42	2	C	O
48409A			.806	.491	.331	67.7	29.4	3.75	6.52	3	C	O
48415	4631	Palitzsch A	.813	.453	.366	65.8	26.9	17.80	30.94	3	C	O
48416			.819	.469	.331	68.0	28.0	3.53	6.14	2	C	O
48418			.812	.484	.326	68.1	28.9	10.60	18.42	2	C	O
48420	4649	Petavius D	.824	.407	.394	64.4	24.0	9.85	17.12	3	C	O
48422			.820	.425	.383	64.9	25.2	5.70	9.91	2	C	O
48425			.821	.450	.351	66.8	26.7	2.92	5.08	3	C	O
48428	4715	Legendre	.824	.483	.296	70.2	28.9	45.38	78.88	3	C	pp
48428A			.827	.481	.291	70.6	28.8	3.75	6.52	2	C	O
48429		Legendre K	.829	.497	.256	72.8	29.8	51.72	89.90	4	C	O
48429A			.823	.495	.279	71.3	29.7	2.29	3.98	2	C	O
48433		Phillips E	.838	.432	.333	68.3	25.6	4.77	8.29	2	C	O
48434	4632	Palitzsch B	.833	.445	.329	68.5	26.4	22.22	38.62	2	C	p
48435		Legendre P	.832	.459	.312	69.5	27.3	3.98	6.92	3	C	O
48435A			.838	.459	.295	70.6	27.3	22.80	39.63	4	C	O
48436		Legendre N	.837	.462	.293	70.7	27.5	4.34	7.54	1	C	O
48437		Legendre M	.838	.474	.270	72.1	28.3	4.58	7.96	2	C	O
48438			.830	.485	.275	71.6	29.0	2.91	5.06	2	C	O
48438A			.832	.481	.276	71.6	28.8	4.16	7.23	2	C	O
48440			.841	.400	.364	66.6	23.6	4.77	8.29	3	C	O
48441		Phillips G	.849	.416	.326	69.0	24.6	4.45	7.73	2	C	O
48442		Phillips F	.845	.425	.325	69.0	25.2	6.26	10.88	1	C	O
48444		Phillips C	.848	.448	.283	71.5	26.6	3.46	6.01	2	C	O
48446			.841	.463	.280	71.6	27.6	17.29	30.05	4	C	O
48447		Legendre L	.847	.473	.243	74.0	28.2	17.11	29.74	3	C	O
48449			.840	.492	.229	74.8	29.5	25.25	43.89	3	C	?
48450			.853	.401	.334	68.6	23.6	3.77	6.55	2	C	O
48450A			.857	.408	.315	69.8	24.1	19.22	33.41	5	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48451			+.853	-.418	+.313	+69.9	-24.7	4.03	7.00	2	C	O
48452		Phillips D	.857	.424	.293	71.1	25.1	35.10	61.01	4	C	O
48452A		Phillips H	.858	.427	.285	71.6	25.3	3.83	6.66	2	C	O
48455	4742	Phillips A	.855	.456	.247	73.9	27.1	7.65	13.30	1	C	O
48456			.852	.462	.246	73.9	27.5	17.80	30.94	5	C	O
48457			.857	.470	.211	76.1	28.0	36.93	64.19	5	C	?
48460			.861	.408	.304	70.6	24.1	3.95	6.87	2	C	O
48462		Phillips W	.864	.427	.267	72.8	25.3	36.44	63.34	4	C	O
48464	4741	Phillips	.868	.447	.216	76.0	26.6	58.08	100.95	3	C	p?
48472			.877	.421	.232	75.2	24.9	5.91	10.27	3	C	O
48475	4729	Humboldt	.878	.457	.142	80.8	27.2	115.83	201.33	2	C	PP
48483	4739	Humboldt N	.886	.440	.146	80.6	26.1	6.50	11.30	1	C	O
48493			.896	.435	.089	84.3	25.8	23.33	40.55	2	C	R
48500			.805	.502	.316	68.6	30.1	4.16	7.23	2	C	O
48500A			.805	.504	.313	68.8	30.3	4.16	7.23	2	C	O
48500B			.806	.506	.307	69.1	30.4	3.75	6.52	2	C	O
48500C			.808	.503	.307	69.2	30.2	3.33	5.79	2	C	O
48501			.807	.514	.291	70.2	30.9	4.99	8.67	2	C	O
48502			.801	.529	.280	70.7	31.9	2.62	4.55	2	C	O
48502A			.809	.521	.272	71.4	31.4	7.95	13.82	3	C	O
48502B			.805	.522	.282	70.7	31.5	6.66	11.58	3	C	O
48503	4724A	Adams D	.800	.538	.266	71.6	32.5	23.87	41.49	2	C	O
48504			.806	.543	.236	73.7	32.9	4.08	7.09	3	C	O
48505		Legendre F	.808	.556	.195	76.4	33.8	22.87	39.75	2	C	p
48506			.802	.567	.188	76.8	34.5	17.67	30.71	3	C	O
48509		Abel A	.801	.596	.056	86.0	36.6	11.10	19.29	3f	C	O
48510			.810	.507	.295	70.0	30.5	2.50	4.35	2	C	O
48510A			.815	.506	.282	70.9	30.4	4.35	7.56	2	C	O
48511			.810	.510	.289	70.3	30.7	14.33	24.91	2	C	O
48511A			.812	.513	.278	71.1	30.9	10.40	18.08	4	C	O
48512			.815	.524	.247	73.1	31.6	6.75	11.73	3	C	O
48512A			.810	.528	.255	72.5	31.9	15.57	27.06	3	C	O
48513		Legendre G	.813	.534	.232	74.1	32.3	8.70	15.12	2	C	O
48514			.814	.544	.204	76.0	33.0	22.20	38.59	4	C	O
48514A			.812	.543	.214	75.2	32.9	12.63	21.95	4	C	O
48515	4725A	Legendre E	.815	.557	.160	78.9	33.8	15.84	27.53	2	C	O
48516		Abel L	.818	.565	.108	82.5	34.4	29.02	50.44	3	C	R
48521		Legendre J	.828	.512	.229	74.6	30.8	9.46	16.44	3	C	O
48522	4725	Legendre D	.825	.523	.218	75.2	31.5	33.41	58.07	3	C	pp
48522A			.828	.529	.186	77.3	31.9	32.82	57.05	3	C	O
48522B			.821	.522	.231	74.3	31.5	7.58	13.18	3	C	O
48523A		Legendre H	.827	.538	.163	78.8	32.5	4.13	7.18	1	C	O
48524			.823	.548	.150	79.7	33.2	12.07	20.98	3	C	O
48526		Abel	.820	.567	.078	84.6	34.5	66.57	115.71	3f	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
48531			+.835	-.516	+.191	+77.1	-31.1	11.43	19.87	4	C	O
48532			.835	.525	.165	78.8	31.7	8.12	14.11	3	C	O
48533			.833	.533	.148	79.9	32.2	8.62	14.98	3	C	O
48540			.845	.506	.173	78.4	30.4	27.28	47.42	3	C	p
48540A			.840	.500	.211	75.9	30.0	24.79	43.09	4	C	O
48541			.841	.511	.178	78.1	30.7	12.65	21.99	3	C	O
48542			.843	.523	.126	81.5	31.5	8.40	14.60	3	C	O
48542A		Barnard A	.846	.527	.081	84.5	31.8	7.49	13.02	3	C	O
48543			.840	.532	.107	82.8	32.1	42.90	74.57	3	C	O
48543A			.843	.533	.073	85.1	32.2	6.24	10.85	2	C	O
48552			.853	.522	.000	90.0	31.5	7.31	12.71	3	C	O
48560		Barnard	.862	.503	.063	85.8	30.2	69.04	120.00	3	C	p
49003			.904	.037	.426	64.8	2.1	8.93	15.52	5	C	O
49003A		Maclaurin T	.909	.032	.416	65.4	1.8	20.20	35.11	3f	C	O
49004	4669	Maclaurin R	.903	.048	.427	64.7	2.8	8.29	14.41	1	C	O
49004A			.901	.041	.432	64.4	2.3	2.50	4.35	2	C	O
49005			.900	.055	.432	64.3	3.2	4.70	8.17	2	C	O
49005A		Maclaurin EB	.904	.059	.423	64.9	3.4	5.33	9.26	2	C	O
49005B		Maclaurin EA	.906	.056	.420	65.2	3.2	4.16	7.23	2	C	O
49006	4664	Maclaurin E	.909	.061	.412	65.6	3.5	11.35	19.73	3	C	O
49006A			.909	.068	.411	65.7	3.9	3.35	5.82	1	C	O
49007			.901	.072	.428	64.6	4.1	10.78	18.74	5	C	O
49007A			.905	.070	.420	65.1	4.0	3.32	5.77	2	C	O
49007B			.904	.074	.421	65.0	4.2	2.72	4.73	2	C	O
49007C			.907	.070	.415	65.4	4.0	3.25	5.65	3	C	O
49008			.902	.083	.424	64.8	4.8	3.47	6.03	3	C	O
49008A			.904	.089	.418	65.2	5.1	7.09	12.32	3	C	p?
49008B			.908	.086	.410	65.7	4.9	7.49	13.02	4	C	O
49012			.913	.021	.407	66.0	1.2	2.79	4.85	3	C	O
49012A		Maclaurin TA	.913	.026	.407	66.0	1.5	5.41	9.40	2	C	O
49012B			.914	.028	.405	66.1	1.6	5.04	8.76	2	C	O
49012C			.918	.020	.396	66.7	1.1	7.31	12.71	4f	aMC	O
49013			.919	.037	.393	66.9	2.1	10.29	17.89	3	C	O
49014			.918	.043	.394	66.8	2.5	6.39	11.11	3	C	O
49014A			.912	.043	.408	65.9	2.5	3.99	6.94	2	C	O
49015			.911	.050	.409	65.8	2.9	4.01	6.97	2	C	O
49015A			.913	.053	.405	66.1	3.0	12.04	20.93	5	C	O
49016		Maclaurin U	.913	.068	.402	66.2	3.9	10.66	18.53	2	C	O
49017		Maclaurin EC	.910	.073	.408	65.8	4.2	8.51	14.79	2	C	O
49017A			.911	.077	.405	66.0	4.4	2.67	4.64	2	C	O
49017B			.915	.072	.397	66.5	4.1	3.90	6.78	3	C	O
49017C			.917	.072	.392	66.8	4.1	4.01	6.97	3	C	O
49018			.915	.084	.395	66.7	4.8	25.85	44.93	4	C	p?
49020	4668A	Maclaurin O	.925	.005	.380	67.7	0.3	30.56	53.12	4f	aMC	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
49020A			+.926	-.004	+.378	+67.8	-0.2	4.01	6.97	1	pMC	o
49021	(4666B)	Maclaurin K	.920	.016	.392	66.9	0.9	19.26	33.48	4f	aMC	o
49021A			.924	.017	.382	67.5	1.0	7.18	12.48	3	C	o
49023	4660	Maclaurin	.927	.033	.374	68.0	1.9	28.90	50.23	3	C	p
49024			.923	.048	.382	67.5	2.8	5.17	8.99	3	C	o
49024A			.926	.047	.375	68.0	2.7	5.90	10.26	2	C	o
49025	4661	Maclaurin A	.923	.053	.381	67.6	3.0	16.85	29.29	3	C	p
49026	4668	Maclaurin N	.928	.066	.367	68.4	3.8	16.48	28.64	3	C	o
49027		Maclaurin MA	.927	.078	.367	68.4	4.5	6.43	11.18	1	C	o
49028			.922	.083	.378	67.7	4.7	5.62	9.77	3	C	o
49028A			.926	.089	.367	68.4	5.1	3.34	5.81	3	C	o
49030			.933	.004	.360	68.9	0.2	6.60	11.47	4	C	o
49031		Maclaurin CA	.933	.011	.360	68.9	0.6	9.19	15.97	3	C	o
49032			.933	.029	.359	69.0	1.7	3.91	6.80	2	C	o
49032A		Maclaurin C	.937	.020	.349	69.6	1.1	14.86	25.83	3f	C	o
49033A	(4666)		.935	.036	.353	69.3	2.1	15.53	26.99	4	C	o
49033B			.938	.039	.344	69.8	2.2	4.74	8.24	2	C	o
49033C			.931	.032	.364	68.7	1.8	6.78	11.78	2	C	o
49034	(4666)	Maclaurin J	.935	.043	.352	69.4	2.5	9.43	16.39	2	C	o
49034A			.938	.044	.344	69.9	2.5	2.69	4.68	2	C	o
49034B			.938	.048	.343	69.9	2.8	4.29	7.46	2	C	o
49035			.932	.057	.358	69.0	3.3	4.18	7.27	1	C	o
49035A		Maclaurin MC	.935	.059	.350	69.5	3.4	4.00	6.95	1	C	o
49035B			.939	.050	.340	70.1	2.9	2.10	3.65	2	C	o
49037			.930	.076	.360	68.9	4.4	9.44	16.41	4	C	o
49037A		Maclaurin MB	.931	.070	.358	69.0	4.0	5.68	9.87	2	C	o
49037B			.937	.077	.341	70.0	4.4	6.96	12.10	4	C	o
49038A			.935	.089	.343	69.8	5.1	4.55	7.91	2	C	o
49038B	4667	Maclaurin M	.930	.084	.358	69.0	4.8	24.08	41.85	5	C	?
49042			.943	.025	.332	70.6	1.4	14.36	24.96	4	C	o
49042A	4665A	Maclaurin L	.949	.024	.314	71.7	1.4	17.09	29.70	2	C	?
49043			.940	.032	.340	70.1	1.8	5.96	10.36	3	C	o
49043A			.941	.034	.337	70.3	1.9	3.95	6.87	2	C	o
49043B		Maclaurin LA	.943	.037	.331	70.7	2.1	8.29	14.41	2	C	o
49044			.940	.045	.338	70.2	2.6	4.46	7.75	3	C	o
49045			.940	.052	.337	70.3	3.0	4.55	7.91	2	C	o
49046	4662	Maclaurin B	.946	.063	.318	71.4	3.6	24.52	42.62	3	C	o
49046A			.946	.066	.317	71.5	3.8	4.98	8.66	1	C	o
49047			.943	.073	.325	71.0	4.2	4.19	7.28	1	C	o
49050			.950	.001	.312	71.8	0.1	12.64	21.97	3	C	p
49050A			.955	.000	.297	72.7	0.0	2.30	4.00	2	C	o
49051			.951	.014	.309	72.0	0.8	4.41	7.67	3	C	o
49052			.956	.027	.292	73.0	1.5	22.01 17.09	38.26 29.70	3	C	o
49053			.952	.032	.304	72.3	1.8	5.23	9.09	3	C	o

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
49053A			+.953	-.037	+.301	+72.5	-2.1	7.36	12.79	4	C	O
49053B			.957	.035	.288	73.3	2.0	7.64	13.28	4	C	O
49055			.957	.052	.285	73.4	3.0	38.76	67.37	5	C	O
49056			.957	.064	.283	73.5	3.7	4.94	8.59	2	C	O
49056A			.956	.068	.285	73.4	3.9	22.91	39.82	5	C	O
49057		Gilbert J	.952	.075	.297	72.7	4.3	21.71	37.74	3	C	P
49059			.953	.095	.288	73.2	5.5	21.56	37.47	3	C	O
49059A		Gilbert K	.958	.097	.270	74.3	5.6	3.21	5.58	2	C	O
49060			.961	.002	.277	73.9	0.1	10.99	19.10	3	C	O
49060A			.965	.008	.262	74.8	0.5	5.55	9.65	3	C	O
49061	(4788A)	Gilbert P	.969	.014	.247	75.7	0.8	11.00	19.12	1	C	O
49063	(4788B)	Gilbert S	.968	.030	.249	75.6	1.7	9.19	15.97	2	C	O
49064			.960	.040	.277	73.9	2.3	8.31	14.44	4	C	O
49065		Gilbert	.969	.055	.241	76.0	3.2	61.75	107.33	3	C	O
49066			.960	.065	.272	74.2	3.7	4.01	6.97	1	C	O
49068			.967	.086	.240	76.1	4.9	32.60	56.66	4	C	?
49072	(4788)	Gilbert N	.976	.022	.217	77.5	1.3	18.38	31.95	2	C	O
49073	(4787)	Gilbert M	.979	.032	.201	78.4	1.8	18.00	31.29	1	C	O
49074	(4785)	Gilbert D	.971	.044	.235	76.4	2.5	9.39	16.32	1	C	O
49077	4782	Kästner A	.973	.076	.218	77.4	4.4	14.62	25.41	2	C	O
49080		Schubert J	.983	.002	.184	79.4	0.1	11.57	20.11	2	C	O
49082A		Gilbert W	.982	.020	.188	79.2	1.1	11.34	19.71	1	C	O
49082B		Gilbert V	.984	.022	.177	79.8	1.3	7.35	12.78	1	C	O
49082C		Gilbert U	.987	.021	.159	80.8	1.2	7.81	13.57	2	pMC	O
49086	4786B	Kästner G	.981	.061	.184	79.4	3.5	54.06	93.96	4f	C	O
49091A			.990	.012	.141	81.9	0.7	65.86	114.47	4f	C	O
49101			.900	.110	.422	64.9	6.3	3.98	6.92	3	C	O
49102		Langrenus Z	.909	.124	.398	66.4	7.1	11.64	20.23	3	C	O
49104			.909	.144	.391	66.7	8.3	4.98	8.66	3	C	O
49105	4690A	Langrenus N	.900	.156	.407	65.7	9.0	6.69	11.63	2	C	O
49106	4690	Langrenus M	.903	.170	.395	66.4	9.8	9.83	17.09	1	C	O
49106A		Langrenus MA	.908	.166	.385	67.0	9.6	4.01	6.97	2	C	O
49108	4686	Langrenus A	.906	.184	.381	67.2	10.6	24.59	42.74	2	C	P
49110		Maclaurin Y	.914	.105	.392	66.8	6.0	8.53	14.83	1	C	O
49110A			.919	.104	.380	67.5	6.0	10.47	18.20	4	C	?
49110B			.919	.100	.381	67.5	5.7	3.57	6.21	2	C	O
49111		Maclaurin GA	.912	.114	.394	66.6	6.5	5.58	9.70	1	C	O
49111A			.914	.118	.388	67.0	6.8	4.06	7.06	2	C	O
49112			.912	.127	.390	66.8	7.3	3.88	6.74	2	C	O
49112A	4693	Maclaurin G	.913	.122	.389	66.9	7.0	7.04	12.24	3	C	O
49113		Langrenus Y	.911	.136	.389	66.9	7.8	15.46	26.87	3	C	O
49113A			.912	.130	.389	66.9	7.5	4.34	7.54	3	C	O
49113B			.915	.130	.382	67.3	7.5	6.21	10.79	4	C	O
49114		Langrenus W	.912	.149	.382	67.3	8.6	13.19	22.93	3	C	p

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
49114A			+.915	-.144	+.377	+67.6	-8.3	2.90	5.04	2	C	O
49116			.917	.162	.365	68.3	9.3	14.86	25.83	5	C	p?
49120			.927	.103	.361	68.7	5.9	3.15	5.48	2	C	O
49121			.928	.115	.354	69.1	6.6	3.14	5.46	2	C	O
49121A			.928	.119	.353	69.2	6.8	3.98	6.92	3	C	O
49122		Maclaurin DB	.925	.127	.358	68.8	7.3	7.92	13.77	3	C	O
49122A		Maclaurin DA	.929	.128	.347	69.5	7.4	8.47	14.72	1	C	O
49123			.926	.131	.354	69.1	7.5	2.67	4.64	2	C	O
49124			.924	.146	.353	69.1	8.4	9.44	16.41	3	C	O
49125		Kapteyn E	.924	.153	.350	69.2	8.8	17.55	30.50	3	C	O
49126			.926	.160	.342	69.7	9.2	3.27	5.68	2	C	O
49126A			.926	.165	.340	69.9	9.5	4.01	6.97	4	C	O
49127			.924	.174	.341	69.8	10.0	13.04	22.67	4	C	O
49128	(4769)	Kapteyn	.927	.186	.326	70.6	10.7	28.36	49.29	1	C	P
49130	4667A	Maclaurin P	.931	.105	.350	69.4	6.0	17.05	29.64	3f	C	O
49130A			.939	.100	.329	70.7	5.7	25.72	44.71	4	C	pp?
49131			.932	.115	.344	69.8	6.6	11.00	19.12	4f	C	O
49131A			.935	.118	.334	70.3	6.8	3.56	6.19	2	C	O
49132	4663	Maclaurin D	.932	.123	.341	69.9	7.1	5.73	9.96	1	C	O
49132A			.938	.128	.322	71.0	7.4	12.00	20.86	3	C	O
49132B			.939	.120	.322	71.1	6.9	2.13	3.70	2	C	O
49133			.933	.130	.336	70.2	7.5	3.61	6.27	3	C	O
49133A			.934	.131	.332	70.4	7.5	4.01	6.97	3	C	O
49134			.932	.149	.330	70.5	8.6	3.62	6.29	1	C	O
49137			.934	.178	.310	71.7	10.3	2.94	5.11	2	C	O
49139		Kapteyn Z	.936	.194	.294	72.6	11.2	3.56	6.19	1	C	O
49139A			.930	.193	.313	71.4	11.1	4.82	8.38	3	C	O
49143	4665	Maclaurin F	.942	.135	.307	71.9	7.8	22.31	38.78	2	C	p
49148			.946	.186	.265	74.3	10.7	4.01	6.97	3	C	O
49149	4773	La Pérouse F	.943	.193	.271	74.0	11.1	21.38	37.16	5	C	O
49149A			.946	.192	.261	74.6	11.1	6.75	11.73	2	C	O
49151			.957	.110	.268	74.3	6.3	4.01	6.97	2	C	O
49158	4767	La Pérouse	.956	.185	.228	76.6	10.7	44.69	77.68	2	C	P
49159		La Pérouse D	.954	.193	.229	76.5	11.1	4.01	6.97	2	C	O
49163	4784	Kästner C	.965	.137	.224	77.0	7.9	11.00	19.12	2	C	O
49164	(4786)	Kästner E	.968	.140	.208	77.9	8.0	6.00	10.43	2	C	O
49165			.968	.158	.195	78.6	9.1	17.83	30.99	4	C	p?
49167	4772	La Pérouse E	.965	.177	.194	78.7	10.2	15.98	27.78	2	C	O
49169		Ansgarius M	.964	.195	.181	79.4	11.2	4.17	7.25	2	C	O
49171	4778	Kästner	.974	.119	.193	78.8	6.8	68.41	118.91	3f	C	O
49174			.977	.146	.155	81.0	8.4	9.91	17.23	3	C	?
49174A			.979	.142	.146	81.5	8.2	26.02	45.23	3	C	O
49176	4786A	Kästner F	.974	.160	.160	80.6	9.2	9.21	16.01	1	C	O
49176A			.979	.165	.120	83.0	9.5	11.15	19.38	2	C	O

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
49180	4783	Kästner B	+.981	-.108	+.161	+80.7	-6.2	9.85	17.12	2	C	O
49180A		Kästner BA	.983	.103	.152	81.2	5.9	7.00	12.17	2	C	O
49181		Kästner R	.983	.118	.141	81.9	6.8	6.70	11.65	2	C	O
49181A			.987	.110	.117	83.2	6.3	36.06	62.68	4f	aMC	O
49183A			.988	.137	.071	85.9	7.9	5.58	9.70	2	C	O
49183B			.984	.138	.113	83.5	7.9	15.22	26.45	3	C	O
49186			.985	.166	.047	87.3	9.6	9.29	16.15	2	C	O
49200			.908	.203	.367	68.0	11.7	10.47	18.20	4	C	O
49200A			.907	.200	.371	67.8	11.5	2.73	4.75	1	C	O
49201			.908	.211	.362	68.3	12.2	2.94	5.11	2	C	O
49204		Lamé L	.902	.248	.353	68.6	14.4	3.62	6.29	2	C	O
49205			.902	.258	.346	69.0	15.0	131.06	227.80	5f	C	O
49210			.910	.204	.361	68.4	11.8	2.94	5.11	3	C	O
49213		Kapteyn C	.916	.230	.329	70.3	13.3	27.58	47.94	3f	C	O
49213A			.910	.235	.342	69.4	13.6	2.10	3.65	3	C	O
49213B			.919	.230	.320	70.8	13.3	2.31	4.02	3	C	O
49214	(4761)	Kapteyn A	.918	.245	.312	71.2	14.2	17.63	30.64	2	C	O
49214A		Kapteyn F	.912	.248	.327	70.3	14.4	5.08	8.83	2	C	O
49215		Kapteyn D	.913	.251	.322	70.6	14.5	6.76	11.75	2	C	O
49216	(4754)	Kapteyn B	.911	.268	.313	71.0	15.5	22.56	39.21	2	C	p
49216A			.910	.263	.321	70.6	15.2	4.19	7.28	2	C	O
49216B			.919	.261	.295	72.2	15.1	2.31	4.02	2	C	O
49219			.914	.296	.277	73.1	17.2	2.38	4.14	1	C	O
49222		Kapteyn K	.926	.224	.304	71.8	12.9	4.64	8.07	2	C	O
49223			.920	.232	.316	71.1	13.4	3.24	5.63	2	C	O
49223A			.925	.230	.302	71.9	13.3	2.94	5.11	3	C	O
49224			.929	.246	.276	73.4	14.2	7.45	12.95	3	C	O
49225			.920	.258	.295	72.2	15.0	2.52	4.38	2	C	O
49227	(4756)	Behaim N	.922	.277	.271	73.6	16.1	5.18	9.00	1	C	O
49228			.923	.288	.255	74.5	16.7	13.87	24.11	3	C	p?
49234			.933	.240	.268	74.0	13.9	4.11	7.14	2	C	O
49235	4762A	Ansgarius C	.934	.255	.250	75.0	14.8	7.91	13.75	1	C	O
49235A			.932	.250	.262	74.3	14.5	23.31	40.52	4f	C	O
49236			.931	.260	.256	74.6	15.1	2.52	4.38	3	C	O
49237	4755	Behaim B	.935	.278	.220	76.7	16.1	14.06	24.44	3	C	p
49237A			.938	.276	.210	77.4	16.0	3.80	6.60	2	C	O
49238		Behaim BA	.932	.282	.228	76.3	16.4	7.77	13.51	2	C	O
49238A		Behaim C	.936	.288	.202	77.8	16.7	7.67	13.33	2	C	O
49239			.937	.291	.193	78.3	16.9	10.06	17.49	4	C	O
49241			.948	.210	.239	75.8	12.1	3.15	5.48	2	C	O
49242		Ansgarius P	.945	.225	.237	75.9	13.0	5.66	9.84	2	C	O
49242A			.947	.229	.225	76.6	13.2	19.33	33.60	3	C	O
49244			.948	.248	.199	78.1	14.4	20.79	36.14	4	C	O
49248	4753	Behaim	.943	.285	.172	79.7	16.6	32.17	55.92	2	C	P
49252	4760	Ansgarius	.959	.220	.179	79.4	12.7	53.81	93.53	2	C	p?

Ref.	B & M	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
49254			+.958	-.248	+.144	+81.5	-14.4	58.59	101.84	4	C	?
49257		Behaim T	.952	.274	.136	81.8	15.9	6.10	10.60	3	C	O
49258		Behaim S	.950	.280	.138	81.7	16.3	13.42	23.33	2	C	O
49258A			.957	.284	.059	86.5	16.5	12.40	21.55	2	C	?
49258B			.951	.286	.117	83.0	16.6	28.10	48.84	4	C	?
49259			.953	.296	.065	86.1	17.2	12.90	22.42	2	C	?
49259A			.955	.296	.019	88.9	17.2	13.40	23.29	2	C	?
49260		Ansgarius N	.967	.206	.150	81.2	11.9	4.41	7.67	2	C	O
49270	4762	Ansgarius B	.971	.202	.128	82.5	11.7	19.33	33.60	3	C	O
49301	4751A	Hecataeus E	.906	.317	.280	72.8	18.5	7.26	12.62	1	C	O
49301A			.909	.314	.274	73.2	18.3	3.15	5.48	1	C	O
49302	4751	Hecataeus C	.905	.326	.273	73.2	19.0	12.55	21.81	2	C	O
49303			.903	.334	.270	73.3	19.5	7.50	13.04	2	C	O
49303A			.904	.337	.263	73.8	19.7	6.06	10.53	3	C	O
49305			.904	.353	.241	75.1	20.7	4.18	7.27	2	C	O
49306			.900	.362	.243	74.9	21.2	7.28	12.65	3	C	O
49306A			.903	.365	.227	75.9	21.4	5.37	9.33	3	C	O
49313	4750	Hecataeus B	.914	.330	.236	75.5	19.3	39.49	68.64	4f	C	p?
49316A			.910	.364	.199	77.7	21.3	5.04	8.76	3	C	O
49317	4745	Hecataeus	.912	.371	.175	79.1	21.8	73.17	127.18	3	C	O
49317A	4749	Hecataeus A	.917	.375	.136	81.6	22.0	6.49	11.28	1	C	O
49317B			.910	.371	.185	78.5	21.8	3.99	6.94	3	C	O
49318		Hecataeus J	.912	.381	.152	80.5	22.4	4.76	8.27	1	C	O
49321			.920	.313	.236	75.6	18.2	17.72	30.80	4f	C	O
49322		Hecataeus L	.927	.325	.187	78.6	19.0	11.90	20.68	1	C	O
49325A		Hecataeus N	.923	.356	.146	81.0	20.9	5.72	9.94	1	C	O
49327			.921	.375	.106	83.5	22.0	5.38	9.35	2	C	O
49332		Hecataeus K	.930	.327	.168	79.8	19.1	43.50	75.61	4	C	O
49334		Gibbs A	.937	.348	.030	88.1	20.4	32.48	56.46	3	C	?
49335		Hecataeus M	.930	.354	.099	83.9	20.7	9.12	15.85	2	C	?
49341	4752	Gibbs	.944	.316	.095	84.3	18.4	46.54	80.89	2	C	p
49341A			.940	.310	.142	81.4	18.1	16.66	28.96	2	C	O
49342			.944	.329	.025	88.5	19.2	31.06	53.99	3	C	?
49400			.908	.403	.115	82.8	23.8	4.15	7.21	2	C	O
49402			.901	.420	.109	83.1	24.8	9.84	17.10	3	C	O
49410			.914	.404	.037	87.7	23.8	13.40	23.29	2	C	O

Appendix I. Alphabetic Index

Designation		Reference
Aliacensis	D	41504
"	E	40530
"	F	40553
"	G	40564
"	H	40582
"	K	40592
"	W	40582A
"	X	41409
"	Y	41510
"	Z	40560
Almanon		42258
"	A	42350
"	B	42351
"	C	42267
"	D	42351A
"	E	42320
"	F	42237
"	G	42340
"	H	42342
"	K	42257
"	L	42372
"	P	42371A
"	Q	42371
"	R	42361
Anděl		42118
"	A	41198
"	B	41172
"	C	41195
"	D	42108
"	E	42200
"	F	41194
"	G	42108A
"	H	41191
"	J	41193
"	K	41190
"	M	41196
"	N	41197A
"	P	42200B
"	S	42119
"	T	42129
"	W	42201
Ansgarius		49252

Designation		Reference
Ansgarius	B	49270
"	C	49235
"	M	49169
"	N	49260
"	P	49242
Apianus		41425
"	A	41403
"	B	41436
"	C	41467
"	CA	41467B
"	D	41464
"	E	41428
"	F	40497
"	G	41417
"	H	41437
"	J	41434
"	K	41446
"	L	41468
"	M	41461
"	N	41458
"	P	41442
"	R	41443
"	S	41433
"	T	41446B
"	U	41436A
"	V	41462
"	W	41413
"	X	41407
Argelander		40298
"	A	41218
"	B	40286
"	BA	40286A
"	C	40297
"	D	40370
"	W	40278
Arzachel	L	40304
Asclepi		42842
"	A	42739
"	B	42830A
"	C	42830
"	D	42840
"	E	42758

Designation		Reference
Asclepi	G	42850
"	H	42759A
Azophi		42307
"	A	41471
"	AA	41471A
"	B	41470
"	C	42317
"	D	42411A
"	E	42319
"	F	42327
"	G	41490
"	H	41483
"	HA	41483B
"	J	42316
Baco		42707
"	A	42709A
"	B	41786
"	C	41767
"	D	41778
"	E	41769
"	F	41796
"	G	41871
"	H	42708
"	J	41891
"	K	41870A
"	L	41785
"	M	42705A
"	N	41777
"	O	42708A
"	P	42717
"	Q	41799
"	R	42735
"	S	42705
"	T	42800
"	U	42709
"	W	42810
"	Z	41759A
Balmer		48384A
"	M	48385
"	N	48384
"	P	48364A
"	Q	48391

Designation		Reference
Balmer	R	48382
"	S	48371
Barnard		48560
"	A	48542A
Barocius		42700
"	B	42629
"	C	42628
"	D	42721
"	DA	42722
"	E	42753
"	EA	42743
"	EB	42752
"	EC	42754
"	ED	42762
"	EE	42773
"	F	42751
"	G	42667A
"	GA	42667
"	J	42750
"	K	42730
"	L	42637
"	M	42647
"	N	42648
"	O	42761
"	R	42669
"	S	42677
"	W	41791
Beaumont		44351
"	A	44248
"	B	44322
"	C	44344
"	D	44229
"	E	44332A
"	F	44321
"	G	44324
"	H	44259
"	J	44324A
"	K	44370
"	L	44284
"	M	44353
"	N	44249
Beaumont	P	44364
"	R	44380A
Behaim		49248
"	B	49237
"	BA	49238
"	C	49238A
"	N	49227
"	S	49258
"	T	49257
Bellot		47221
"	A	47222
"	B	47213
Biela		44841
"	A	44789
"	B	44823
"	BA	44814
"	C	44861
"	D	44862
"	E	44863A
"	F	44853
"	G	44843A
"	H	44834
"	J	44833
"	T	44850A
"	U	44850
"	V	44840A
"	W	44832
"	Y	44881
"	Z	44890
Biot		47318
"	A	46397
"	B	47314
"	C	47327
"	D	47401
"	E	47401A
"	T	47316
Blanchinus		40432A
"	B	40422
"	BA	40422A
"	D	40462
"	K	40471
"	M	40442
Boguslawsky		42905
"	A	41986
"	B	42946
"	C	41954
"	D	42915
"	E	42916
"	F	42906
"	G	41984
"	H	41945
"	J	41945A
"	K	42925
"	L	41994A
"	M	41994
"	N	41956
Bohnenberger		46217
"	A	46310
"	C	46321A
"	D	46341
"	E	46249
"	F	46215
"	G	46219
"	J	46225
"	N	46330
"	P	46322
"	W	46321
Borda		46452
"	A	46495
"	D	46451
"	E	46450
"	F	46464
"	G	46434
"	H	46454A
"	J	46455A
"	K	46456
"	L	46455
"	M	46422
"	R	46485
Boussingault		42974
"	A	42973A
"	B	43901
"	C	43910
"	D	43819B

Designation		Reference
Boussingault	E	42982
"	F	42933
"	G	42954A
"	K	42973
"	M	42966
"	N	42984
"	P	42972
"	R	43920
"	S	43819
"	T	43819A
Breislak		42704
"	A	42703
"	B	42713
"	C	42715
"	D	42714
"	E	42714A
"	F	42724
"	G	42723
Brenner		44683
"	A	44694
"	B	45630
"	C	45539A
"	D	45509
"	E	45602
"	F	44655
"	H	45600
"	J	44671
"	K	44671B
"	L	44671A
"	M	44662C
"	N	44662A
"	P	44652
"	Q	44653
"	R	44675
"	S	44662
Brisbane		46705
"	E	46706
"	H	45776
"	X	45787
"	Y	45788
"	Z	45779
Buch		42632A
Buch	A	42625
"	B	42631
"	C	42630
"	D	42613
"	E	42622
Burnham		41224
"	A	41215
"	B	41226
"	F	41214
"	K	41223
"	L	41224A
"	M	41254
"	T	41265A
Büsching		42661
"	A	42671
"	B	43602
"	C	42660
"	D	42692
"	E	42559
"	F	42673
"	G	42683
"	H	42680
"	J	42693
"	K	42651A
Capella		45163
"	A	45193
"	B	45196
"	C	45099
"	CA	45181
"	D	46101
"	E	46103
"	F	45175
"	G	45191
"	H	46104
"	J	45186
"	M	45097
"	MA	45097A
"	R	45170
"	T	45152
Catharina		43381
"	A	43354
"	B	43299
Catharina	C	43384A
"	CA	43394
"	CB	43393A
"	D	43259
"	E	43249
"	F	43363
"	G	44300
"	H	44303
"	J	43353
"	K	43384
"	L	43385
"	M	43333
"	P	43279
"	S	43372A
Celsius		42586
"	A	42594
"	B	42576
"	C	42595
"	D	42566
"	E	42584
"	H	42585
Censorinus		45030
"	A	45040
"	B	45023
"	C	45065
"	D	45083
"	E	45076
"	F	46005
"	H	45053
"	J	45021
"	K	44081
"	L	45014
"	N	45093
"	NA	46013
"	S	45086A
"	T	45015
"	U	45062A
"	V	45081
"	W	46001
"	X	46000
"	Z	45096
Clairaut		41764

Designation		Reference
Clairaut	A	41765
"	B	41744
"	C	41754
"	D	41763
"	E	41752
"	F	41771
"	G	41733
"	H	41735
"	J	41751
"	K	41756
"	M	41762
"	P	41735A
"	R	41784
"	S	41793A
Colombo		46296
"	A	46274
"	B	46288
"	E	46247
"	G	46274A
"	H	46269
"	J	46274B
"	K	46297
"	M	47215
"	P	47216
"	T	46372
Cook		47310
"	A	47320
"	B	47249
"	D	47354
"	E	47371
"	F	47380
"	G	47312
Crozier		47253
"	B	47271
"	D	47263
"	E	47261
"	F	47252
"	G	47250
"	H	47234
Curtius		40932
"	A	40913
"	B	40839
Curtius	C	40923
"	D	40960
"	E	40952
"	F	40911
"	G	40921
"	H	40953
"	K	40963
"	L	40962
"	M	40961
Cuvier		41716B
"	A	41729
"	B	41748
"	C	41736
"	D	40788
"	E	41739
"	F	41718
"	G	40787
"	H	40795
"	J	40795A
"	K	41708
"	L	41715
"	LA	41715C
"	M	41810
"	N	41820
"	O	41728
"	P	41746
"	Q	41718A
"	R	41747
Cyrillus		43293A
"	A	43283
"	B	43260
"	C	43251
"	D	44225
"	E	44217
"	F	44216A
"	G	44236
"	M	44109
Cysatus	C	40809A
"	H	40901
"	J	40809
Daguerre		45240
"	K	45271
Daguerre	U	45266
"	X	45244
"	Y	45264
"	Z	45255
Delambre		43003
"	B	43033
"	D	43001
"	F	43021
"	FA	43030A
"	H	42081
"	J	42080
Delaunay		40348
"	A	40337
Deluc	AA	40801
"	AB	40802
"	B	40708
"	C	40718
"	G	40807A
"	N	40807
"	S	40808
"	V	40818
Demonax		41977
"	A	41968
"	B	41948
"	C	41948A
"	E	41947
Descartes		42260
"	A	42250
"	C	42179
Dollond		42148
"	B	42133
"	C	42122
"	D	42114
"	E	42167
"	L	42115
"	M	42187
"	MA	42196
"	MB	42186
"	T	42156B
"	U	42172
"	V	42163
"	W	42151

Designation		Reference
Dollond	Y	42124B
Donati		40385A
"	A	40373
"	B	40394
"	C	40354
"	D	40397
"	K	41316
Dove		43752
"	A	43773
"	B	43773A
"	C	43743A
"	Z	43740
Fabricius		44697
"	A	44790
"	B	45618
"	J	44791
Faraday		41617
"	A	41626
"	C	41608
"	D	41629
"	G	41721
"	H	41720
"	K	41637
Faye		40366
"	A	40356
"	B	40378
Fermat		43318
"	A	43317B
"	AA	43317A
"	B	43339
"	C	42396
"	D	42394
"	E	43324
"	F	43317
"	G	43323
"	H	43329
"	P	43400
"	PA	43309
Fernelius		40661
"	A	40642
"	B	40650
"	C	40652
Fernelius	D	40681
"	E	40692
Fracastorius		45306
"	A	45441
"	B	45368
"	C	45411
"	D	44377
"	E	44384
"	G	45386
"	H	44375
"	J	45365
"	K	45412
"	L	45315
"	M	45307
"	N	45319
"	P	44493
"	Q	44492
"	R	45400
"	S	45302
"	T	45373
"	W	45338A
"	X	44379
"	Y	44389A
"	Z	45402A
Fraunhofer		46663
"	A	46673
"	B	46686
"	C	46668
"	D	46688
"	E	46648
"	F	46646
"	G	46662
"	H	46665
"	J	46667
"	K	46697A
"	L	46697
"	M	46685
"	N	46685A
"	R	46678B
"	S	46688A
"	T	46651
"	U	46694
Fraunhofer	V	46652
"	VA	46653A
"	W	46683
"	X	46673A
"	Y	46684
"	Z	46684A
Furnerius		47509
"	A	47515
"	B	47508
"	C	47505
"	D	46660
"	E	46597
"	EA	46596
"	F	47529
"	G	47611
"	H	47640
"	J	47537
"	K	47631
"	L	47632A
"	N	47525
"	P	46691
"	PA	46692A
"	PB	46692
"	Q	47613A
"	R	47614
"	S	47613
"	T	47601
"	TA	47611A
"	TB	47610
"	U	47558
"	V	47538A
"	VA	47538
"	W	47650
"	X	47545
"	Y	47556
"	Z	47545A
Gaudibert		46109A
"	A	46201
"	B	46201A
"	C	46109
"	CA	46200
"	D	45188

Designation		Reference
Gaudibert	DA	45189
"	H	45283
"	J	46119
Geber		42323
"	A	42337
"	B	42312
"	C	42337A
"	D	41392
"	E	42315
"	F	42314
"	H	42300
"	J	42354A
"	K	41370
Gemma Frisius		41596
"	A	42518
"	B	42548
"	C	42568
"	D	41556
"	E	41670
"	EA	41569
"	EB	41680
"	F	41548
"	FA	41549
"	G	41564
"	H	41573
"	J	42557
"	K	41650
"	L	41567
"	M	41576
"	O	41583
"	P	41582
"	Q	42508
"	R	42610
"	S	42517
"	T	42537
"	U	42536
"	X	42526
"	Y	41680A
"	Z	41537A
Gibbs		49341
"	A	49334
Gilbert		49065
Gilbert	D	49074
"	J	49057
"	K	49059A
"	M	49073
"	N	49072
"	P	49061
"	S	49063
"	U	49082C
"	V	49082B
"	W	49082A
Gill		44839
"	A	44829A
"	B	44848
"	C	44838
"	D	44849
"	E	44829
"	F	44809
"	G	44819
"	H	44819B
Goclenius		46197A
"	A	47162
"	AA	47172
"	B	46196
"	U	47156
"	UA	47175
"	UB	47164
"	UC	47177
"	UD	47168
"	UE	47159
Goodacre		42504
"	A	41594
"	B	42502
"	C	42503
"	D	42515
"	E	42524
"	F	42512
"	G	42504A
"	H	42534
"	K	42501
"	P	42536C
Gutenberg		46155
"	A	46135
Gutenberg	B	46115
"	BA	46115A
"	C	46147
"	D	46169
"	E	46164
"	F	46167
"	G	46130A
"	H	46121A
"	K	46142
Gyldén		40009
"	C	40110
"	K	40019
Hagecius		43866
"	A	43885
"	B	43876
"	C	43867
"	D	43894
"	E	43849
"	F	43828
"	G	43848
"	GA	43857
"	GB	43858
"	H	43886
"	J	43888
"	K	43887
"	L	43897
"	M	43896
"	N	43896A
"	P	44806
"	Q	44805
"	R	44815
"	S	44825
"	T	44817A
"	V	44808
Hale		42976
Halley		41104
"	A	40195
"	B	40174
"	C	41117
"	G	40195A
"	K	41104A
Hamilton		47637

Designation		Reference
Hamilton	B	47627
Hanno		45823
"	A	45830
"	B	45769
"	C	45822
"	D	45805
"	E	44886
"	F	45769A
"	J	45871A
"	K	45870
"	L	45871
"	R	45815
"	W	45801
"	X	45822A
"	Y	45822B
"	Z	45812
Hase		47479
"	A	47478
"	B	47542
"	D	47561
"	DA	47552
Hecataeus		49317
"	A	49317A
"	B	49313
"	C	49302
"	E	49301
"	J	49318
"	K	49332
"	L	49322
"	M	49335
"	N	49325A
Helmholtz		43932
"	A	43930
"	B	43952
"	D	43921
"	F	43970
"	H	43990
"	J	43990A
"	M	43920B
"	N	43920A
"	R	43869
"	S	43960

Designation		Reference
Helmholtz	T	43951
Heraclitus		40775B
"	A	40755
"	C	40775
"	D	40757B
"	E	40776
"	K	40746A
Hind		41123
"	C	41125
Hipparchus		40089
"	B	40132A
"	C	41142
"	CA	41153
"	D	40037
"	E	40037A
"	F	40047
"	G	41028
"	H	40049
"	J	40153
"	JA	40172
"	K	40132
"	L	41151
"	N	40088
"	NA	41008
"	P	40048
"	Q	40154
"	T	40162
"	U	40161
"	W	41038
"	X	40180
"	Z	41154
Holden		48332
"	R	48315
"	S	48324
"	T	48352
"	V	48331
"	W	48322
"	WA	48322A
Hommel		43811
"	A	43830
"	B	43842
"	BA	43832

Designation		Reference
Hommel	C	42881
"	D	43802
"	E	42865
"	F	42875
"	G	42844
"	GA	42834
"	H	43719
"	HA	43718
"	J	42870
"	K	42852
"	L	42862
"	M	42836
"	N	42845
"	O	42845A
"	P	42883
"	PA	42884
"	PB	42873
"	Q	43843
"	R	43729
"	S	43823
"	V	43820
"	X	42857
"	Y	42856B
"	Z	42856
Horrocks		41006
"	M	41037
"	U	40085
Humboldt		48475
"	N	48483
Hypatia		43087
"	A	43078
"	B	43068
"	C	43051
"	CA	43061
"	D	43085
"	DA	43085A
"	E	43040
"	F	43067
"	G	43084
"	H	44007
"	M	43099
"	R	43063

Designation		Reference
Ideler		42745
"	A	42736
"	B	42747
"	C	42747A
"	L	42765
"	M	42785
Isidorus		45143B
"	A	45143
"	B	45047
"	C	45028
"	D	45057
"	E	45039
"	F	45155
"	G	45121
"	H	45036
"	K	45145
"	U	45113
"	V	45105
"	W	45126
Jacobi		41803A
"	A	41845
"	AB	41855
"	B	41841
"	C	40896
"	CA	41806
"	D	40887
"	E	41805
"	F	40885
"	G	41825
"	H	40895
"	J	40894
"	JA	41804
"	K	41803E
"	L	41852
"	M	41814
"	MA	41814A
"	N	41813
"	O	41812
"	P	41824
"	Q	41832A
"	R	41832
"	S	41834

Designation		Reference
Jacobi	T	41842
"	U	41831
"	W	41802
"	WA	41802A
"	Z	41805A
Janssen		44760
"	B	44618
"	C	44628
"	D	44734
"	E	44725
"	F	44736
"	H	44752
"	J	44638
"	K	44761
"	L	44771
"	M	44636
"	MA	44627
"	N	44606
"	P	44741A
"	Q	44732A
"	R	44714
"	S	44727
"	T	44745
"	X	44608
Kaiser		40599
"	A	41509
"	B	40579
"	C	41539
"	D	41600
"	E	41507
"	R	41506A
Kant		43148
"	B	43116
"	C	43176
"	D	43210
"	DA	43129
"	E	43157
"	G	43136
"	H	43155
"	HA	43145
"	HB	43155A
"	M	43147

Designation		Reference
Kant	N	43137
"	O	42280
"	OA	42291
"	P	42198
"	Q	43212
"	QA	43212A
"	QC	42293
"	QD	42283A
"	R	43127
"	S	43230
"	T	43139
"	U	43135
Kapteyn		49128
"	A	49214
"	B	49216
"	C	49213
"	D	49215
"	E	49125
"	F	49214A
"	K	49222
"	Z	49139
Kästner		49171
"	A	49077
"	B	49180
"	BA	49180A
"	C	49163
"	E	49164
"	F	49176
"	G	49086
"	R	49181
Kinau		41827
"	A	41868
"	B	41857
"	C	41877
"	D	41857A
"	E	41876A
"	F	41808
"	G	41807
"	H	41876
"	J	41846
"	K	41865
"	L	41865A

Designation		Reference
Kinau	M	41827A
"	N	41827C
"	P	41847
"	Q	41868B
Klein		40240
"	A	40159
"	B	40231
"	C	40241
Krusenstern		40494
"	A	40495
La Caille		40410
"	A	40308
"	AB	40308A
"	AC	40307
"	B	40325
"	C	40326
"	D	40430
"	E	40349
"	F	40450
"	G	40334
"	GA	40324
"	GB	40334B
"	GC	40334A
"	H	40411
"	J	40318
"	K	40305
"	L	40421
"	M	40328A
"	N	40327
La Pérouse		49158
"	D	49159
"	E	49167
"	F	49149
Lade		41072
"	A	42020
"	D	42031
"	E	42023A
"	M	41061
"	S	41042
"	T	41052
"	U	41060
"	V	41050
Lade	X	41093
Lamé		48275
"	E	48294
"	F	48293
"	G	48276
"	H	48297B
"	J	48284
"	K	48273
"	L	49204
"	M	48287
"	N	48292A
"	T	48291
"	W	48282
"	Z	48277
Langrenus		48165
"	A	49108
"	B	48048
"	BA	48045
"	BB	48059
"	C	48069
"	CA	48069A
"	D	48118
"	DA	47195
"	DB	47197
"	DC	48119
"	E	48252
"	F	48120
"	FA	48122
"	FB	48028
"	FC	48027
"	FD	48019
"	FE	48100
"	FF	48101
"	G	48281A
"	H	48193
"	J	48194
"	K	48140
"	KA	48141
"	L	48261
"	M	49106
"	MA	49106A
"	N	49105
Langrenus	P	48270
"	Q	48250
"	R	48183
"	S	48191A
"	T	48088
"	TA	48099A
"	TB	48098
"	TC	48065
"	U	48211
"	V	48202A
"	W	49114
"	X	48281
"	Y	49113
"	Z	49102
Legendre		48428
"	D	48522
"	E	48515
"	F	48505
"	G	48513
"	H	48523A
"	J	48521
"	K	48429
"	L	48447
"	M	48437
"	N	48436
"	P	48435
Licetus		40773
"	A	40734
"	B	40752
"	C	40763
"	D	40754
"	E	40720A
"	F	40711
"	G	40629
"	H	40731
"	J	40639
"	K	40701
"	L	40713
"	M	40722
"	N	40721
"	P	40723
"	Q	41713

Designation		Reference
Licetus	R	40740
"	S	41700
"	T	40781
"	U	40782
"	W	41701
Lilius		40861A
"	A	40882
"	B	40749
"	C	40831
"	D	40737
"	E	40736
"	F	40715A
"	G	40706
"	H	40707
"	J	40813
"	K	40820
"	L	40821
"	M	40823
"	N	40735
"	O	40832
"	P	40832A
"	R	40841
"	S	40769
"	T	40872
"	U	40870
"	W	40880
"	X	41800
Lindenau		43553
"	A	43545
"	D	43560
"	E	43582
"	F	43573
"	G	43584
"	H	43572
Lockyer		44712
"	A	43679
"	F	44703
"	G	43781
"	H	43780
"	HA	43770
"	HB	43770A
Lohse		48243
Lubbock		46066
"	C	46038A
"	D	46027
"	G	46036
"	H	46064
"	J	46053
"	K	46018
"	L	46038
"	M	46020
"	N	46032
"	P	46035
"	R	46040
Lyot		46736
"	A	46745
"	B	46737
"	C	46727
"	D	46718A
"	E	46718B
"	F	46709
"	H	46718
"	M	45890
"	N	46709A
"	P	46774
"	R	46792
"	S	46791
"	T	46772
Maclaurin		49023
"	A	49025
"	B	49046
"	C	49032A
"	CA	49031
"	D	49132
"	DA	49122A
"	DB	49122
"	E	49006
"	EA	49005B
"	EB	49005A
"	EC	49017
"	F	49143
"	G	49112A
"	GA	49111
"	H	48092
Maclaurin	HA	48093B
"	J	49034
"	K	49021
"	L	49042A
"	LA	49043B
"	M	49038B
"	MA	49027
"	MB	49037A
"	MC	49035A
"	N	49026
"	O	49020
"	P	49130
"	R	49004
"	S	48093
"	T	49003A
"	TA	49012A
"	U	49016
"	Y	49110
Mädler		44189
"	A	44186
"	D	45201
Magelhaens		46280
"	A	46281
Malapert		40929
"	C	40928A
"	E	40939
"	F	40939C
"	K	40928
Mallet		45761
"	A	45761A
"	B	45742
"	C	45689
"	D	45781
"	E	45770
"	J	45745
"	K	45763
"	L	45754
Manzinus		41972
"	A	41973
"	B	41869
"	C	41924
"	D	41943

Designation		Reference
Manzinus	E	41953A
"	F	41849A
"	G	41953
"	H	41923
"	J	41951
"	K	41859
"	L	41960
"	M	41879
"	N	41964
"	O	41970
"	P	41982
"	R	42901
"	S	41981
"	T	42902
"	U	42903
Marinus		47653
"	A	47634
"	B	47643
"	C	47651
"	D	47672
"	E	47589
"	F	47626
"	G	47644
"	H	47644A
"	J	47623A
"	M	47680
"	N	47671
"	R	47661
"	S	47663
Maskelyne	T	45090
Maurolycus		41686A
"	A	41678
"	B	41654
"	C	41642
"	D	41673
"	DA	41653
"	E	41632
"	F	41665
"	FA	41665A
"	G	41740
"	H	41641
"	J	41677

Designation		Reference
Maurolycus	K	41664A
"	KA	41664B
"	L	41686
"	M	41666
"	N	41685
"	P	41671
"	R	42615
"	S	42616
"	T	41645
"	W	41697
McClure		47246
"	A	47227B
"	B	47236
"	C	47235A
"	CA	47245
"	D	47255
"	M	47254
"	N	47274
"	P	47275
"	S	47283
Messier		47033
"	A	47023
"	B	47041
"	D	47026
"	DA	47027
"	E	47015
"	G	47099
"	GA	47089
"	GB	47086
"	J	47082A
"	L	47082
Metius		45624
"	B	45634
"	C	45649
"	D	45657
"	E	45623
"	F	45623A
"	G	45644
Miller		40613
"	A	40621A
"	B	40610
"	D	40641

Designation		Reference
Miller	E	40632
"	K	40614
Moltke		44001
"	A	43091
"	AB	43082
"	AC	43091A
"	AD	43081
"	B	44021
Monge		46392
Müller		40133
"	A	40134
"	F	40123B
"	O	40143
Mutus		42829
"	A	42839
"	B	42819
"	C	42827
"	CA	42828
"	CB	42826A
"	D	42805
"	E	42941
"	F	42921
"	G	42922
"	H	41889
"	J	41888
"	K	41894
"	L	41898
"	LA	41897
"	LB	41897A
"	M	42815
"	N	42818
"	O	42814
"	P	42825
"	Q	42838
"	S	41887
"	SA	41896A
"	SB	41896C
"	T	41885C
"	TA	41885
"	TB	41885B
"	V	42839A
"	W	42951

Designation		Reference
Mutus	X	42932
"	Y	42940A
"	Z	42849B
Nasireddin		40605
Neander		45541
"	A	45541A
"	B	45467
"	C	45417
"	D	46404
"	DA	46404A
"	E	45469
"	F	45523
"	G	45574
"	H	45564A
"	HA	45564
"	HB	45554
"	J	45575
"	JA	45576
"	JB	45566
"	K	45527
"	L	45562
"	M	45507
"	N	45513
"	O	45518
"	P	45477
"	Q	45488A
"	R	45524
"	S	45562B
"	T	45449A
"	V	45521
"	W	45523A
"	X	45514
"	Y	45516
"	Z	45555B
Nearch		43835A
"	A	43826
"	AA	43816
"	B	42887
"	BA	42897
"	BB	42887B
"	BC	42887A
"	C	42878

Designation		Reference
Nearch	D	43833
"	E	42867
"	F	42889A
"	G	42889
"	H	43844
"	J	43824
"	K	43804
"	L	43805A
"	M	43805
Neumayer		43904
"	M	43904A
"	N	43924B
"	P	43924A
Nicolai		43627
"	A	42697
"	B	43618
"	C	43649
"	D	43626
"	E	43625
"	G	42678
"	H	43628
"	J	42685
"	K	43648
"	L	43619
"	M	43657
"	P	43668
"	Q	43677A
"	R	43626A
"	Z	42675
Nonius		40557
"	A	40577
"	B	40528A
"	BA	40529
"	C	40517
"	D	40528
"	E	40539
"	F	40558
"	G	40586
"	K	40555
"	L	40555A
"	Q	40568
"	R	40548A

Designation		Reference
Nonius	S	40567A
Oken		47609
"	A	46698
"	E	46782
"	F	46770
"	L	47618
"	M	47626A
"	N	47617
Palitzsch		47496
"	A	48415
"	B	48434
Parrot		40255
"	A	40236
"	B	40243
"	BA	40244
"	BB	40244A
"	C	40321
"	D	40264
"	E	40237
"	F	40227
"	FA	40217
"	FB	40237A
"	FC	40237B
"	FD	40228
"	G	40249A
"	H	40320
"	HA	40219
"	HC	40219A
"	J	40239
"	JB	40239A
"	K	40234
"	KA	40233A
"	L	40310
"	M	40330
"	N	40203
"	O	40249
"	P	40342
"	Q	40216
"	R	40253
"	S	40267
"	T	40267A
"	U	40274

Designation		Reference
Parrot	V	40212
"	W	40222
"	X	40235
"	XA	40235A
"	Y	40214
Peirescius		46732
"	A	46760
"	B	46761
"	C	46752
"	D	46734
"	G	46714
"	H	46771
"	J	46740A
Pentland		40980A
"	A	40982A
"	B	40991
"	C	41910
"	D	41809
"	DA	41819
"	DB	41819A
"	E	40982
"	F	40898
"	J	41900
"	K	41921
"	L	41921A
"	M	41920
"	N	41839
"	NA	41839A
"	O	41849
"	P	40992
Petavius		47482
"	A	47493
"	B	47383
"	C	47466
"	D	48420
"	E	47456
Phillips		48464
"	A	48455
"	B	48369
"	C	48444
"	D	48452
"	E	48433
Phillips	F	48442
"	G	48441
"	H	48452A
"	W	48462
Piccolomini		44469A
"	A	44454A
"	B	44453
"	C	44456A
"	D	44475
"	E	44474
"	F	44474A
"	G	45405
"	H	44416
"	J	44452
"	K	44443
"	L	44494
"	M	44466
"	N	43495
"	O	44454
"	P	45500
"	Q	45511
"	R	45409
"	S	44572
"	T	44427A
"	W	44435
"	X	44465
Pickering		41025
"	A	41022
"	B	41023
"	C	41002
Pitiscus		43727
"	A	43726A
"	B	43743
"	C	43723A
"	D	42795
"	E	43707A
"	F	43733
"	G	42783
"	J	42794
"	K	43742
"	L	43747
"	R	43715
Pitiscus	S	43713
"	T	43723
"	U	43765
"	V	43765A
"	W	42796
Playfair		41339A
"	A	41317
"	B	41329
"	C	41421
"	D	41431
"	E	41347
"	F	41337
"	G	41401
"	H	41339
"	J	41441
"	K	41359A
Poisson		41550
"	A	41439
"	B	41561
"	C	41524
"	D	41512
"	E	41526
"	F	41515A
"	G	41512A
"	GA	41513
"	H	41504A
"	J	41527
"	K	41544
"	L	41524A
"	M	41515
"	N	41521
"	O	41537
"	P	41532
"	Q	41543
"	R	41520
"	S	41479
"	T	41531
"	U	41552A
"	V	41553
"	W	41489
"	X	41488
"	Z	41459A

Designation		Reference
Polybius		44308
"	A	44339
"	B	43483
"	C	43377
"	D	44415
"	E	44401
"	F	43367
"	G	43358
"	H	43366
"	J	43368
"	K	43471
"	L	44337
"	M	43356
"	N	44319
"	P	43366C
"	Q	44412
"	R	44413
"	T	43484
"	TA	43483A
"	V	44432
Pons		43432
"	A	43405
"	B	43418
"	C	43436
"	D	43443
"	E	43463A
"	F	43430
"	FA	43430A
"	G	43427
"	H	43435
"	J	43442
"	K	43445
"	L	43416
"	M	43465
"	N	43453
"	P	43452A
Pontanus		42427
"	A	42521
"	B	42531
"	C	42530
"	CA	42439
"	CB	42429A
"	D	42403

Designation		Reference
Pontanus	E	42402
"	F	41476
"	G	42521A
"	H	42532
"	J	41590
"	K	41493
"	L	42407
"	M	42419
"	MA	42419A
"	N	42411
"	O	42413
"	P	42429
"	Q	42426
"	R	42437
"	RA	42436
"	S	42542
"	T	42448
"	TA	42449
"	U	42469
"	V	42408
"	W	42468
"	X	42448A
"	XA	42438
"	Y	42468A
"	Z	41496
Pontécoulant		44875
"	A	44874
"	B	44854
"	C	44882
"	D	44876
"	E	44847
"	F	44894
"	G	44874A
"	H	44875A
"	J	44828
"	K	44817B
"	L	44845
"	M	44867B
Ptolemaeus	G	40102
"	T	40103
"	U	40108
"	V	40108A

Designation		Reference
Ptolemaeus	W	40125
"	X	40109
"	Y	40116
"	YA	40105
"	YB	40106
Purbach	F	40401
Rabbi Levi		43526A
"	A	43516
"	B	43546
"	C	43576
"	D	43517
"	E	43509
"	F	42588
"	G	43600
"	H	42579
"	J	43601
"	L	43526
"	M	43527
"	N	43529
"	O	43548
"	P	43556
"	Q	43565
"	R	43586
"	S	43586A
"	T	43509A
"	U	43508
Réaumur		40014
"	A	40007
"	B	40017
"	C	40006
"	D	40040
"	K	40016
"	R	40036
"	W	40045
"	Y	40012
Regiomontanus	N	40408
"	L	40419
Reichenbach		46540
"	A	46467
"	B	46457
"	C	46409
"	D	46427

Designation		Reference
Reichenbach	DA	46427A
"	F	46532
"	FA	46523B
"	FB	46533
"	G	46542
"	H	46468
"	J	46551
"	K	45498
"	KA	45497
"	KB	45488
"	L	46520A
"	M	46504
"	N	45590A
"	P	46543B
"	Q	46543
"	R	46405A
"	S	46415
"	T	46429
"	TA	46510A
"	TB	46510
"	TC	46409A
"	U	46544A
"	W	45581
"	X	45591A
"	Y	45591
"	Z	46512
Reimarus		45783
"	A	45775A
"	B	45766
"	C	45756A
"	F	45756
"	H	45775
"	R	46703
"	S	45794
"	T	45794A
"	U	45784B
Rhaeticus	E	41000
"	F	41010
"	H	40091
"	J	40051
Rheita		45680
"	A	46601B
Rheita	B	46613
"	C	45577
"	D	45693A
"	E	46526
"	F	46517
"	G	46614
"	H	46604
"	L	46631
"	M	46527
"	N	46527A
"	P	45651
"	PA	45661
Riccius		43650
"	A	43578
"	B	43670
"	C	43599
"	CA	43588A
"	D	43664
"	DA	43664A
"	E	43644
"	F	43682
"	G	43622
"	H	43557A
"	J	43635
"	K	43633
"	L	43636
"	M	43651
"	N	43645
"	NA	43666
"	NB	43655
"	O	43579
"	P	43588
"	R	43686
"	S	43650A
"	T	43549
"	W	43632
"	X	43652
"	Y	43598
Ritchey		41149
"	A	41139
"	B	41250
"	C	41158
Ritchey	D	41157
"	E	41148
"	F	41138
"	J	41261B
"	M	41261
"	N	41179
Rosenberger		43882
"	A	44830
"	B	44748
"	C	44718
"	D	43864
"	E	43846
"	F	43862
"	G	43890
"	H	44811
"	HA	44812
"	J	44719
"	K	44821
"	L	44729
"	N	44801
"	S	43882A
"	T	43873
"	W	43855
Rosse		45340
"	C	45331
Rothmann		44501
"	A	44409
"	B	44502
"	C	43477
"	D	43448
"	DA	43448A
"	E	44514
"	F	44418
"	G	43467
"	H	43478
"	J	43479
"	K	43468
"	L	44428
"	M	44521B
"	W	43581
Sacrobosco		42460A
"	A	42450

Designation		Reference
Sacrobosco	B	42460
"	C	42359
"	D	42386
"	E	42474
"	F	42366
"	G	42365
"	H	42490
"	HA	42399
"	J	42430
"	K	42338
"	L	42433
"	M	42452
"	N	42455
"	O	42356
"	P	42375
"	Q	42386A
"	R	42358
"	S	42474A
"	T	42462
"	U	42420
"	V	42451
"	W	42471
"	X	42454
Santbech		46355A
"	A	46411
"	B	46401
"	C	45397
"	D	46365
"	E	46357
"	F	46403
"	G	46348
"	H	46334
"	J	46343A
"	K	46342
"	L	45396
"	M	45394
"	N	45395A
"	P	46306
"	Q	45379B
"	R	45379A
"	S	45379C
"	T	45460A
Santbech	U	45470
"	V	45471
"	W	45491
"	X	46412B
"	Y	46412
"	Z	46413
Saunder		41057
"	A	42016
"	B	41076
"	C	41084
"	S	41064
"	T	41087
Saussure	D	40703
Schomberger		40997
"	A	40988
"	C	40967
"	D	41915
"	E	40988A
"	F	40968
"	G	40937
"	H	40917
"	J	40968A
"	K	40948
"	L	40948A
"	M	40969
"	X	41946
"	Y	41926
"	Z	41935A
Schubert	J	49080
Scott		41909
Secchi	K	47010
"	X	46081
Seeliger		40053
"	A	40053A
"	S	40033
"	T	40073
Simpelius		40975
"	A	40994
"	B	40946
"	C	40935
"	D	40944
"	E	40964B
Simpelius	F	41903
"	G	41925
"	H	41902
"	J	40937A
"	K	40976
"	L	40934
"	M	40994A
"	N	41934
"	P	40926
Snellius		47429
"	A	47416
"	B	46590
"	C	46488
"	D	46488A
"	E	46496
"	X	47426
"	Y	47413
Spallanzani		42782
"	A	42792
"	D	43732A
"	F	43721
"	G	43731
Steinheil		44785
"	E	45720
"	F	45721
"	G	45731
"	H	45711
"	HA	45712A
"	HB	45701
"	K	45725
"	X	44783B
"	Y	44783
"	Z	44792
Stevinus		46583A
"	A	46562
"	B	46581
"	C	46565
"	D	46537
"	E	46547
"	F	46580
"	G	46545
"	H	46544

Designation		Reference
Stevinus	J	46548A
"	K	46586
"	L	46595
"	R	46562A
"	S	46571
Stiborius		44536
"	A	44660
"	B	44630
"	C	44555
"	D	44585
"	DA	44595
"	E	44567A
"	EA	44566
"	F	44538
"	G	44660A
"	J	44578
"	K	44568
"	L	44557
"	M	44548
"	N	44539
"	P	44564A
Stöfler		40675
"	D	40659
"	E	40679
"	F	40667
"	G	40628
"	H	40624
"	J	40637
"	K	40653
"	L	41603
"	M	41605
"	N	40686
"	O	40618
"	P	40698
"	R	40627
"	S	40770
"	T	41613
"	U	41624
"	X	40674A
"	Y	40674
"	Z	40644
Tacitus		43217

Designation		Reference
Tacitus	A	43330
"	B	43234
"	C	43223
"	D	43243
"	E	43234A
"	F	42289
"	G	42299
"	H	43300
"	J	43225
"	K	43232
"	L	43244
"	M	43254
"	N	43219
"	O	43264
"	Q	43330A
"	R	43228
"	S	43215A
"	SA	43215
"	X	43207
Tannerus		42803
"	A	41864
"	B	41884
"	C	42822A
"	D	41872
"	E	41883
"	F	42811
"	G	41862
"	H	42821
"	J	42824
"	K	42802
"	L	42804
"	M	42801
"	N	42822
"	P	42812
Taylor		42089
"	A	42067
"	AB	42055
"	B	42047
"	C	42059
"	D	42069
"	E	42190
Theon Junior		42074

Designation		Reference
Theon Junior	B	42023
"	C	42054
Theon Senior		42061
"	A	42060
"	C	42052
Theophilus		44139
"	B	44118
"	C	44244
"	E	44101
"	F	44133
"	G	44132
"	GA	44132A
"	GB	44111
"	K	44231
"	W	44173A
Torricelli		44078
"	A	44097
"	B	44084
"	C	44034
"	F	44087
"	G	44052
"	H	44025
"	J	44026
"	K	44027
"	L	44016A
"	M	45016
"	N	44180
"	P	44191
"	R	44079
"	T	44067
Vega		46721
"	A	46713
"	B	46712
"	C	46731
"	D	46740
"	G	46730
"	H	46710A
"	J	46701
Vendelinus		48248
"	D	48302
"	E	48330
"	F	48351

Designation		Reference
Vendelinus	H	48246
"	K	48263A
"	L	48330A
"	N	48278
"	NA	48279
"	P	48370
"	S	48216
"	T	48263
"	U	48227
"	V	47296
"	W	48225
"	Y	48340
"	Z	48249
Vlacq		43870A
"	A	43797
"	B	44707
"	C	44706
"	D	43795
"	E	43768
"	G	43851
"	H	43784
"	K	43777
"	KA	43777A
Vogel		40296
"	A	40294
"	B	40294B
"	C	40294A
Walter		40514
"	A	40513
"	AA	40514A
"	D	40543
"	DA	40543A
"	F	40534
"	FA	40523
"	P	40507
"	Q	40505
"	R	40508
"	S	40509
"	T	40525
"	U	40535
Watt		44786
"	A	44766
Watt	B	44776
"	C	45706
"	CA	45707
"	D	45726
"	DA	45717B
"	E	45736
"	G	45737
"	H	45727
"	J	45728
"	K	45718
"	L	45719
"	M	45810
"	N	45800
"	R	44767
"	S	44759
"	T	44788
"	U	44788A
"	W	44797
Webb		48061
"	B	48051
"	D	48044
"	H	48063
"	J	48091
"	K	48091A
"	M	48090
"	N	48090A
"	Q	48071
Weinek		45436
"	A	45415
"	B	45455
"	D	45433
"	E	45452
"	F	45462
"	G	45465
"	H	45447
"	K	45448
"	L	45474A
"	M	45473
Werner		40457
"	A	40415
"	B	40414
"	E	40415A
Werner	F	40413
"	G	40416
"	H	40424
Wilkins		42499
"	A	42488
"	B	42489
"	C	42591
"	D	42466
"	E	42497
"	F	43500B
"	G	42570
"	H	42477
Wöhler		44611
"	A	43691
"	B	44600
"	C	44509
"	D	44519D
"	E	43692
"	F	44624
"	G	44644
Wrottesley		47460A
"	A	47359
"	B	47451
Young		45686
"	A	45685
"	B	45685A
"	C	45656
"	D	45678
"	F	45750
"	R	46607
"	S	45688
Zach		40847
"	A	40848
"	B	40825B
"	C	40815
"	D	40868
"	E	40856
"	F	40826A
"	G	40805
"	H	40825
"	J	40844
"	K	40854

Designation		Reference
Zach	L	40864
"	M	40864A
Zagut		43512
"	A	43513
"	B	42573
"	C	42571
"	D	42582
"	E	43532
"	F	42560
"	H	43500
"	K	43522
"	L	43520
"	LA	43510
"	M	43531
"	N	43541
"	O	42544
"	P	42553
"	R	43501
"	S	43525
Zöllner		43124
"	A	43162
"	D	43104
"	DA	42193A
"	DB	42194
"	DC	42195A
"	E	43115
"	F	43173
"	FA	43184
"	FB	43183
"	G	43152
"	H	43122
"	J	43150
"	K	43151

APPENDIX II.-MAP LOCATIONS OF NAMED CRATERS

Designation	Map
Abel	A7
Abenezra	C6
Abulfeda	C5, C6
Adams	A7, A6
Airy	C6
Albategnius	C5, C6
Alfraganus	B5, C5
Aliacensis	C7, C6
Almanon	C6
Anděl	C5
Ansgarius	A5, A6
Apianus	C6
Argelander	C6
Arzachel L	C6
Asclepi	C8
Azophi	C6
Baco	C8
Balmer	A6
Barnard	A7, A6
Barocius	C7
Beaumont	B6
Behaim	A6
Bellot	A5
Biela	B8
Biot	A6
Blanchinus	C6
Boguslawsky	C8
Bohnenberger	A6, B6
Borda	A6, B6
Boussingault	C8
Breislak	C8, C7
Brenner	B7
Brisbane	A7, B8, B7
Buch	C7
Burnham	C5, C6
Büsching	C7
Capella	B5
Catharina	B6
Celsius	C7
Censorinus	B5
Clairaut	C7, C8
Colombo	A6, A5
Cook	A6
Crozier	A6, A5
Curtius	C8
Cuvier	C8
Cyrillus	B5, B6
Cysatus C	C8
Daguerre	B5
Delambre	B5, C5
Delaunay	C6
Deluc AA	C8
Demonax	C8
Descartes	C5
Dollond	C5
Donati	C6
Dove	B8, B7
Fabricius	B7
Faraday	C7
Faye	C6
Fermat	B6, C6
Fernelius	C7
Fracastorius	B6
Fraunhofer	A7
Furnerius	A7
Gaudibert	B5
Geber	C6
Gemma Frisius	C7
Gibbs	A6
Gilbert	A5
Gill	B8
Goclenius	A5
Goodacre	C7
Gutenberg	A5, B5
Gyldén	C5
Hagecius	B8
Hale	C8
Halley	C5
Hamilton	A7
Hanno	B8
Hase	A7, A6
Hecataeus	A6
Helmholtz	B8
Heraclitus	C8, C7

Designation	Map
Hind	C5
Hipparchus	C5
Holden	A6
Hommel	B8
Horrocks	C5
Humboldt	A6, A7
Hypatia	B5
Ideler	C8, C7
Isidorus	B5
Jacobi	C8
Janssen	B7, B8
Kaiser	C7
Kant	B5
Kapteyn	A5
Kästner	A5
Kinau	C8
Klein	C5
Krusenstern	C6
La Caille	C6
La Pérouse	A5
Lade	C5
Lamé	A6, A5
Langrenus	A5
Licetus	C7, C8
Lilius	C8
Lindenau	B7
Lockyer	B7
Lohse	A6, A5
Lubbock	B5, A5
Lyot	A7
Maclaurin	A5
Mädler	B5
Magelhaens	A5
Malapert	C8
Mallet	B7
Manzinus	C8
Marinus	A7
Maskelyne T	B5
Maurolycus	C7
McClure	A6, A5
Messier	A5
Metius	B7
Miller	C7
Moltke	B5
Monge	A6
Müller	C5
Mutus	C8
Nasireddin	C7
Neander	B7, B6
Nearch	B8, C8
Neumayer	B8, C8
Nicolai	B7, C7
Nonius	C7
Oken	A7
Palitzsch	A6
Parrot	C5, C6
Peirescius	A7
Pentland	C8
Petavius	A6
Phillips	A6
Piccolomini	B6, B7
Pickering	C5
Pitiscus	B8
Playfair	C6
Poisson	C7, C6
Polybius	B6
Pons	B6
Pontanus	C6, C7
Pontécoulant	B8
Ptolemaeus G	C5
Purbach F	C6
Rabbi Levi	B7, C7
Réaumur	C5
Regiomontanus N	C6
Reichenbach	A7, A6
Reimarus	B8, B7
Rhaeticus E	C5
Rheita	B7
Riccius	B7
Ritchey	C5
Rosenberger	B8
Rosse	B6
Rothmann	B7, B6
Sacrobosco	C6

Designation	Map
Santbech	A6, B6
Saunder	C5
Saussure D	C7, C8
Schomberger	C8
Schubert J	A5
Scott	C8
Secchi K	A5
Seeliger	C5
Simpelius	C8
Snellius	A7, A6
Spallanzani	C7, B7
Steinheil	B8, B7
Stevinus	A7
Stiborius	B7
Stöfler	C7
Tacitus	B6, C6
Tannerus	C8
Taylor	B5, C5
Theon Junior	C5
Theon Senior	C5
Theophilus	B5
Torricelli	B5
Vega	A7
Vendelinus	A6, A5
Vlacq	B8
Vogel	C6, C5
Walter	C7
Watt	B8, B7
Webb	A5
Weinek	B6
Werner	C6
Wilkins	C6, B6
Wöhler	B7
Wrottesley	A6
Young	B7
Zach	C8
Zagut	B7, C7
Zöllner	B5, C5

APPENDIX III. NOTES

Ref.	Remarks
40123	Designation Müller F shifted to 40123B.
40528A and 40529 are the Nonius B of B & M.	
40826A and 40836 are the 40826 of the position catalog.	
40926	Formerly Schomberger N.
41403 and 41403A are the Apianus A of B & M.	
41526	B & M designation restricted to this component.
41803D and 41803E are the 41803 of the position catalog.	
42218 and 42217A are the 42217 of the position catalog. Designation restricted to 42218.	
43085 and 43085A are B & M's 3669.	
43317A	Formerly part of Fermat A.
43388	Possibly double.
43537A	Possibly double.
43573	Designation restricted to S. component.
43599	Designation restricted to S. component.
43718	Formerly Pitiscus H. New designation refers only to a part of the B & M feature.
43727	Position catalog coordinates refer to central peak.
43731	Formerly Spallanzani C.
44416	Designation restricted to N. component.
44566	Designation restricted to N. component.
44801	Designation restricted to S. component.
44828	Formerly Helmholtz G.
45794A	Possibly double.
45814	B & M incorrectly identified this crater as Hanno. Hanno is 45823.
45860	Position approximate.
45870	Formerly Mare Australe K.
45871	Formerly Mare Australe L.
46450	Designation restricted to largest component.
46601B and 46601C are the Rheita A of B & M.	
46718	Formerly Mare Australe H.
46734	B & M misidentified Franz's measured point and their map is out of drawing in this area.
46737	Formerly Brisbane G.
47023	Formerly W. H. Pickering.
47637	Formerly Marinus K.
48275	Formerly Vendelinus C.
48276	Formerly Vendelinus G.
48278 and 48278A are the Vendelinus N of B & M.	
48284	Formerly Vendelinus J.
48287	Formerly Vendelinus M.
49033A and 49034 are the 49033 of the position catalog. Designation restricted to 409034.	
49061	Formerly Kästner P.
49063	Formerly Kästner S.
49072	Formerly Kästner N.
49073	Formerly Kästner M.
49074	Formerly Kästner D.
49128	Formerly La Pérouse B.
49214	Formerly Ansgarius A.
49216	Formerly Behaim A.
49227	Designation transferred to more definite formation.
49341	Formerly Hecataeus D.

N.B. Former designations referred to in the above notes are those of Blagg and Müller's (B & M) Named Lunar Formations, Vol. I. The grids which are mentioned are those of the Orthographic Atlas of the Moon.

APPENDIX IV. CORRIGENDA

Quadrant IV of "Consolidated Catalog of Selenographic Positions"

The following corrections should be applied to the fourth quadrant of the "Consolidated Catalog of Selenographic Positions" (Comm. LPL No.11).

Ref.	Corrections
40988A	Diameter should read 16.2.
41252	Diameter should read 3.0 x 3.8.
41671	Diameter should read 2.5.
41967	Franz S. end (155) is incorrect. New coordinates are +.175, -.979, therefore the new reference is 41977. Diameter should read 65.5.
42257	Diameter should read 4.8.
42351A	Diameter should read 3.4.
42452	Diameter should read 2.9.
42453	Diameter should read 1.9.
42455A	Diameter should read 2.3.
42455B	Diameter should read 2.0.
42521	Diameter should read 5.9.
42589	Diameter should read 2.4.
42654	Diameter should read 3.0.
42783A	Diameter should read 2.6.
42839	Diameter should read 9.3.
42901	Diameter should read 9.3.
42933	Designation changed to Boussingault F. There are two Boussingault P's in B & M.
43293	Blagg & Müller number should read 4186.
43416	Diameter should read 4.3.
43501	Diameter should read 2.0.
43565	Diameter should read 3.6.
43718	Diameter should read 4.4.
43732	Diameter should read 3.0.
43867	Diameter should read 13.6.
43904	Diameter should read 43.8.
44059	Diameter should read 2.1.
44324A	Diameter should read 3.0.
44502	Diameter should read 10.3.
44572	Diameter should read 12.5.
44628	Diameter should read 4.1.
45030	Diameter should read 2.2.
45059	Diameter should read 4.2.
45623	Diameter should read 4.0.
46035	Diameter should read 4.4.
46038A	Diameter should read 4.7.
46081	Diameter should read 3.2.
46322	Diameter should read 6.0.
46346	Diameter should read 4.1.
46455	Diameter should read 6.9.
46455A	Diameter should read 6.8 x 9.9.
46468	Diameter should read 5.9.
46492	Diameter should read 5.0.
46495	Diameter should read 11.1 x 6.3.
46631	Diameter should read 6.0.
46752	Diameter should read 23.5.
47010	Diameter should read 3.7.
47023	Diameter should read 7.5 x 6.1.
47033	Diameter should read 5.1 x 6.3.
47164	Diameter should read 2.0.
47177	Diameter should read 5.1.
47221	Diameter should read 9.9.
47261	Diameter should read 3.7.
47274	Diameter should read 5.2.
47312	Diameter should read 5.2.
47341	Diameter should read 3.1.
47561	B & M number should read 4625 not 4622.
47577	Coordinates should read +.773, -.576 not +7750, -5730. Diameter should read 13.5.
47609	Diameter should read 41.4.
47611	Diameter should read 19.8.
47637	Diameter should read 32.9.
47640	Coordinates should read +.742, -.610 not +7435, -6099.
48026	Diameter should read 3.0.
48028	Diameter should read 3.8.
48048	Diameter should read 20.1.
48100	Diameter should read 3.6.
48101	Diameter should read 4.0.
48120	Diameter should read 24.8.
48121	Diameter should read 2.2.
48122	Diameter should read 2.7.
48130	Diameter should read 4.3.
48140	Diameter should read 16.9.
48141	Diameter should read 3.9.
48211	Diameter should read 2.1.
48229	Diameter should read 3.5.

Ref.	Corrections
48250	Diameter should read 7.0.
48263	Diameter should read 2.9.
48265	Diameter should read 3.1.
48284	Diameter should read 10.4.
48340	Diameter should read 5.0.
48351	Diameter should read 18.2.
48352	Diameter should read 5.2.
49004	Diameter should read 8.3.

Ref.	Corrections
49025	Diameter should read 16.8.
49063	Diameter should read 9.2.
49072	Diameter should read 18.3.
49074	Diameter should read 9.4.
49132	Diameter should read 5.7.
49143	Diameter should read 22.3.
49214	Diameter should read 17.6.
49322	Diameter should read 11.9.

The following additions and corrections are applicable to Quadrants I, II and III of this catalog.

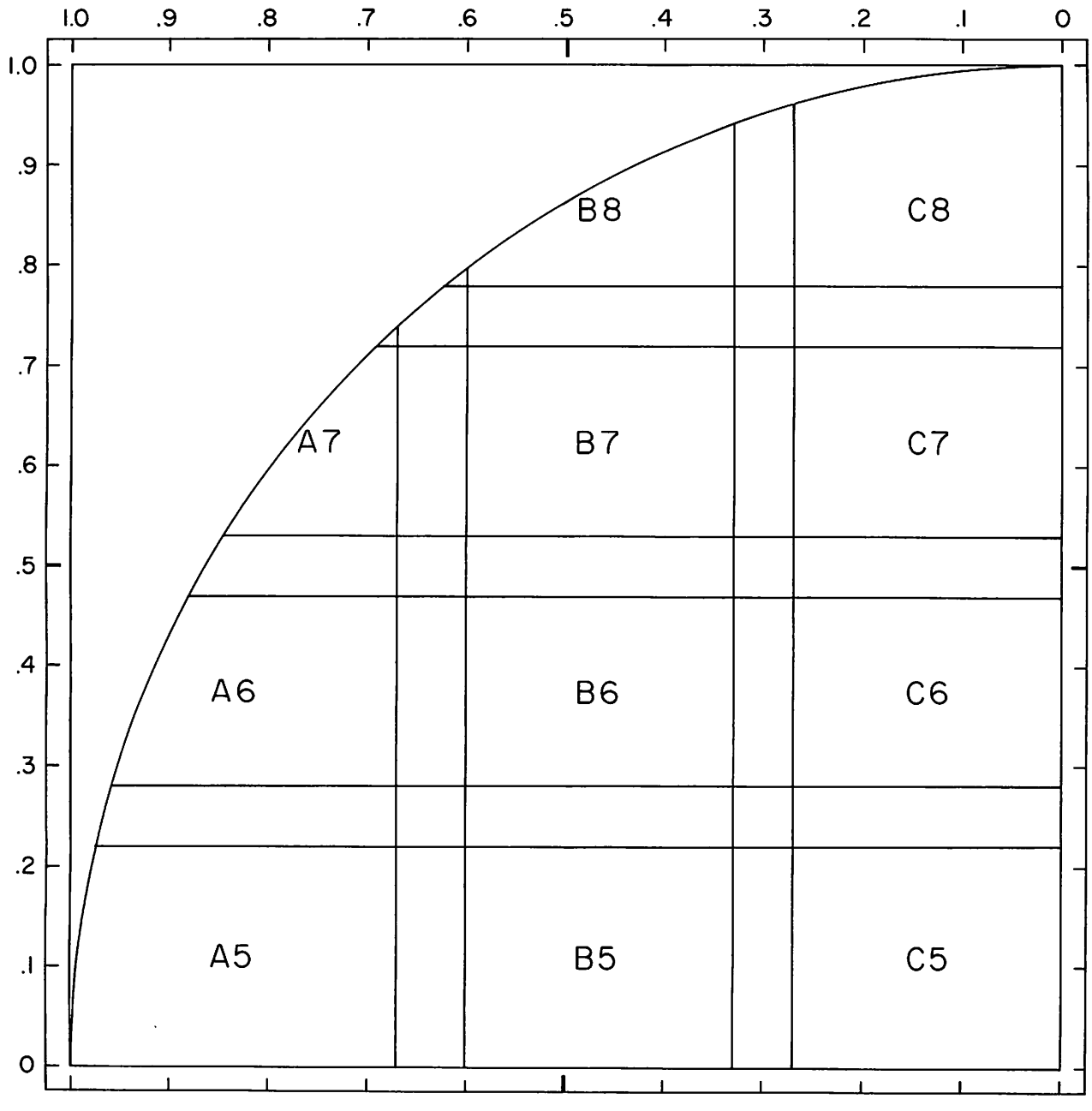
Ref.	Designation	ξ	η	ζ	λ	β	D	K	C	B	C.E.
13010	Schmidt A	+.313	+.008	+.950	+18.2	+ 0.5	1.39	2.42	2	pM	O
29270A	Vasco da Gama C	-.974	+.202	+.103	-84.0	+11.7	24.97	43.40	3	C	p?
29272	Bohr	-.972	+.224	+.071	-85.9	+13.0	42.07	73.12	2	C	?

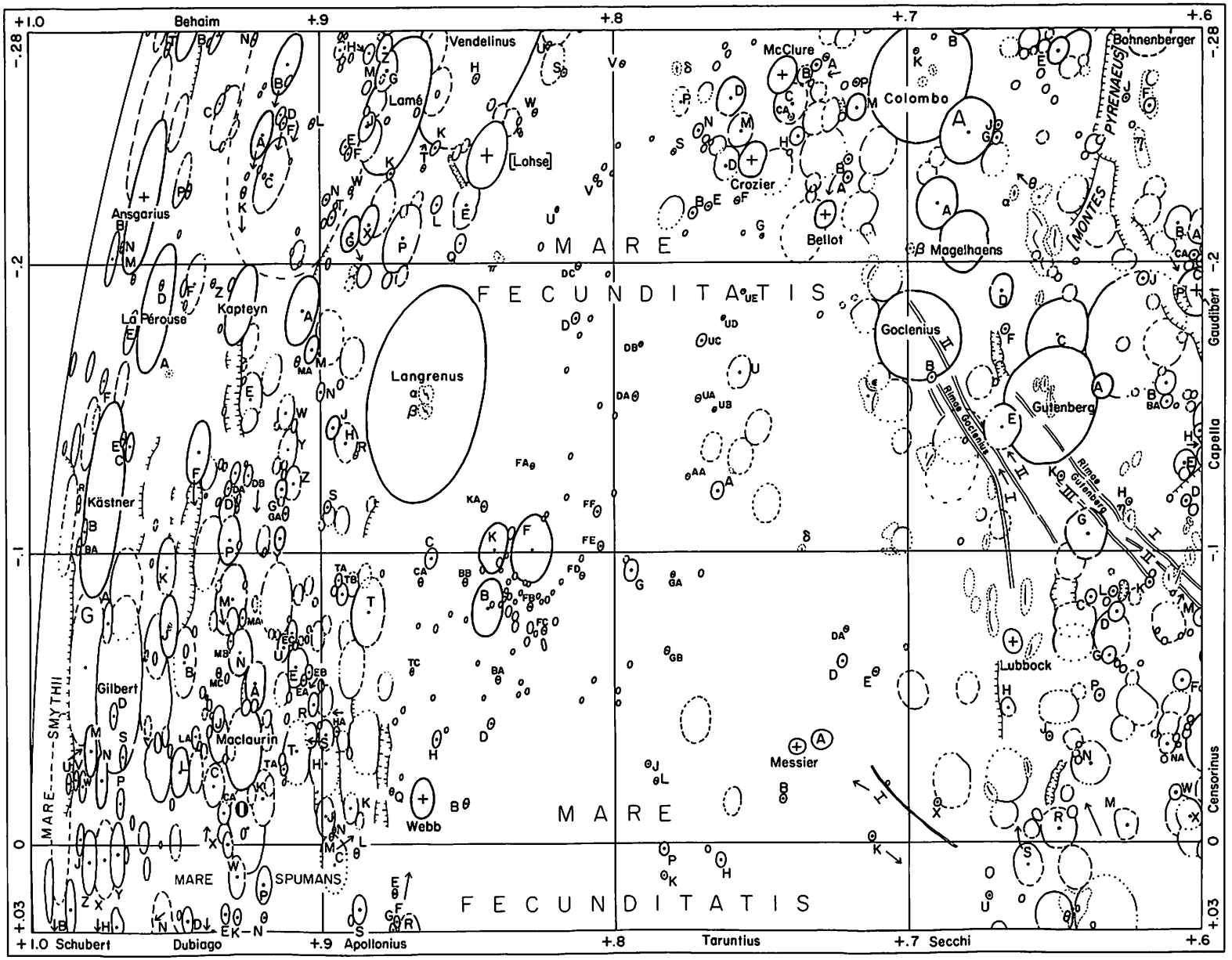
The entry "Sylvester - D1" is missing from page 57 and the entry "Sylvester - 21929A" from page 55 of Comm. LPL No. 40. The designation is also absent from map section D1.

The designation Moretus C (-.058, -.954) is missing in the map D8.

On page 48 of Comm. LPL No. 40 the reference number for Copernicus should be 23136B.

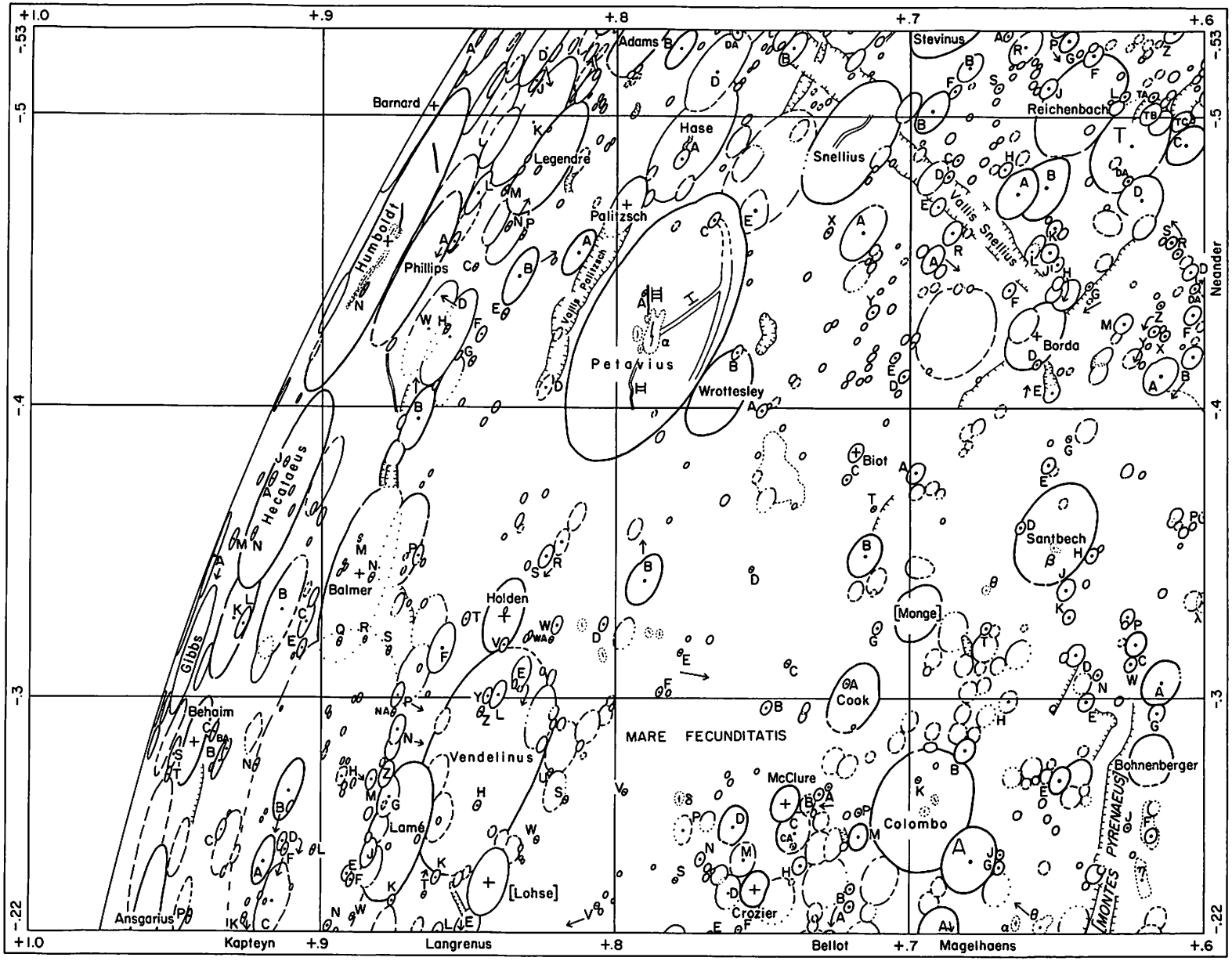
MAP INDEX





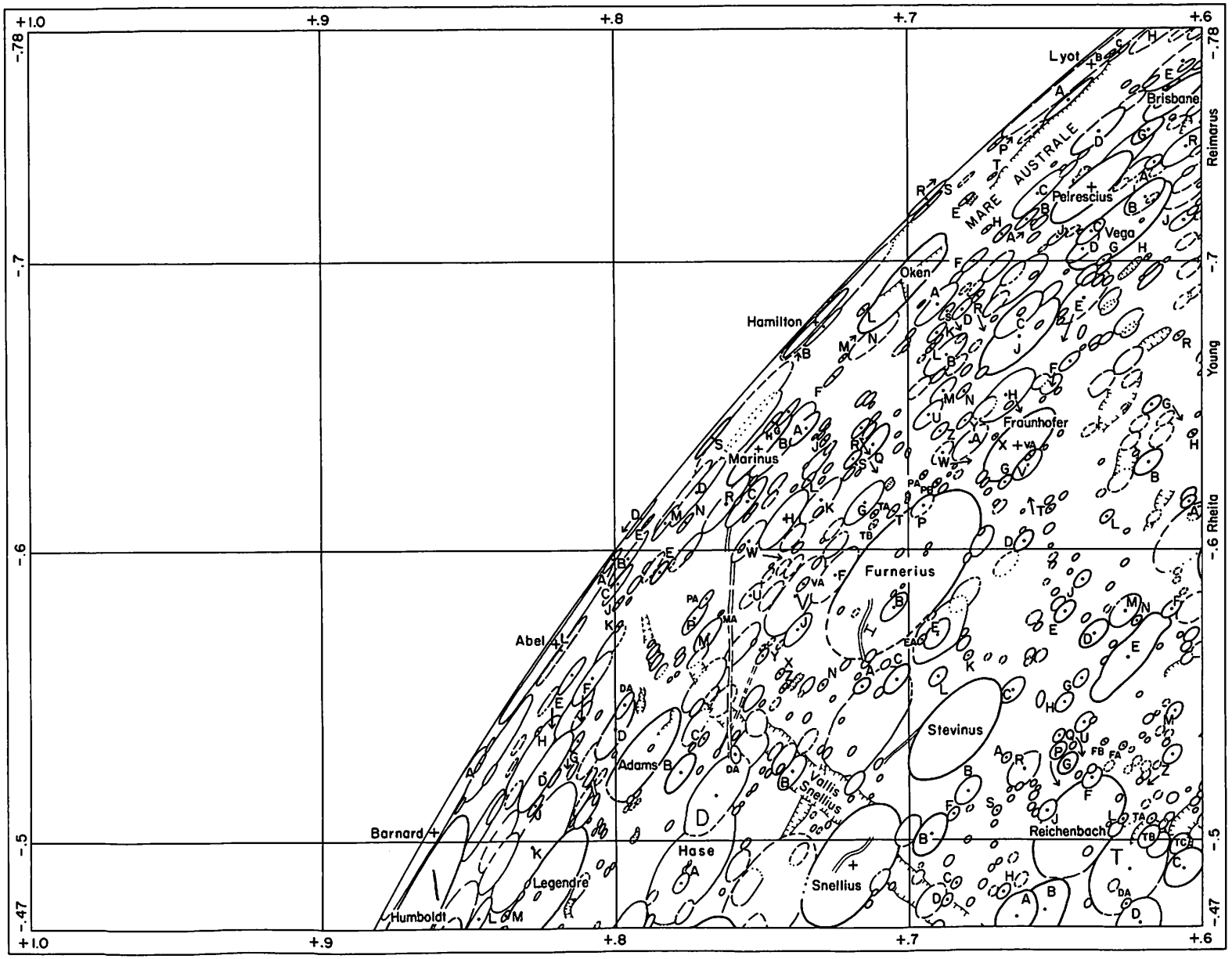
LUNAR NOMENCLATURE

A 5

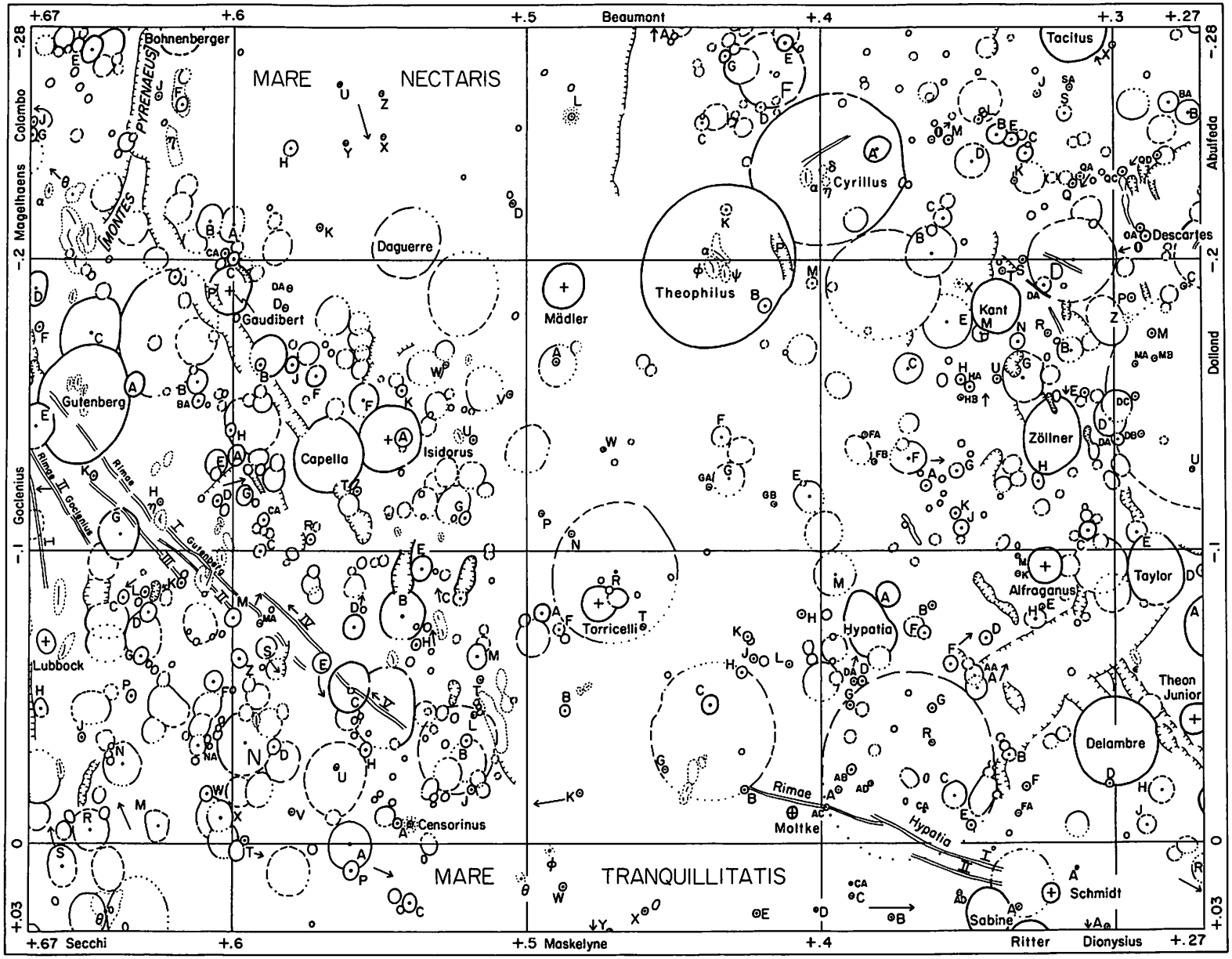


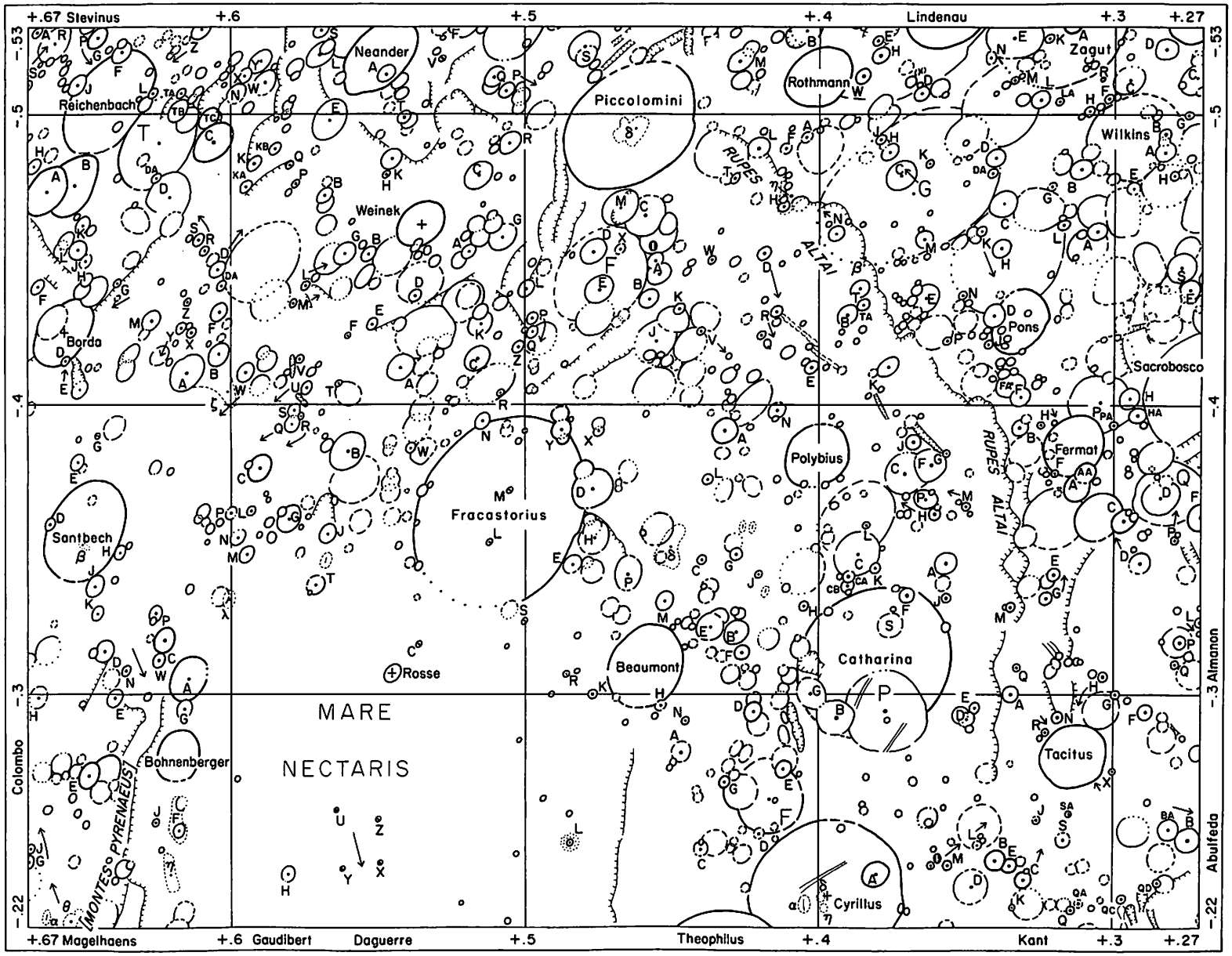
LUNAR NOMENCLATURE

A 6



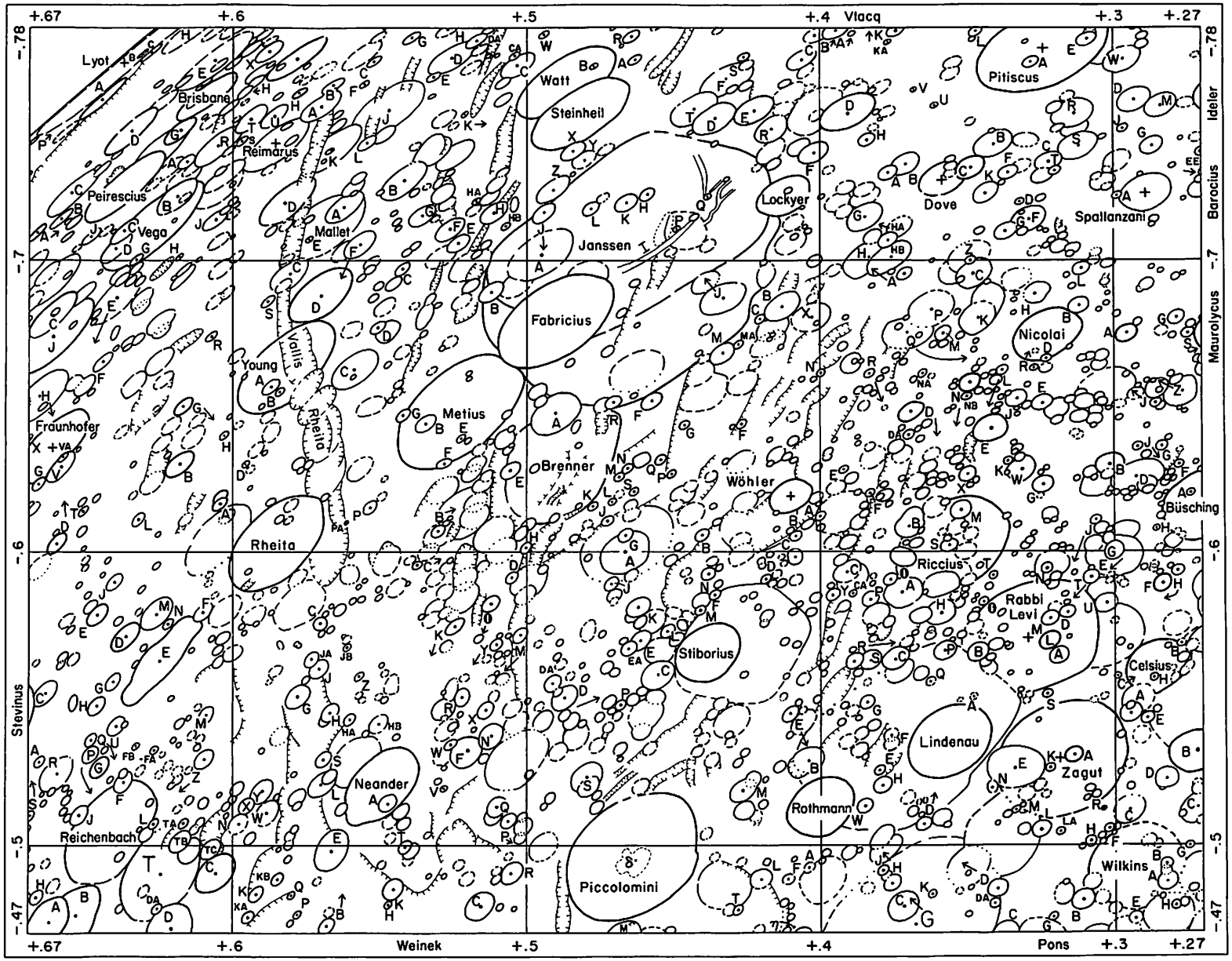
LUNAR NOMENCLATURE


+.67
+.6
+.5
Beaumont
+.4
+.3
+.27
-.28
-.2
-.1
0
+.03
Colombo
Magelhaens
Goclenius
Abulfeda
Dolland
MARE NECTARIS
MARE TRANQUILLITATIS
Bohnenberger
PYRENAEUS MONTES
Daguerre
Gaudibert
Mädler
Theophilus
Cyrillus
Tacitus
Descartes
Kant
Gutenberg
Capella
Isidorus
Zöllner
Taylor
Alfraganus
Torricelli
Hypatia
Lubbock
Theon Junior
Delambre
Rimae Goclenius I
Rimae Goclenius II
Rimae Goclenius III
Rimae Goclenius IV
Rimae
Hypatia
Moltke
Censorinus
Schmidt
Sabine
+.67 Secchi
+.6
+.5 Maskelyne
+.4
Ritter
Dionysius
+.27



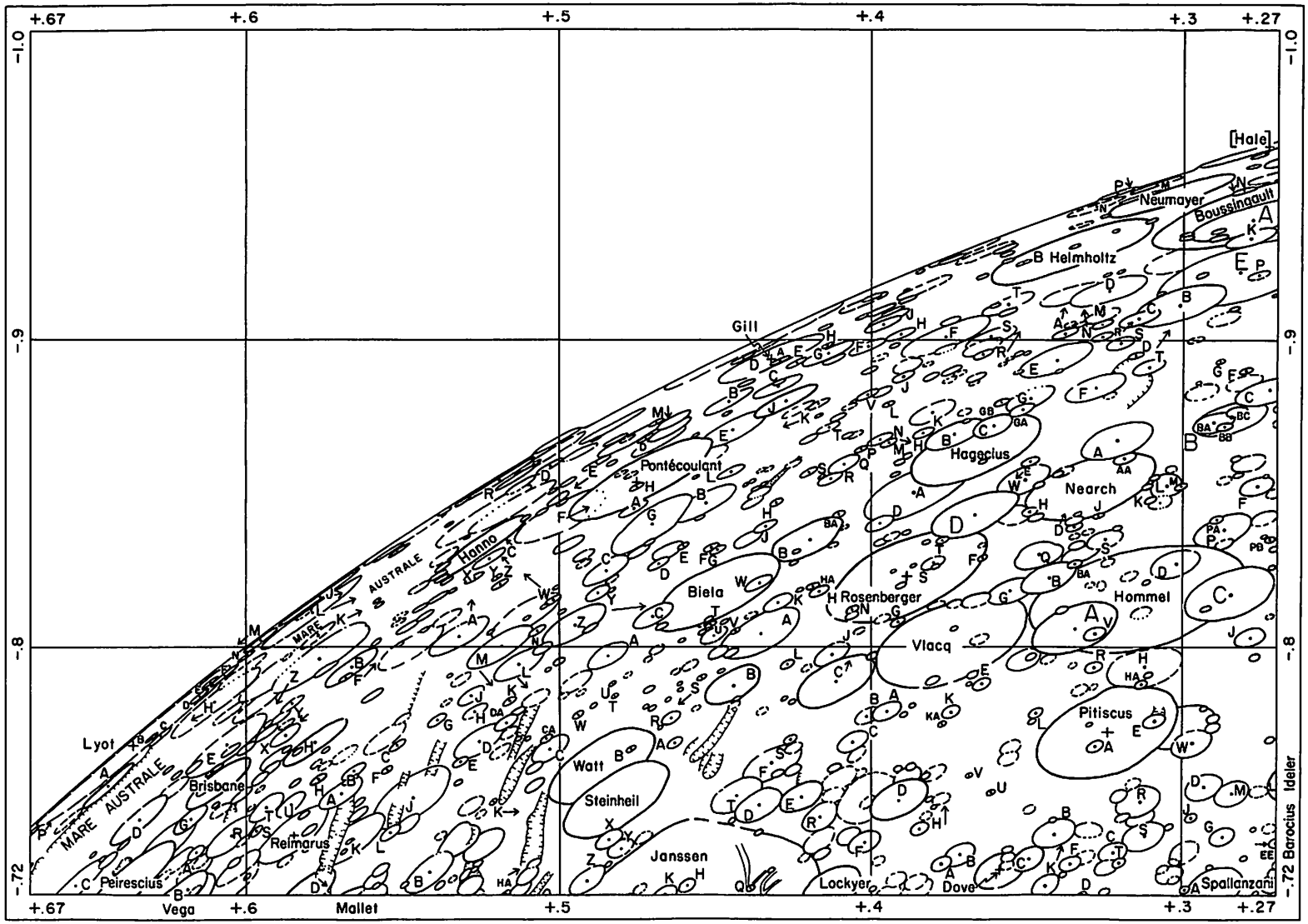
LUNAR NOMENCLATURE

B 6



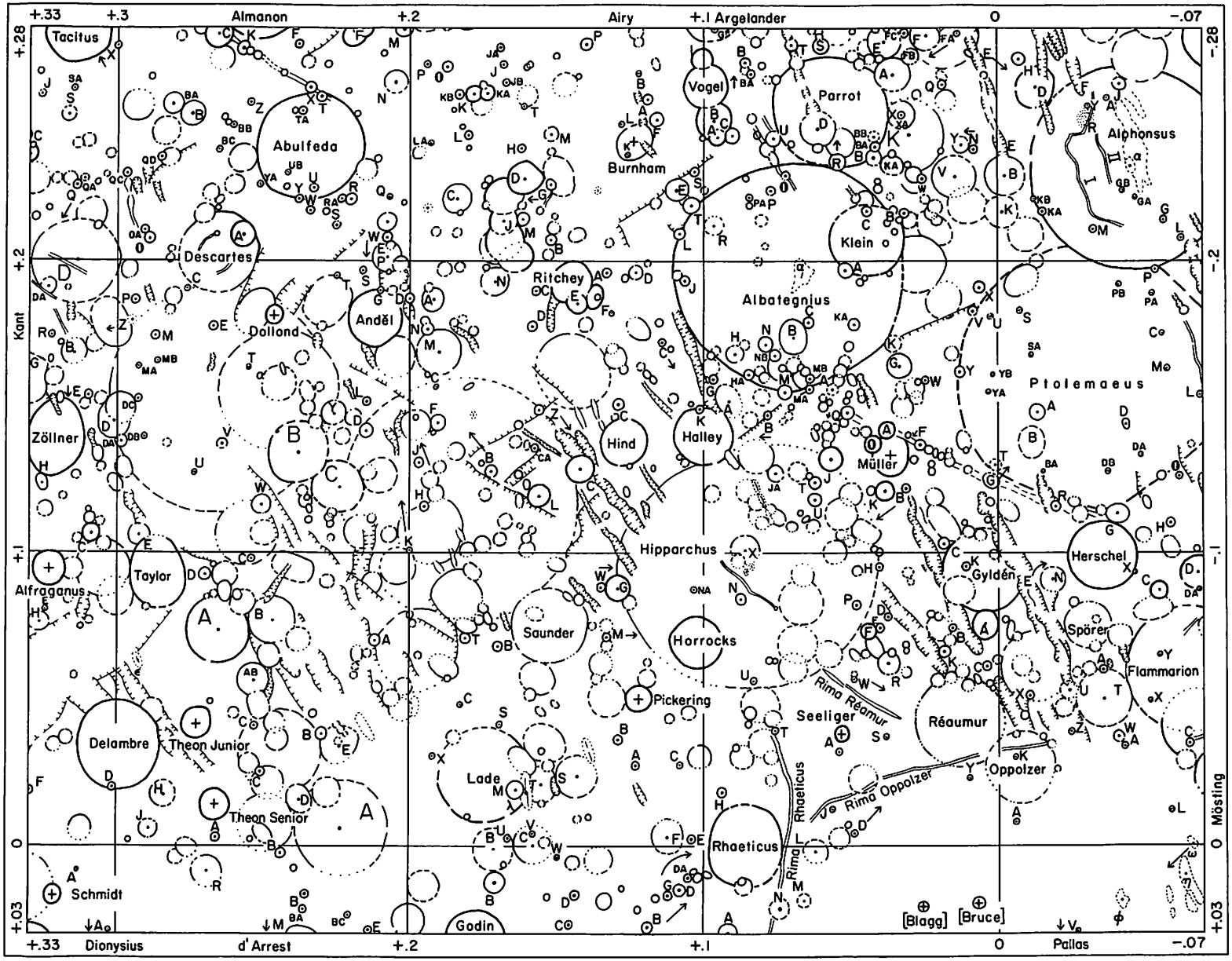
LUNAR NOMENCLATURE

B 7



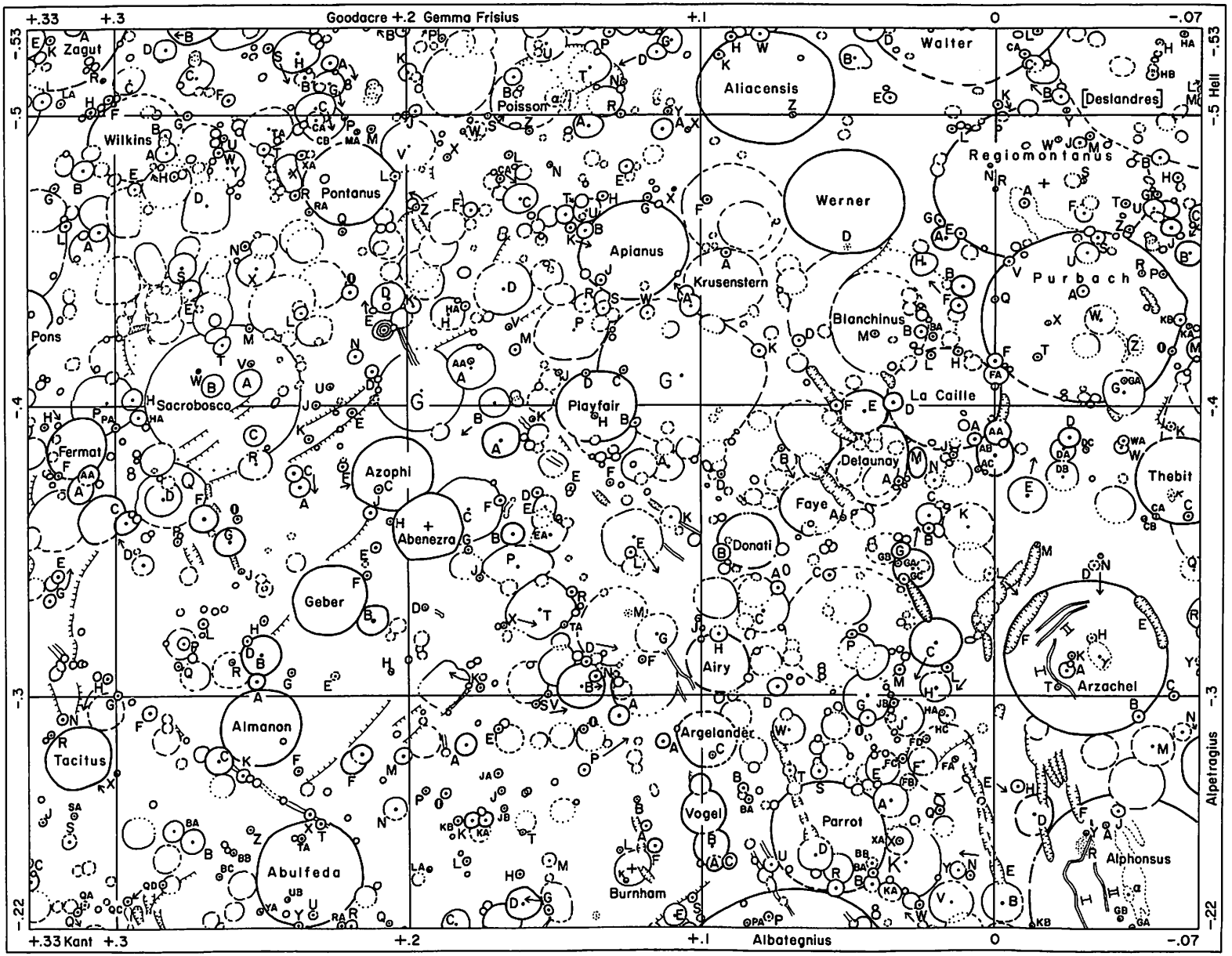
LUNAR NOMENCLATURE

B8



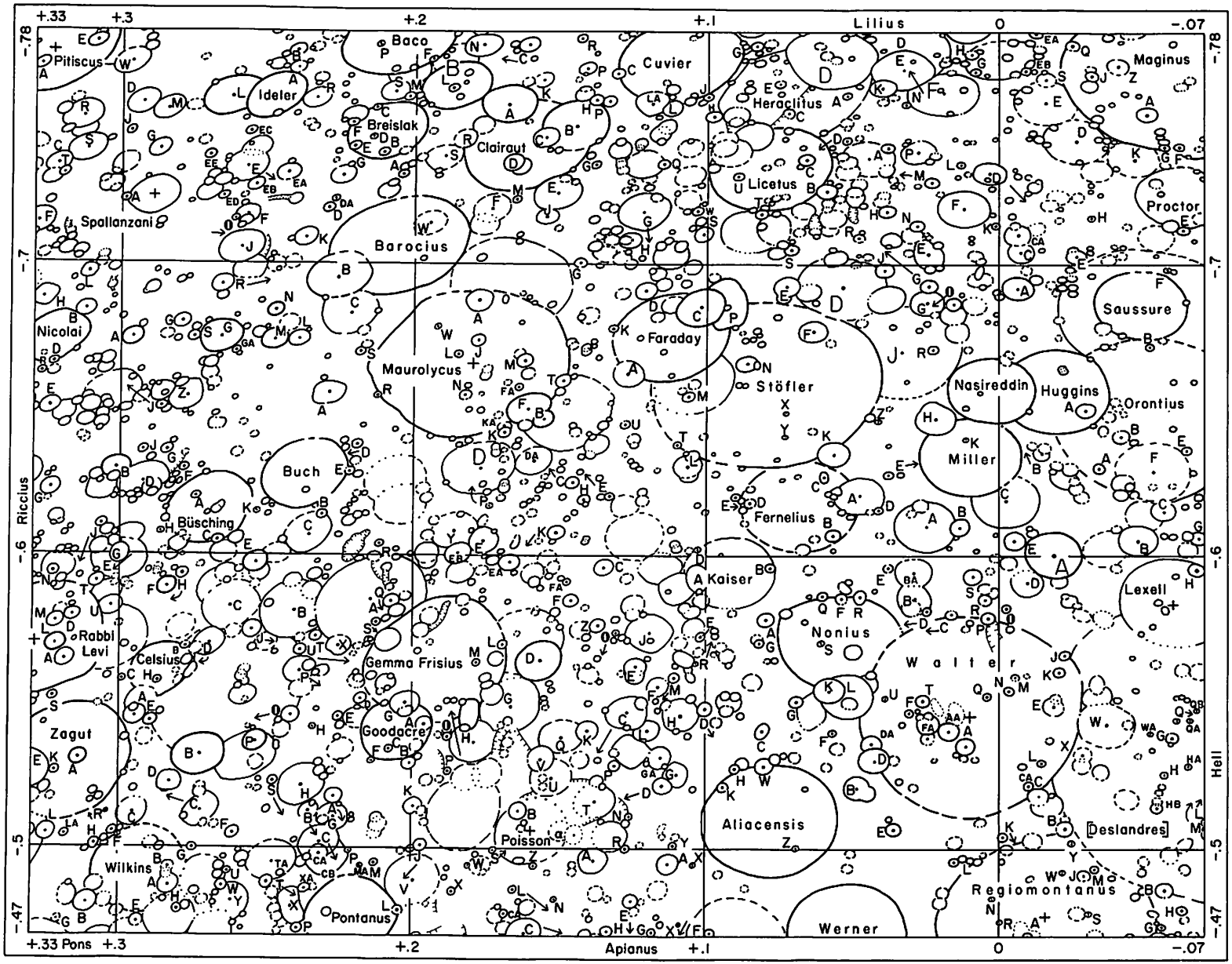
LUNAR NOMENCLATURE

C 5



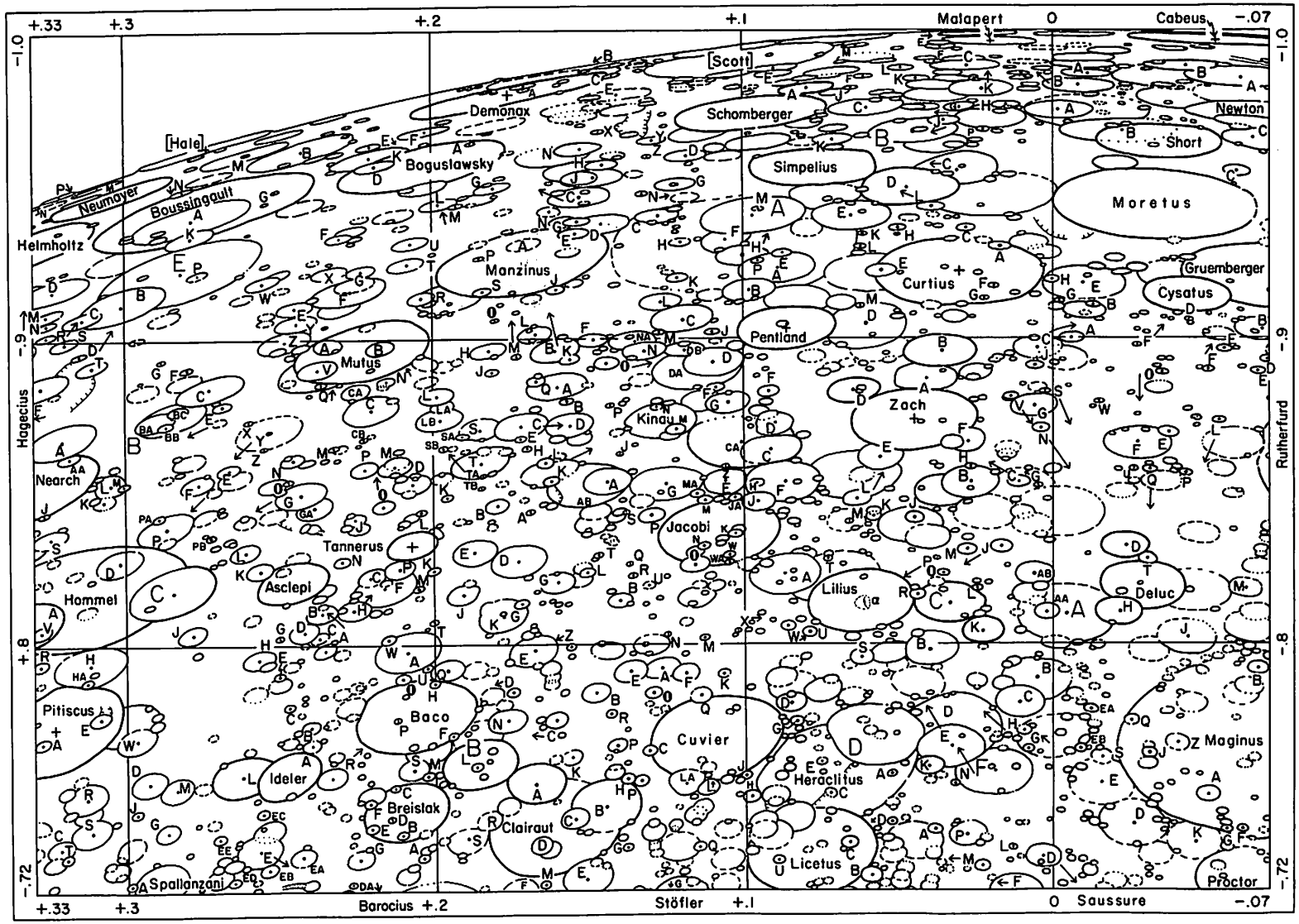
LUNAR NOMENCLATURE

C 6



LUNAR NOMENCLATURE

C 7



LUNAR NOMENCLATURE

C 8

TABLE OF CONTENTS