

I N

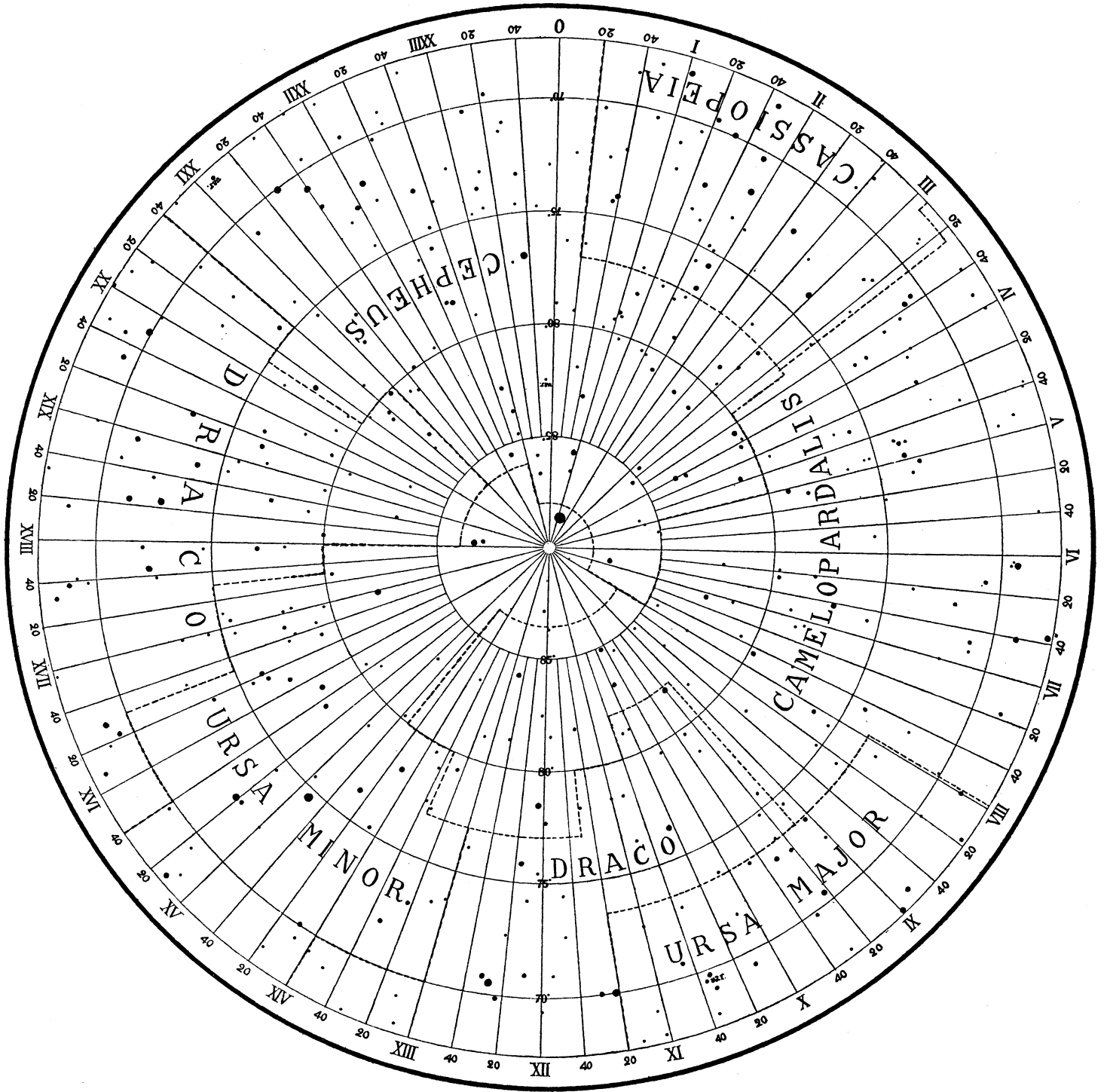
Hémisphère Nord

Calotte boréale

Limite en δ : +67° 30' à +90°*Constellations*: Camelopardalis—Cassiopeia—Cepheus—Draco—Ursa Major—Ursa Minor

Nom de l'étoile	Gr.	Sp.	1875		1925		
			α	δ	α	δ	
<i>Etoiles principales:</i>							
α	Cas	4.0	A 2	1 ^h 53 ^m 17 ^s	+71°49'.0	1 ^h 57 ^m 0 ^s	+72° 3'.6
β	Cep	3.3	B 1	21 27 2	+70 0.7	21 27 42	+70 13.9
γ	"	3.4	K 0	23 34 14	+76 56.1	23 36 15	+77 12.8
λ	Dra	4.1	Ma	11 23 58	+70 1.2	11 26 58	+69 44.7
κ	"	3.6	B 5p	12 28 8	+70 28.6	12 30 18	+70 12.1
ψ	"	4.5	F 5 + F 5	17 44 10	+72 12.5	17 43 16	+72 11.2
ϕ	"	4.3	A op	18 22 34	+71 16.3	18 21 50	+71 17.9
χ	"	3.6	F 8	18 23 22	+72 40.5	18 22 25	+72 42.0
ϵ	"	3.8	K 0	19 48 35	+69 57.0	19 48 26	+70 4.6
α	UMi	2.1	F 8	1 12 59	+88 38.6	1 34 14	+88 54.2
β	"	2.2	K 5	14 51 5	+74 40.0	14 50 55	+74 27.7
γ	"	3.1	A 2	15 20 56	+72 16.7	15 20 50	+72 6.1
ζ	"	4.3	A 2	15 48 34	+78 10.7	15 46 42	+78 1.6
ϵ	"	4.4	G 5	16 58 51	+82 14.4	16 53 36	+82 9.8
δ	"	4.4	A 0	18 12 39	+86 36.5	17 56 25	+86 36.8
<i>Etoiles variables:</i>							
R	UMa	6.0-12.0 8.0-13.5	Md	10 35 47	+69 25.8	10 39 23	+69 10.2
UX	Dra	6.5-8	Nb	19 25 59	+76 18.7	19 24 16	+76 24.7
T	Cep	5.5-9.5 7.0-10.6	Md	21 7 53	+67 59.0	21 8 33	+68 11.0
V	"	6.2-6.9	A 0	23 50 38	+82 29.8	23 52 53	+82 46.4
<i>Etoiles doubles:</i>							
α	UMi	2.2-9	F 8	1 12 59	+88 38.6	1 34 14	+88 54.2
π^1	"	6.1-7.0	G 5	15 36 24	+80 51.8	15 33 30	+80 41.9
β	Cep	3.3-8	B 1	21 27 2	+70 0.7	21 27 42	+70 13.9

I N



Grandeur des Etoiles ● ● ● ● ●
2 3 4 5 6

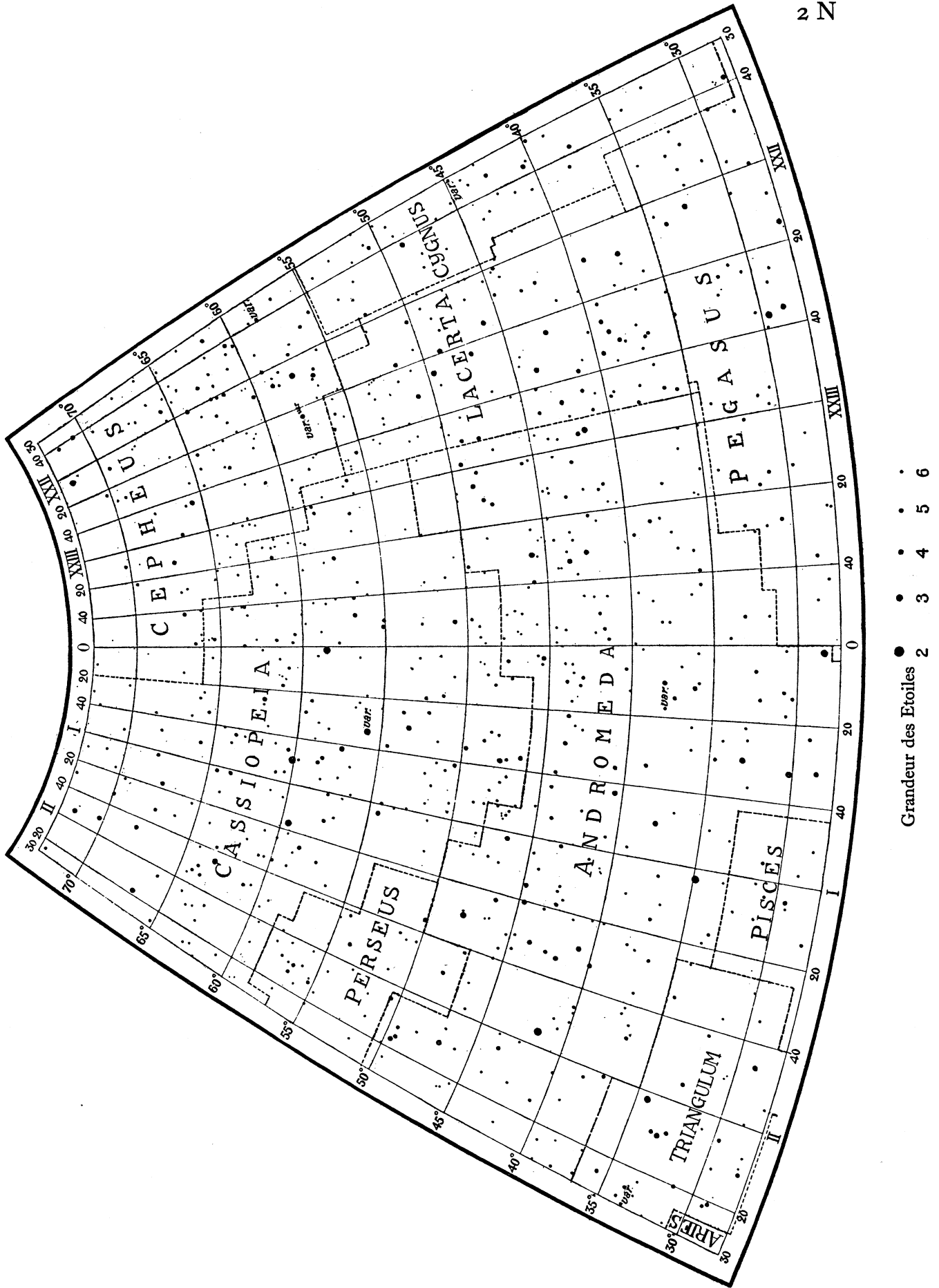
2 N

Hémisphère Nord

Limites $\left\{ \begin{array}{l} \alpha: 21^{\text{h}} 30^{\text{m}} \text{ à } 2^{\text{h}} 30^{\text{m}} \\ \delta: +27^{\circ} 30' \text{ à } +72^{\circ} 30' \end{array} \right.$

Constellations: Andromeda—Cassiopeia—Cepheus—Lacerta—Pegasus—Perseus—Pisces—Triangulum

Nom de l'étoile	Gr.	Sp	1875		1925		
			α	δ	α	δ	
<i>Etoiles principales:</i>							
α And	3·5	B 5 + A 2p	22 ^h 56 ^m 10 ^s	+41°39'·3	22 ^h 58 ^m 28 ^s	+41°55'·3	
λ „	3·8	K 0	23 31 27	+45 46·9	23 33 53	+46 3·1	
ι „	4·3	B 8	23 32 1	+42 34·6	23 34 27	+42 51·2	
κ „	4·3	A 0	23 34 15	+43 38·5	23 36 43	+43 55·1	
α „	2·2	A op	0 1 56	+28 24·0	0 4 30	+28 40·6	
π „	4·2	B 3	0 30 13	+33 1·9	0 32 52	+33 18·4	
ϵ „	4·3	G 5	0 31 57	+28 38·0	0 34 35	+28 54·3	
δ „	3·2	K 2	0 32 39	+30 10·6	0 35 19	+30 27·1	
ν „	4·4	B 3	0 42 56	+40 23·9	0 45 40	+40 40·2	
μ „	3·9	A 2	0 49 49	+37 49·3	0 52 35	+38 5·6	
ϕ „	4·5	B 8	1 2 15	+46 34·5	1 5 8	+46 50·5	
β „	2·4	Ma	1 2 44	+34 57·4	1 5 32	+35 13·4	
υ „	4·3	G 0	1 29 28	+40 46·7	1 33 24	+41 4·0	
ζ „ (1)	3·8	K 0	1 30 20	+47 59·7	1 33 23	+48 14·9	
γ „	2·1	K 0 + A 0	1 56 14	+41 43·7	1 59 17	+41 58·2	
β Cas	2·4	F 5	0 2 31	+58 27·6	0 5 10	+58 44·2	
κ „	4·2	B 0	0 25 55	+62 14·5	0 28 43	+62 31·1	
ζ „	3·7	B 3	0 30 1	+53 12·5	0 32 47	+53 29·1	
α „	var.	K 0	0 33 25	+55 51·1	0 36 14	+56 7·6	
η „	3·6	F 8	0 41 33	+57 9·1	0 44 33	+57 25·2	
γ „	2·2	B op	0 49 11	+60 2·4	0 52 10	+60 18·7	
δ „	2·8	A 5	1 17 39	+59 35·1	1 20 54	+59 50·8	
ϵ „	3·3	B 3	1 45 25	+63 3·2	1 48 59	+63 18·1	
ζ „	4·0	A 2	1 53 17	+71 49·0	1 57 0	+72 3·6	
μ Cep	var.	Ma	21 39 41	+58 12·4	21 41 13	+58 26·1	
ζ „	3·6	K 0	22 6 31	+57 35·1	22 8 15	+57 49·9	
δ „	var.	F 5 - G 0	22 24 32	+57 46·6	22 26 23	+58 1·9	
ι „	3·5	K 0	22 45 14	+65 32·6	22 47 0	+65 48·3	
α Lac	3·8	A 0	22 26 9	+49 38·4	22 28 12	+49 53·8	
π Peg	4·3	F 5	22 4 26	+32 33·9	22 6 39	+32 48·6	
η „	2·9	G 0	22 37 9	+29 34·1	22 39 29	+29 49·7	
ϕ Per (2)	4·2	B op	1 35 50	+50 3·5	1 38 57	+50 18·7	
τ Psc	4·5	K 0	1 4 47	+29 25·5	1 7 32	+29 41·5	
α Tri	3·6	F 5	1 45 58	+28 58·1	1 48 48	+29 12·9	
β „	3·0	A 5	2 2 7	+34 23·7	2 5 4	+34 38·0	
γ „	4·2	A 0	2 9 53	+33 16·1	2 12 51	+33 30·1	
(1) υ Per = ζ And (2) ϕ Per = ζ And							
<i>Etoiles variables:</i>							
T Cep	5·5-9·5 7·0-10·6	Md	21 7 53	+67 59·0	21 8 33	+68 11·0	
μ „	3·7-4·7	Ma	21 39 41	+58 12·4	21 41 13	+58 26·1	
δ „	3·6-4·2	F 5 - G 0	22 24 32	+57 46·6	22 26 23	+58 1·9	
R Cas	5-10	Md	23 52 3	+50 41·6	23 54 37	+50 58·2	
R And	5·6-12 7·7-<13	Pec	0 17 26	+37 53·2	0 20 4	+38 9·7	
α Cas	2·2-2·8	K 0	0 33 25	+55 51·1	0 36 14	+56 7·6	
R Tri	6·2-11·6	Md	2 29 29	+33 43·2	2 32 30	+33 56·2	
<i>Etoiles doubles:</i>							
ξ Cep	5·3-8·5	A 3 + G	22 0 10	+64 1·2	22 1 35	+64 16·7	
π Peg	4·4-5·7	F 5	22 4 26	+32 33·9	22 6 39	+32 48·6	
δ Lac	6·0-6·5 8·5-10	B 5 + B 3p	22 30 19	+38 59·1	22 32 32	+39 14·7	
σ Cas	5·7-8·5	B 2	23 52 41	+55 3·5	23 55 13	+55 20·2	
π And	4·2-8	B 3	0 30 13	+33 1·9	0 32 52	+33 18·4	
η Cas	4·7-5	F 8	0 41 33	+57 9·1	0 44 33	+57 25·2	
γ And	2·1-5	K 0 + A 0	1 56 14	+41 43·7	1 59 17	+41 58·2	
ι Tri	5-6·5	G 0	2 5 7	+29 42·1	2 8 0	+29 57·0	
<i>Nébuleuses et amas:</i>							
H VIII 75 Lac			22 10	+49 16	22 12	+49 31	
M 52 Cep			23 19	+60 54	23 21	+61 11	
H VI 30 Cas			23 50	+56 1	23 53	+56 18	
M 31 And			0 36	+40 35	0 39	+40 51	
H VI 33-34 Per			2 13	+56 32	2 17	+56 46	



3 N

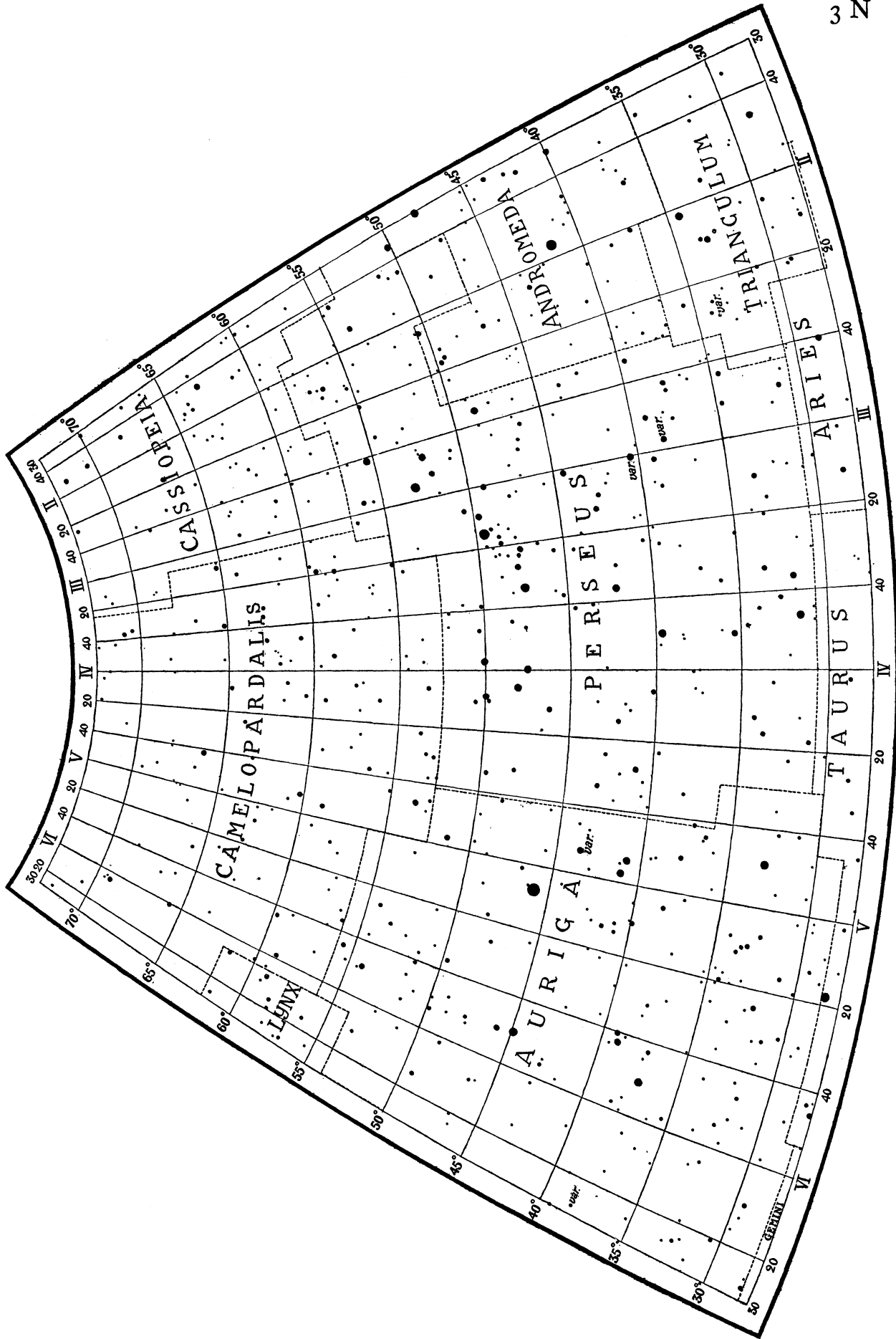
Hémisphère Nord

Limites $\left\{ \begin{array}{l} \alpha: 1^h 30^m \text{ à } 6^h 30^m \\ \delta: + 27^\circ 30' \text{ à } + 72^\circ 30' \end{array} \right.$

Constellations: Andromeda—Auriga—Camelopardalis—Cassiopeia—Perseus—Triangulum

Nom de l'étoile	Gr.	Sp.	1875		1925		
			α	δ	α	δ	
<i>Etoiles principales:</i>							
51 And (1)	3.8	K o	1 ^h 30 ^m 20 ^s	+47°59'.7	1 ^h 33 ^m 23 ^s	+48°14'.9	
γ „	2.1	K o + A o	1 56 14	+41 43 .7	1 59 17	+41 58 .2	
ι Aur	2.9	K 2	4 48 51	+32 58 .0	4 52 6	+33 2 .0	
ϵ „	var.	F 5p	4 53 0	+43 38 .2	4 56 35	+43 42 .8	
ζ „	4.0	K o + B 1	4 53 45	+40 53 .5	4 57 14	+40 57 .7	
η „	3.6	B 3	4 57 45	+41 3 .8	5 1 15	+41 8 .1	
α „	0.2	G o	5 7 27	+45 52 .1	5 11 9	+45 55 .4	
ν „	3.9	K o	5 42 50	+39 6 .6	5 46 17	+39 7 .7	
δ „	3.9	K o	5 49 14	+54 16 .3	5 53 21	+54 16 .9	
β „	2.1	A op	5 50 22	+44 55 .9	5 54 2	+44 56 .5	
θ „	2.7	A op	5 51 12	+37 12 .1	5 54 36	+37 12 .5	
2 ^H Cam	4.4	B 9p	3 18 58	+59 30 .2	3 22 59	+59 40 .8	
α „	4.3	B o	4 41 38	+66 7 .6	4 46 35	+66 13 .1	
β „	4.2	G op	4 52 18	+60 15 .4	4 56 44	+60 20 .1	
ϵ Cas	3.3	B 3	1 45 25	+63 3 .2	1 48 59	+63 18 .1	
50 „	4.0	A 2	1 53 17	+71 49 .0	1 57 0	+72 3 .6	
ϕ Per (2)	4.2	B op	1 35 50	+50 3 .5	1 38 57	+50 18 .7	
θ „	4.1	F 8	2 35 40	+48 41 .9	2 39 4	+48 54 .7	
η „	3.9	K o	2 41 35	+55 22 .5	2 45 13	+55 35 .1	
τ „	4.1	G o + A 5	2 45 24	+52 15 .0	2 48 56	+52 27 .4	
γ „	3.0	F 5 + A 3	2 55 45	+53 0 .9	2 59 21	+53 12 .8	
ρ „	var.	M b	2 57 10	+38 21 .3	3 0 22	+38 33 .0	
β „	var.	B 8	3 0 2	+40 28 .3	3 3 17	+40 40 .1	
ι „	4.2	G o	3 0 3	+49 8 .0	3 3 39	+49 19 .7	
κ „	4.8	K o	3 1 4	+44 22 .9	3 4 26	+44 34 .3	
α „	1.9	F 5	3 15 24	+49 24 .9	3 18 58	+49 35 .7	
δ „	3.1	B 5	3 34 2	+47 23 .2	3 37 35	+47 32 .9	
σ „	3.9	B 1	3 36 29	+31 53 .4	3 39 37	+32 3 .1	
ν „	3.9	F 5	3 36 43	+42 10 .9	3 40 6	+42 20 .6	
ζ „	2.9	B 1	3 46 17	+31 30 .6	3 49 25	+31 39 .7	
ϵ „	3.0	B 1	3 49 28	+39 38 .8	3 52 49	+39 47 .7	
ξ „	4.0	Oe 5	3 50 51	+35 25 .8	3 54 6	+35 34 .6	
λ „	4.3	A o	3 57 17	+50 0 .6	4 0 59	+50 9 .0	
ς „	4.0	B 3p	3 59 36	+47 22 .6	4 3 13	+47 30 .8	
μ „	4.0	G o	4 5 44	+48 5 .4	4 9 25	+48 11 .8	
α Tri	3.6	F 5	1 45 58	+28 58 .1	1 48 48	+29 12 .9	
β „	3.0	A 5	2 2 7	+34 23 .7	2 5 4	+34 38 .0	
γ „	4.2	A o	2 9 53	+33 16 .1	2 12 51	+32 30 .1	
(1) ν Per = 51 And (2) ϕ Per = 54 And							
<i>Etoiles variables:</i>							
R Tri	6.2-11.6	M d	2 29 29	+33 43 .2	2 32 30	+33 56 .2	
ρ Per	3.3-4.1	M b	2 57 10	+38 21 .3	3 0 22	+38 33 .0	
β „	2.4-3.5	B 8	3 0 2	+40 28 .3	3 3 17	+40 40 .1	
ϵ Aur	3.3-4.1	F 5p	4 53 0	+43 38 .2	4 56 35	+43 42 .8	
UU „	5.4-6.0	Na	6 27 57	+38 32 .6	6 31 23	+38 30 .6	
<i>Etoiles doubles:</i>							
γ And	2.3-5.1	K o + A o	1 56 14	+41 43 .7	1 59 17	+41 58 .2	
ι Tri	5-6.5	G o	2 5 7	+29 43 .0	2 8 0	+29 57 .0	
η Per	3.9-8.7	K o	2 41 35	+55 22 .5	2 45 13	+55 35 .1	
<i>Nébuleuses et amas:</i>							
H VI 33-34 Per			2 13	+56 32	2 17	+56 46	
M 38 Aur			5 20	+35 43	5 24	+35 45	
M 37 „			5 45	+32 31	5 47	+32 32	

3 N



Grandeur des Etoiles ● 0 1 2 3 4 5 6

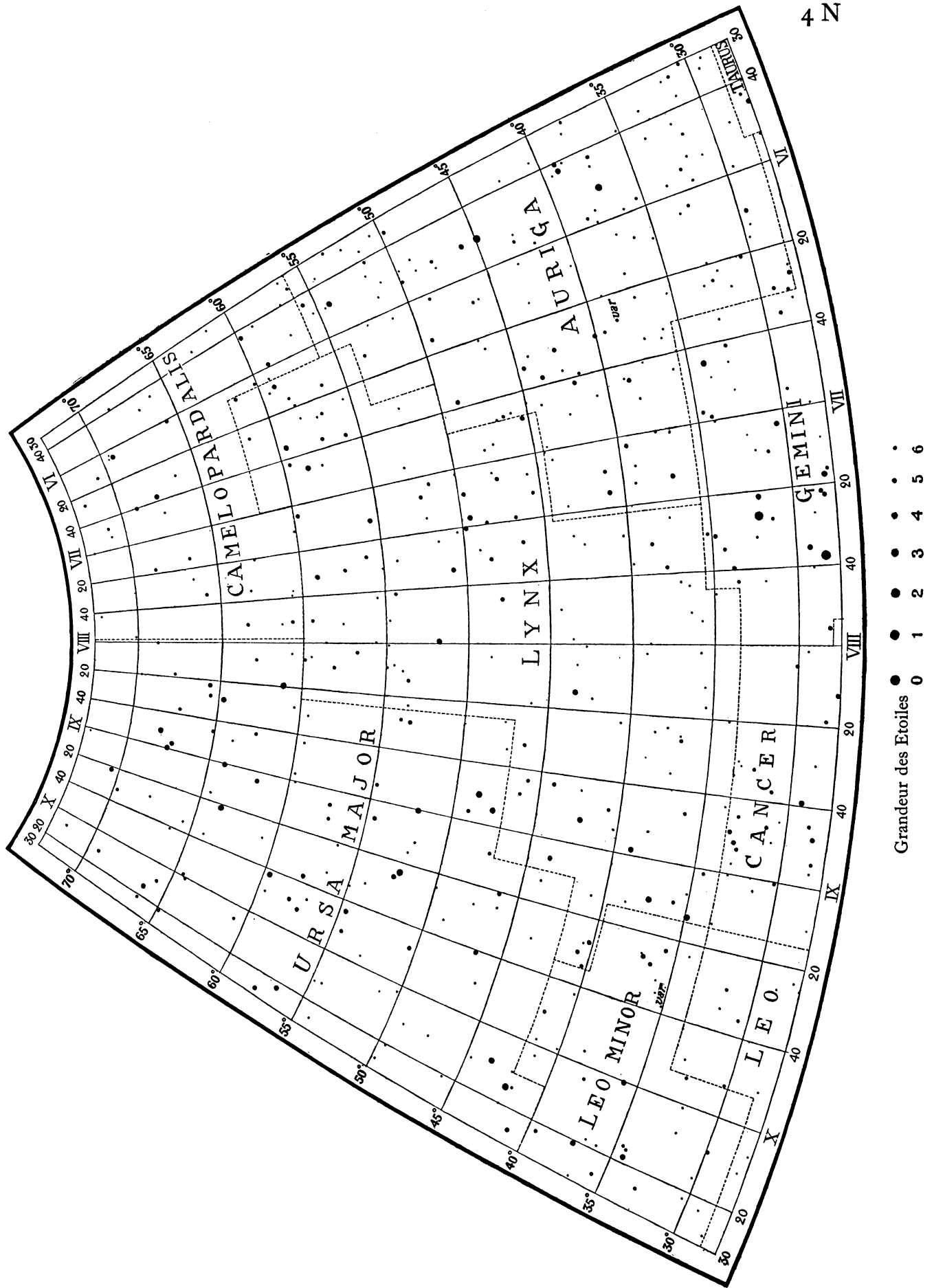
4 N

Hémisphère Nord

$$\text{Limites } \begin{cases} \alpha: 5^{\text{h}} 30^{\text{m}} \text{ à } 10^{\text{h}} 30^{\text{m}} \\ \delta: +27^{\circ} 30' \text{ à } +72^{\circ} 30' \end{cases}$$

Constellations: Auriga—Camelopardalis—Cancer—Gemini—Leo Minor—Lynx—Ursa Major

Nom de l'étoile	Gr.	Sp.	1875		1925		
			α	δ	α	δ	
<i>Etoiles principales:</i>							
ν Aur	3·9	K 0	5 ^h 42 ^m 30 ^s	+39° 6'·6	5 ^h 46 ^m 17 ^s	+39° 7'·7	
δ „	3·9	K 0	5 49 14	+54 16'·3	5 53 21	+54 16'·9	
β „	2·1	A 0p	5 50 22	+44 55'·9	5 54 2	+44 56'·5	
θ „	2·7	A 0p	5 51 12	+37 12'·1	5 54 36	+37 12'·5	
ϵ Cnc	4·2	A 5+G 5	8 39 8	+29 12'·9	8 42 10	+29 2'·1	
θ Gem	3·6	A 2	6 44 43	+34 6'·6	6 47 51	+34 3'·2	
ι „	3·9	K 0	7 17 58	+28 2'·7	7 21 4	+27 56'·9	
ρ „	4·2	F 0	7 21 4	+32 1'·9	7 24 17	+31 56'·1	
α „	1·7	A 0	7 26 37	+32 9'·6	7 29 49	+32 3'·3	
β „	1·2	K 0	7 37 40	+28 19'·6	7 40 44	+28 12'·5	
β LMi	4·2	K 0	10 20 39	+37 20'·8	10 23 33	+37 5'·5	
σ UMa	3·3	G 0	8 19 52	+61 8'·0	8 24 3	+60 58'·2	
ι „	3·1	A 5	8 50 38	+48 31'·9	8 54 5	+48 20'·2	
ι 10 „	4·1	F 5	8 52 31	+42 16'·6	8 55 47	+42 4'·9	
κ „	3·7	A 0	8 55 5	+47 39'·0	8 58 31	+47 27'·3	
h „	3·8	F 0	9 21 39	+63 36'·4	9 25 38	+63 23'·5	
θ „	3·3	F 8p	9 24 29	+52 14'·7	9 27 51	+52 1'·2	
ν „	3·9	F 0	9 42 5	+59 37'·5	9 45 40	+59 23'·5	
λ „	3·5	A 2	10 9 33	+43 32'·3	10 12 35	+43 17'·4	
μ „	3·0	K 5	10 14 53	+42 7'·6	10 17 52	+41 52'·6	
α Lyn	3·3	K 5	9 13 26	+34 55'·2	9 16 30	+34 42'·6	
<i>Etoiles variables:</i>							
UU Aur	5·4-6·0	Na	6 27 57	+38 32'·6	6 31 23	+38 30'·6	
R LMi	6·2-7·8- 12·0	Md	9 38 5	+35 5'·1	9 41 5	+34 51'·5	
<i>Etoiles doubles:</i>							
ι 2 Lyn	5·6-7·5	A 2	6 35 11	+59 33'·9	6 39 37	+59 30'·7	
α Gem	2·0-2·9	A 0	7 26 37	+32 9'·6	7 29 49	+32 3'·3	
<i>Nébuleuses et amas:</i>							
M 37 Aur			5 45	+32 31	5 47	+32 32	



5 N

Hémisphère Nord

 Limites $\left\{ \begin{array}{l} \alpha: 9^{\text{h}} 30^{\text{m}} \text{ à } 14^{\text{h}} 30^{\text{m}} \\ \delta: +27^{\circ} 30' \text{ à } +72^{\circ} 30' \end{array} \right.$

Constellations: Bootes—Canes Venatici—Coma Berenices—Draco—Leo Minor—Ursa Major

Nom de l'étoile	Gr.	Sp.	1875		1925		
			α	δ	α	δ	
<i>Etoiles principales:</i>							
κ Boo	4.3	A 5	14 ^h 9 ^m 0 ^s	+52° 22'.5	14 ^h 10 ^m 47 ^s	+52° 8'.5	
λ "	4.0	A 0	14 11 38	+46 39.8	14 13 32	+46 25.9	
θ "	3.9	F 8	14 20 56	+52 25.8	14 22 39	+52 11.8	
ρ "	3.8	K 0	14 26 27	+30 55.3	14 28 36	+30 42.0	
γ "	2.9	F 0	14 27 3	+38 51.4	14 29 4	+38 38.1	
β CVn	4.3	G 0	12 27 48	+42 2.2	12 30 11	+41 45.9	
α "	2.9	A 0p	12 50 11	+38 59.6	12 52 31	+38 43.4	
β Com	4.3	G 0	13 6 2	+28 30.7	13 8 23	+28 15.5	
λ Dra	4.1	Ma	11 23 57	+70 1.2	11 26 58	+69 44.7	
κ "	4.1	B 5p	12 28 8	+70 28.6	12 30 18	+70 12.1	
α "	3.6	A 0p	14 1 0	+64 58.4	14 2 22	+64 44.0	
β LMi	4.2	K 0	10 20 39	+37 20.8	10 23 33	+37 5.5	
46 "	3.9	K 0	10 46 19	+34 53.3	10 49 7	+34 37.2	
ν UMa	3.9	F 0	9 42 5	+59 37.5	9 45 40	+59 23.5	
λ "	3.5	A 2	10 9 33	+43 32.3	10 12 35	+43 17.4	
μ "	3.0	K 5	10 14 53	+42 7.6	10 17 52	+41 52.6	
β "	2.4	A 0	10 54 17	+57 3.1	10 57 20	+56 47.1	
α "	2.0	K 0	10 56 0	+62 25.5	10 59 7	+62 9.4	
ψ "	3.2	K 0	11 2 38	+45 10.6	11 5 27	+44 54.3	
ξ "	3.9	G 0	11 11 31	+32 13.9	11 14 11	+31 57.1	
ν "	3.4	K 0	11 11 43	+33 46.6	11 14 26	+33 30.2	
χ "	3.8	K 0	11 39 27	+48 28.4	11 42 6	+48 11.7	
γ "	2.5	A 0	11 47 15	+54 23.4	11 49 54	+54 6.7	
δ "	3.4	A 2	12 9 14	+57 43.6	12 11 43	+57 27.0	
ϵ "	1.7	A 0p	12 48 31	+56 38.3	12 50 44	+56 22.0	
ζ "	2.4	A 2p + A 2	13 18 53	+55 34.7	13 20 55	+55 19.0	
η "	1.9	B 3	13 42 37	+49 56.3	13 44 35	+49 41.2	
<i>Etoiles variables:</i>							
R LMi	6.2-7.8-12.0	Md	9 38 5	+35 5.1	9 41 5	+34 51.5	
R UMa	6.0-12.0	Md	10 35 47	+69 25.8	10 39 23	+69 10.2	
T "	8.0-13.5	Md	12 30 41	+60 10.5	12 32 59	+59 54.0	
R CVn	6.5-12.0	Md	13 43 35	+40 9.9	13 45 45	+39 54.9	
	8.5-13.0						
	6.5-11.0						
	8.0-12.5						
<i>Etoiles doubles:</i>							
ξ UMa	4.4-4.9	G 0	11 11 31	+32 13.9	11 14 11	+31 57.1	
α CVn	2.9-5.4	A 0p	12 50 11	+38 59.6	12 52 31	+38 43.4	
ζ UMa	2.4-4.0	A 2p + A 2	13 18 53	+55 34.7	13 20 55	+55 19.0	
κ Boo	4.3-8.6	A 5	14 9 0	+52 22.5	14 10 47	+52 8.5	
<i>Nébuleuses et amas:</i>							
M 97 UMa			11 8	+55 42	11 11	+55 26	
M 51 CVn			13 25	+47 52	13 27	+47 37	
M 3 "			13 36	+29 1	13 39	+28 45	

