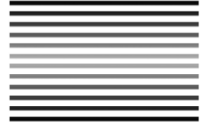
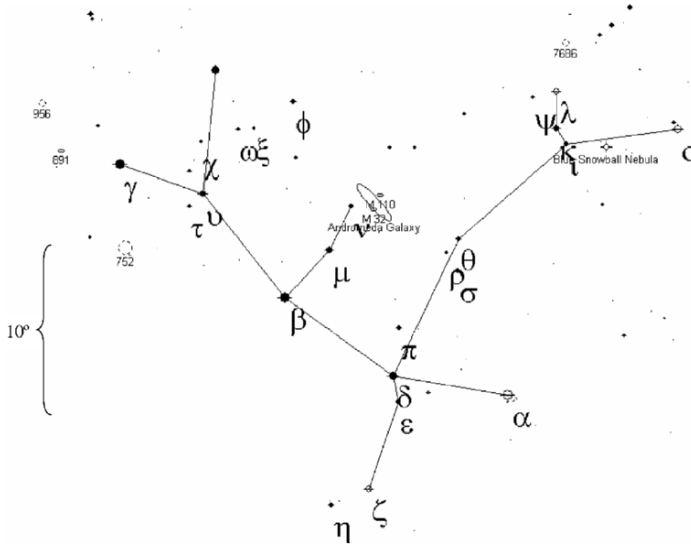


The Constellations



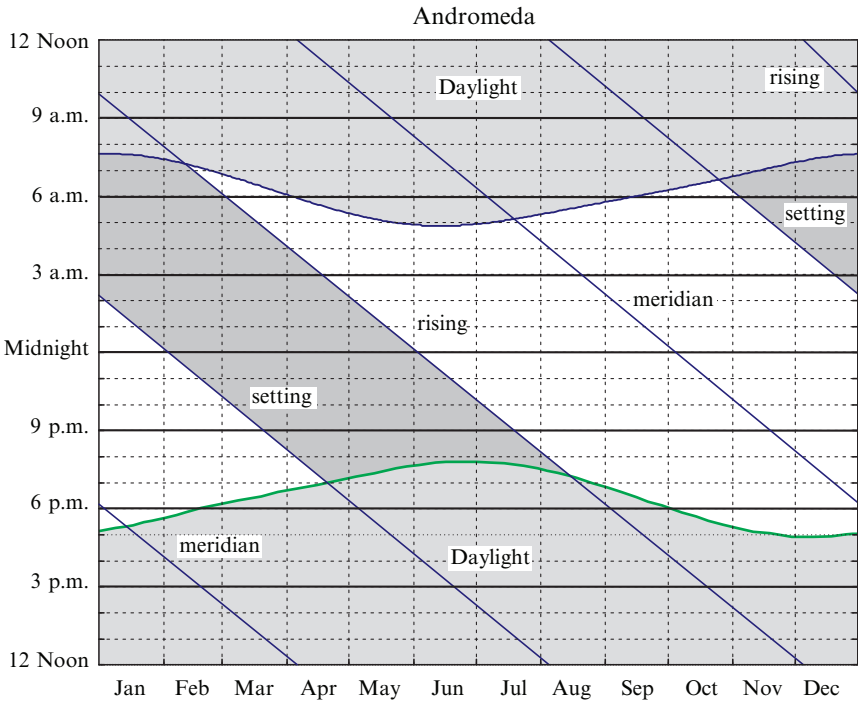
Andromeda

Princess of Ethiopia



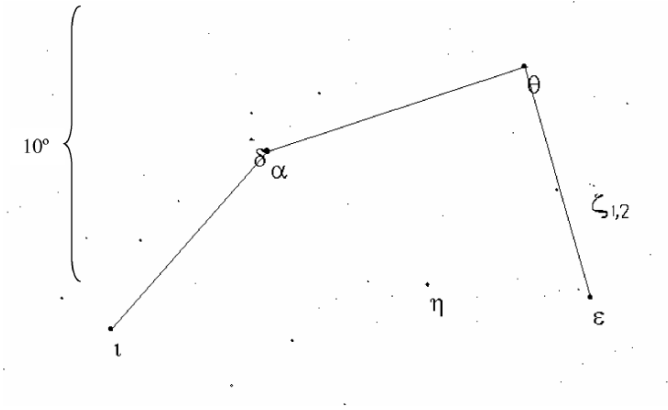
Star	Right ascension	Declination	Mag.
α	00h 08m 23.2s	+29° 05' 26"	2.06
β	01h 09m 43.9s	+35° 37' 14"	2.06
γ_1	02h 03m 53.9s	+42° 19' 47"	2.26
γ_2	02h 03m 54.7s	+42° 19' 51"	4.84
δ	00h 39m 19.6s	+30° 51' 40"	3.27
ϵ	00h 38m 33.3s	+29° 18' 43"	4.37
ζ	00h 47m 20.3s	+24° 16' 02"	4.06
η	00h 57m 12.4s	+23° 25' 04"	4.42
θ	00h 17m 05.4s	+38° 40' 54"	4.61
ι	23h 38m 08.1s	+43° 16' 05"	4.29
κ	23h 40m 24.4s	+44° 20' 02"	4.14
λ	23h 37m 33.8s	+46° 27' 30"	3.82
μ	00h 56m 45.1s	+38° 29' 58"	3.87
ν	00h 49m 48.8s	+41° 04' 44"	4.53
ξ	01h 22m 20.3s	+45° 31' 44"	4.88
\omicron	23h 01m 55.2s	+42° 19' 34"	3.62
π	00h 36m 52.8s	+33° 43' 10"	4.36
ρ	00h 21m 07.2s	+37° 58' 07"	5.18
σ	00h 18m 19.6s	+36° 47' 07"	4.52
τ	01h 40m 34.7s	+40° 34' 37"	4.94
υ	01h 36m 47.8s	+41° 24' 20"	4.09
ϕ	01h 09m 30.1s	+47° 14' 31"	4.25
χ	01h 39m 20.9s	+44° 23' 10"	4.98
ψ	23h 46m 02.0s	+46° 25' 13"	4.95
ω	01h 27m 39.2s	+45° 24' 25"	4.83

Deep sky object	Description	Right ascension	Declination	Mag.
M31	Andromeda Galaxy	00h 42m 42s	+41° 16.0'	3.4
M32	Satellite to M31	00h 42m 42s	+40° 52.0'	8.1
M110	Satellite to M31	00h 40m 24s	+41° 41.0'	8.5
NGC 752	Open Cluster	01h 57m 48s	+37° 41.0'	5.7
NGC 891	Edge-On Spiral Galaxy	02h 22m 33s	+42° 21.0'	10.0
NGC 956	Open Cluster	02h 32m 31s	+44° 35.6'	8.9
NGC 7662	The Blue Snowball Nebula	23h 25m 54s	+42° 33.0'	9.0
NGC 7686	Open Cluster	23h 30m 12s	+49° 08.0'	5.6

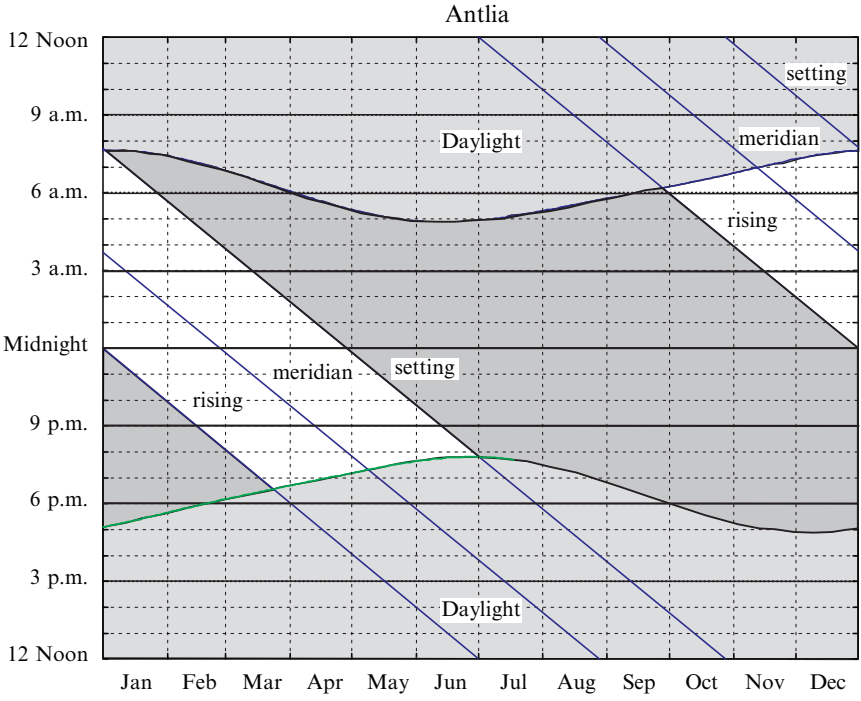


Antlia

the Air Pump

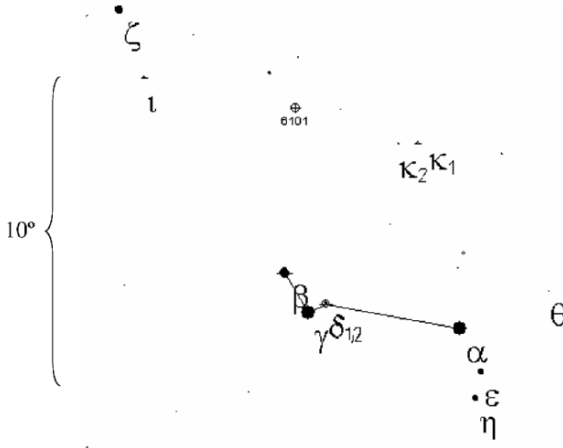


Star	Right ascension	Declination	Mag.
α	10h 27m 09.1s	-31° 04' 04"	4.25
δ	10h 29m 35.3s	-30° 36' 26"	5.56
ε	09h 29m 14.7s	-35° 57' 06"	4.51
ζ ₁	09h 30m 45.4s	-31° 53' 29"	7.21
ζ ₂	09h 30m 46.1s	-31° 53' 22"	6.35
ζ ₃	09h 31m 32.2s	-31° 52' 18"	5.93
η	09h 58m 52.2s	-35° 53' 28"	5.23
θ	09h 44m 12.1s	-27° 46' 10"	4.79
ι	10h 56m 43.0s	-37° 08' 16"	4.60



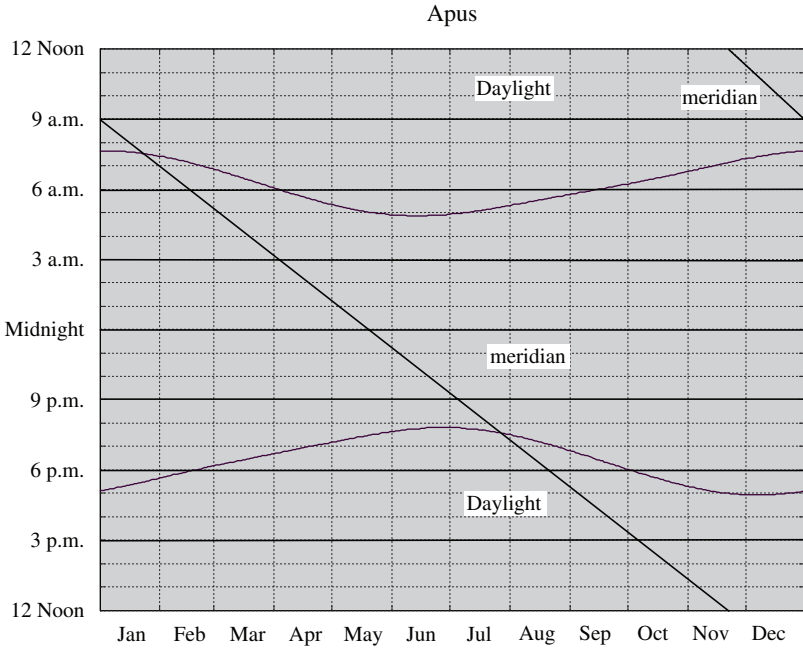
Apus

the Bird of Paradise



Star	Right ascension	Declination	Mag.
α	14h 47m 51.6s	-79° 02' 41"	3.83
β	16h 43m 04.4s	-77° 31' 03"	4.24
γ	16h 33m 27.1s	-78° 53' 49"	3.89
δ ₁	16h 20m 20.7s	-78° 41' 45"	4.68
δ ₂	16h 20m 26.7s	-78° 40' 02"	5.27
ε	14h 22m 22.7s	-80° 06' 32"	5.06
ζ	17h 21m 59.5s	-67° 46' 13"	4.78
η	14h 18m 13.6s	-81° 00' 27"	4.91
θ	14h 05m 19.8s	-76° 47' 48"	5.50
ι	17h 22m 05.8s	-70° 07' 24"	5.41
κ ₁	15h 31m 30.8s	-73° 23' 22"	5.49
κ ₂	15h 40m 21.2s	-73° 26' 48"	5.65

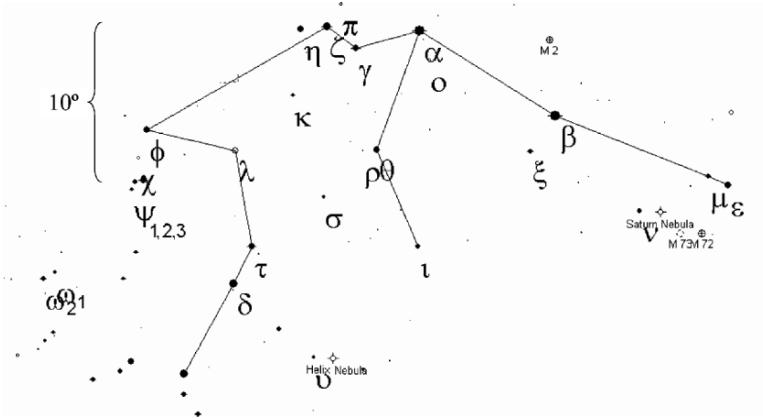
Deep sky object	Description	Right ascension	Declination	Mag.
NGC 6101	Globular Cluster	16h 25m 48s	-72° 12.1'	9.3



The constellation Apus is not visible from mid-northern latitudes

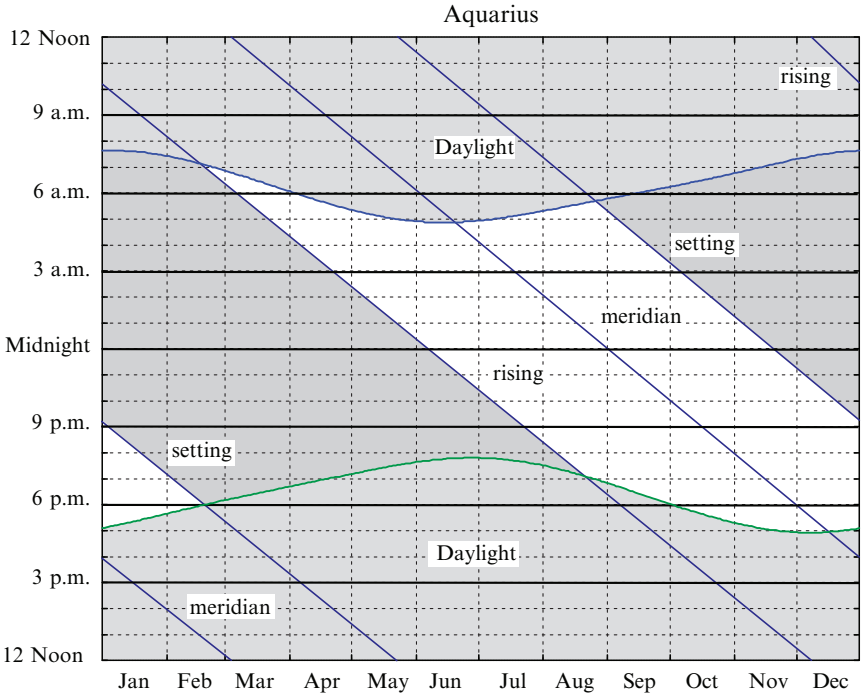
Aquarius

the Water Bearer



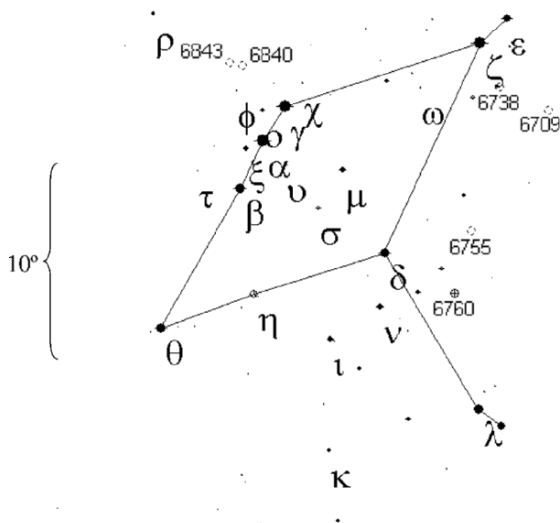
Star	Right ascension	Declination	Mag.
α	22h 05m 46.9s	-00° 19' 11"	2.96
β	21h 31m 33.4s	-05° 34' 16"	2.91
γ	22h 21m 39.3s	-01° 23' 14"	3.84
δ	22h 54m 38.9s	-15° 49' 15"	3.27
ε	20h 47m 40.5s	-09° 29' 45"	3.77
ζ ₁	22h 28m 50.0s	-00° 01' 12"	4.42
ζ ₂	22h 28m 49.6s	-00° 01' 13"	4.59
η	22h 35m 21.3s	-00° 07' 03"	4.02
θ	22h 16m 49.9s	-07° 47' 00"	4.16
ι	22h 06m 26.1s	-13° 52' 11"	4.27
κ	22h 37m 45.3s	-04° 13' 41"	5.03
λ	22h 52m 36.8s	-07° 34' 47"	3.74
μ	20h 52m 39.1s	-08° 59' 00"	4.73
ν	21h 09m 35.5s	-11° 22' 18"	4.51
ξ	21h 37m 45.0s	-07° 51' 15"	4.69
ο	22h 03m 18.7s	-02° 09' 19"	4.69
π	22h 25m 16.5s	+01° 22' 39"	4.66
ρ	22h 20m 11.8s	-07° 49' 16"	5.37
σ	22h 30m 38.7s	-10° 40' 41"	4.82
τ ₁	22h 49m 35.4s	-13° 35' 33"	4.01
τ ₂	22h 47m 42.7s	-14° 03' 23"	5.66
υ	22h 34m 41.6s	-20° 42' 30"	5.20
φ	23h 14m 19.3s	-06° 02' 56"	4.22
χ	23h 16m 50.8s	-07° 43' 36"	5.06
ψ ₁	23h 15m 53.4s	-09° 05' 16"	4.21
ψ ₂	23h 17m 54.1s	-09° 10' 57"	4.39
ψ ₃	23h 18m 57.6s	-09° 36' 38"	4.98
ω ₁	23h 42m 43.2s	-14° 32' 42"	4.49
ω ₂	23h 39m 47.0s	-14° 13' 18"	5.00

Deep sky object	Description	Right ascension	Declination	Mag.
M2	Globular Cluster	21 h 33 m 29.3 s	-00° 49.4'	6.4
M72	Globular Cluster	20 h 53 m 30.0 s	-12° 32.0'	9.3
M73	Open Cluster	20 h 59 m 00.0 s	-12° 38.0'	8.9
NGC 7009	The Saturn Nebula	21 h 04 m 10.7 s	-11° 21.6'	8.0
NGC 7293	The Helix Nebula	22 h 29 m 38.4 s	-20° 50.2'	7.3



Aquila

the Eagle



Star	Right ascension	Declination	Mag.
α	19h 50m 46.9s	+08° 52' 06"	0.77
β	19h 55m 18.7s	+06° 24' 24"	3.71
γ	19h 46m 15.5s	+10° 36' 48"	2.72
δ	19h 25m 29.8s	+03° 06' 53"	3.36
ε	18h 59m 37.3s	+15° 04' 06"	4.02
ζ	19h 05m 24.5s	+13° 51' 48"	2.99
η	19h 52m 28.3s	+01° 00' 20"	3.90
θ	20h 11m 18.2s	-00° 49' 17"	3.23
ι	19h 36m 43.2s	-01° 17' 11"	4.36
κ	19h 36m 53.4s	-07° 01' 39"	4.95
λ	19h 06m 14.8s	-04° 52' 57"	3.44
μ	19h 34m 05.3s	+07° 22' 44"	4.45
ν	19h 26m 31.0s	+00° 20' 19"	4.66
ξ	19h 54m 14.8s	+08° 27' 41"	4.71
ο	19h 51m 01.5s	+10° 24' 56"	5.11
π	19h 48m 42.0s	+11° 48' 57"	5.72
ρ	20h 14m 16.5s	+15° 11' 51"	4.95
σ	19h 39m 11.5s	+05° 23' 52"	5.17
τ	20h 04m 08.2s	+07° 16' 41"	5.52
υ	19h 45m 39.8s	+07° 36' 48"	5.91
φ	19h 56m 14.1s	+11° 25' 25"	5.28
χ	19h 42m 33.9s	+11° 49' 36"	5.27
ψ	19h 44m 34.0s	+13° 18' 10"	6.26
ω ₁	19h 17m 48.9s	+11° 35' 44"	5.28
ω ₂	19h 19m 52.9s	+11° 32' 06"	6.02

Deep sky object	Description	Right ascension	Declination	Mag.
NGC 6709	Open Cluster	18 h 51 m 30.0 s	+10° 21.0'	6.7
NGC 6738	Open Cluster	19 h 01 m 24.0 s	+11° 36.0'	8.3
NGC 6755	Open Cluster	19 h 07 m 48.0 s	+04° 14.0'	7.5
NGC 6760	Globular Cluster	19 h 11 m 12.0 s	+01° 02.0'	9.1
NGC 6840	Open Cluster	19 h 55 m 18.0 s	+12° 06.0'	10.0
NGC 6843	Open Cluster	19 h 56 m 06.0 s	+12° 09.0'	10.0

