## Celestial Sphere Models 1

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## Instructions

 that users check it themselves before investing a lot of time and effort into cutting out the paper models.
Any corrections will be gratefully received by the author. Contact information can be found on the title page.
 The separate file clstsph1_a4.pdf in DIN A4 format contains data for the stars on the models.
The first model is made up of spherical biangles. They should not be folded but rather bent and attached to each other using the tabs on the left side, forming a sphere
 the tabs. The result is an irregular polyhedron approximating a sphere.

The "globes" on pages 11-12 illustrate how the positions of the stars on the spherical biangles and panels were derived.

 hope someone will correct me if I'm wrong. The famous early star atlas of Johannes Hevelius from 1690 also shows the stars in this way ${ }^{1}$.
However, in principle it wouldn't be difficult to reverse the representation. The difficulty would be in reversing the labels, but I think this problem could be solved.

 send an email to the author at the address listed above.

## Greek Alphabet

| $\alpha$ | alpha | $\nu$ | nu |
| :--- | :--- | :--- | :--- |
| $\beta$ | beta | $\xi$ | xi |
| $\gamma$ | gamma | $o$ | omicron |
| $\delta$ | delta | $\pi, \varpi$ | pi |
| $\epsilon, \varepsilon$ | epsilon | $\rho, \varrho$ | rho |
| $\zeta$ | zeta | $\sigma, \varsigma$ | sigma |
| $\eta$ | eta | $\tau$ | tau |
| $\theta, \vartheta$ | theta | $v$ | upsilon |
| $\iota$ | iota | $\phi, \varphi$ | phi |
| $\kappa$ | kappa | $\chi$ | chi |
| $\lambda$ | lambda | $\psi$ | psi |
| $\mu$ | mu | $\omega$ | omega |

## Constellations

Full name, genitive, abbreviation.
2. Andromeda, Andromedae, And
3. Antlia, Antliae, Ant
4. Apus, Apodis, Aps
5. Aquarius, Aquarii, Aqr
6. Aquila, Aquilae, Aql
7. Ara, Arae, Ara
8. Aries, Arietis, Ari
9. Auriga, Aurigae, Aur
10. Boötes, Boötis, Boo
11. Caelum, Caeli, Cae
12. Camelopardalis, Camelopardalis, Cam
13. Cancer, Cancri, Cnc
14. Canes Venatici, Canum Venaticorum, CVn
15. Canis Major, Canis Majoris, CMa
16. Canis Minor, Canis Minoris, CMi
17. Capricornus, Capricorni, Cap
18. Carina, Carinae, Car
19. Cassiopeia, Cassiopeiae, Cas
20. Centaurus, Centauri, Cen
21. Cepheus, Cephei, Cep
22. Cetus, Ceti, Cet
23. Chamaeleon, Chamaeleontis, Cha
24. Circinus, Circini, Cir
25. Columba, Columbae, Col
26. Coma Berenices, Comae Berenices, Com
27. Corona Borealis, Coronae Borealis, CrB
28. Corona Australis, Coronae Australis, Cra
29. Corvus, Corvi, Crv
30. Crater, Crateris, Crt
31. Crux, Crucis, Cru
32. Cygnus, Cygni, Cyg
33. Delphinus, Delphini, Del
34. Dorado, Doradus, Dor
35. Draco, Draconis, Dra
36. Equuleus, Equulei, Equ
37. Eridanus, Eridani, Eri
38. Fornax, Fornacis, For
39. Gemini, Geminorum, Gem
40. Grus, Gruis, Gru
41. Hercules, Herculis, Her
42. Horologium, Horologii, Hor
43. Hydra, Hydrae, Hya
44. Hydrus, Hydri, Hyi
45. Indus, Indi, Ind
46. Lacerta, Lacertae, Lac
47. Leo, Leonis, Leo
48. Leo Minor, Leonis Minoris, LMi
49. Lepus, Leporis, Lep
50. Libra, Librae, Lib
51. Lupus, Lupi, Lup
52. Lynx, Lyncis, Lyn
53. Lyra, Lyrae, Lyr
54. Mensa, Mensae, Men
55. Microscopium, Microscopii, Mic
56. Monoceros, Monocerotis, Mon
57. Musca, Muscae, Mus
58. Norma, Normae, Nor
59. Octans, Octantis, Oct
60. Ophiuchus, Ophiuchi, Oph
61. Orion, Orionis, Ori

[^0]62. Pavo, Pavonis, Pav
63. Pegasus, Pegasi, Peg
64. Perseus, Persei, Per
65. Phoenix, Phoenicis, Phe
66. Pictor, Pictoris, Pic
67. Pisces, Piscium, Psc
68. Piscis Austrinus, Piscis Austrini, PsA
69. Puppis, Puppis, Pup
70. Pyxis, Pyxidis, Pyx
71. Reticulum, Reticuli, Re
72. Sagitta, Sagittae, Sge
73. Sagittarius, Sagittarii, Sgr
74. Scorpius, Scorpii, Sco
75. Sculptor, Sculptoris, Scl
76. Scutum, Scuti, Sct
77. Serpens, Serpentis, Ser
78. Sextans, Sextantis, Sex
79. Taurus, Tauri, Tau
80. Telescopium, Telescopii, Tel
81. Triangulum, Trianguli, Tri
82. Triangulum Australe, Trianguli Australis, TrA
83. Tucana, Tucanae, Tuc
84. Ursa Major, Ursae Majoris, UMa
85. Ursa Minor, Ursae Minoris, UMi
86. Vela, Velorum, Vel
87. Virgo, Virginis, Vir
88. Volans, Volantis, Vol
89. Vulpecula, Vulpeculae, Vul















11 Oct 2021 10:39 p.m.



Perspective Projection



Parallel X-Z (Viewed from above)


Parallel Z-Y (Viewed from the right side)

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[^0]:    Menzel, Donald H. and Pasachoff, Jay M., Stars and Planets. Peterson Field Guides, p. 21.

