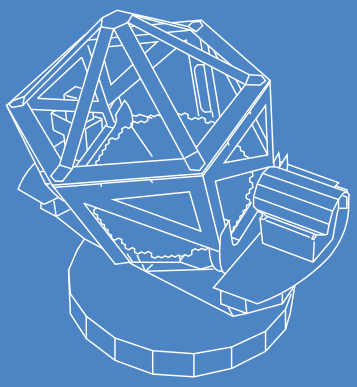
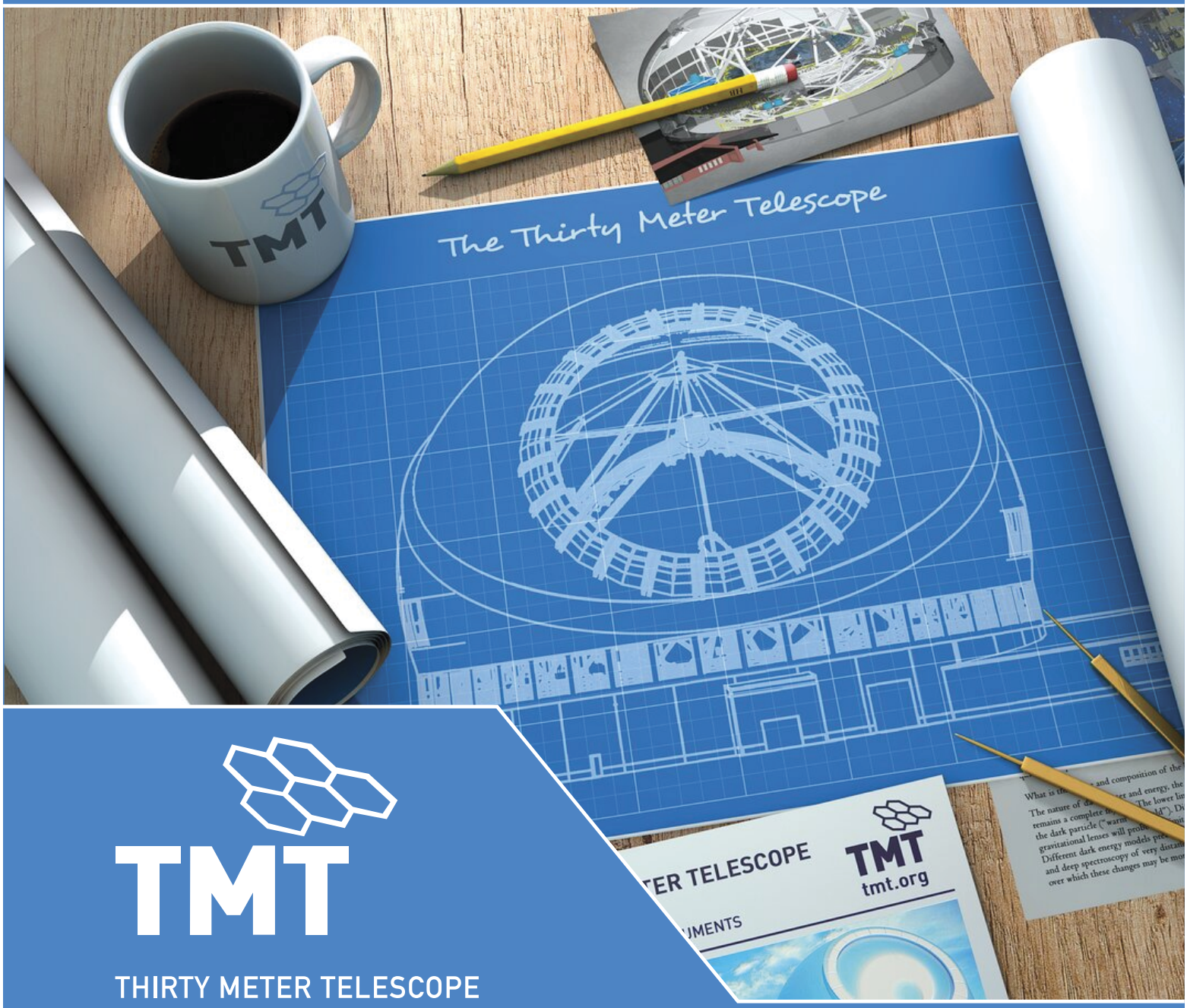
BUILD YOUR OWN
Thirty Meter Telescope

Astronomy's Next-Generation Observatory





TMT

THIRTY METER TELESCOPE

The Thirty Meter Telescope is one of a new class of extremely large telescopes that will allow us to see deeper into space and observe cosmic objects with unprecedented sensitivity and detail.

tmt.org

1/500 SCALE MODEL

THIRTY METER TELESCOPE
SCALE MODEL 1/500

Completed size 120 x 110 mm

Assembly guide

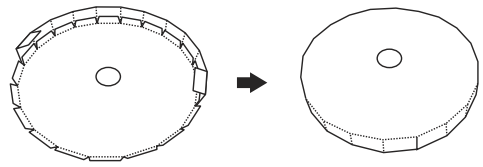
Telescope Design: Ritchey-Chretien
Primary Mirror Diameter: 30m (1.44m x 492 segments
Weight: 2650 tons
Height: 56m (including enclosure)
Preferred Site: Maunakea, HI

Learn more at tmt.org

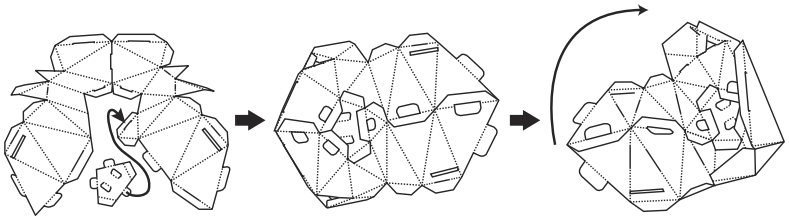
- Use tweezers for small parts and hard to reach areas.
- Use a toothpick to apply a small amount of wood glue to sections marked with ●

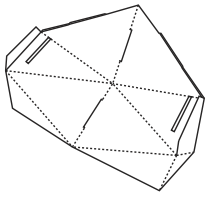
TMT
THIRTY METER TELESCOPE

1 Azimuth Track + Azimuth Track Outer Wall

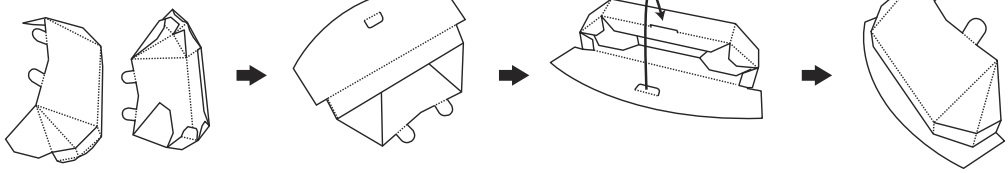


2 Azimuth Structure (Left) + Azimuth Structure (Right) +Azimuth Structure (Bottom)

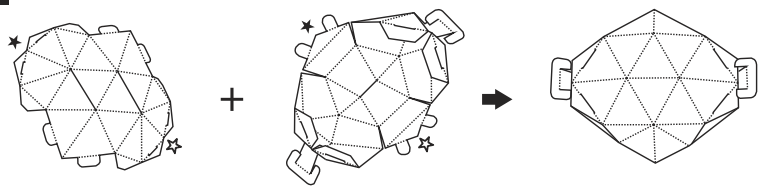




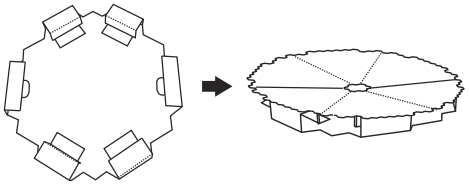
3 Nasmyth Deck



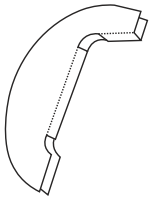
4 Lower Truss Structure + Lower Truss Structure Top



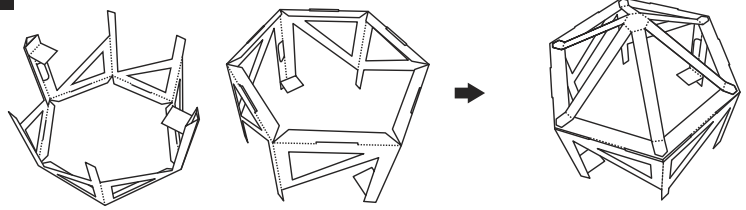
5 Primary Mirror Cell + Primary Mirror



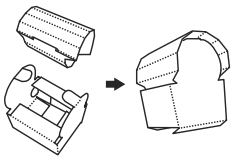
6 Elevation Journal



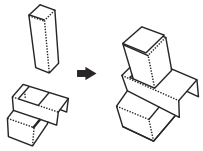
7 Upper Truss Structure + Spider (6 Legs Secondary Support)



8 (A) WFOS + WFOS Trestle

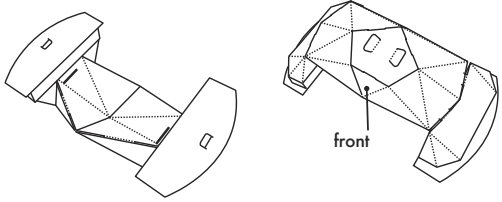


(B) NFIRAOS + IRMS / IRIS

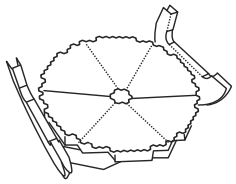


(C) Tertiary Mirror

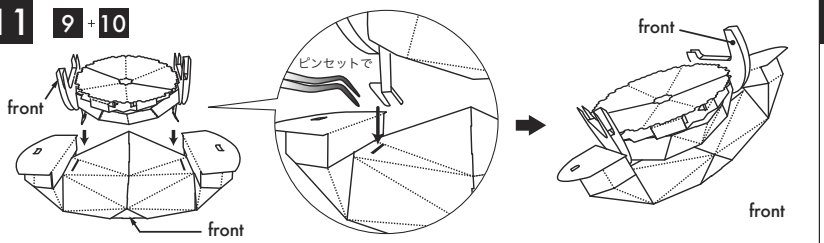
9 2 + 3



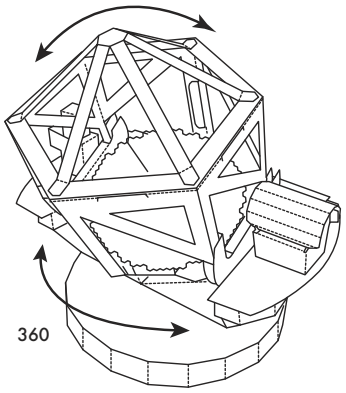
10 4 + 5 + 6



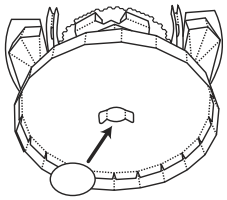
11 9 + 10



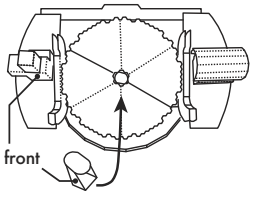
finished



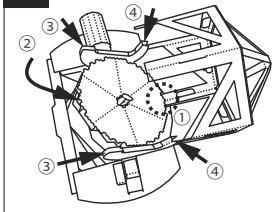
12 9 + Pintle Bearing



13 12 + 8 + Bridge

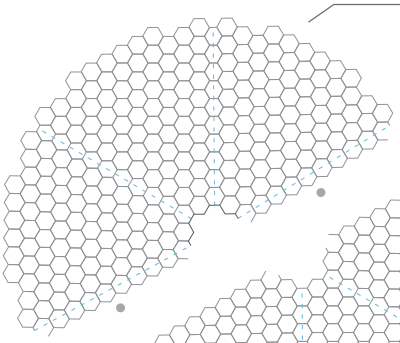


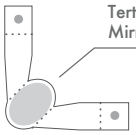
14 6 + 7

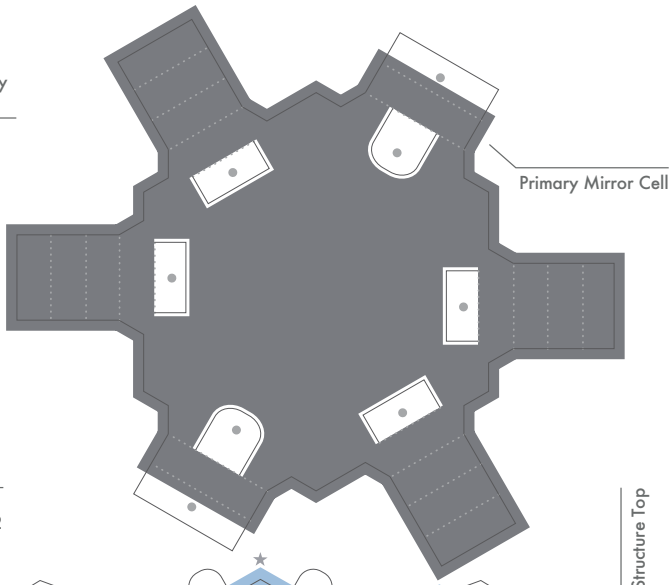


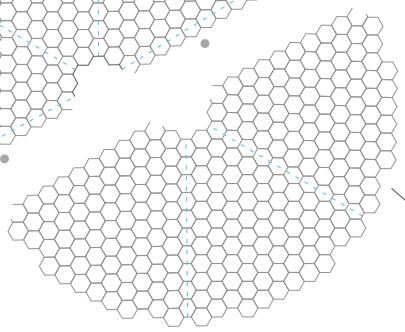
TMT | THIRTY METER TELESCOPE
SCALE MODEL 1/500

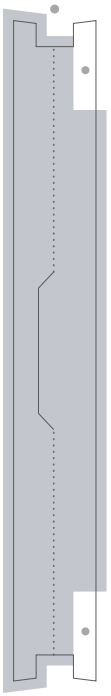
M-fold
V-fold
glue

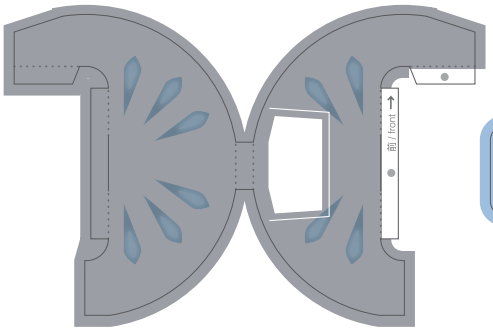


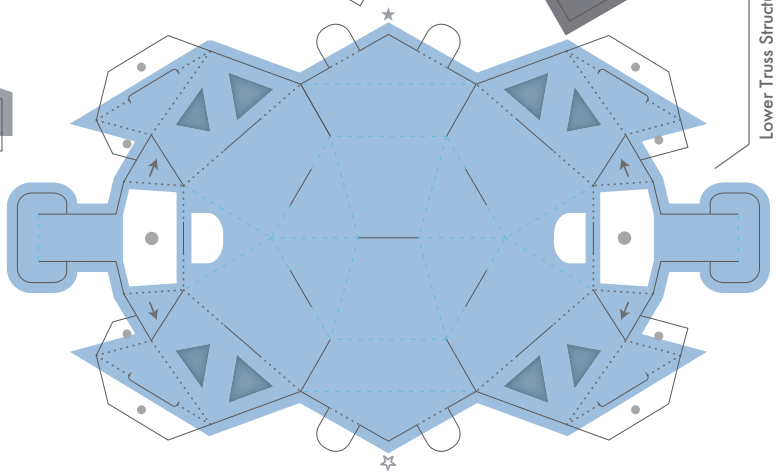


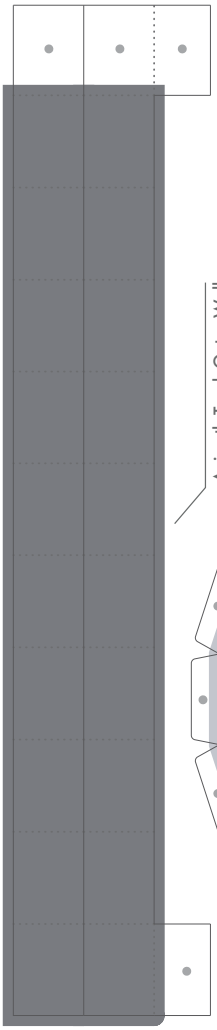


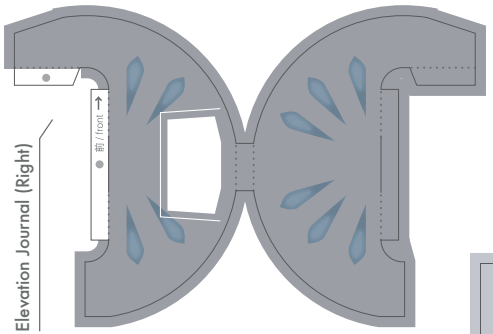


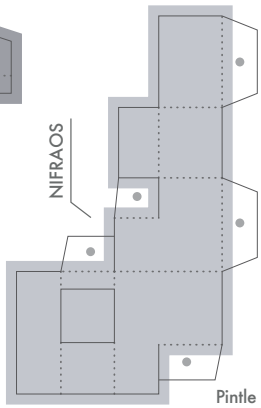


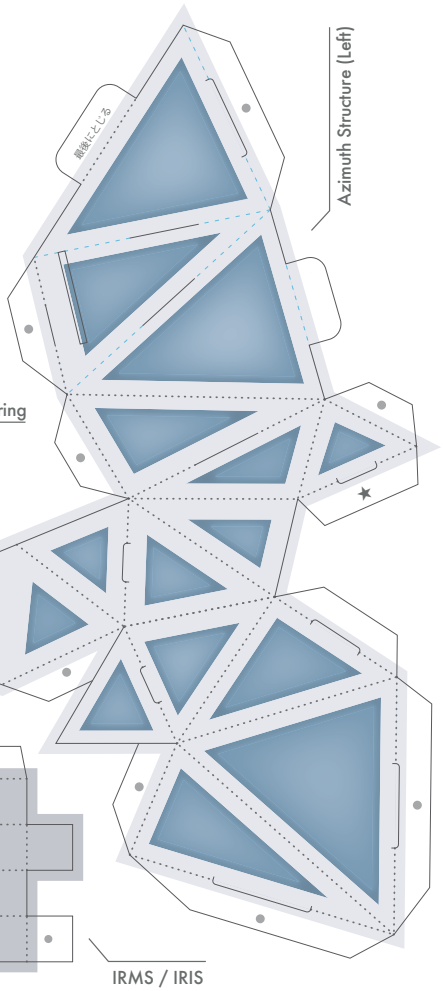


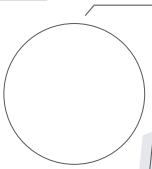


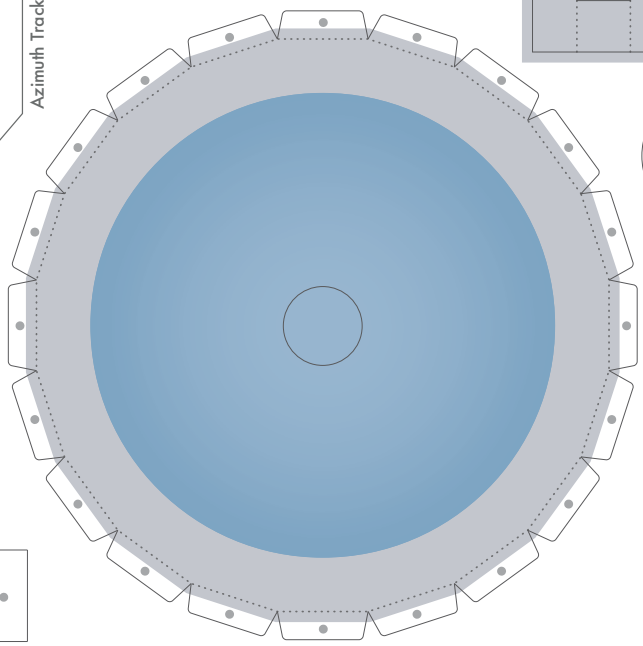


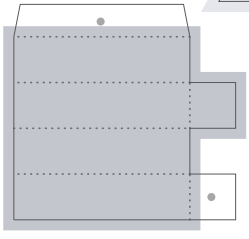


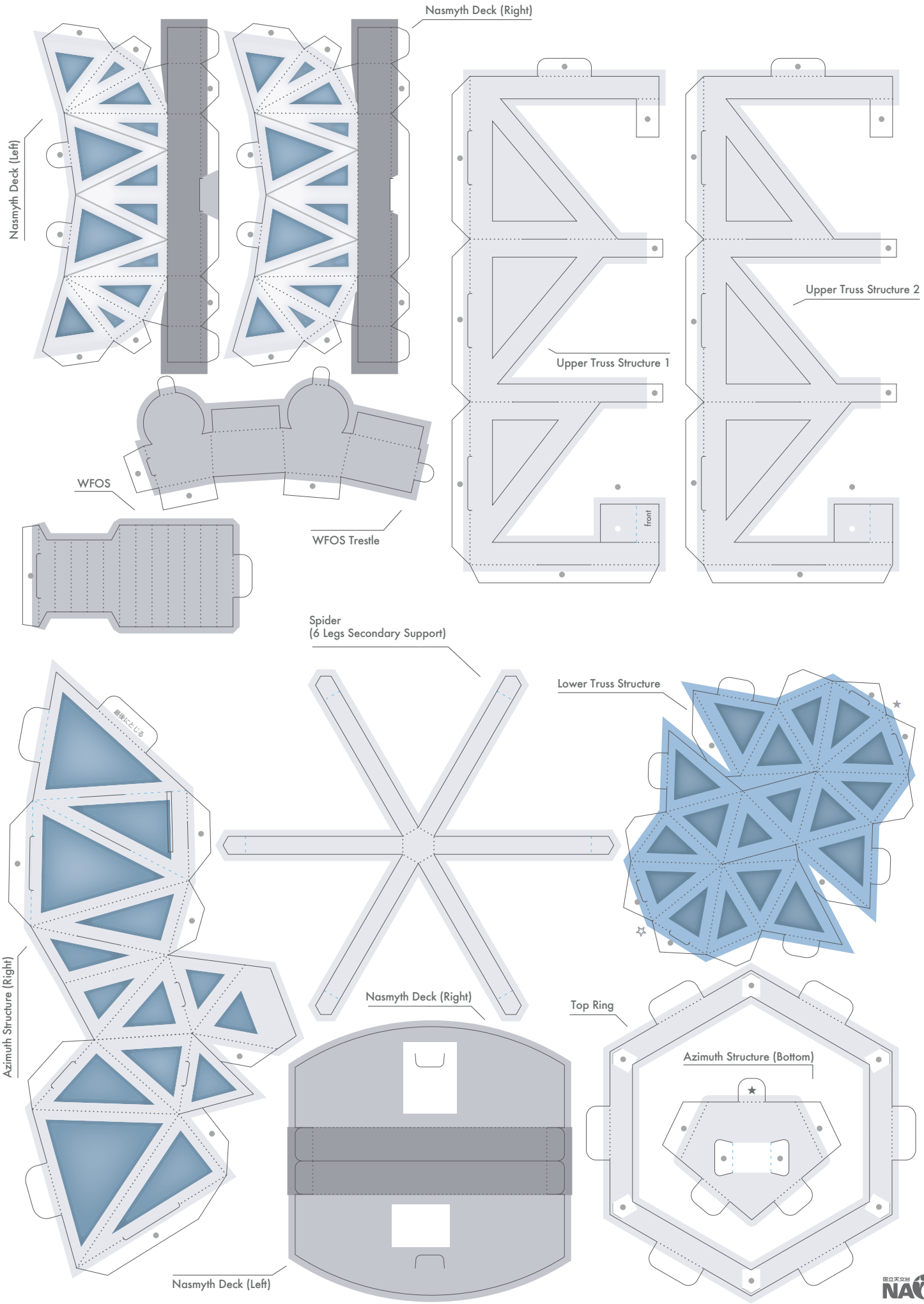











Nasmyth Deck (Right)
Nasmyth Deck (Left)
Upper Truss Structure 2
Upper Truss Structure 1
front
WFOS
WFOS Trestle
Spider
(6 Legs Secondary Support)
Lower Truss Structure
Azimuth Structure (Right)
Nasmyth Deck (Right)
Top Ring
Azimuth Structure (Bottom)
Nasmyth Deck (Left)