

GOES-S (Geostationary Operational Environmental Satellite - S Series)



NOTE

This model is a copy of the GOES-R satellite since both of the real satellites are identical. Add this to your collection of the GOES satellites paper models.

GOES-S is GOES-R's twin satellite - the second in a series of next-generation weather satellites for the National Oceanic and Atmospheric Administration (NOAA). Like GOES-16, launched in November 2016 and operating in the GOES-East position, GOES-S (GOES-17) will operate in the GOES-WEST position, will scan the Earth five times faster at four times the image resolution with triple the number of channels for more accurate, reliable forecasts and severe weather outlooks.

The GOES-S satellite will be renamed GOES-17 after its launch, and officials plan to position it in the GOES-West slot to provide fast, multi-spectral images of weather patterns affecting the Pacific Ocean as far west as New Zealand, including Hawaii, Alaska, Mexico, Central America and, of course, the western United States.

Marine forecasts will improve with GOES-S high-resolution imagery as we see features in the atmosphere and ocean that previous instruments did not allow. Combining these images with rapid updates every 30 seconds will help us predict storm systems more accurately and in real time.

Together, the new satellites represent "a quantum leap" above previous space-based weather stations, forecasters say.

Coupled with the use of our (Japanese) partners' advanced Himawari satellite, we are able to cover more than half of the planet with the most sophisticated weather forecast technology and observations ever flown in space," said Stephen Volz, director for satellite and information services at NOAA.

GOES-16 proved its value during a dramatic hurricane season in 2017, "proving to be a game-changer with much more refined, higher quality data for faster, more accurate weather forecasts, warnings and alerts," Volz said.

And that translates into lives saved.

The new satellites, known collectively as the GOES-R series, will be phased in over several years, taking over from three older-generation GOES spacecraft currently in orbit. GOES-T is expected to launch in the 2020 timeframe and GOES-U will follow suit around 2024.

When it becomes operational later this year, GOES-S will see the west in true high-definition, and along with the remaining satellites in our GOES-R series, will extend the life of NOAA's geostationary satellite constellation through 2036.

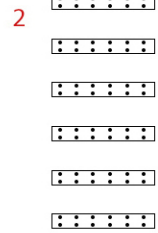
These satellites are giving us the ability to look at storms as often as every 30 seconds, allowing forecasters to see storms as they're developing instead of as they've already happened.

GOES-S was successfully launched into orbit on March 1, 2018 on board an Atlas V Rocket.

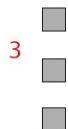


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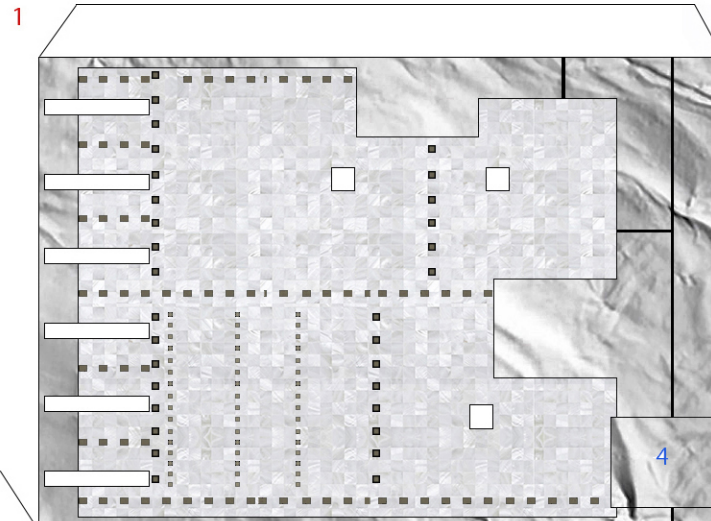
Reinforce the body with cardstock for strength before gluing together.



Glue to two layers of thick cardstock



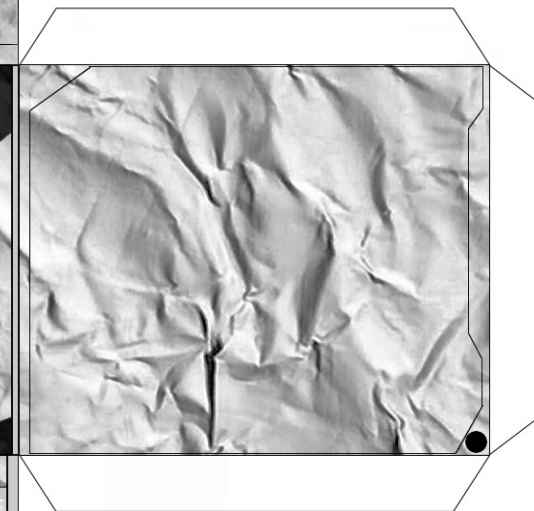
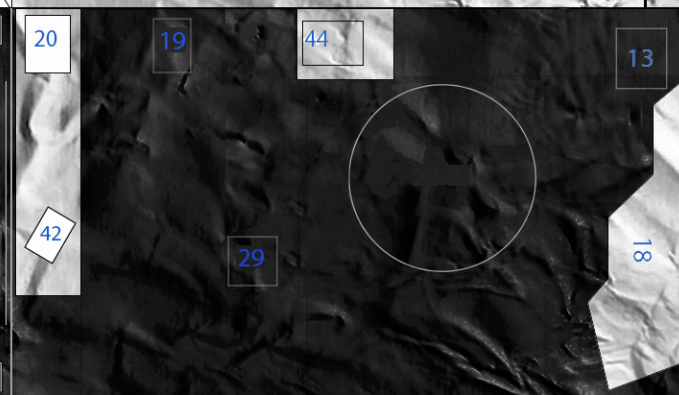
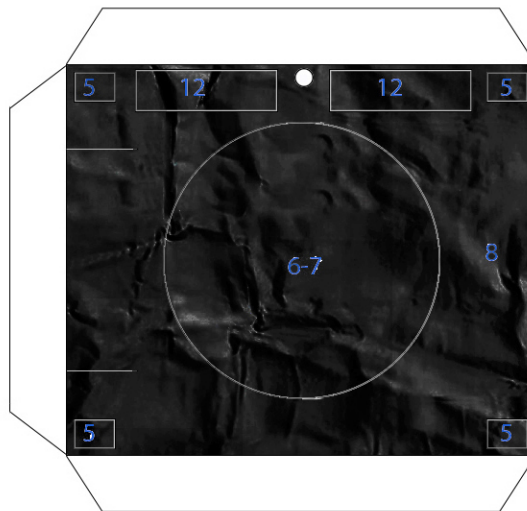
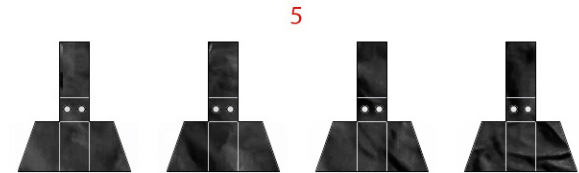
Glue to thick cardstock



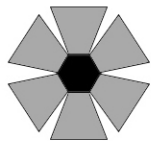
Glue to two layers of thick cardstock



Glue to thick cardstock

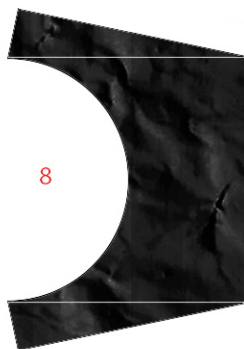


6a

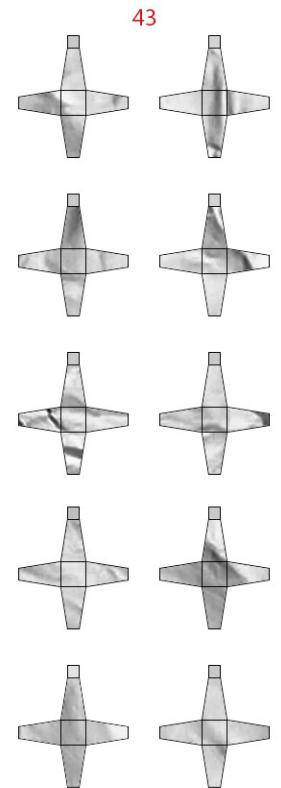
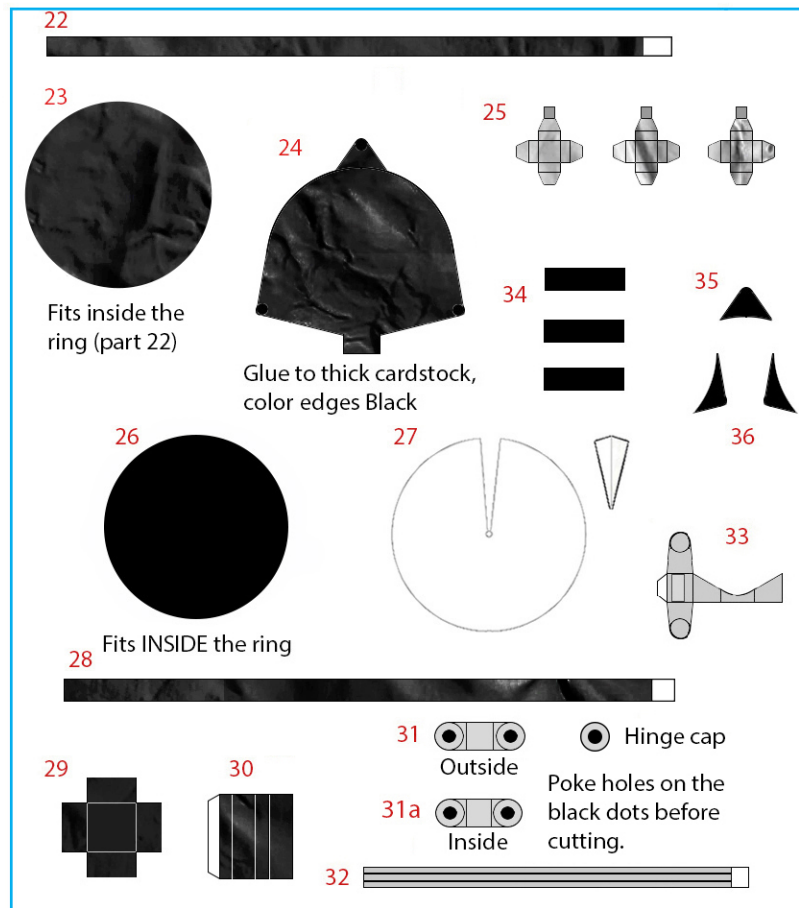
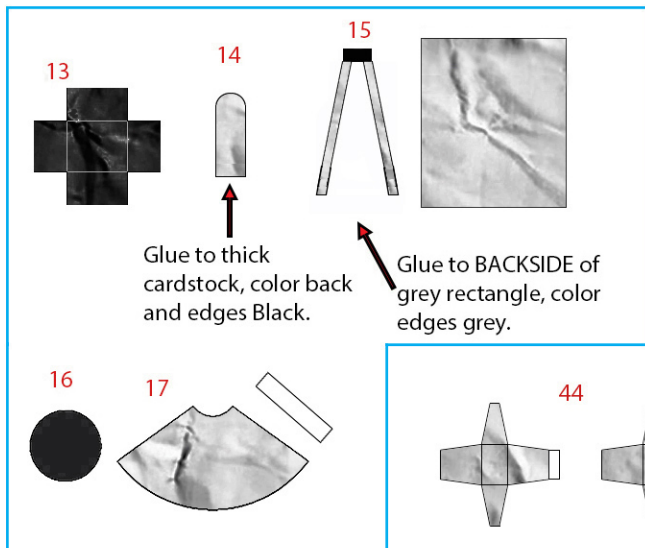
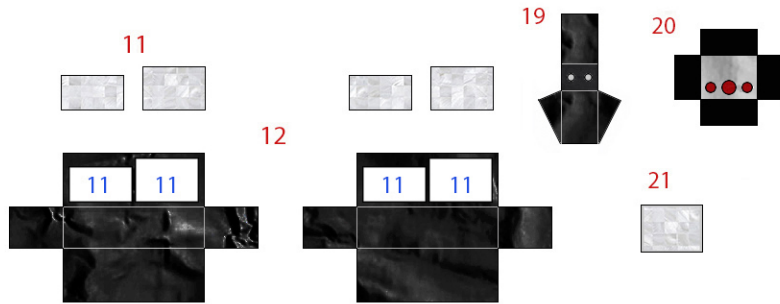
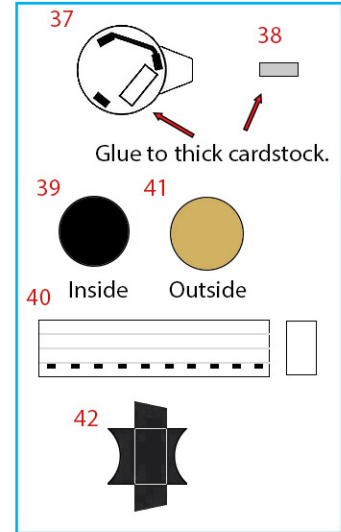
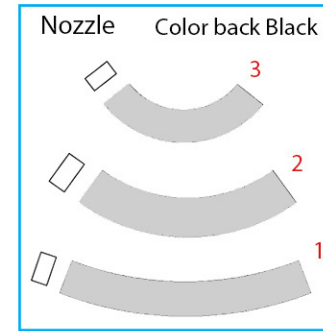
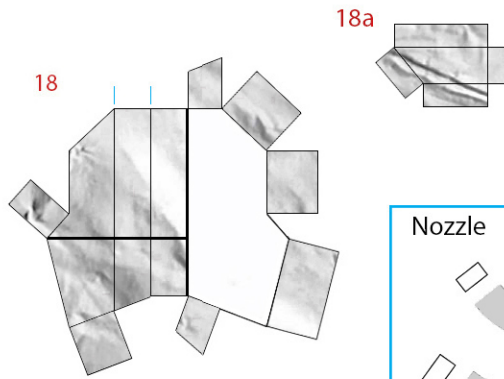


Color backside Black

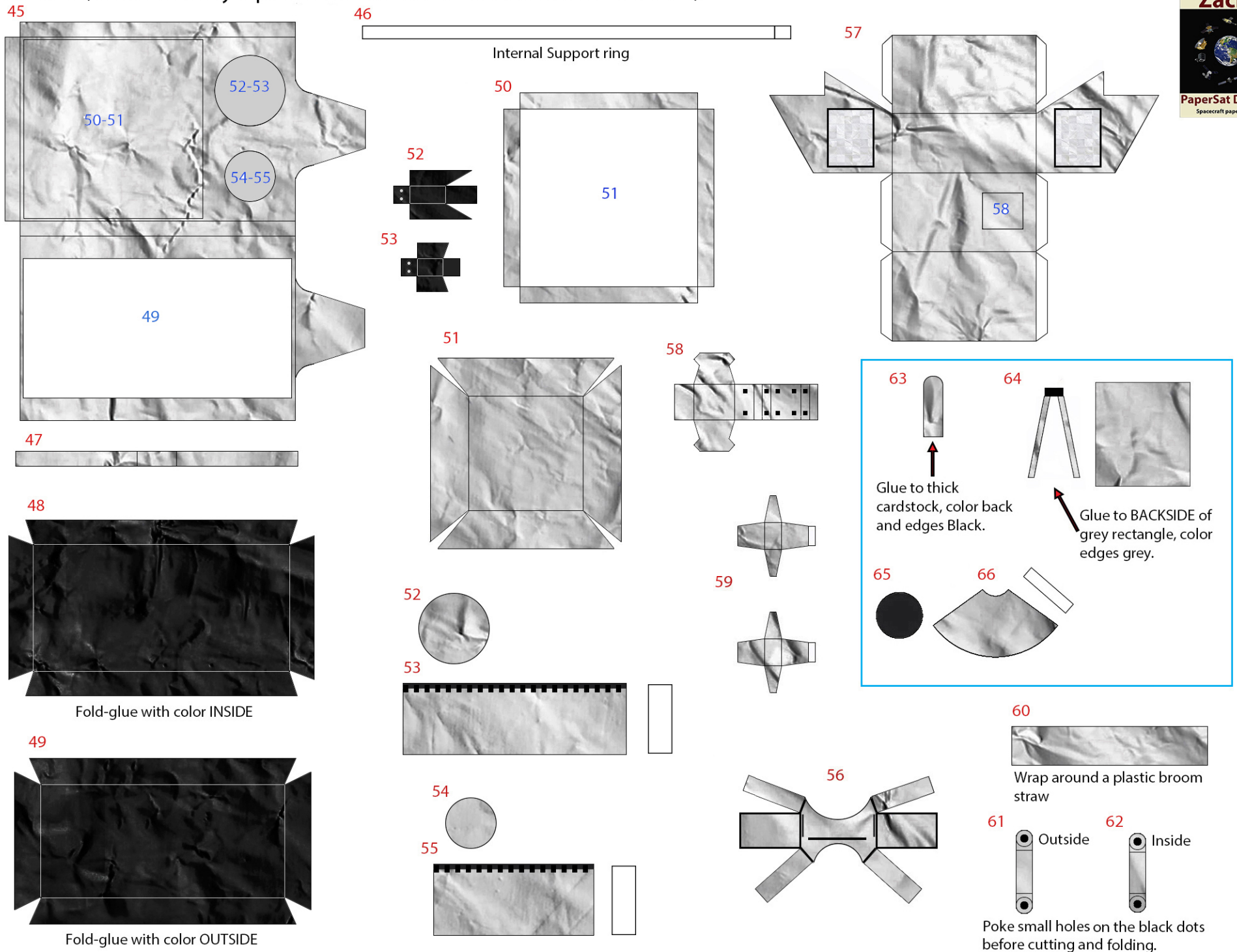
8



GOES-S (Geostationary Operational Environmental Satellite - S Series)

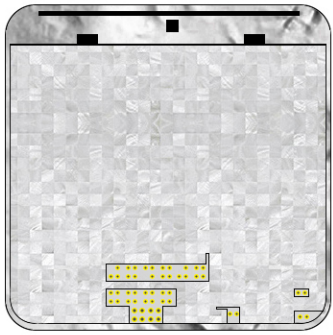


GOES-S (Geostationary Operational Environmental Satellite - S Series)

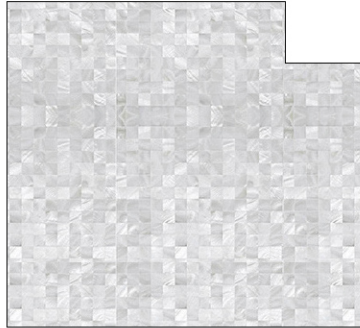


GOES-S (Geostationary Operational Environmental Satellite - S Series)

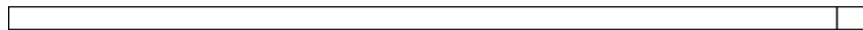
67



68

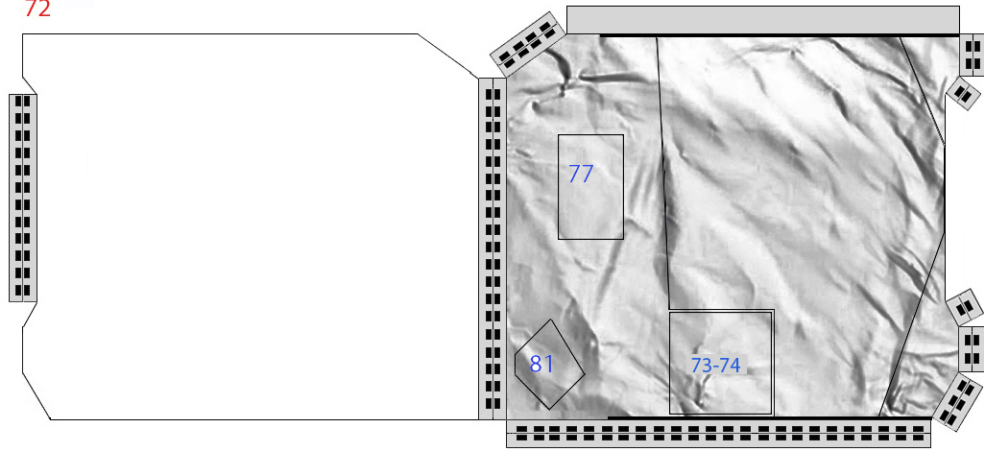


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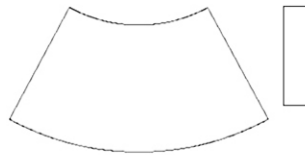


Internal Support Ring

72



73



75

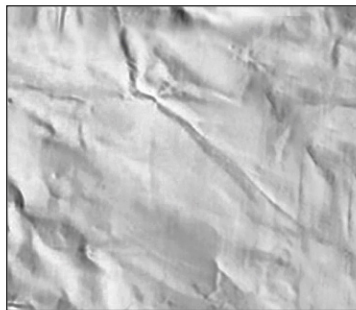
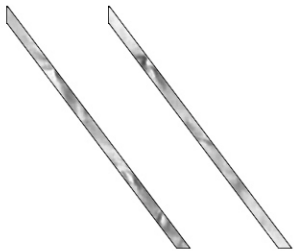


76



Glue the large rectangle to thick cardstock, glue the two squares to the other side, cut out and color the edges light grey.

69



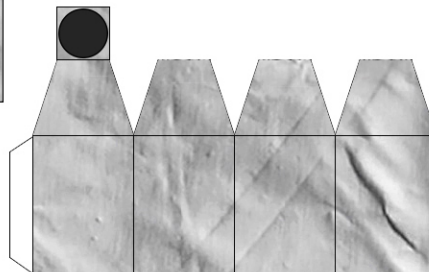
Glue these to backside of the square for graphics on both sides

70



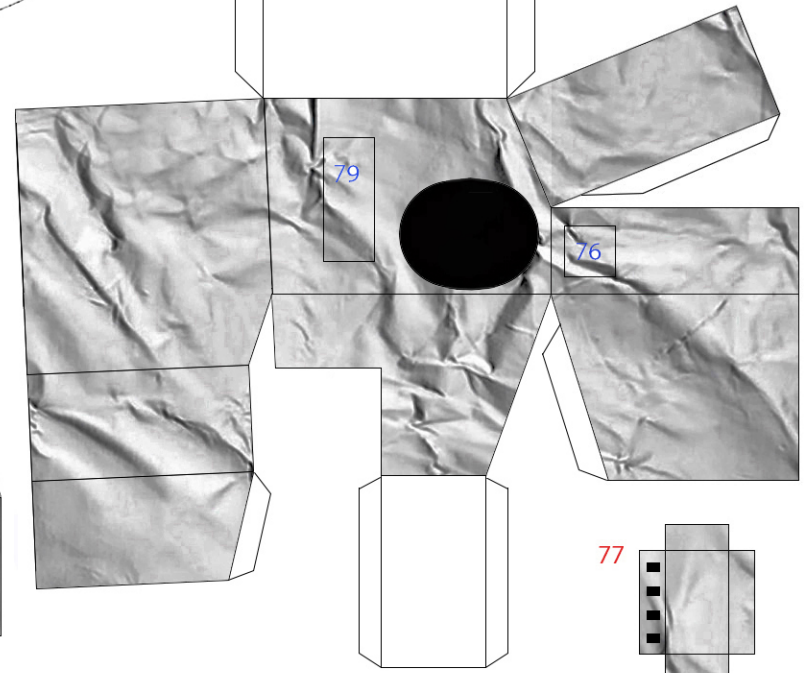
← Wrap around the top of the rod.

74

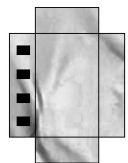


79

76



77



Zach's



PaperSat Designs
Spacecraft paper Models

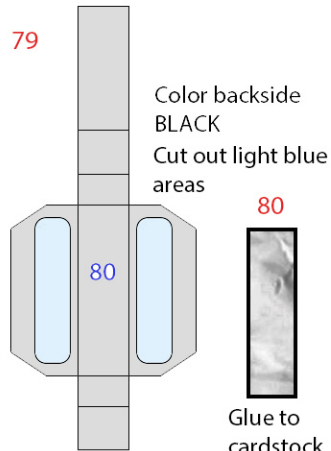
GOES-S (Geostationary Operational Environmental Satellite - S Series)

78



Color back Black

79



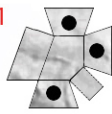
Color backside
BLACK
Cut out light blue
areas

80



Glue to
cardstock

81

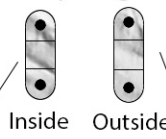


82

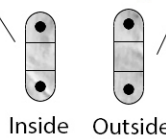


Color backside
BLACK

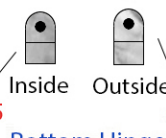
Top Hinge



Bottom Hinge



Top Hinge

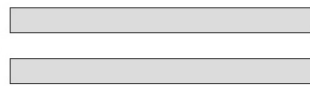


Bottom Hinge

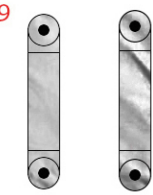


If desired, poke small holes on the
black dots on parts 83-86 and 89-90.

87



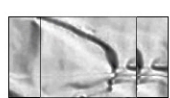
89



90

Inside Outside

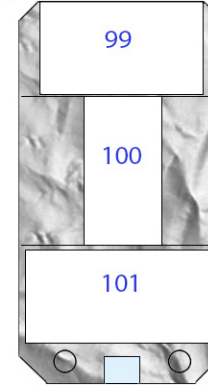
92



91

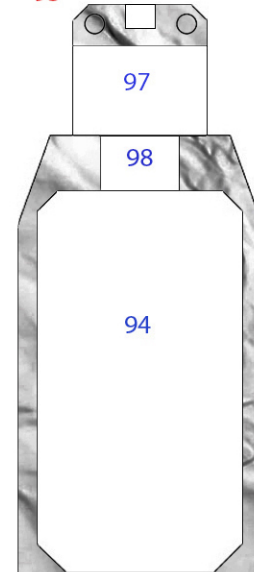


94



Glue to two layers of thick
cardstock, color edges grey
Cut out light blue square

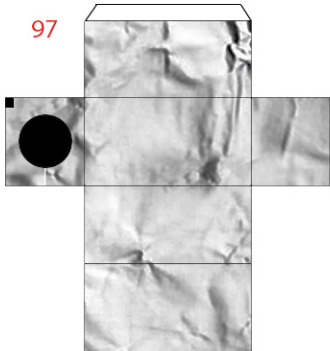
93



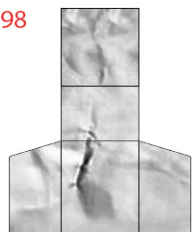
Glue this to the backside of the rectangle with
the foil graphics on the next page for graphics
on both sides



97

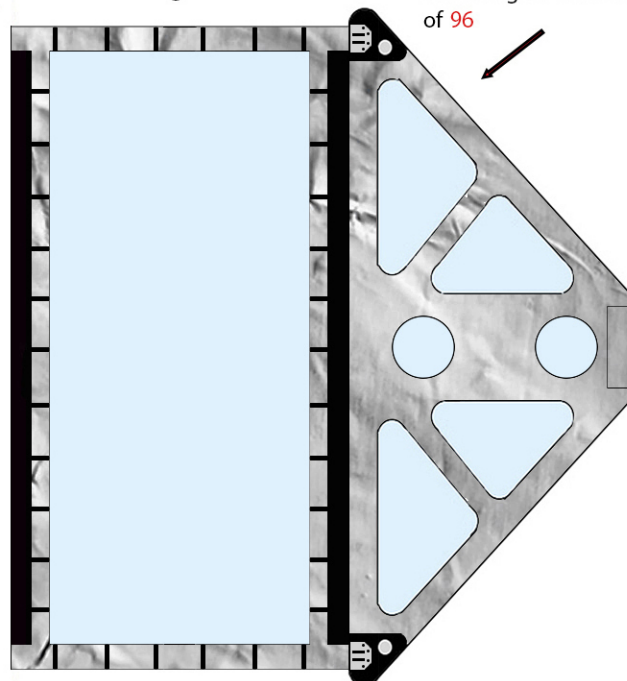


98



95

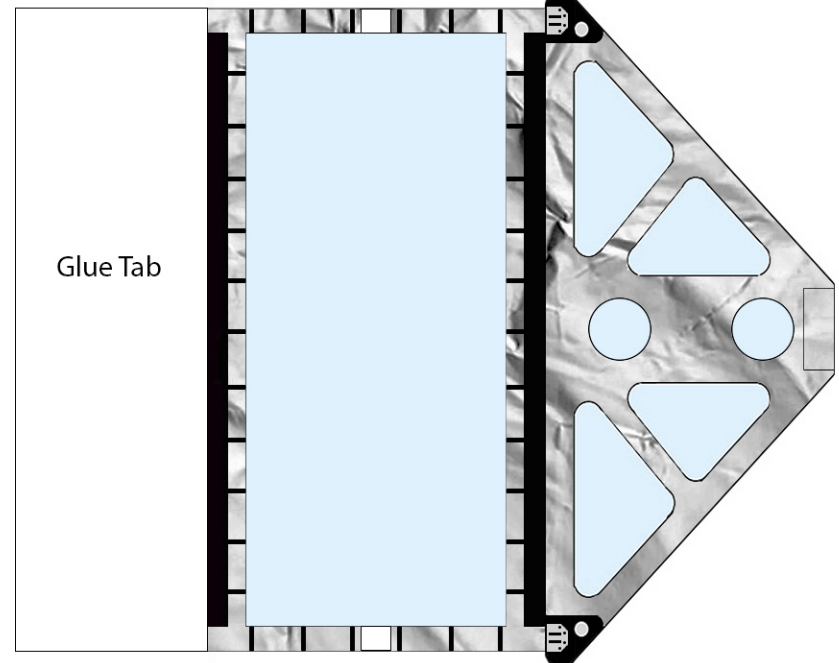
Cut out the light blue areas



Glue this to cardstock, cut
out and glue to backside
of 96

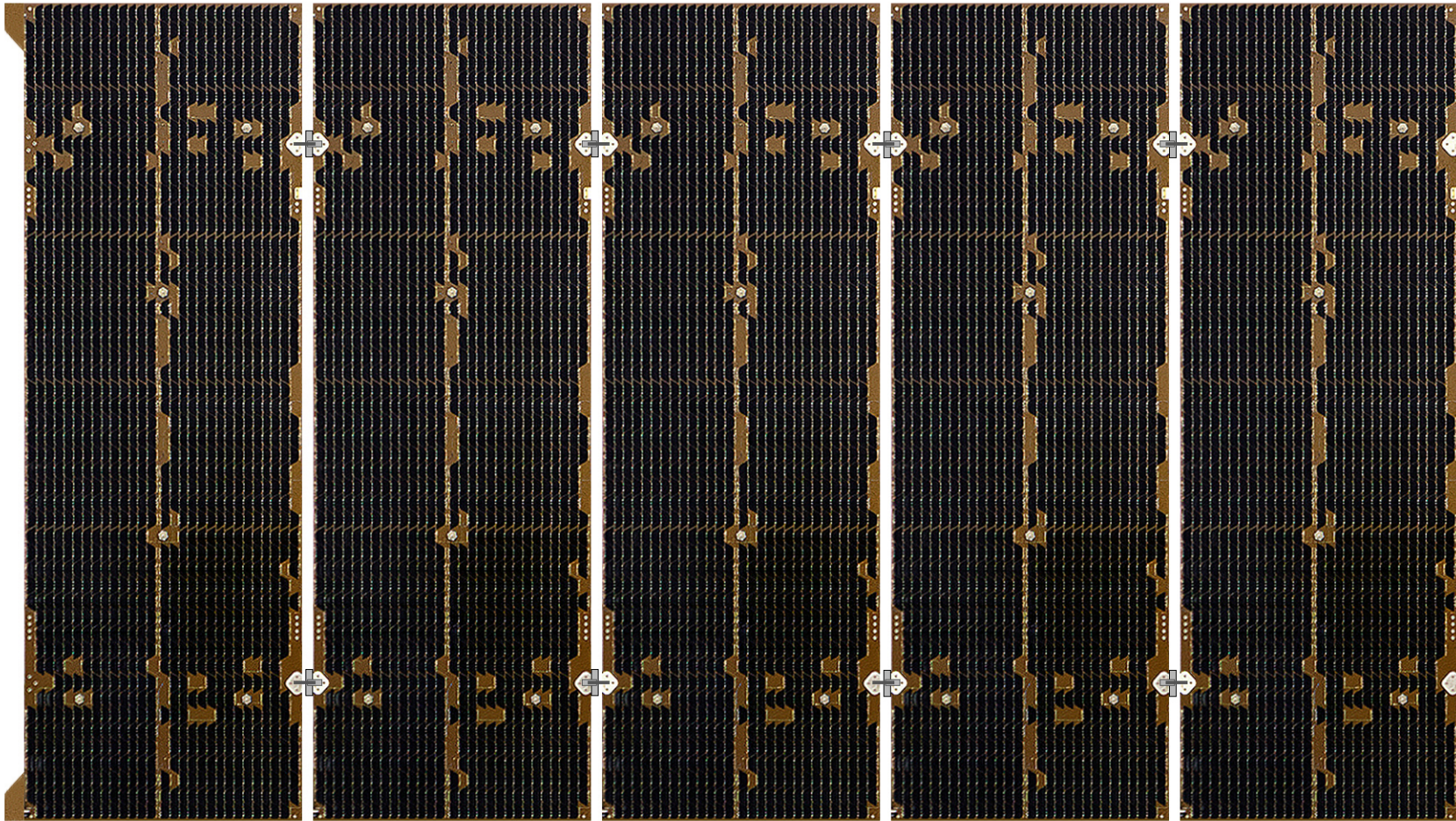
96

Cut out the light blue areas

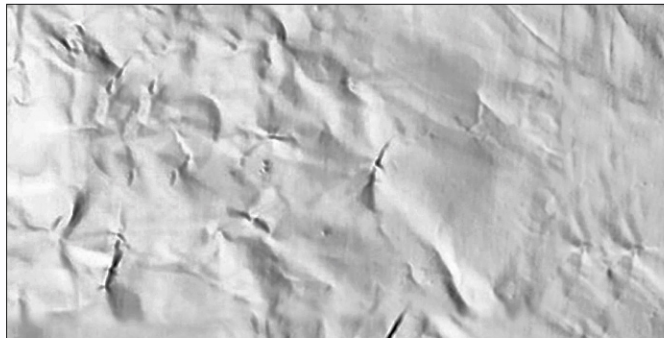


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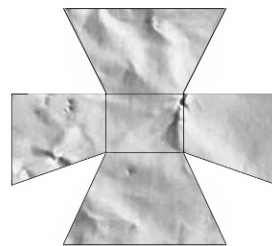
Solar Arrays - Front side



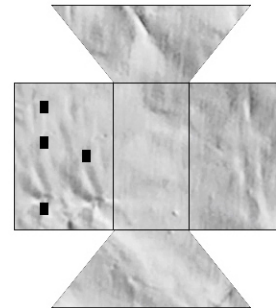
Glue part 93 to the backside of this.



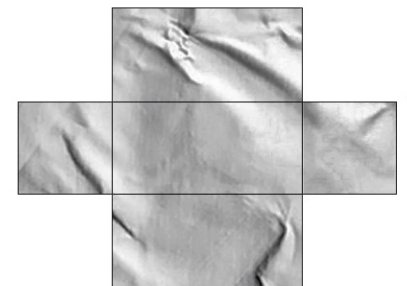
99



100

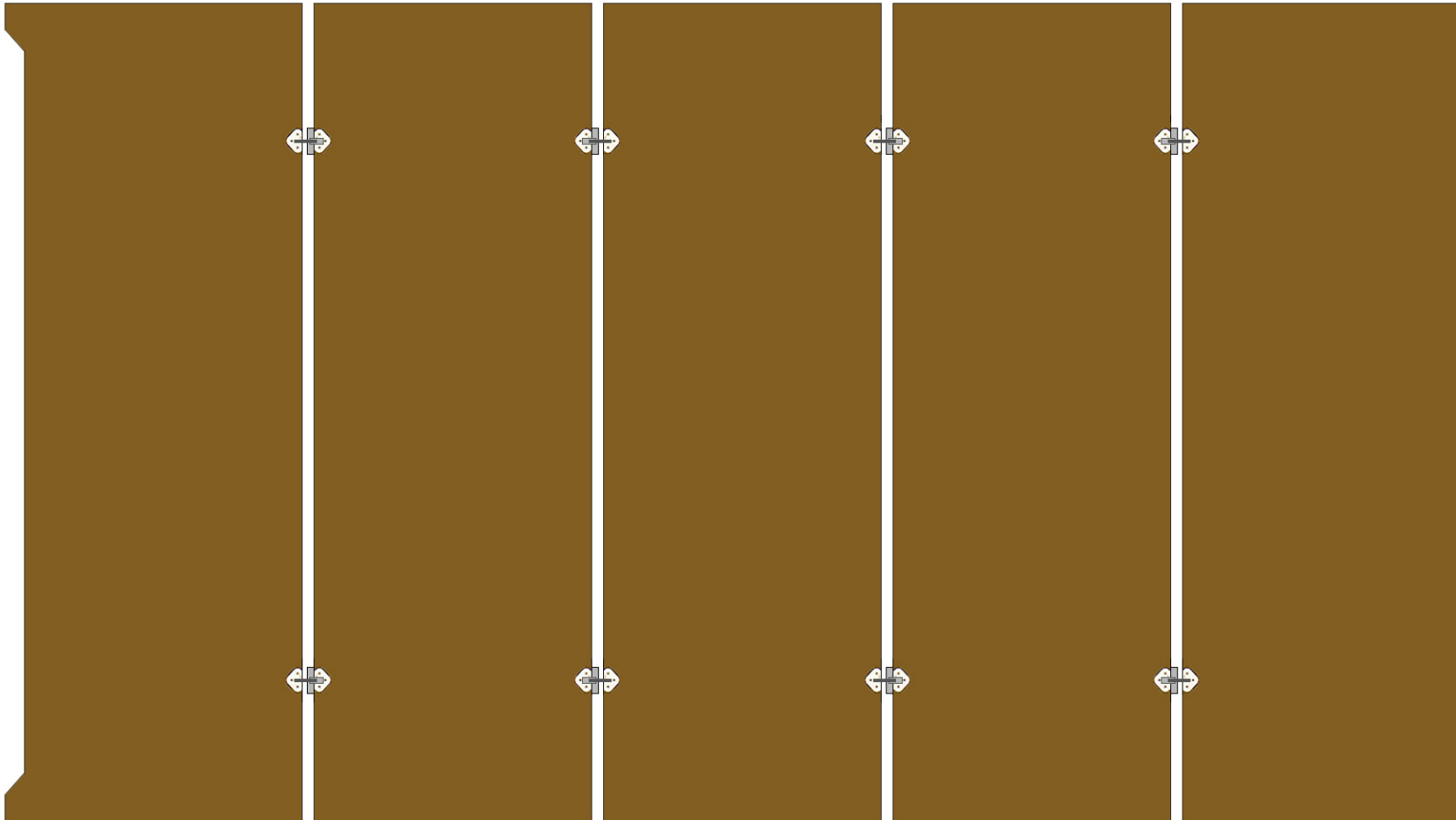


101

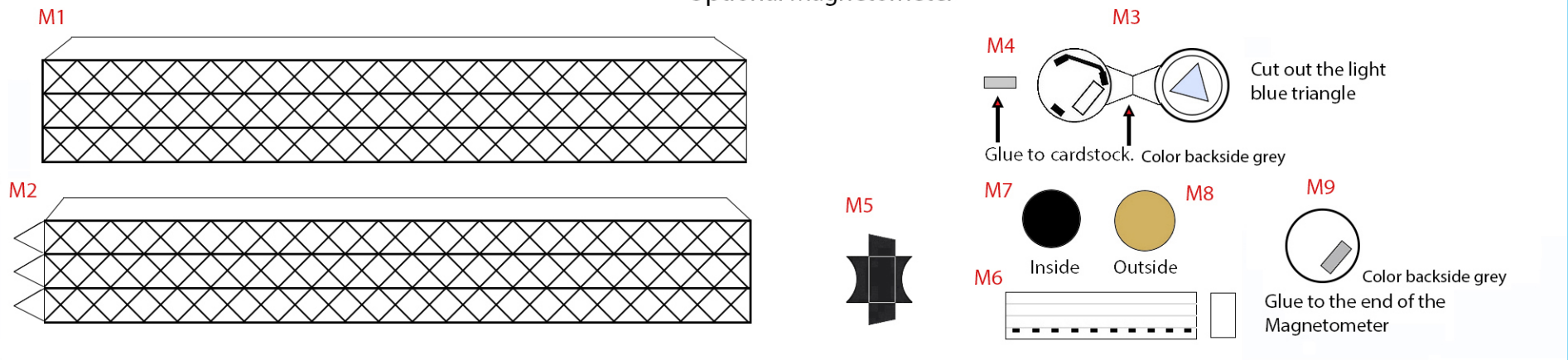


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Solar Arrays - Back side

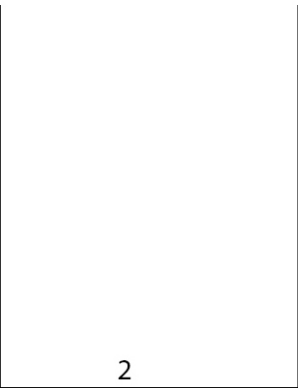
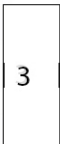


Optional Magnetometer



Print at the same scale you printed the model

1



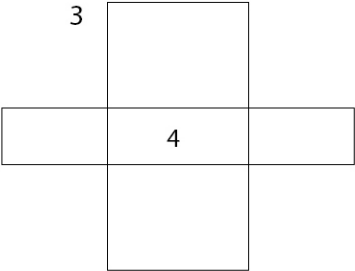
GOES-S
Geostationary Operational Environmental Satellite-S Series

Glue to two layers of thick cardstock or piece of wood

2



3



4



Fold the two end tabs UP.