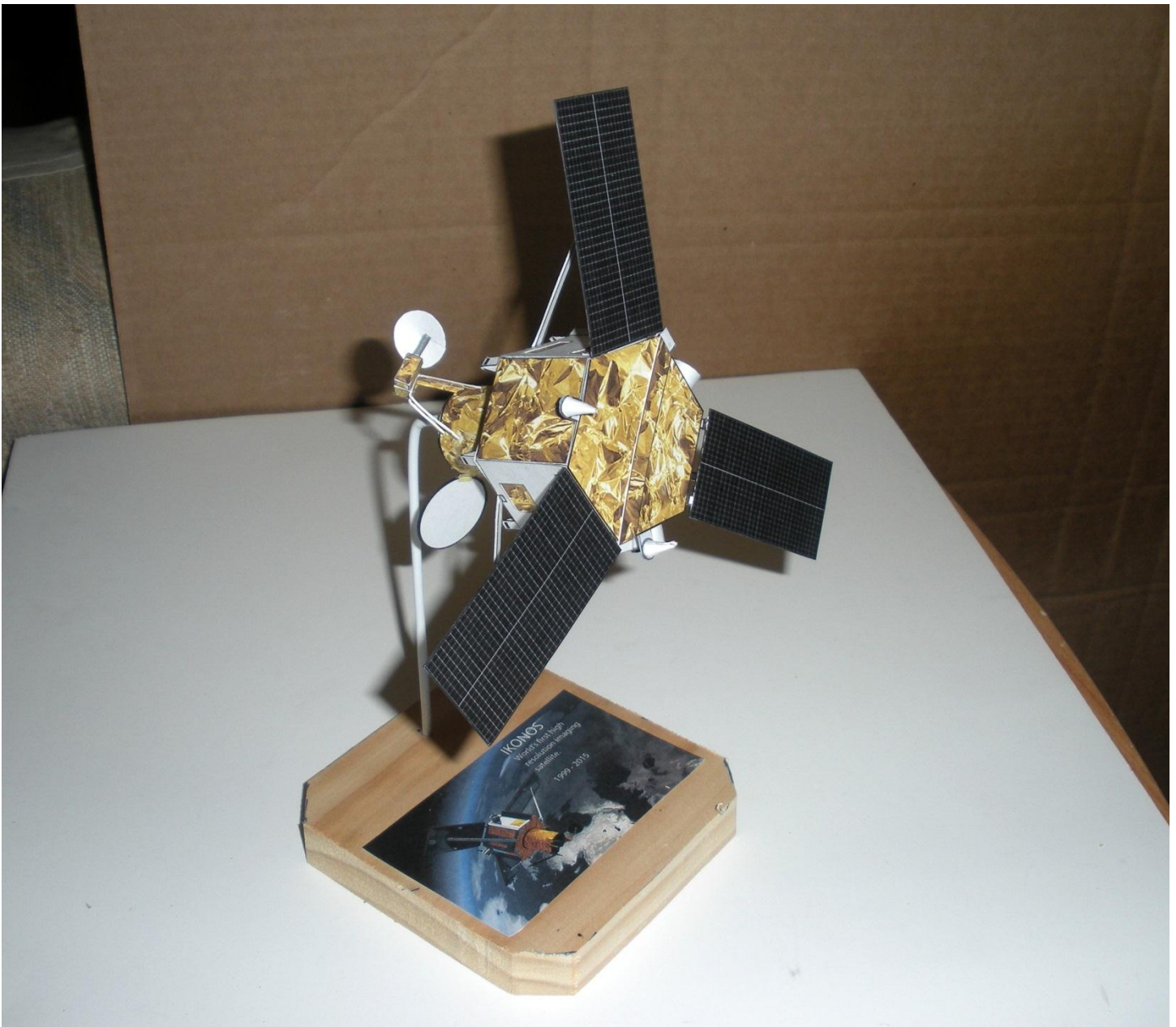


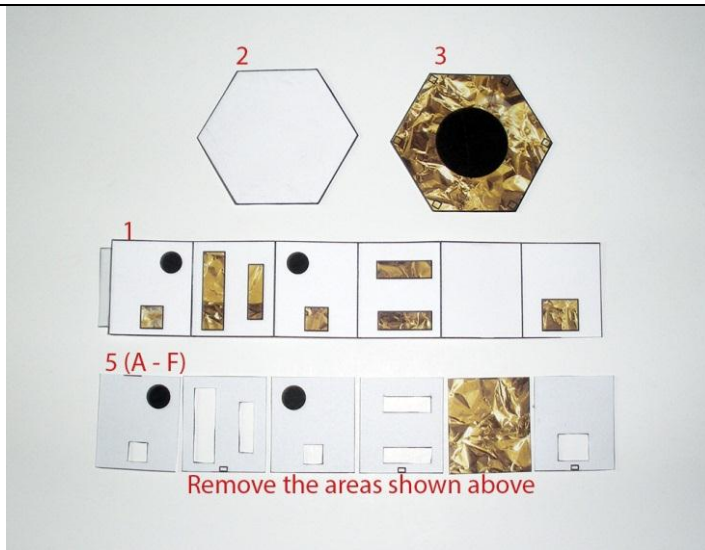
IKONOS Satellite 1/36 scale Paper Model Instructions

By Glenn Alvord



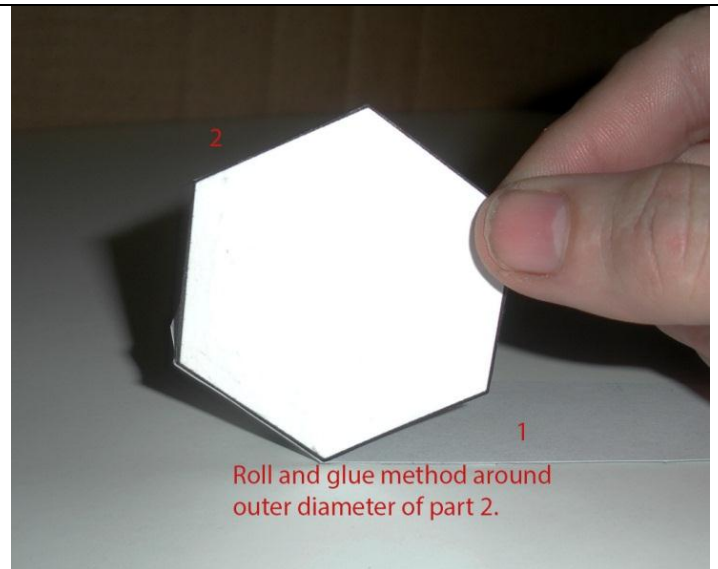
This model is based on artist drawings and only found one photo available of the actual satellite taken while IKONOS was going through a final check in the assembly room.
The photo only shows the lower part of the satellite and the tops of the solar panels.
The artist drawings are different from one artist to another and tried to find a common ground between them and the photo to create this model.
I believe this is a decent representation of the IKONOS spacecraft.
ENJOY

Glenn



Satellite upper half.

Prepare the parts above, cut out the areas shown on parts 5 (A-F) above.

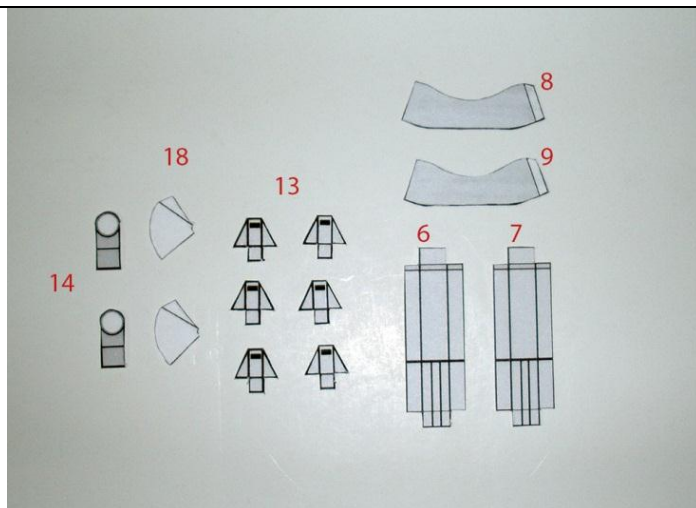


The one method I use is the roll and glue for Hexagon shape parts.

Glue 2 to another layer of cardstock.

Glue 1 to outer diameter of 2. This is the top of the spacecraft.

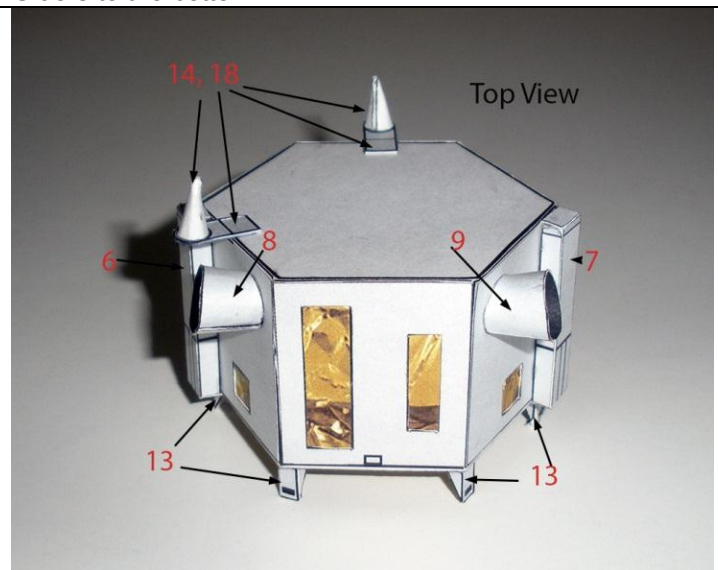
Glue 3 to the bottom.



Glue 14 to another layer of cardstock.

Color backside 8 and 9 black. Roll 18 into small cones. Fold 6-7 to rectangle boxes.

Fold-glue 13 to brackets.

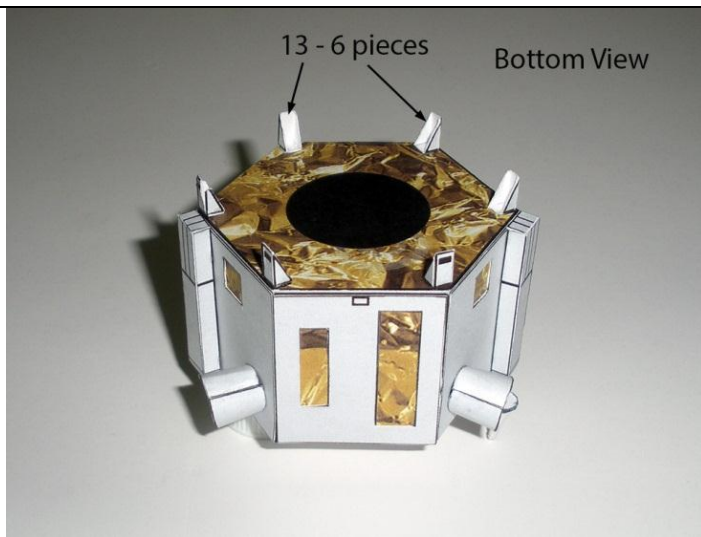


Above shows the locations in relation to the front foil graphics.

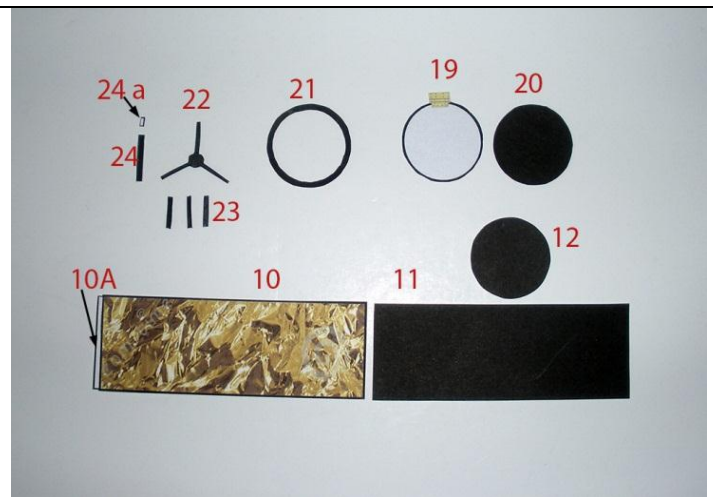
8 and 9 are glued over the black circles on the body.

6 and 7 are glued on the edge of the side where 8 and 9 are glued.

The next picture will give you a better idea where 6 and 7 are glued.

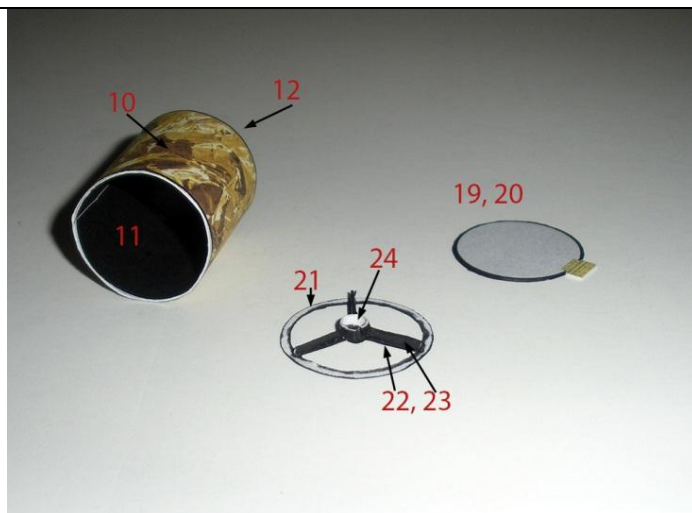


Bottom view.
Locations for part 13. Glue these to the small square graphics on part 3.

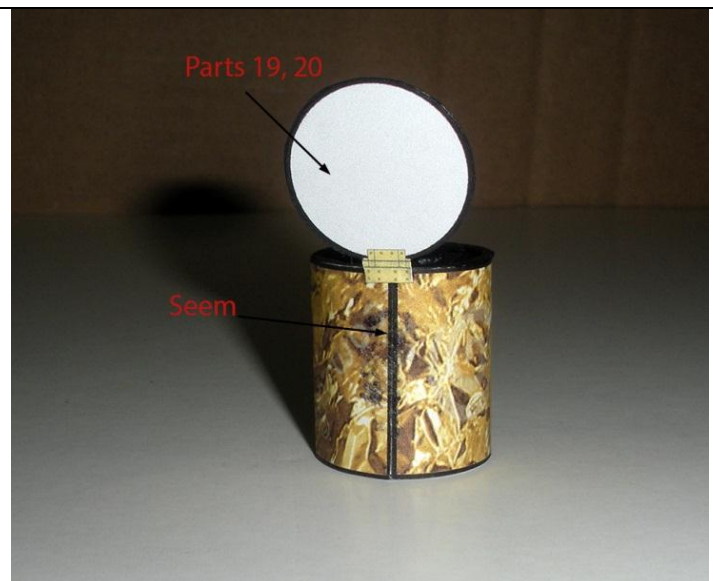


Satellite lower half.

Glue 22 and 23 to another layer of cardstock, color back and sides black.
Roll 10 to a tube using the tab (10A). Roll 11 to a tube while fitting it into 10 with the black color showing. Glue 12 inside one end of the tube with the color inside.
Glue 20 to the back of 19 – colors showing.
Roll 24 to a small ring using the tab (24a).



Note the assembly of 21 – 24.
Glue 22 to the back of 21.
Glue the ring (24) in the middle of 22
Glue 23 on its edge on the arms on 22). This simulates the thicker arms for the tripod.
19 and 20 creates the lid.

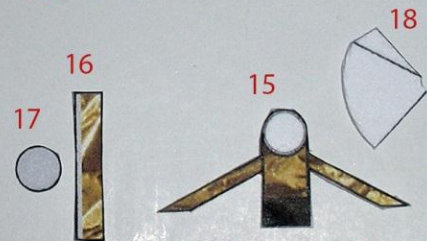


Glue the lid onto the tube with the hinges on the seam.



Glue the 21 – 24 assembly as shown.

Roll 16 into a small cylinder using a small tab. Glue 17 on top (Grey stripe).



Glue 15 to the back side of the square foil graphic for a two-sided graphic part.

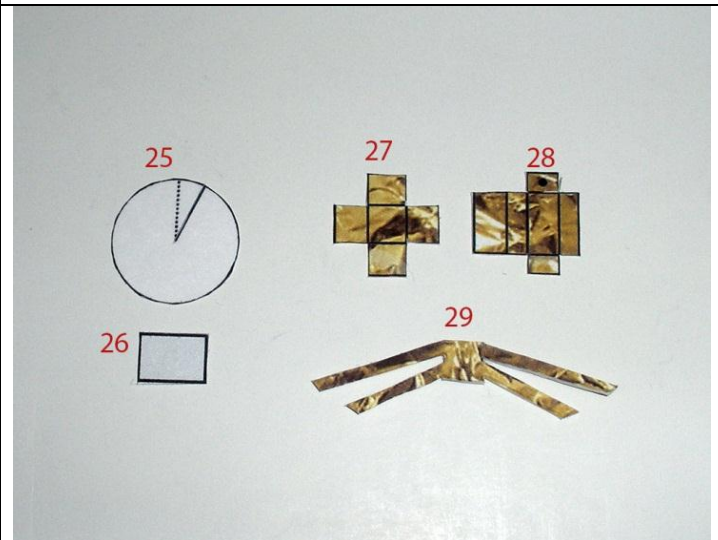
Narrow Band Antenna.

Glue the 16-17 assembly on top of 15. 16-17 forms a drum. Glue the cone (18) on top of the drum. See next picture.



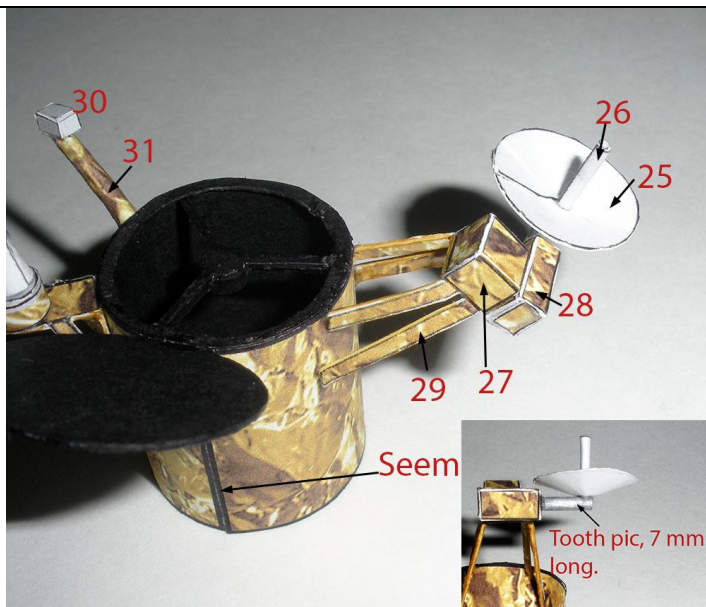
Narrow Band Antenna.

From previous step.
Score and fold at the black area.

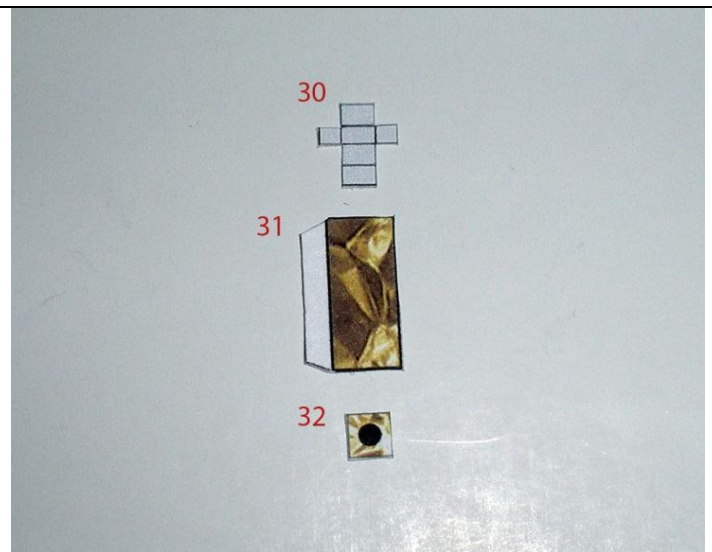


Dish assembly.

25 is glued to a dish, 36 is roll to a tight rod and glue to the center of the dish.
27 and 28 folds to boxes.
Glue 27 box to the top of the square on 29 and fold the legs down.
You will need a piece of tooth pic about 7 mm long for the dish.
See the next picture.

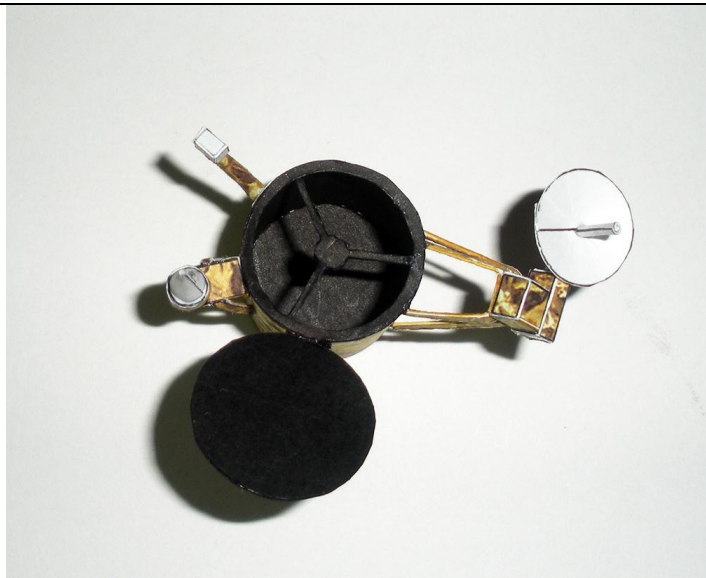


This is how the dish assembly should look when assembled.
You can orient the dish and part 28 at any direction you desire.



SUN SENSOR.

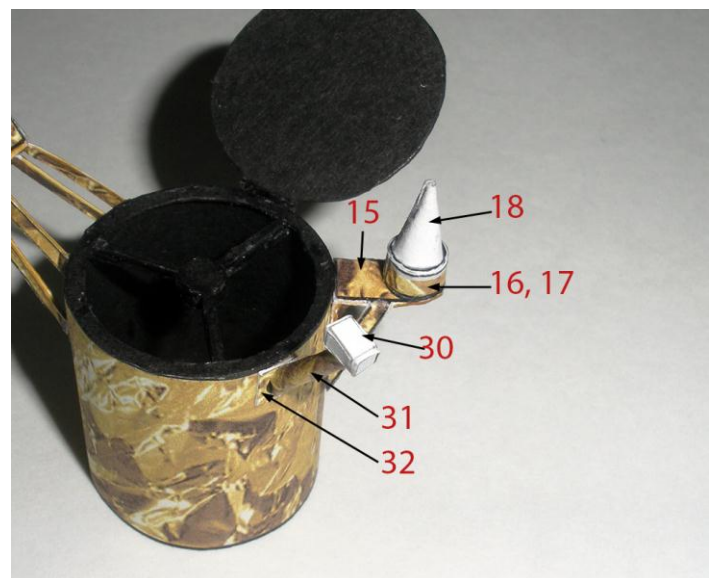
31 is rolled into a tight rod
30 folds to a box.
Now it's time to place these instruments from the previous steps on the lower part of the spacecraft.



Note the location of each of the instruments in relation to the lid – or each other.

The Artist drawings shows IKONOS with two Narrow Band Antennas, But the one photo of IKONOS I was able to find shows only one.

Satellite lower half is complete.

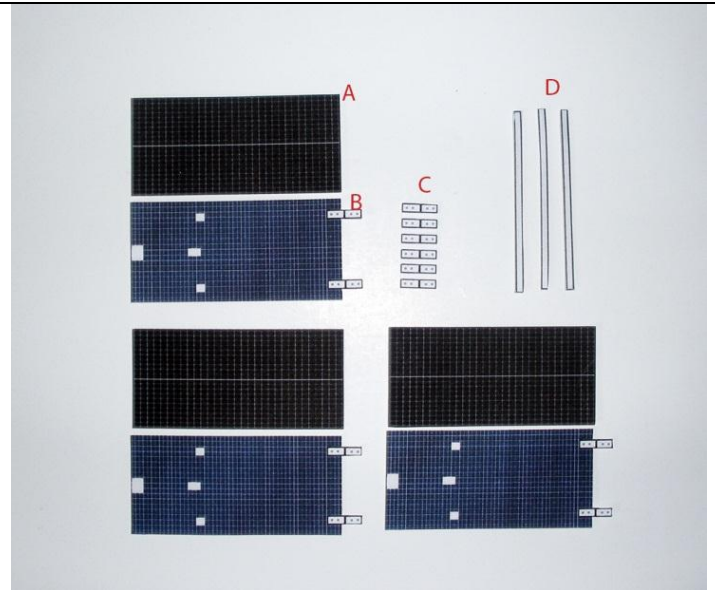


Narrow Band Antenna and Sun Sensor.

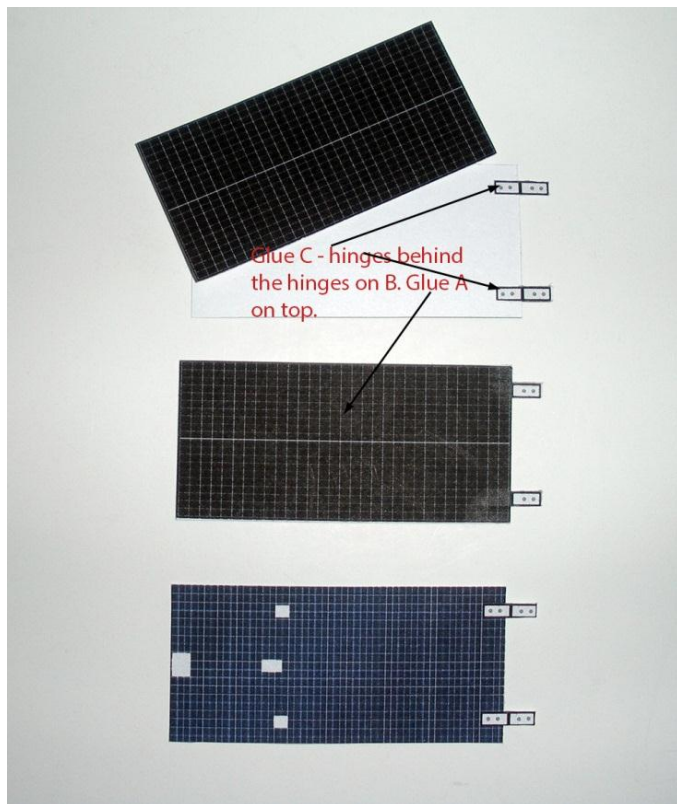


Glue 4 to the top of the spacecraft.
Glue 33 to another layer of cardstock. Cut and glue as shown above.

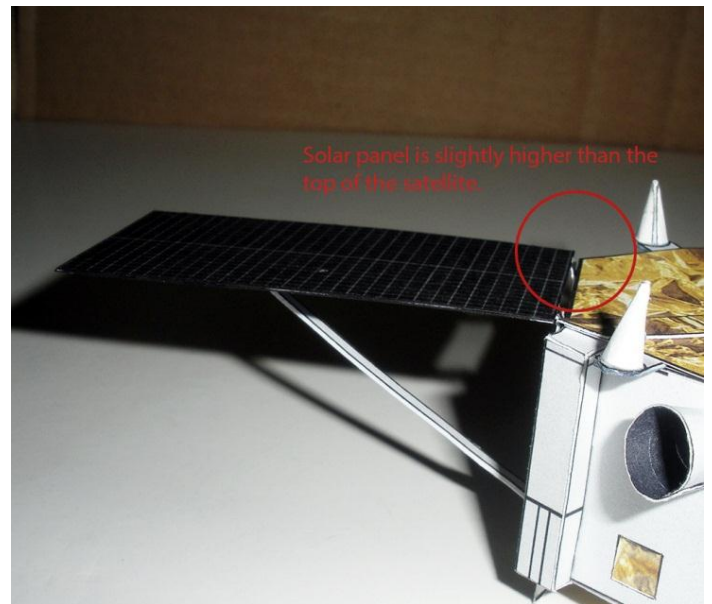
You have completed the top and bottom half of the spacecraft.



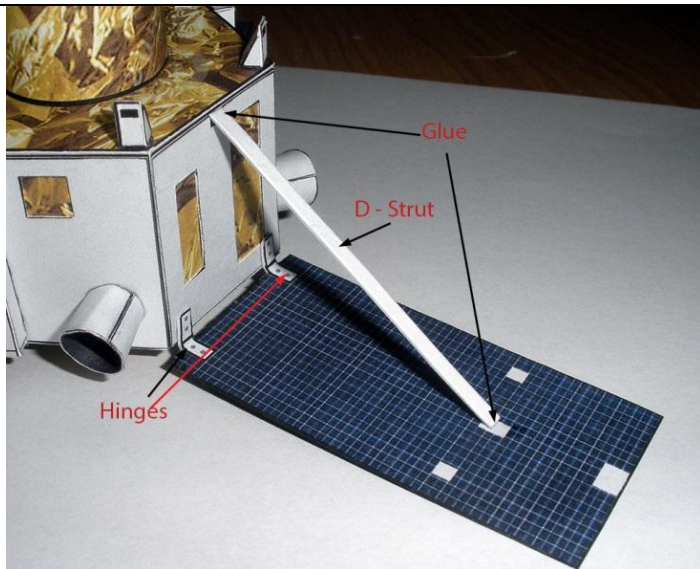
Prepare the solar panel parts above.
Fold in half and glue the grey area on the solar panel parts page. Glue the struts on it for a strong, two-sided color struts.



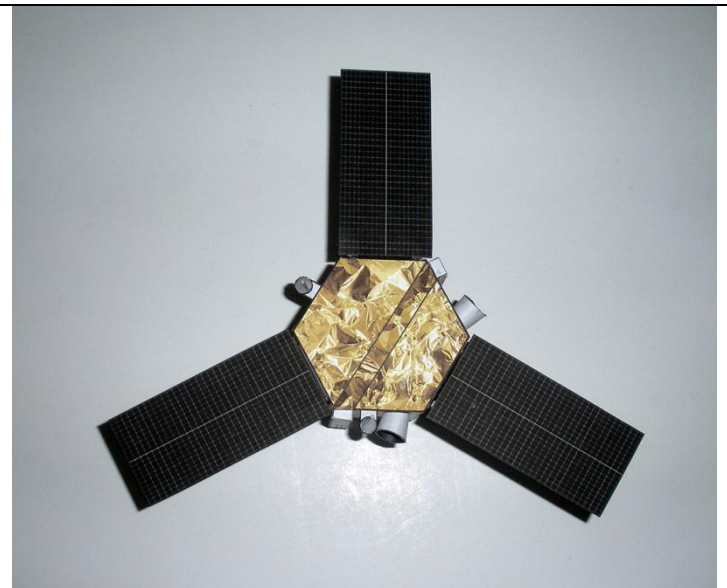
Glue the hinges to the back of the hinge graphics on part B.
Glue A on top to complete the solar panel.
Should have hinge graphics on both sides of the solar panels.
Make 3 of these.



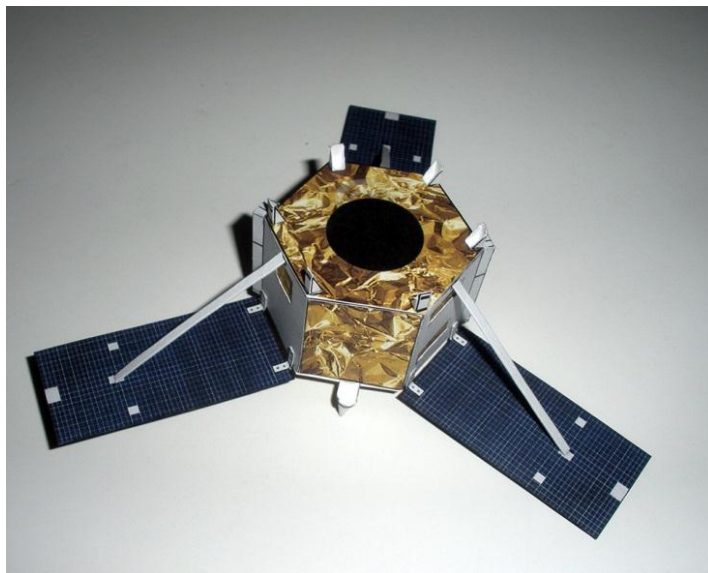
Using the hinges...
The solar panels are mounted onto the spacecraft slightly higher than the top of the spacecraft.



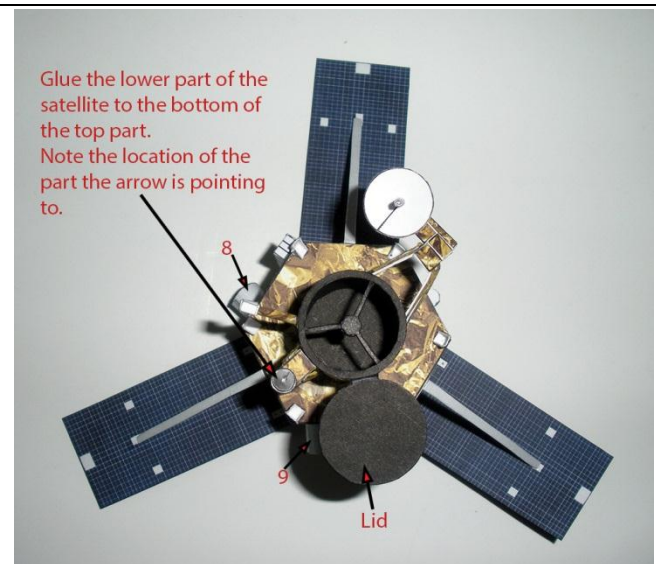
Glue the struts , one end on the small square graphic on the side of the body, the othe end onto the rectangle on the bottom of the solar panel shown above.
Solar panels should be parallel with the top of the spacecraft.



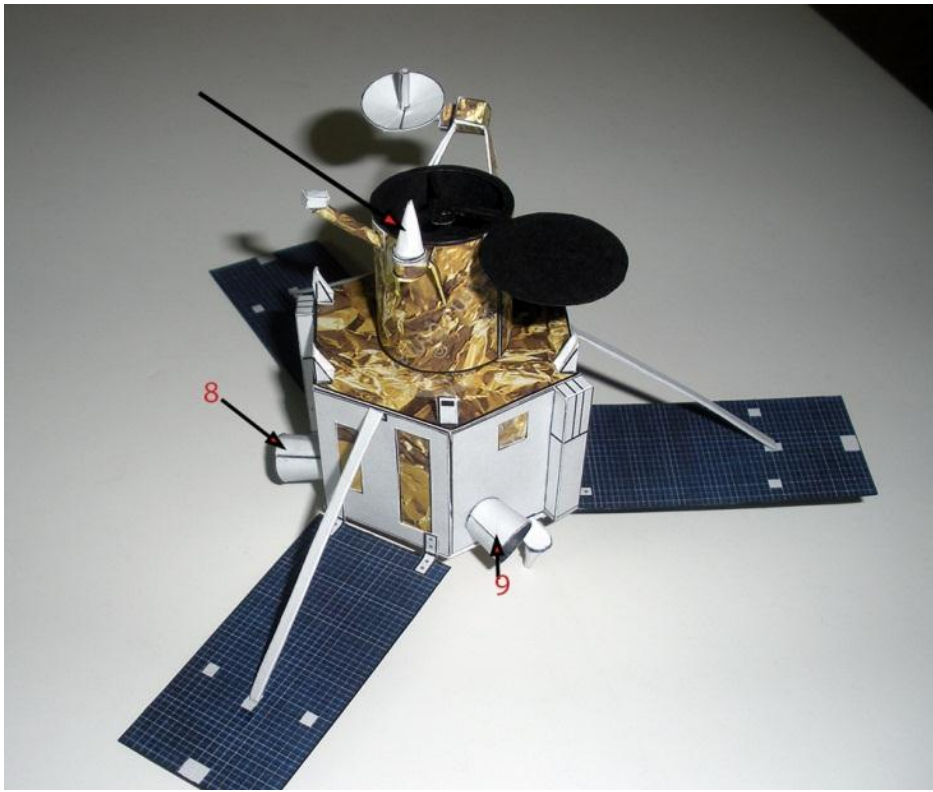
Top view



Bottom view.



Final step.
Glue the lower half onto the bottom of the top half of the spacecraft.
Noe the locations shown above.
The solar panel between parts 8 and 9 is on the left.
The lid on the lower half should be partially over lapping the solar panel on the right.



Another look at the bottom half.

Congratulations, your model is complete.

