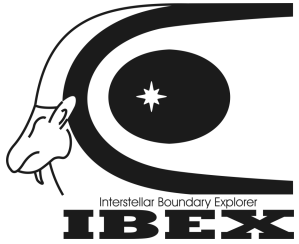


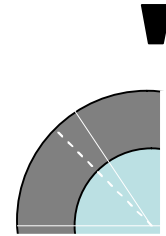
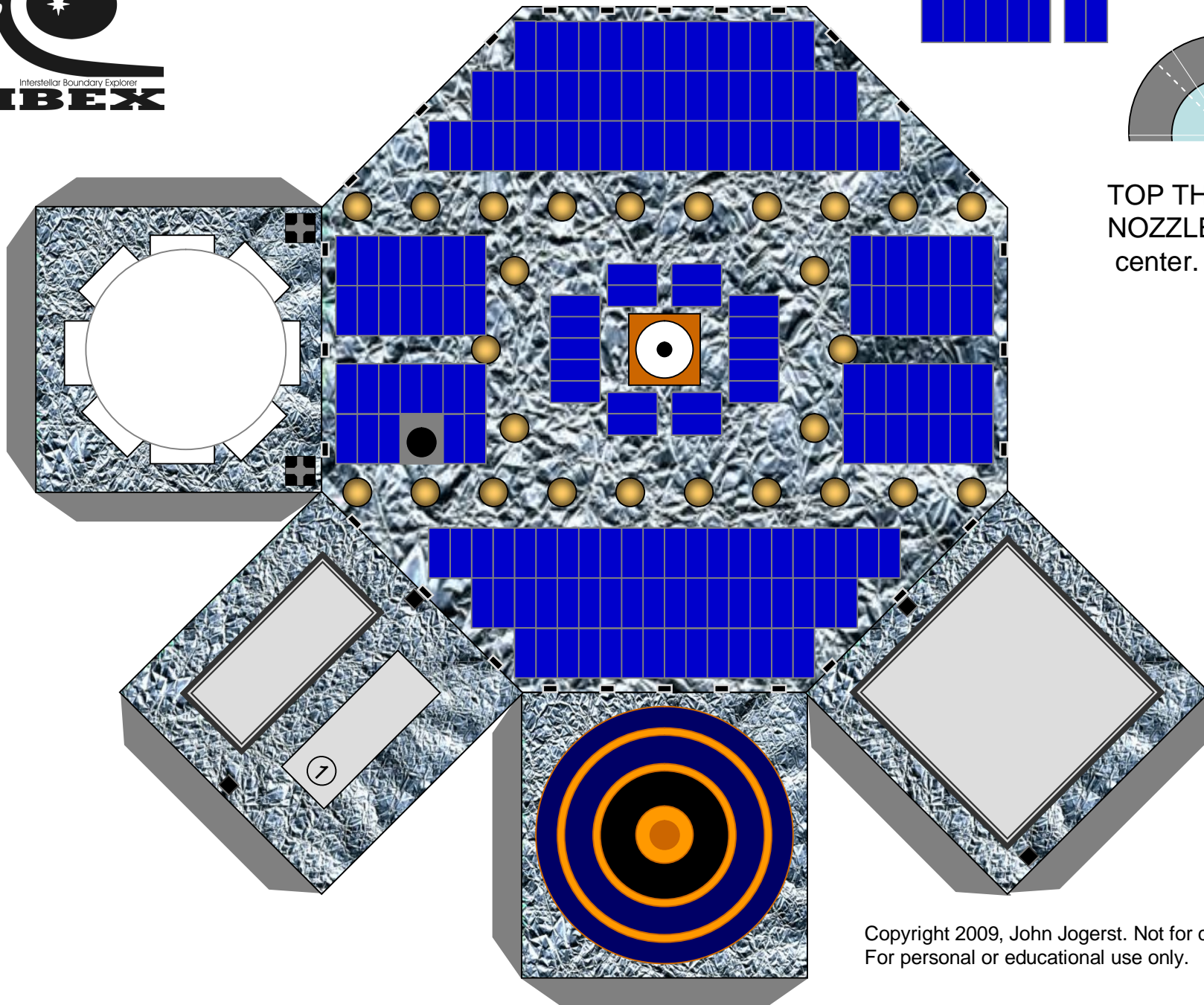
1:8 scale

- IBEX is a small (3 feet across), spinning telescope launched in 2008. It detects high energy neutral atoms using two detectors on opposite sides of the spacecraft. The atoms are generated by the interaction between the Sun's influence and the surrounding interstellar medium. By doing this, IBEX can look at the boundary between the Sun's influence, the heliosphere, and the galactic gas and dust that surrounds the Sun.
- Construction
- Score the lines between the tabs and side panels of the top and bottom decks, then cut out both decks. Fold the tabs and panels down (away from the printed side). Use the tabs to connect the four side panels on each deck. Then, connect the top and bottom deck. First set the decks together to see how they assemble, then use the tabs to connect the side panels together with glue. Finally, carefully bend up the unsecured edge of the top deck very slightly and apply glue to the top tabs to secure the top deck. Repeat for the bottom deck.
- For additional detail add the remaining parts.
 - Cut out the top thrust nozzle on the solid lines, roll it into a cone with the printed side out, and glue it together by overlapping to the dotted line. Glue the nozzle onto the black circle in the center of the top deck.
 - Cut out the two mast parts. Roll the large rectangle around a straight piece of coat hanger wire and glue into a long cylinder. When the first assembly is dry, apply glue to the black tip and roll the smaller rectangular part around the first long cylinder to make a thick cylinder on the end – secure with glue. Glue the mast to the top deck over the black circle near the edge.
 - Cut out the launch mount ring, roll it into a band with the printed side out overlapping the end tab, and secure with glue. Apply glue to one edge and carefully mount the ring on the lower deck over the grey circle in the center.
 - Cut out the two circles and two toothed bands for the cameras. Roll the bands into a circle and glue using the tabs on the ends. Fold the teeth inward and glue the camera circles on top. Apply glue to the back edges and glue to the spacecraft over the corresponding camera circles.
 - Cut out the thrusters (either option 1 or 2, not both). Fold and glue into tall boxes, then apply glue to the top and fold the top shut. Apply glue to the bottom edge and glue to the spacecraft over the black squares above the round white antenna covers.
 - Cut out the circular antenna covers and cut to the center on the solid line. Form into a shallow cone, overlapping to the dotted line, and glue. Apply glue to the back edge and glue over the white circles on the spacecraft sides.
 - Cut out the rectangular radiator panels and glue over the corresponding parts on the space craft. **Do this before gluing on the equipment boxes.**
 - Cut out the equipment boxes 1 and 2, fold into boxes and glue. Apply glue to the edges and glue in place on the space craft over the rectangles labeled 1 and 2 on the side panels.



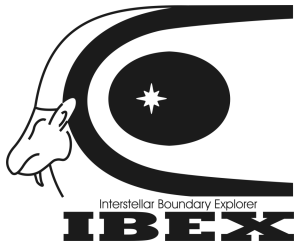
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TOP DECK



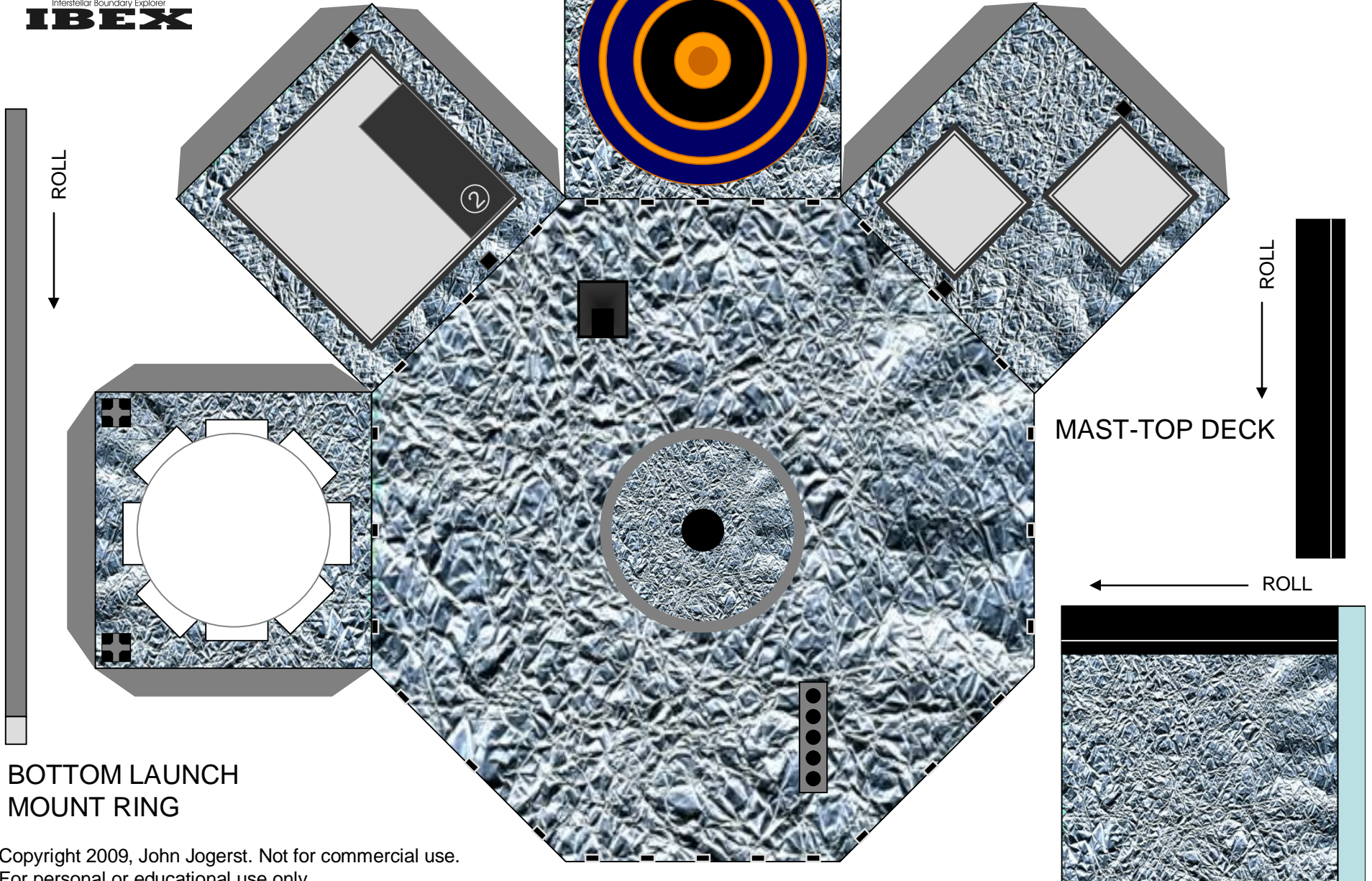
TOP THRUST
NOZZLE- mount top,
center.

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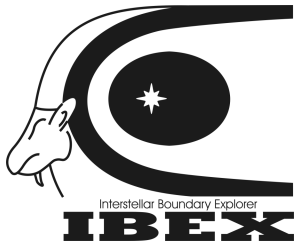
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BOTTOM DECK



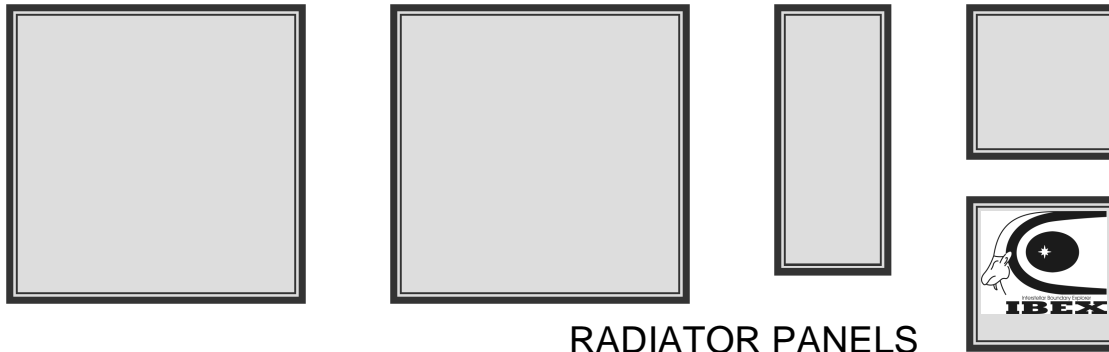
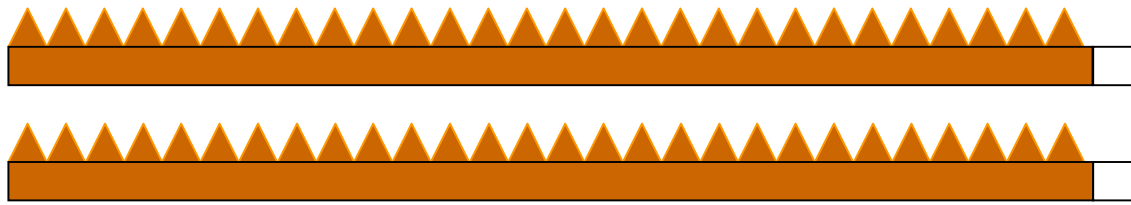
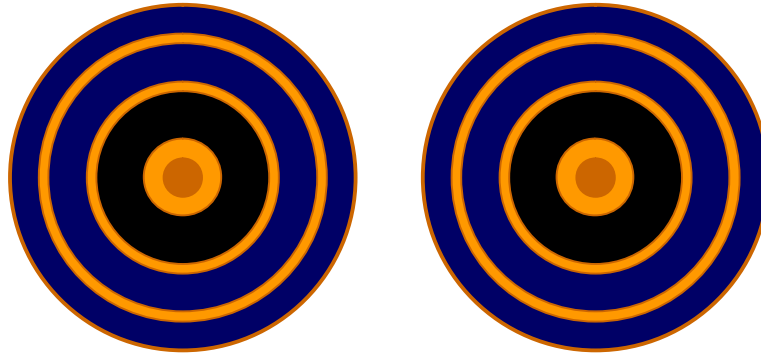
BOTTOM LAUNCH
MOUNT RING

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1:8 scale

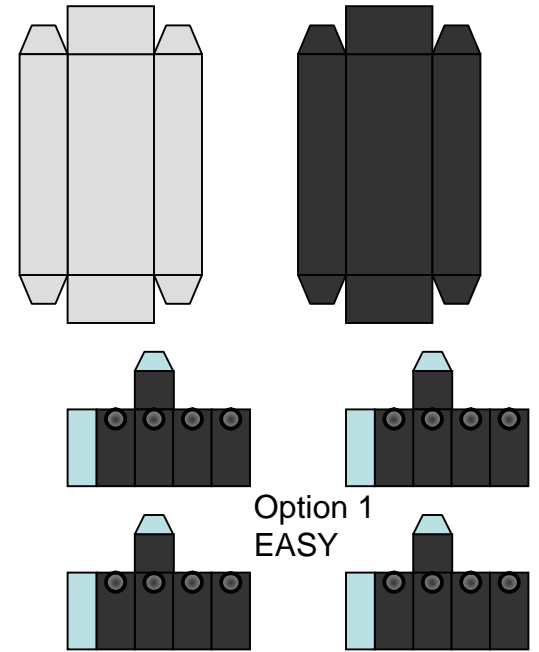
CAMERAS



RADIATOR PANELS

①

②

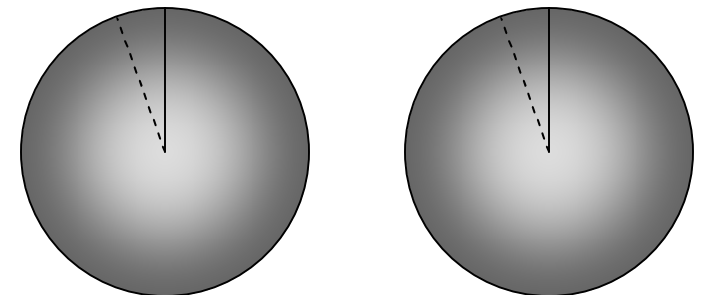


Option 1
EASY

SIDE THRUSTERS

Option 2
HARDER

ANTENNA COVERS

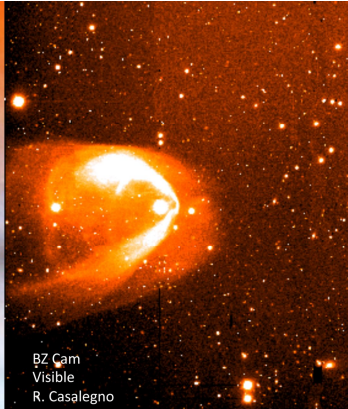


OPTIONAL 3-D DETAIL
PARTS

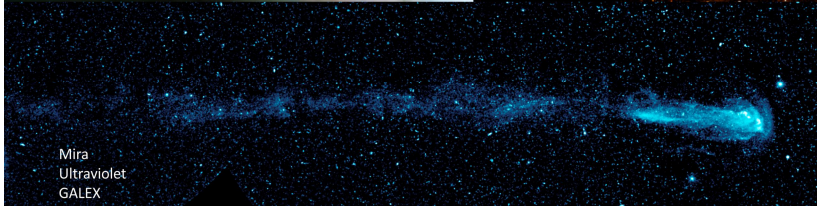
ASTROSPHERES



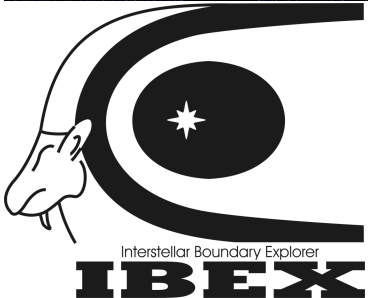
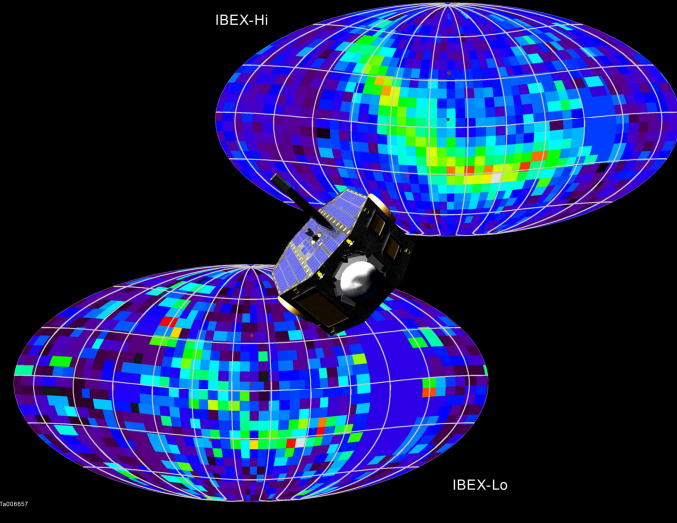
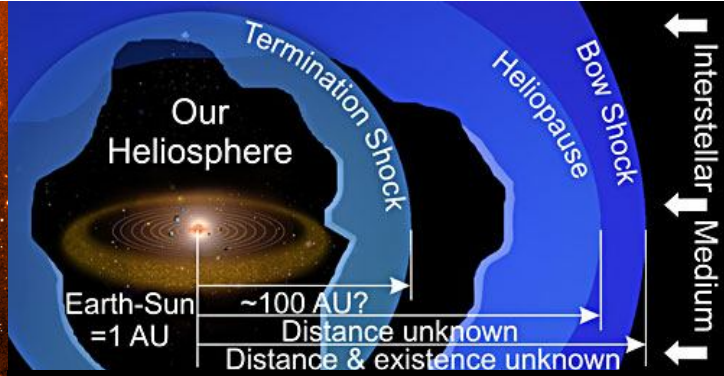
LL Orionis
Visible
Hubble



BZ Cam
Visible
R. Casalegno



Mira
Ultraviolet
GALEX



1:8 scale

