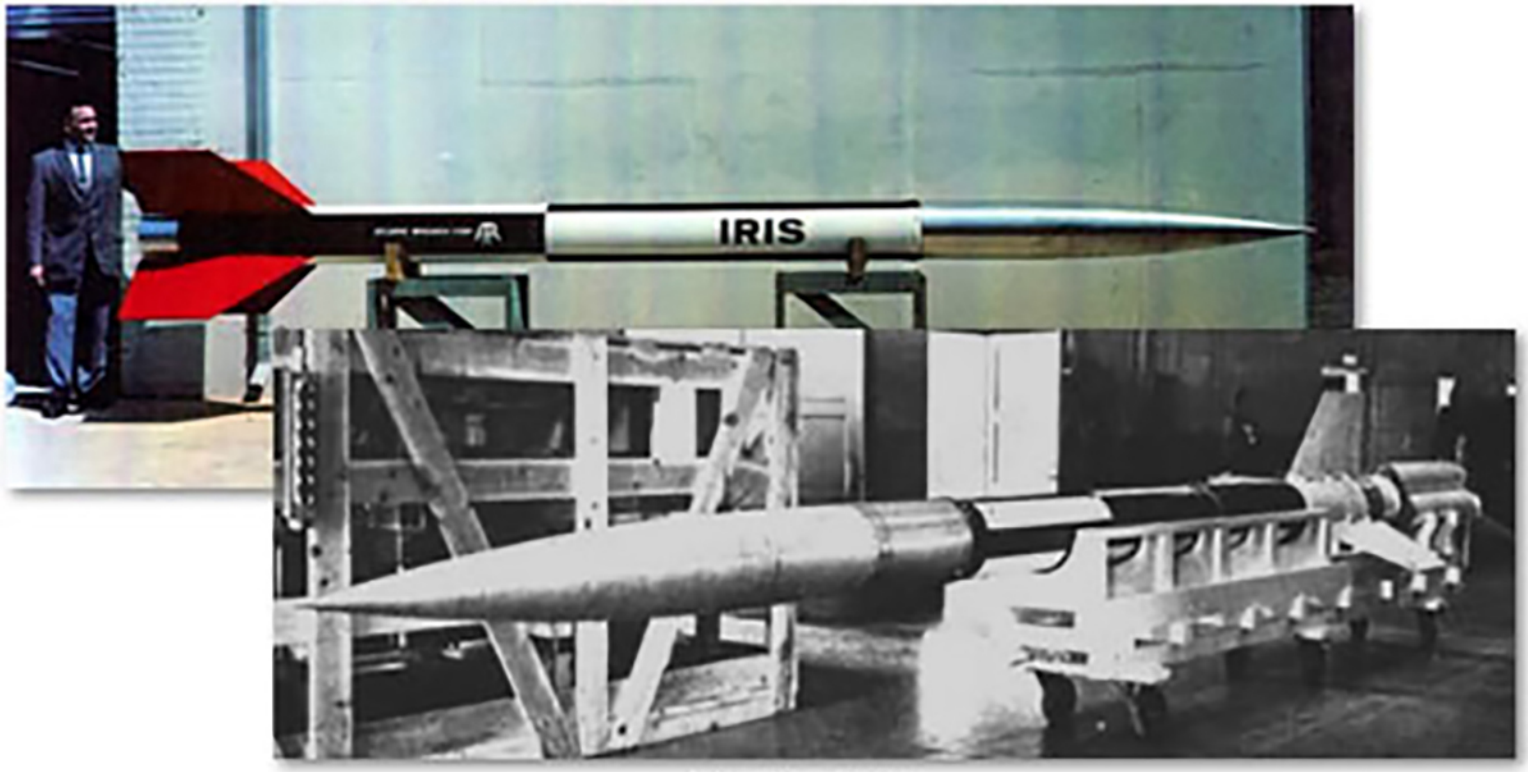
IRIS sounding rocket



Hydra Iris

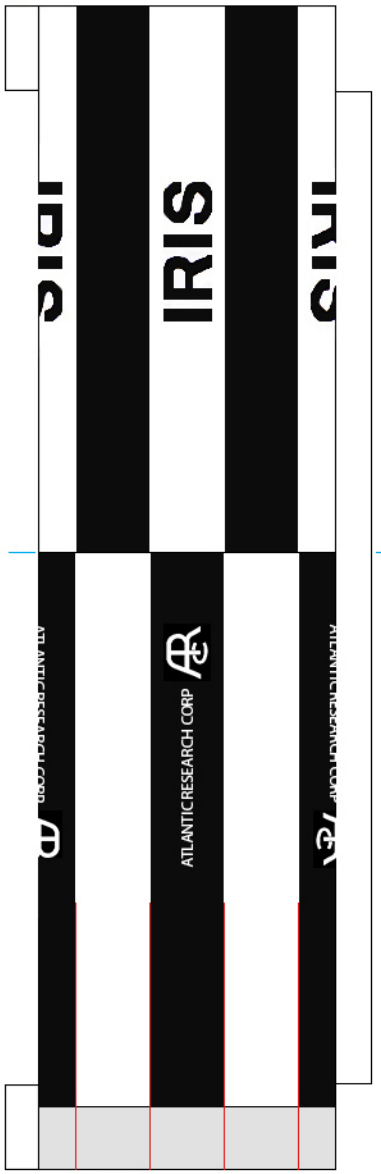
The development of the Iris sounding rocket had begun at NRL prior to the transfer of its Rocket-Sonde group to NASA. Iris was built by the Atlantic Research Corp. for the Naval Bureau of Ordnance, with NRL monitoring the design, the production, and the payload. The development of the rocket was completed by NASA, with the first NASA firing taking place at Wallops Island on July 22, 1960. In contrast to the monsters in the Argo series, Iris is a small, two-stage, solid-propellant rocket capable of lifting 45 kg (100 lb) to about 320 km (200 mi). NASA has not used the Iris rocket since 1962.

Status: Retired 1968.
First Launch: 1960-07-22.
Last Launch: 1962-05-03.
Number: 4.
Payload: 45 kg (99 lb).
Thrust: 17.00 kN (3,821 lbf).
Gross mass: 602 kg (1,327 lb).
Height: 5.00 m (16.40 ft).
Diameter: 0.31 m (1.01 ft).
Apogee: 320 km (190 mi).

IRIS sounding rocket

1 to 2 connector

1



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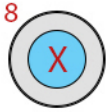
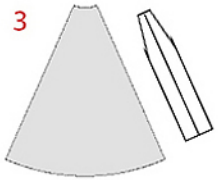


Color back Black

Print on 65 lb cardstock for easier rolling the long tube.

3



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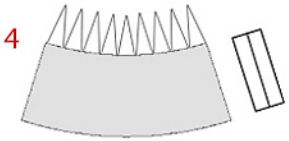
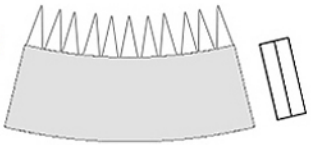


Former

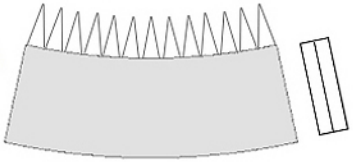
Former

5



Glue the two formers to cardstock

6



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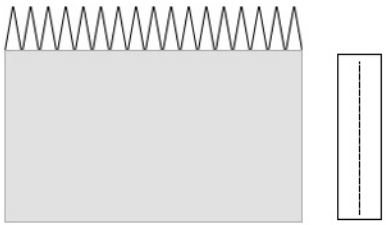

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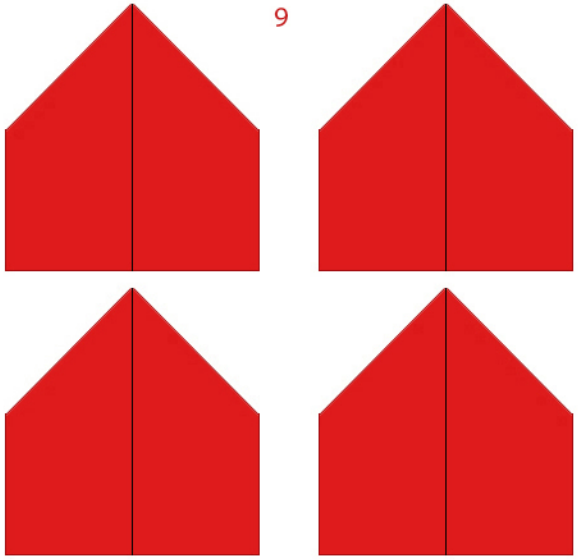


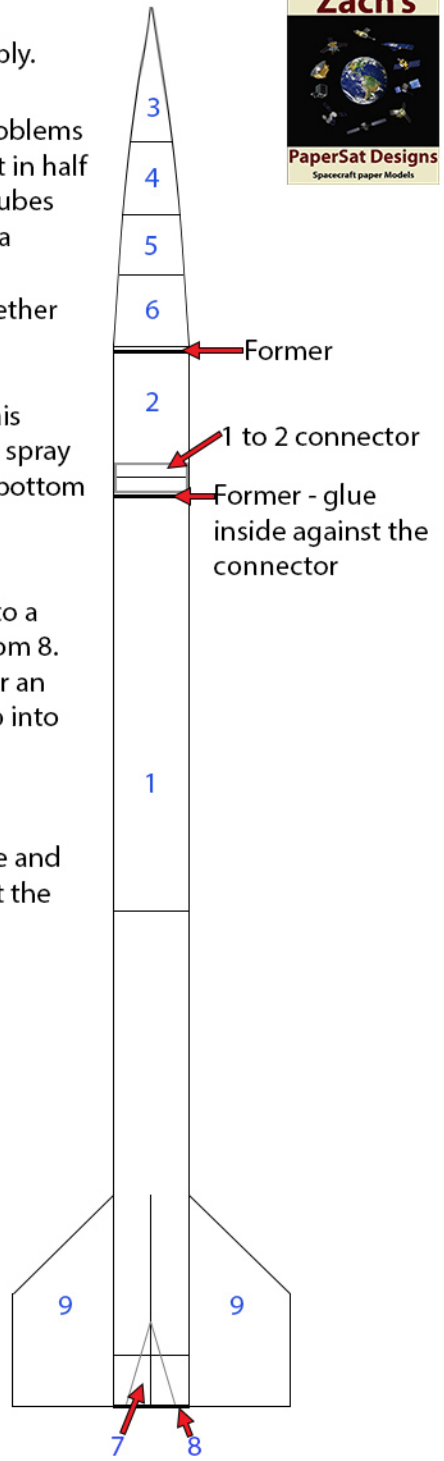
1/20 Scale Paper Model

Align all seems during assembly.

Part 1.
roll to a long tube. If having problems rolling to a long tube, can cut it in half at the blue lines, roll into two tubes and glue them together using a connector.
Glue the nose cone pieces together and glue them on part 2 while keeping all seems aligned.
For more realistic look, paint this assembly (Parts 2-6) with silver spray paint also the grey area at the bottom of the rocket.

Parts 7 and 8.
Color back side of 7 black, roll to a cone. Cut out the blue circle from 8. Glue 7 to the BACK SIDE of 8 for an embedded nozzle. Glue this up into the bottom of the rocket.

Parts 9.
Fold-glue the fins at the middle and glue each one to the red line at the lower part of the body.



Zach's
PaperSat Designs
Spacecraft paper Models