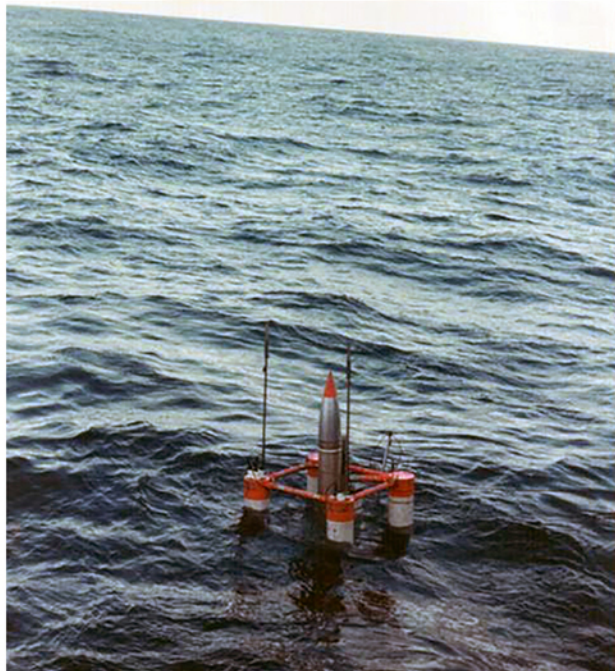


Hydra Sandhawk Sounding Rocket



The Last Water Launched Sounding Rocket



The Hydra Sandhawk was an experimental sounding rocket launched under water from a floating launch structure. It combined a NOTS-401 solid rocket motor as first stage with the motor of the Sandhawk rocket as an upper stage.

The Hydra Sandhawk together with its floating rail launcher was put into the ocean, with nearly the complete rocket under water. The signal to launch was given from the mother ship, but the launch only occurred when the launcher's gyro's pitch rate and position data indicates that the rocket and launcher were positioned properly in both axes.

Only one single stage test flight and two successful flights of the complete rocket were conducted, two from the USS Norton Sound (AVM-1) and one from the USNS Wheeling (T-AGM-8).

Status: Retired 1973

First Launch: Nov 18, 1971

Last Launch: April 4, 1973

Number: 2

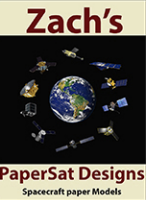
Gross mass: 1,200 kg (2,600 lb)

Height: 10.00 m (32.00 ft)

Diameter: 0.50 m (1.64 ft)

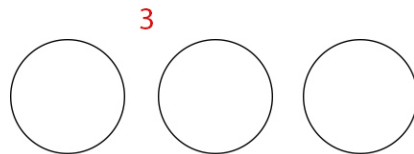
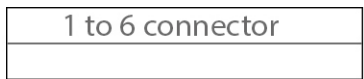
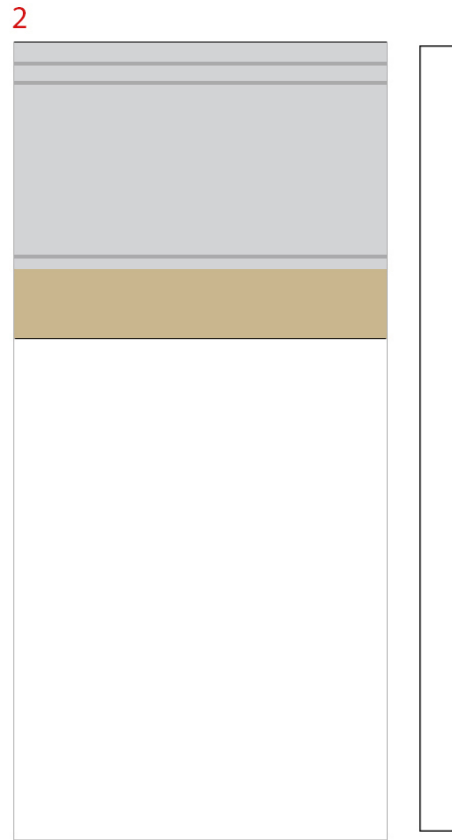
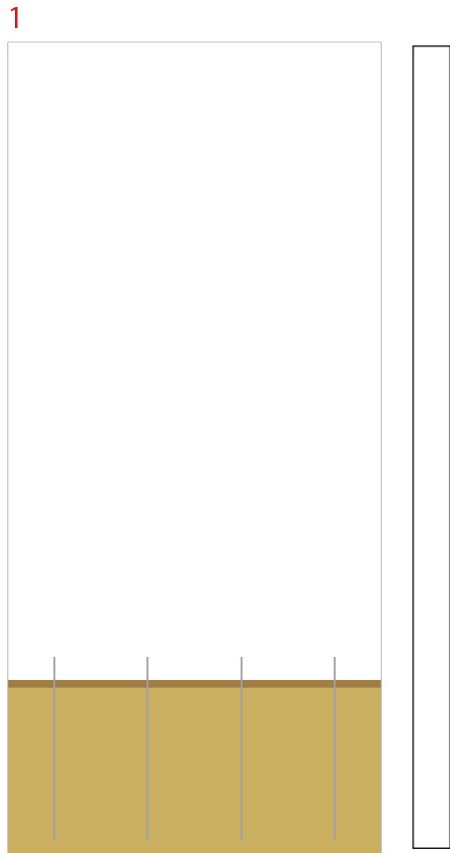
Apogee: 280 km (170 mi)

Hydra Sandhawk Sounding Rocket

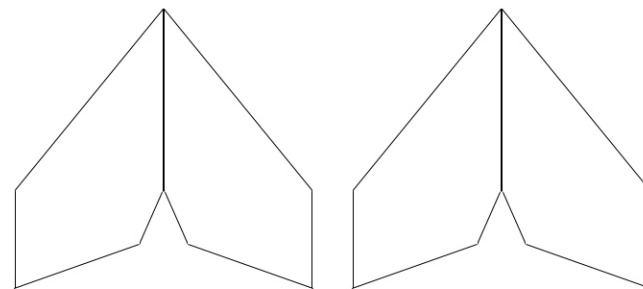
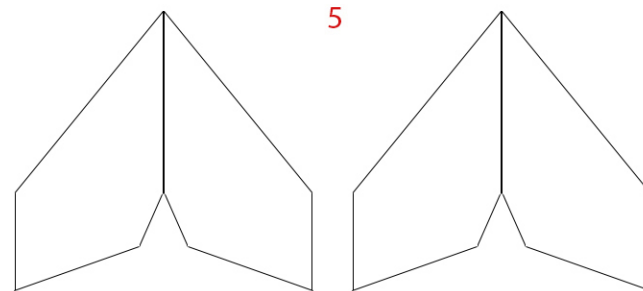
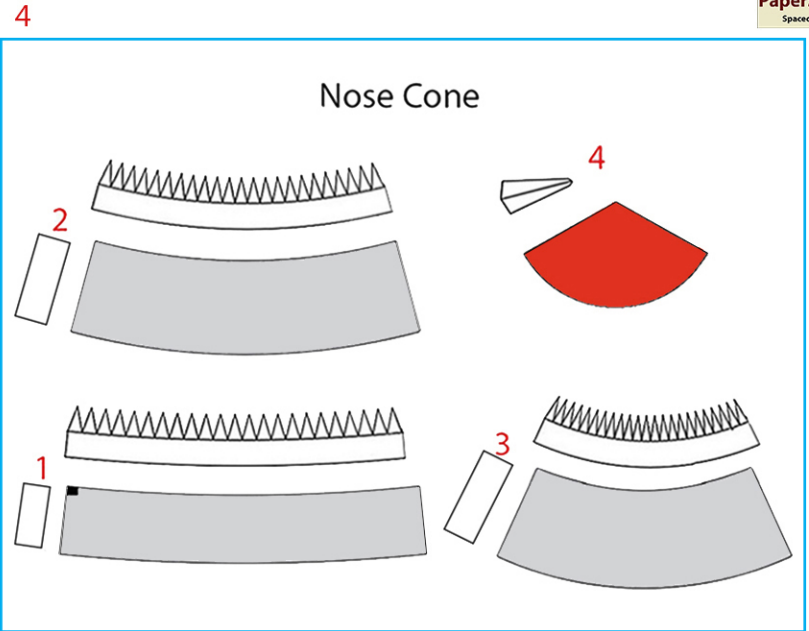


Bottom half

Top half

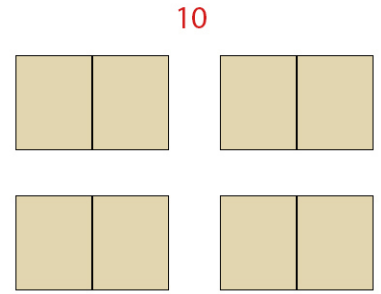
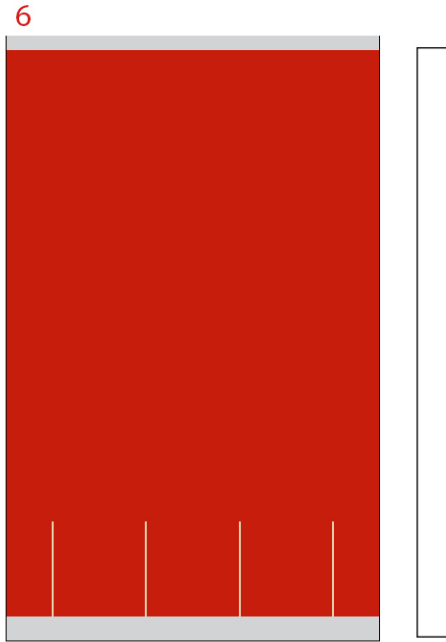


Formers - Glue to cardstock



Fins, fold in half and glue

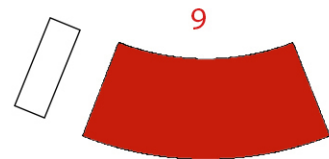
Hydra Sandhawk Sounding Rocket



Fins, fold in half and glue



Glue to cardstock
for strength



Color backside grey



Roll to a ring with color INSIDE.
Glue inside bottom.

Hydra Sandhawk

2nd stage

1st stage

When gluing the nose cone, 1st stage and 2nd stage together, make sure to line up all seems.

