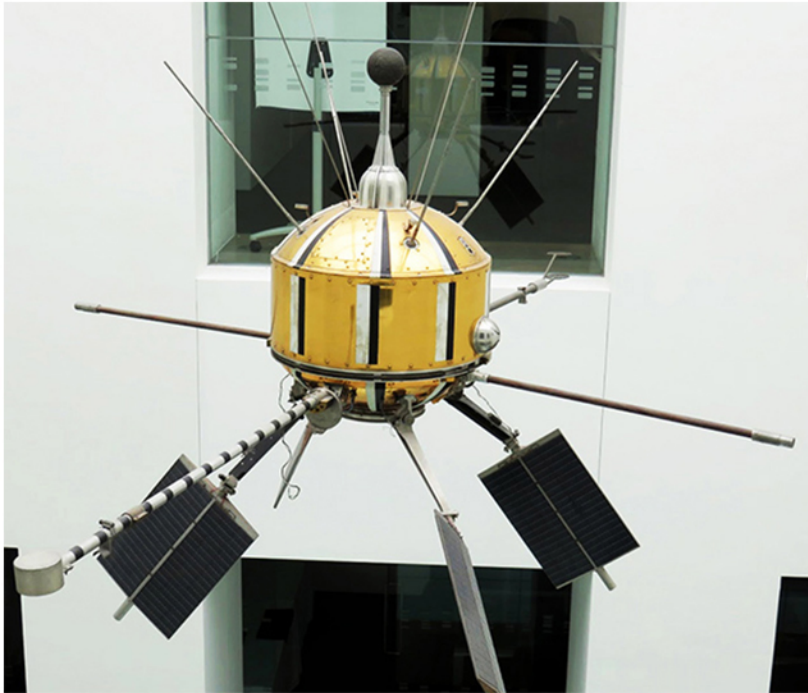


Ariel 1 - First British Satellite



Ariel 1 (also known as UK-1 and S-55), was the first British satellite, and the first satellite in the Ariel programme. It was launched in April 26 1962 on a Thor-Delta rocket at the Cape Canaveral Air Force Station, and made the United Kingdom the third country to operate a satellite, after the Soviet Union (Sputnik) and the United States (Explorer 1).

It was constructed in the United States by NASA Goddard Space Flight Center, under an agreement reached as the result of political discussions in 1959 and 1960.

This makes Ariel -1 the world's first internationally conceived and executed satellite.

Six experiments were carried aboard the satellite. Five of these examined the relationship between two types of solar radiation and changes in the Earth's ionosphere.

Launch date: 26 April 1962

Launch vehicle: Thor-Delta

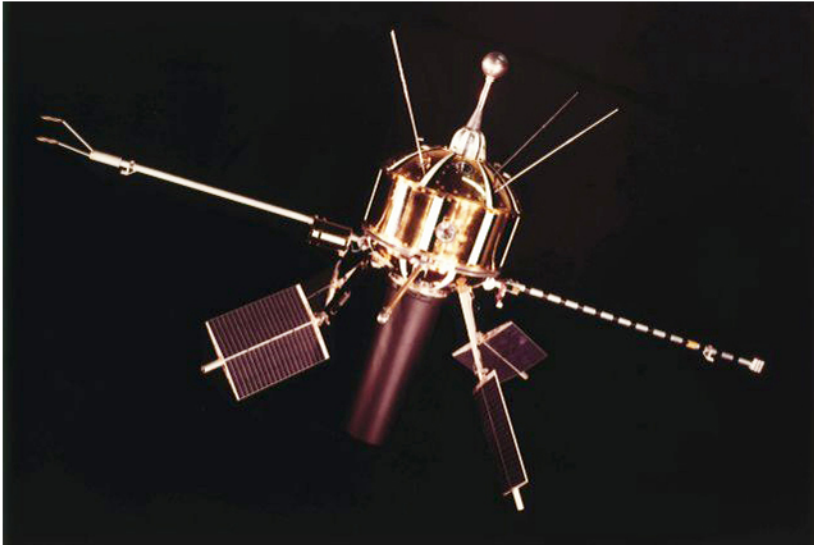
Weight: 60kg

Diameter (body): 58cm

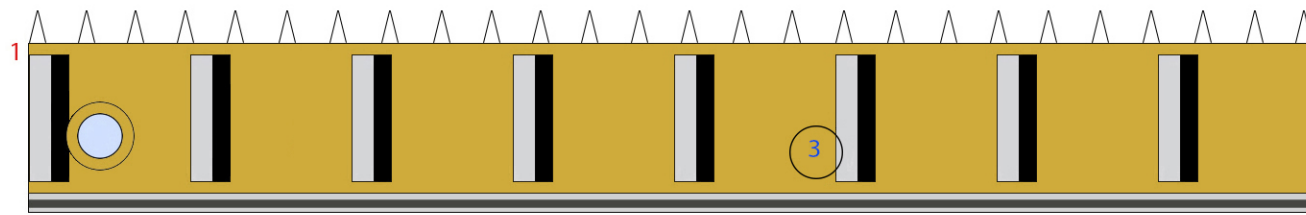
Total boom span: 3m

Orbit: 389km x 1214km

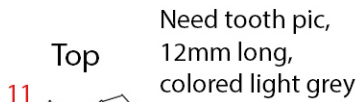
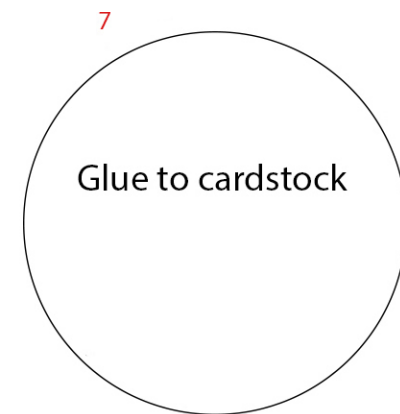
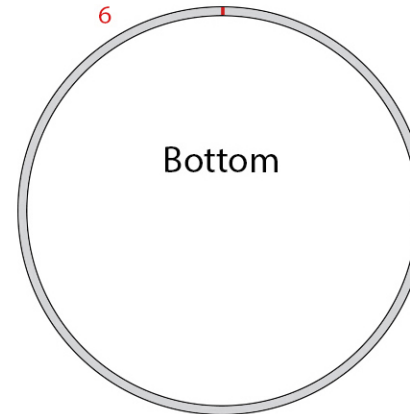
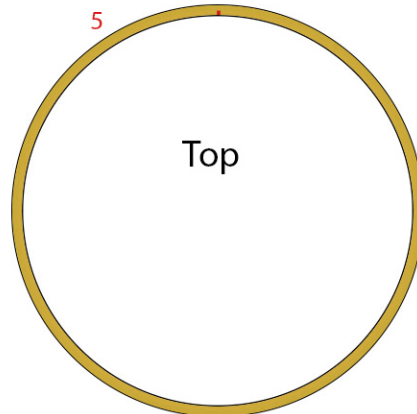
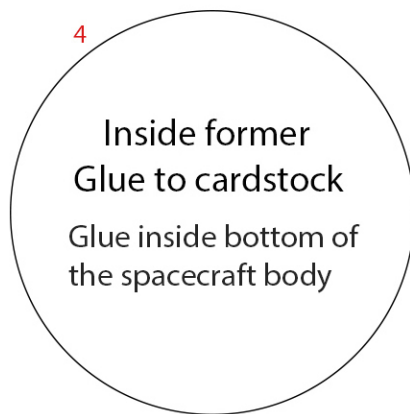
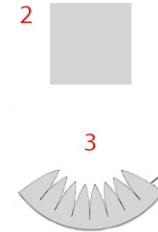
Stabilisation: spin at 36.6rpm



Ariel 1 - First British Satellite



Cut out the blue circle - glue 2 behind the cutout



Need tooth pic, 12mm long, colored light grey



Need 2 tooth pics, colored light grey, 70mm long.

Fold with color outside



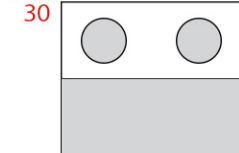
Fold with color inside



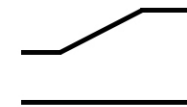
Drill a tooth pic size hole on the grey dot.



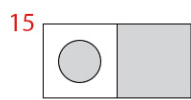
Wrap around a 2mm dia, 85mm long skewer or wire colored light grey in the direction of the arrow.



Fold in half - back-to-back for color on both sides.



2 pcs of plastic broom straws or stiff wire, colored light grey cut and bend to the length and shape matching the lines above.



Fold in half - back-to-back for color on both sides.

Fold with color outside

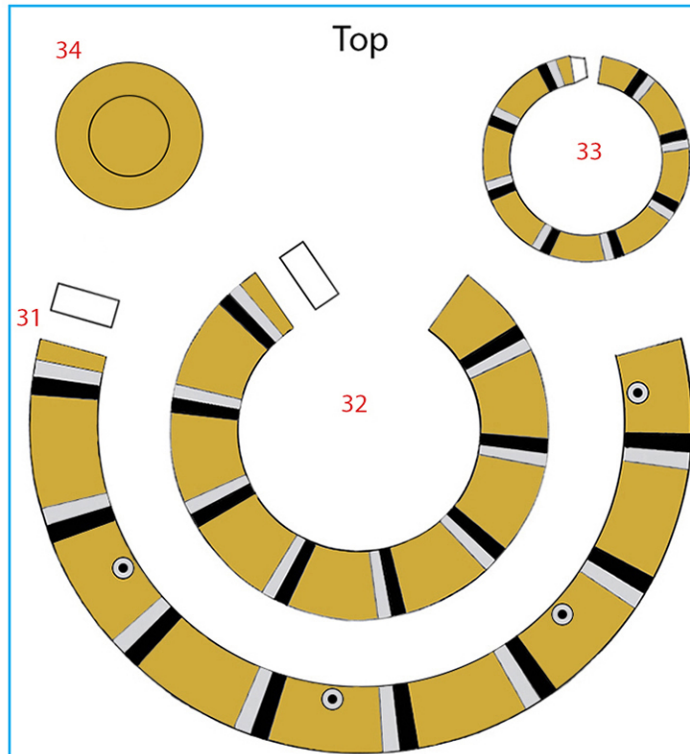


Fold with color inside



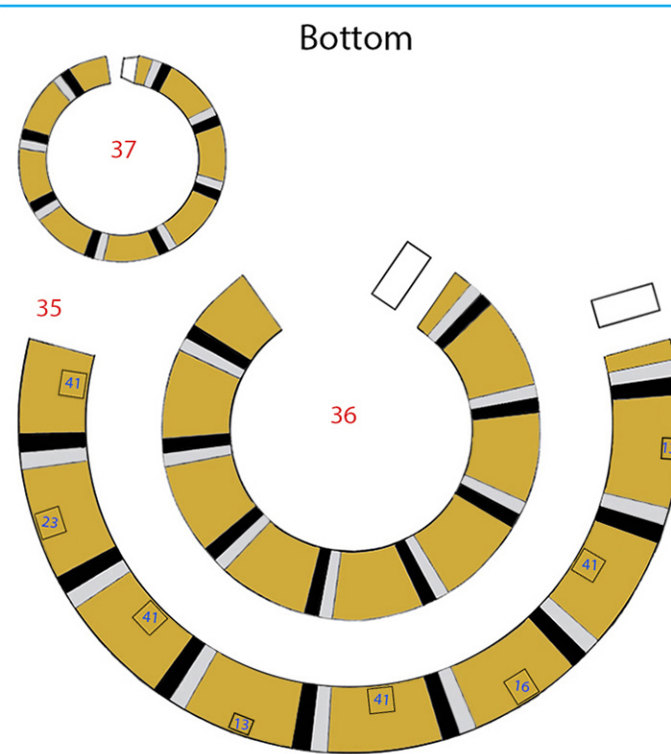
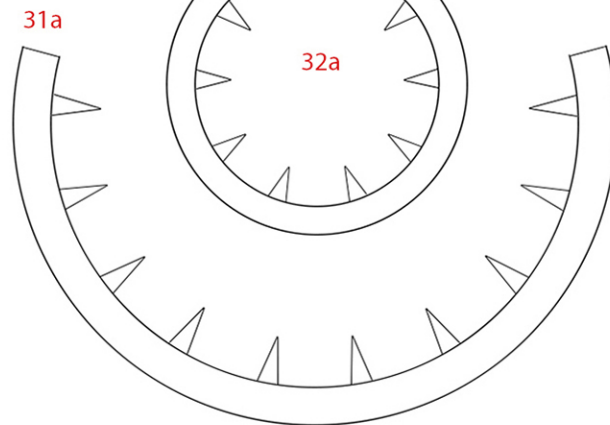
Wrap around close to a 2mm dia skewer, 85mm long

Ariel 1 - First British Satellite

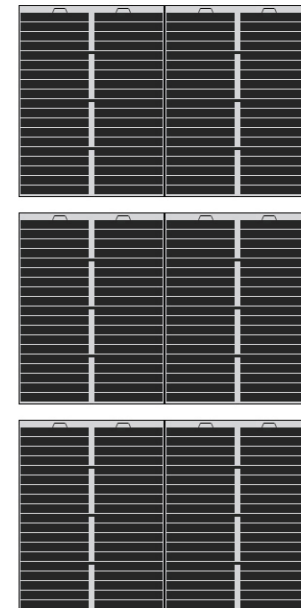
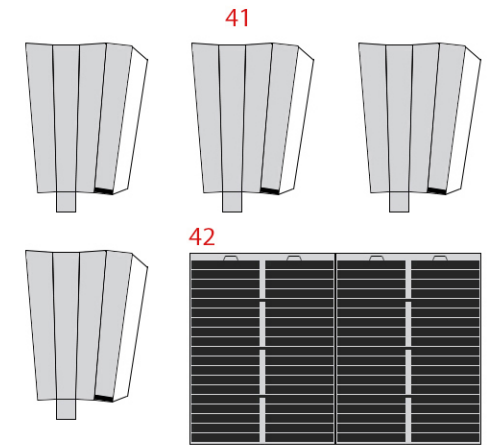
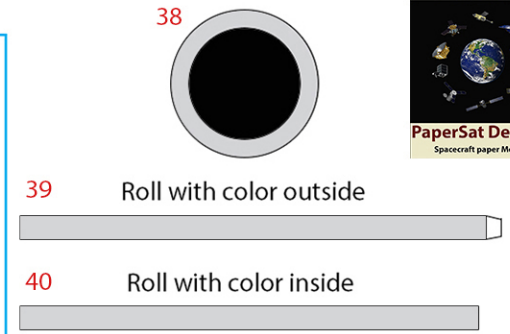
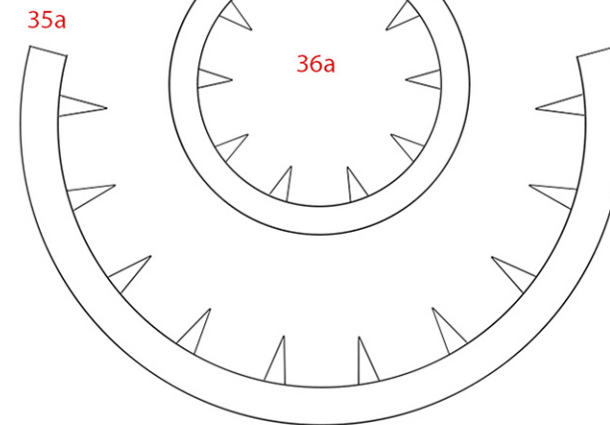


Punch small holes in the black dots before gluing.
Need 4 plastic broom straws or similar material cut at 32mm long, colored light grey for the antennas.

Connectors



Connectors



Need 4 tooth pics or thick stiff wires cut at 35 mm long - colored light grey.