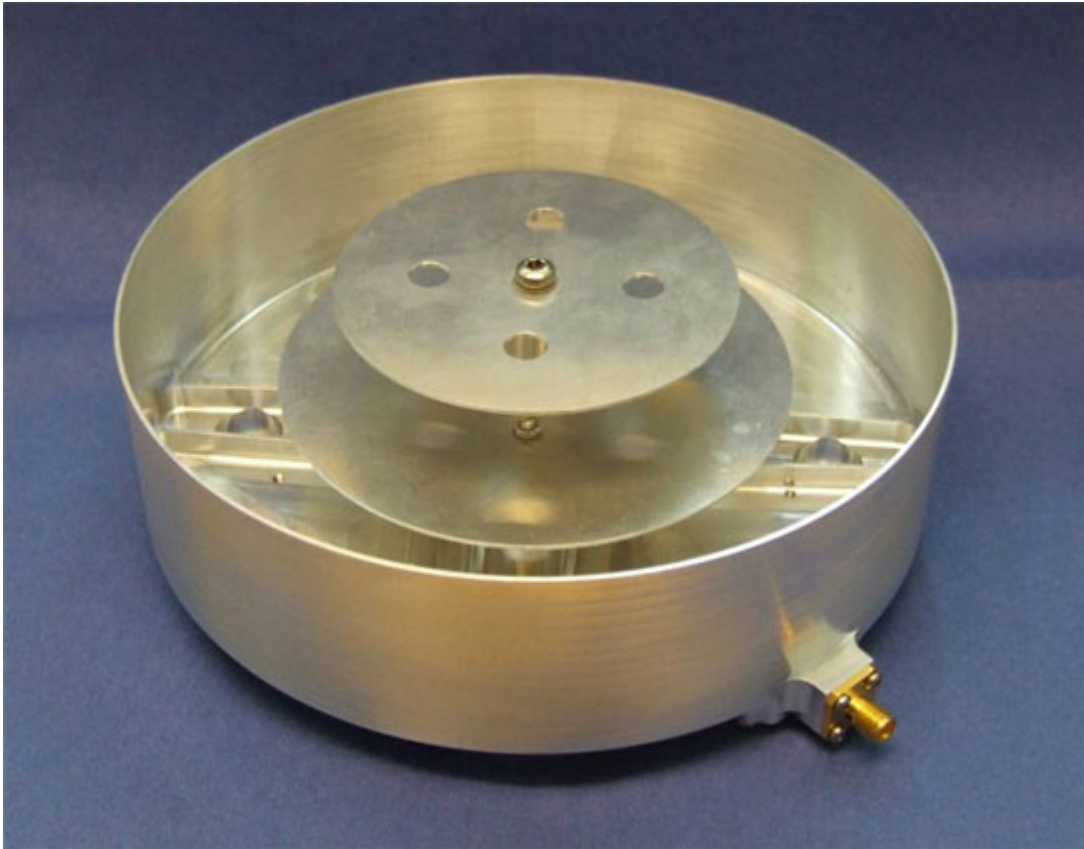


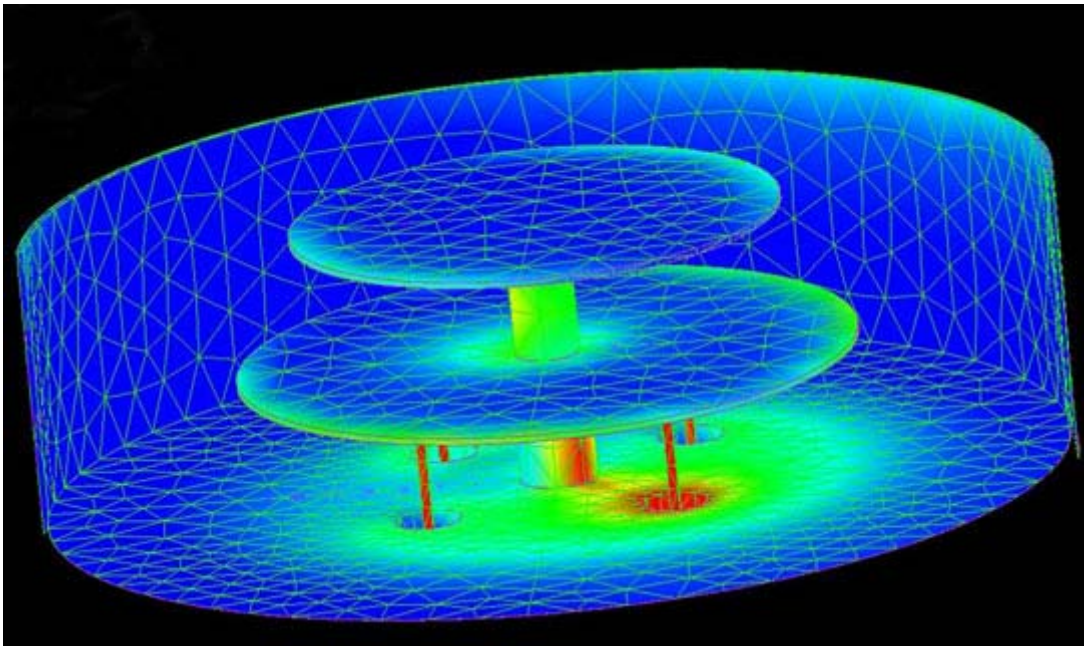
GPS SATELLITE ANTENNA



The SWARM GPS antenna. Courtesy of RUAG Space AB, Sweden.

The satellite antenna consists of two patches, placed in a circular cup. The antenna is covering the two GPS bands using a four-point feed connected to the bottom patch. The limited allowed size, 160 mm diameter and 55 mm height, makes this design a challenge, in particular for the lower frequency band.

- Excitation with four waveguide ports
- RHCP
- 1.2-1.6 GHz
- Number of elements = 4602
- Number of unknowns = 6903



Surface currents and meshing

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