



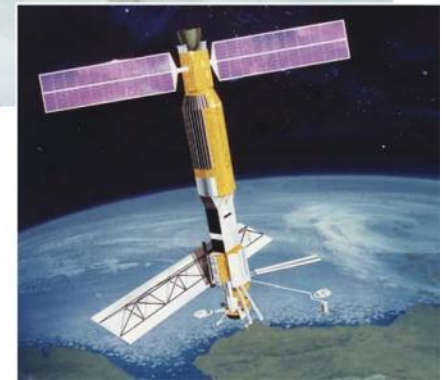
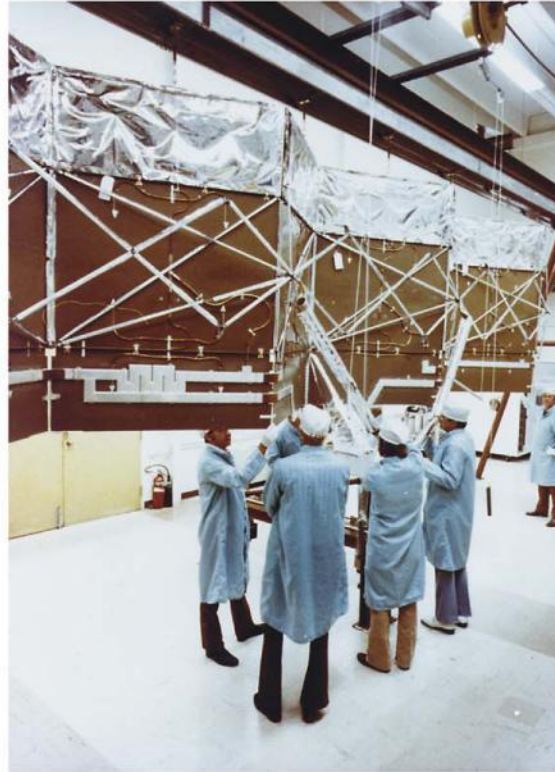
Extendable Support Structure (ESS)

AstroFold – Extendable Support Structure (ESS)

- ISAT Proposed SAR Structure
- Sequence of Events
 - Release of launch tie-downs allows small first motion of truss due to stowed strain energy
 - Extension and latch-out of telescoping diagonals
 - Secondary restraint is released
 - Cable spoolers deploy truss in controlled and synchronized manner
 - Slack diagonal cords are managed with devices developed for AstroMesh
 - Longerons tensioning cables preload structure to complete deployment
 - Truss can be bowed as required by differential longeron tensions



SEASAT – Extendible Support Structure (ESS)



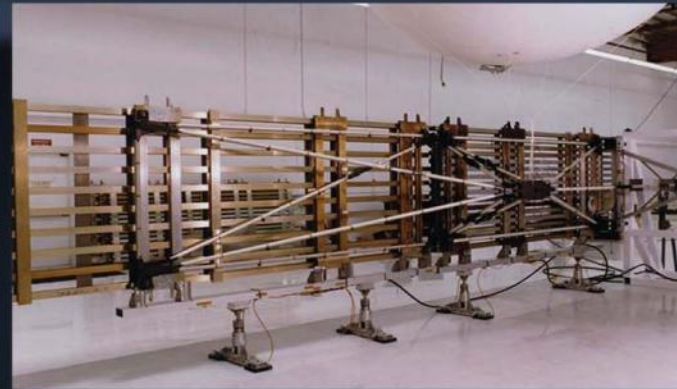
Customer: Ball Aerospace

RADARSAT – Extendible Support Structure (ESS)



Features

- Supports 600 kg at 4 Hz Synthetic Aperture Radar
- Provides 1 mm Flatness Over Entire 15-Meter Length
- Synchronous Deployment
- Graphite/Epoxy Struts and Titanium Fittings



Customer: Spar Aerospace Limited

NORTHROP
GRUMMAN

The logo graphic consists of a thick black horizontal line extending from the right side of the word "NORTHROP" to the right edge of the frame. From the right end of this horizontal line, a thick black vertical line descends downwards, ending at the bottom edge of the frame. This graphic element is positioned to the right of the text and partially overlaps the right side of the word "GRUMMAN".