



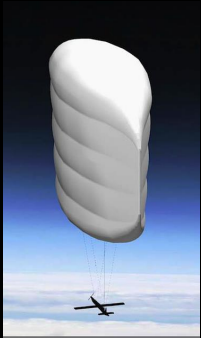
STAR ✦ SYSTEMS

Star ✦ Light[©]

Stratospheric Satellite



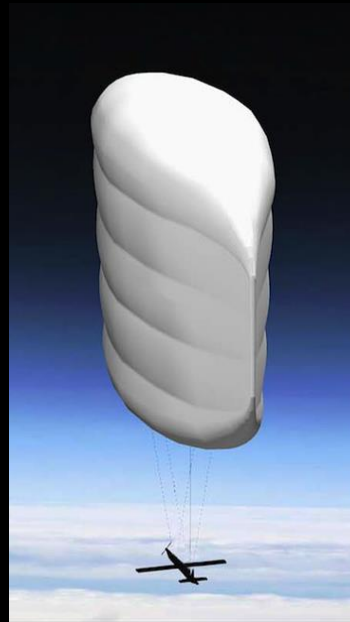
The StarLight[®] Family



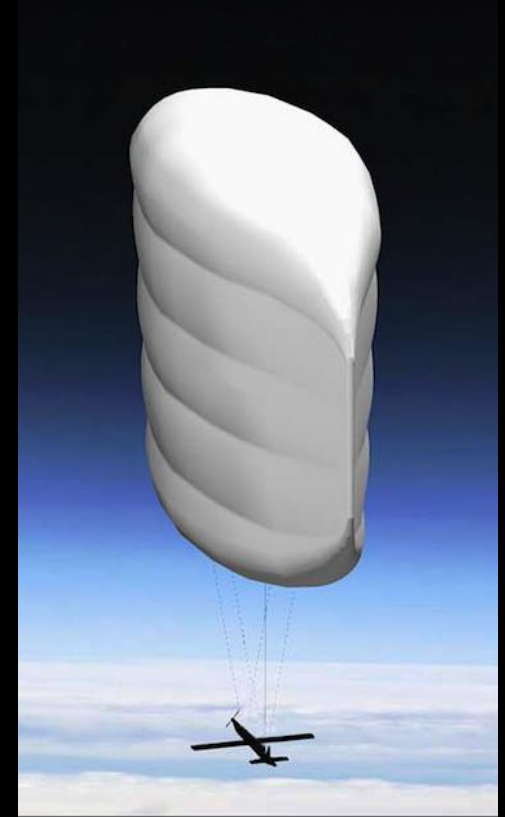
StarMyte[®]



SL 100



SL 200



SL 300

... A Fleet of
Stratospheric
Satellites

Star✧Light Stratospheric Satellite



Description

- 2-stage Stratospheric Satellite
- Low-cost upper stage envelope
- Automated, precision recovery lower stage UAV
- Lifting gas can be helium or hydrogen
- Solar-electric powered
- Can be launched at sea

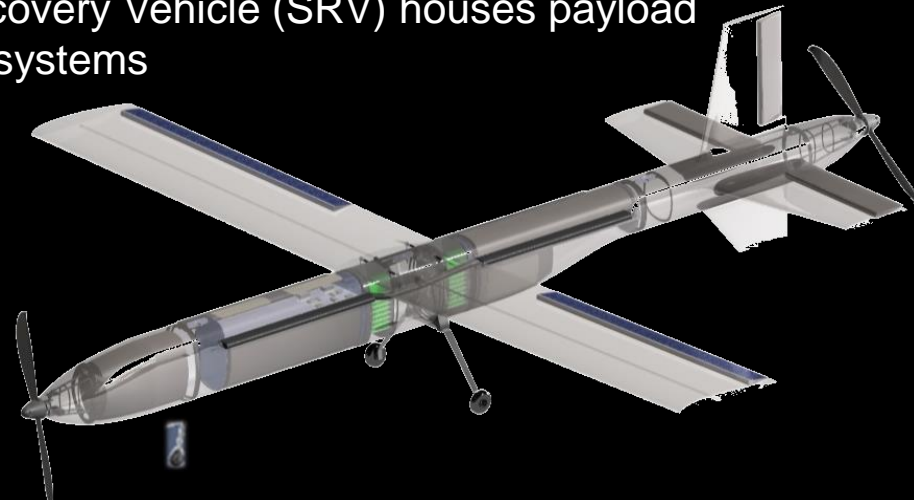
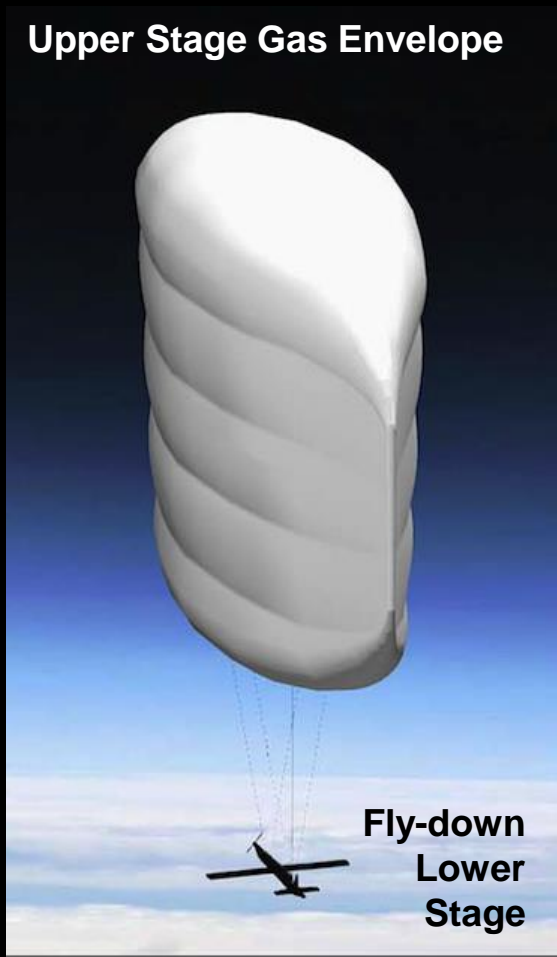
Operations

- Operates at 20 – 26 km ASL
- Flt Duration: 4-6 months
 - Air speed: 60 kts IAS
- Can orbit over one point on the ground or transit long distances
- Remote area operations

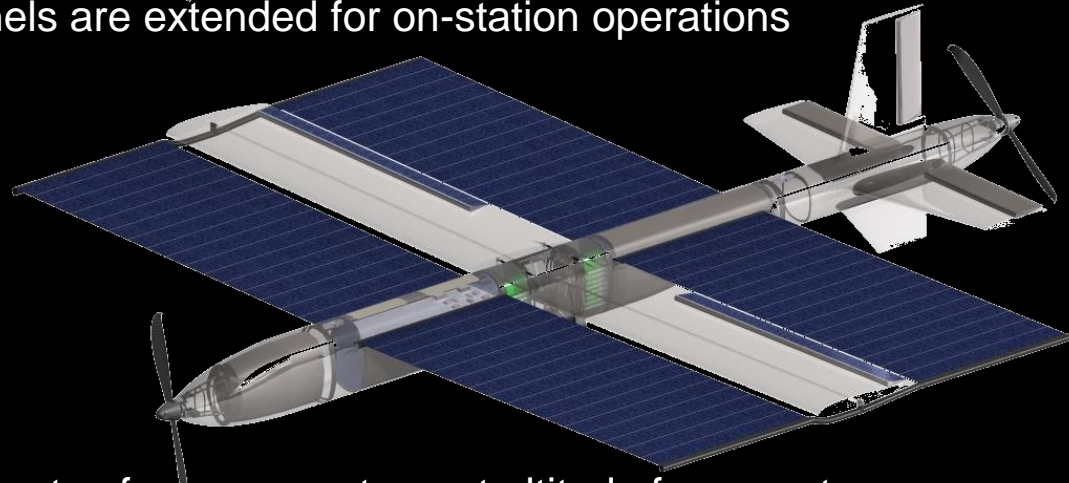
Design Overview

Stratospheric Recovery Vehicle (SRV) houses payload and all major subsystems

Upper Stage Gas Envelope



Solar panels are extended for on-station operations



SRV separates from upper stage at altitude for an autonomous, precision, recovery and arrested landing. SRV and payload has return capability from beyond 150 km.



Star ✧ Light[©] Subscale Lower Stage

Carbon Composite Fuselage





STAR SYSTEMS

Star✧Light[®] Lower Stage Subsystems

Fuselage contains integrated and tested subsystems:

- Power
- Vectored Thrust
- Avionics
- Payload Bays
- Landing Gear
- Releases

