

AIRSHIPS:

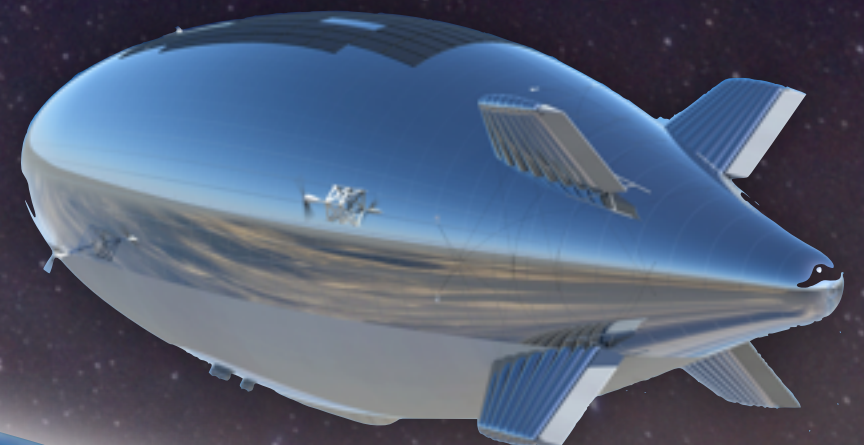
a New Horizon for Science



HiSentinel -
Southwest Research
Institute



LEM-V -
Northrop Grumman



ISIS - Lockheed Martin



**Aeroscraft
ML86X** -
Aeros

Blue Devil II



Titan Aerobot - JPL &
Near Space Corporation

AIRSHIP VEHICLE PLATFORMS



- mission longevity
- payload flexibility & ease of recovery
- manoeuvrability
- communications/data retrieval

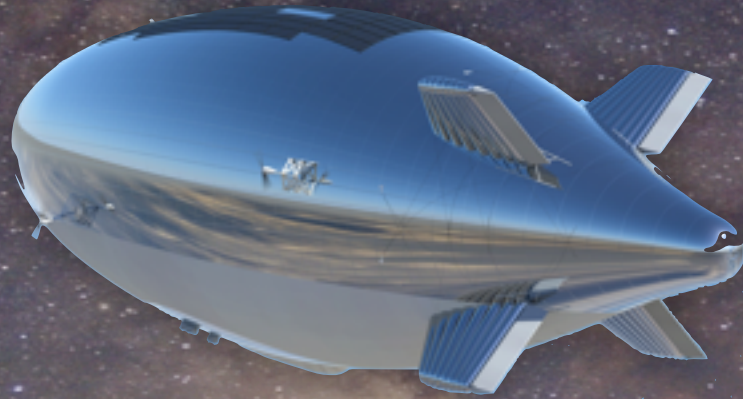
NORTHROP GRUMMAN



LOCKHEED MARTIN



Stratospheric



60,000 - 75,000 ft

Intermediate

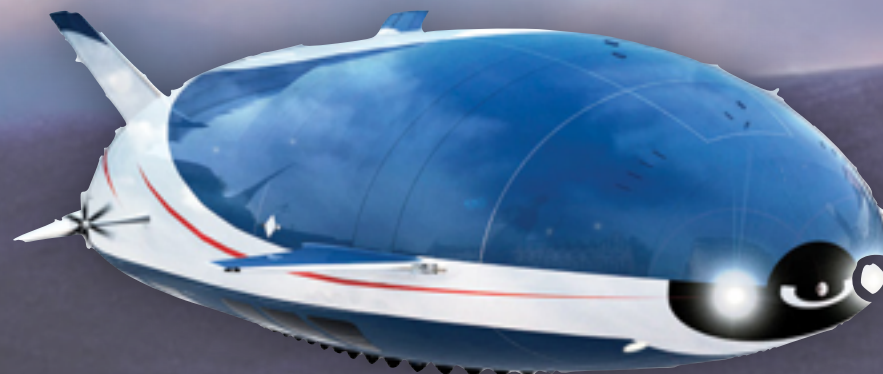


Hybrids



16,000 - 40,000 ft

Low Altitude
heavy cargo



< 12,500 ft

OPERATIONAL
ALTITUDE

COORDINATED AIRSHIP RESEARCH STATION

Multi-vantage Earth-sensing and Atmospheric Studies

Planetary Science from Earth and Beyond

Multi-wavelength Astrophysics and Cosmology

Transient
spectroscopic
follow-up

Persistent
stare on
arctic and
sub-arctic

Molecules
hidden
from
ALMA

Discover
THz
sky

Vertical
profiles
of the
carbon-cycle

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Study Co-Leads: Jason Rhodes (JPL), Lynne Hillenbrand (Caltech), Robert Fesen (Dartmouth), Sarah Miller (Caltech/UCR)

- Geoffrey Blake - Caltech
- Jeff Booth - JPL
- David Carlile - Lockheed Martin
- Frederick Edworthy - Aeros
- Brent Freeze - Sorlox Corp.
- Randall Friedl - JPL
- Paul Goldsmith - JPL
- Jeffery Hall - JPL
- Scott Hoffman - Northrop Grumman
- Scott Hovarter - Lockheed Martin

- Rebecca Jensen-Clem - Caltech
- Ross Jones - JPL
- Jens Kauffmann - Caltech
- Alina Kiessling - JPL
- Oliver King - Caltech
- Timothy Lachenmeier - Near Space Corporation
- Steven Lord - Caltech
- Jessica Neu - JPL
- Gregory Quetin - UofW
- Alan Ram - Northrop Grumman

- Stanley Sander - JPL
- Marc Simard - JPL
- Steve Smith - Southwest Research Institute
- Sara Susca - JPL
- Abigail Swann - UofW
- Eliot Young - Southwest Research Institute
- Thomas Zambrano - AeroVironment, Inc.



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