Eclipse Ballooning Project

Academic High Altitude Conference University of Minnesota Friday, October 27, 2017

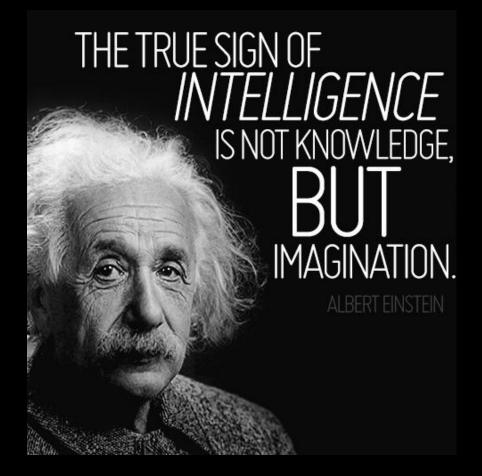
North Carolina Space Grant image

"Tell me and I'll forget, show me and I may not remember, involve me and I'll understand." - Native American proverb

Maine Space Grant

Primary Challenges

Technology Weight Cost Regulations Bureaucracy Massive collaboration Time Pressure



Primary Challenges

Technology Weight Cost Regulations Bureaucracy Massive collaboration Time Life and being human

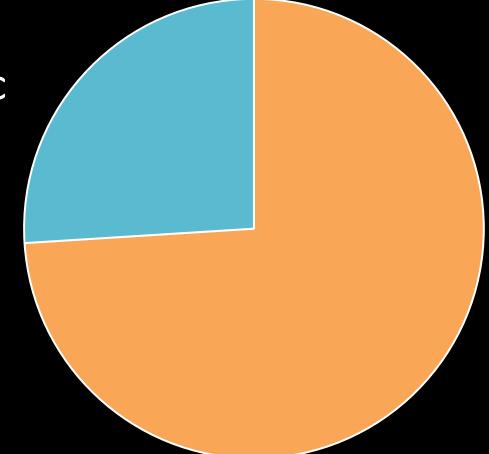


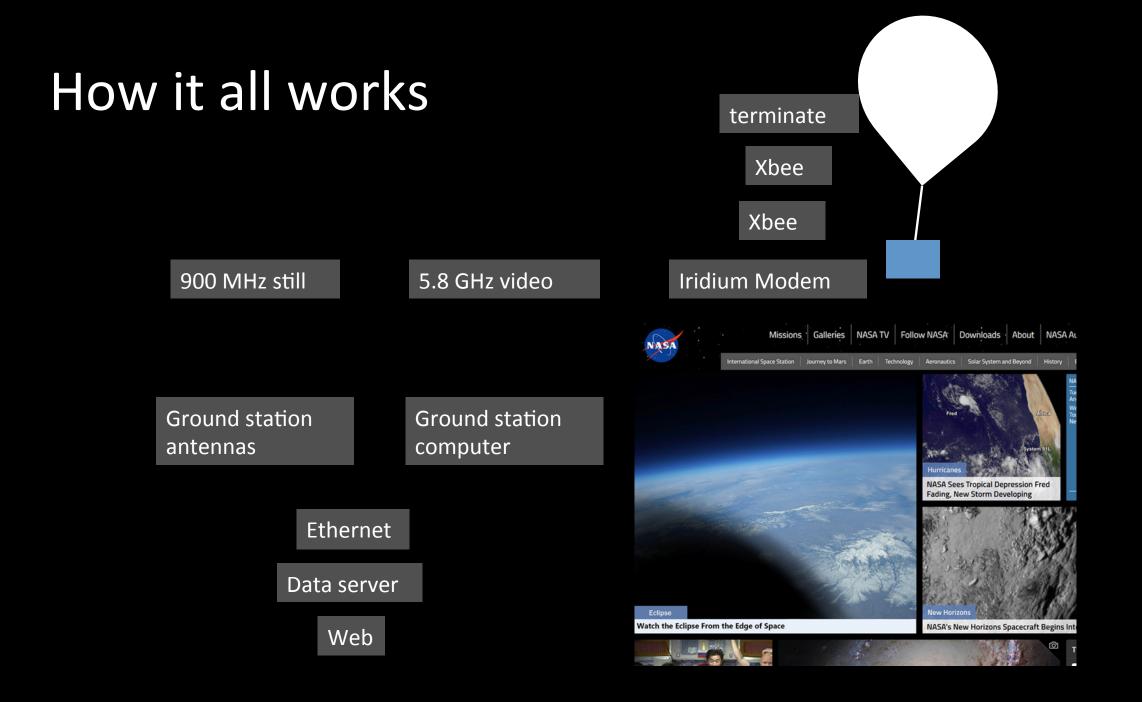
Perseverance

US General Public

Earth around Sun

Sun around Earth





Workshops and practice





NASA Eclipse Metrics Highlights: "A really big deal"

- NASA's biggest digital event ever measured, Seven times higher than the previous highest traffic event (New Horizons at Pluto)
- Audience comparable to Super Bowls
- Estimated TV content reach: more than 600 million.
- More than 60 million unique views of live streams
- NASA's most-watched and most-followed event on social media to date, with reach of more than 5 billion non-unique users



Eclipse Ballooning highlights: Public reach

- Featured as part of NASA's pre-eclipse and live coverage on TV and streaming platforms
- Included in TV programming such as the *Great American Eclipse* special on the Science Channel.
- Media coverage in over 50 national stories and over 50 local stories and counting, including several front-page stories



Eclipse Ballooning highlights: Partnerships

- Developed partnerships with companies such as Google Loon, World View, and Raven
- Deepened partnerships with NASA's Balloon Program Office and with FAA air traffic control



Oregon Space Grant

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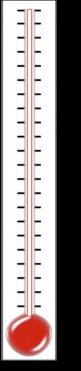
Eclipse Ballooning highlights: Students

Engaged hundreds college and high school teams from 32 states in a meaningful hands-on experience

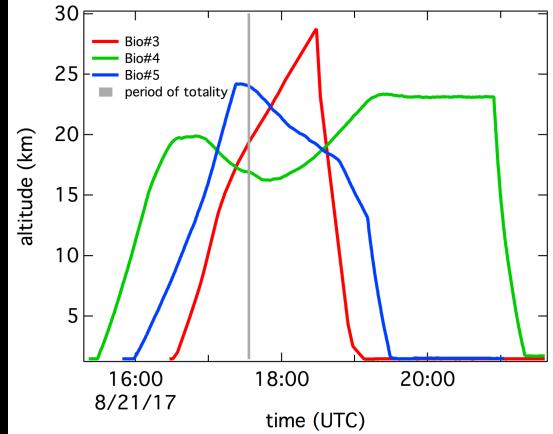




Eclipse Ballooning Science: Atmospheric Science What happens in the atmosphere as the eclipse shadow blasts across 3,000 miles in 90 minutes?







Eclipse Ballooning Science: Space Biology

Stratospheric conditions are analogous to the Martian surface, especially during an eclipse



Eclipse Ballooning highlights: The big day



Eclipse Ballooning highlights: Awesome footage!!

 Students Advisors Space Grants Leadership team Montana Space Grant students and staff



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What's next?

Presenting results Evaluation Lessons learned 2024

Montana Space Grant