



Eclipse Activity Report (EAR)

Nationwide Eclipse Ballooning Project

Issue #6
10/13/2016

<http://eclipse.montana.edu>

EAR Issue 6 Summary

This and all previous issues of EAR can be found at:
<http://eclipse.montana.edu/news/>

General Updates

Milestones and Schedule Moving Forward

Eclipse Ballooning Project Student Communications
Google Group

Stre.am Accounts

Internet access from Ground Station Location

Eclipse Ballooning Project T-Shirts – Who didn't receive
shirt at workshop?

Participant Google Map – Team information

Technical Activity

Check project Proboards forum for new discussions
and feedback

Team Activity

LSU visits NASA's "Eclipse Headquarters"

South Carolina Attempts Test Days Before Hurricane
Mathew Arrives

LBCC Space Exploration Team

Oregon Team to Launch from Research Vessel Off
Pacific Coast

New FAQs

Communication

Next Telecom 11/3/2016 at 11AM MDT. We will spend
about 20 minutes on updates then open the floor for
questions.

- Call toll free 855-797-9485
- Pass code 921-692-445# then # again

Action Items

- **Send Shane your team website or blog to be added to the eclipse ballooning page**
- **Invite students to join the Eclipse Ballooning Project Student Communications Google Group here:**
<https://groups.google.com/forum/?hl=en#!forum/sgebpsc>
- **Next Telecom 11/3/2016 at 11AM MDT!**

General Updates

Milestones and Schedule Moving Forward

A milestone schedule leading up to the June 20th, 2017 dry run will be released to teams soon. This guide will overview the important tasks and milestones each team should complete to ensure a successful dry run in June. The overview suggests a chronological order for which teams may want to proceed which is reflected within the milestones.

Eclipse Ballooning Project Student Communications Google Group

Below you will find the link to sign up for the Eclipse Ballooning Project Student Communications Google Group. **This is NOT a troubleshooting forum**, but a place for students to share and receive ideas for secondary payloads, expanding the common payload and much more. Please share this link with anyone who would like to participate in the discussion!

<https://groups.google.com/forum/?hl=en#!forum/sgebpsc>

Stre.am Accounts

Set up a Stre.am account for your team with the format: state_teamname_registration# at <https://stre.am/>

Please email Shane your account name so it can be added to the stre.am/eclipse admin access.

Internet access from Ground Station Location

It is becoming increasingly clear that it is more important to have a reliable internet connection than the perfect viewing location. With the large number of people conglomerating together, cell phone networks may be overwhelmed making Hot Spot internet access a concern.

A hardline/wifi internet connection with an upload speed of 2mbps is ideal in order to have a steady upload to the Stre.am site. It is therefore recommended that teams check internet availability for their ground station location.

Eclipse Ballooning Project T-Shirts

If anyone from you team attended the workshop and didn't receive a shirt, please contact Shane and one will be mailed. Unfortunately, we do not have extra shirts to sell to teams but feel free to use the eclipse logo to make your own. The logo can be found on the homepage of the project website.

Technical Activity

ProBoards

<http://eclipsedesign.proboards.com/>

We have recently added additional "wizards" from University of Colorado to monitor the forum and help respond to technical questions. Keep posting questions and any feedback you have to current posts.

GitHub

<https://github.com/MSU-BOREALIS>

Students – get involved in tinkering with the software!

Team Activity

LSU visits NASA's "Eclipse Headquarters"



The Louisiana State University team recently returned from their launch site prep excursion to Carbondale, IL. To better understand the dynamics of launching from a stadium, LSU's Doug Granger volunteered to do a test launch using small helium balloons. Doug will report back with details when he returns to Earth.



South Carolina Attempts Test Days Before Hurricane Mathew Arrives



Live streaming via Stre.am from a cell phone just off the coast of South Carolina, the SC team attempted a test launch before hurricane Mathew made its arrival. Choppy seas made for a scrubbed launch, but it was great to see Stre.am in action as well as the SC team!



LBCC Space Exploration Team

Linn-Benton Community College – “We're glad to report that our demo of our Eclipse Ballooning Mission video and still image downlinks went well today. We had a table in the college quad at the Welcome Day event for new students. Delphine, Levi, and I talked with many students and signed up quite a few for our Space Exploration Co-Curricular Program. We displayed not only our Eclipse Ballooning gear, but also our RockSat-C payloads from 2015 and 2016, with explanatory posters. We discussed our Team's plans for post-eclipse projects, including our CubeSat project.”

Oregon Team to Launch from Research Vessel Off Pacific Coast

Linn Benton Community College and Oregon State University recently secured the opportunity to launch their balloon from the Oregon State University research vessel. The Eclipse Ballooning Project will truly extend from sea to shining sea!

New FAQs

See answers at <http://eclipse.montana.edu/faq/>

- What software updates should May workshop teams be aware of?
- How does a student join the Eclipse Ballooning Project Student Communications Google Group?
- How do I use the supplied balloon filling equipment and how much helium should I use?
- Iridium Remote Configuration Application Development Tool

Communication

- Points of Contact for eclipse path state hosts can be found from the FAQ page.
- The next group **telecom** will be Thursday November 3rd at 11 AM Mountain daylight time. At the telecons, we will spend about 20 minutes on updates then open the floor for questions.
 - Call toll free 855-797-9485
 - Pass code 921-692-445# then # again
- We're putting together a **social media** team. Anyone interested in helping, please contact Shane or Angela.
- Facebook page:
<https://www.facebook.com/EclipseHighAltitudeBallooning/>
- Twitter:
https://twitter.com/Eclipse_HAB

Action items

- Send Shane your team website or blog to be added to the eclipse ballooning page
- Invite students to join the Eclipse Ballooning Project Student Communications Google Group here:
<https://groups.google.com/forum/?hl=en#!forum/sgebpsc>
- Telecom 11/3/16, 11 AM Mountain Daylight Time