



MARYLAND SPACE GRANT NEARSPACE PROGRAM

NS-60: ENAE100 Student's Launch!

After working hard for several months, the ENAE100 (Introduction to Aerospace Engineering) students are ready to fly their payloads on NS-60!

Apologies for the late announcement, but NS-60 is this Sunday, November 13, 2016!

Join Us! Balloon Launch Details

When:

Sunday, November 13, 2016

Where:

Clear Springs Park
(39.654029,-77.9354717)

[Google Maps](#)

Schedule

If you plan on joining us, please dress warmly! We suggest wearing long pants and good hiking shoes in case we need to hike through the woods to recover the payloads.

The tentative schedule is as follows:

4:30 AM - The Nearspace team ballooneers meet in the SSL parking lot.

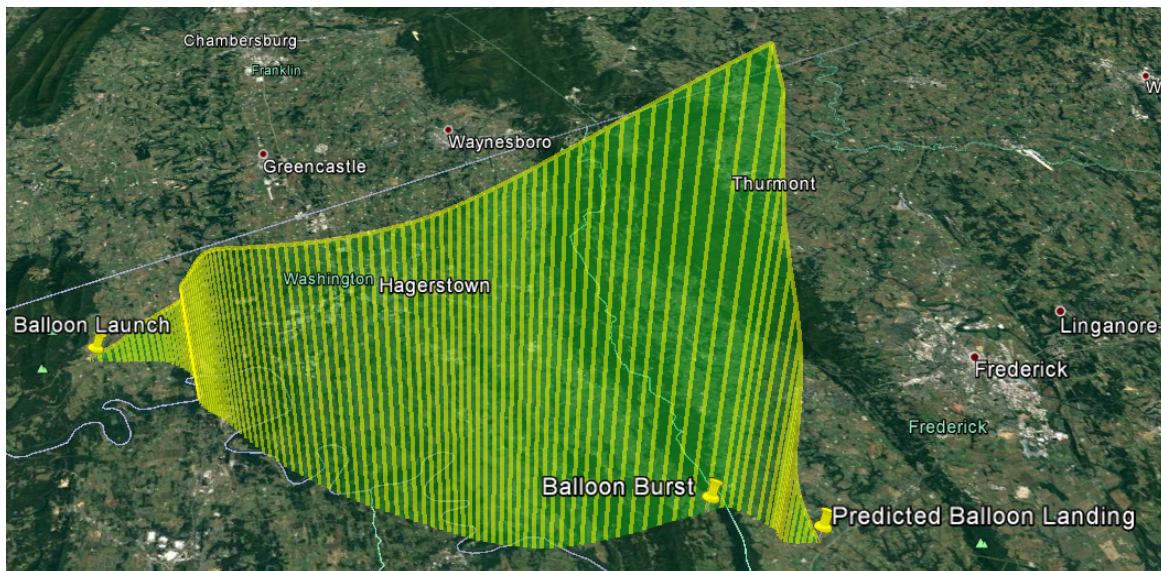
5:00 AM - Departure from the SSL parking lot.

6:15 AM - Projected arrival at the **Clear Springs McDonalds** (12828 Clear Spring Rd, Clear Spring, MD 21722)

7:00 AM - Arrival at the **Clear Spring Park** launch site

8:30 AM - Launch!

Predicted Ground Track



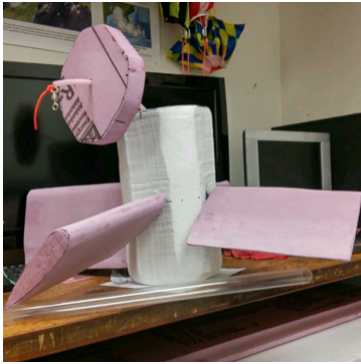
The flight is projected to take approximately an hour and a half with a projected landing site near Frederick, MD.

Payload Lineup

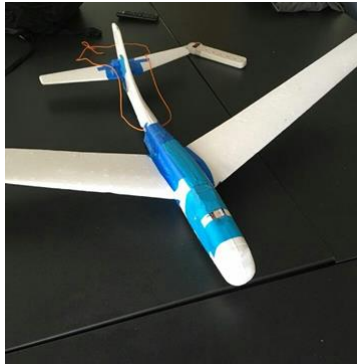
The payload lineup is as follows (subject to change):

- **Aerodynamic Stabilization (AeroStab):** A system that is attempting to stabilize the balloon as it is rising using actively controlled fins.
- **High Earth Acoustic Reader, Speed of Sound (HEARSOS):** A payload measuring the changing speed of sound as the temperature and pressure changes.
- **Decent Rate of Payloads (DROP):** A payload measuring ascent and descent velocity of the balloon.
- **Mechanically Actuated Release System (MARS):** A mechanical cut down system that works using a linear actuator. The payload string will contain two MARS units on this flight.

- **Controlled Descent (FLI):** A parafoil-based controlled descent system.
- **Guided Landing Involving Directional Rotation (GLIDR):** A payload that will be cut down at 1000 feet while measuring pressure, temperature, time, GPS location, and mission time.
- **Project HERMES:** A CapTech payload.
- **Tyrion:** The weather payload.



AeroStab payload



GLIDR payload



DROP payload

Questions?

Contact Dr. Mary Bowden

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Live Updates

You can follow our live tweetup of the launch day [here](#).

You can also track us on the [APRS website](#) using UMD's callsign: **W3EAX-8**.

*The NearSpace High Altitude Balloon Team thanks the **Maryland Space Grant** for its continued support and effort to make our program possible.*

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