NOTAM and Flight Analysis for Saturday, June 13, 2015
Weber State University HARBOR Balloon Flight HAR150613
Flight Simulations Current as of 08:30 MDT (GMT-0600) Friday June 12, 2015

1. For: High altitude sounding balloon – High Altitude Balloon
2. Balloon Flight Track Monitoring via Internet:
    Follow the main page link at: http://harbor.weber.edu
3. Launch Time: 09:00 - 14:00 MDT (15:00 - 20:00 Z)
4. Launching from: Duchesne Airport, UT, U69
5. Cruising Altitude: 100,000 feet
6. Time to reach 60,000 feet MSL: 55 minutes after launch.
7. Balloon Diameter: 5.5 feet
    1. Length of suspension lines: 30 ft, total length: 50 ft
    2. Payload weight: 10 lbs (3 modules < 3.5 lbs)
    3. Helium fill, 3000-3500 PSI, 300 cubic feet
    4. No trailing antenna
8. Flight Duration: ~100 minutes
9. Estimated time of impact: 11:00 - 16:00 MDT (17:00 - 22:00 Z)
10. Estimated location of impact: Within 5 miles of U69
    1. Location from Myton VOR: r282/12nm
11. Predicted direction of flight: 137 degrees = SE
12. Predicted distance to be traveled: 3 statute miles
13. My information - name: John SOHL
14. My information - Institution: Weber State University
15. My information - Cell phone number: 801-476-0589
16. Current Flight Status - http://harbor.weber.edu

Details emailed to: Harris Hartzell (Harold.CTR.Hartzell@faa.gov)
and Adam Vetter (adam.vetter@faa.gov) and others
Contact during flight: FAA Mission Control 801-320-2567

I have submitted a NOTAM for Saturday, NOTAM operator initials = HF:

U69   DUCHESNE MUNI

!CDC **06/063** U69 AIRSPACE HIGH ALT BALLOON WITHIN AN AREA DEFINED AS 5NM RADIUS OF U69 SFC-FL600 SOUTHEASTBOUND 1506131500-1506132200

Below are two different methods of predicting the flight. The flight tracks vary based on the forecasting methods. The flight predictor software packages are using two different NOAA winds aloft models.

Weber State University, Physics Department Prediction Software:
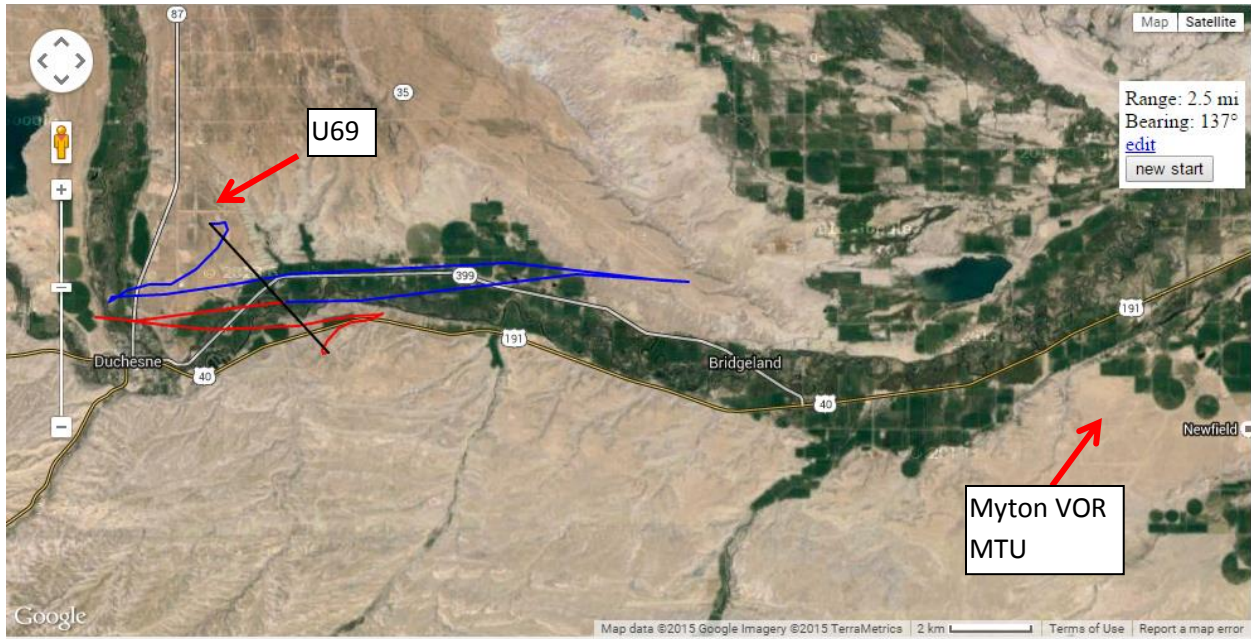
UK High Altitude Society (Cambridge, England) Flight Predictor:
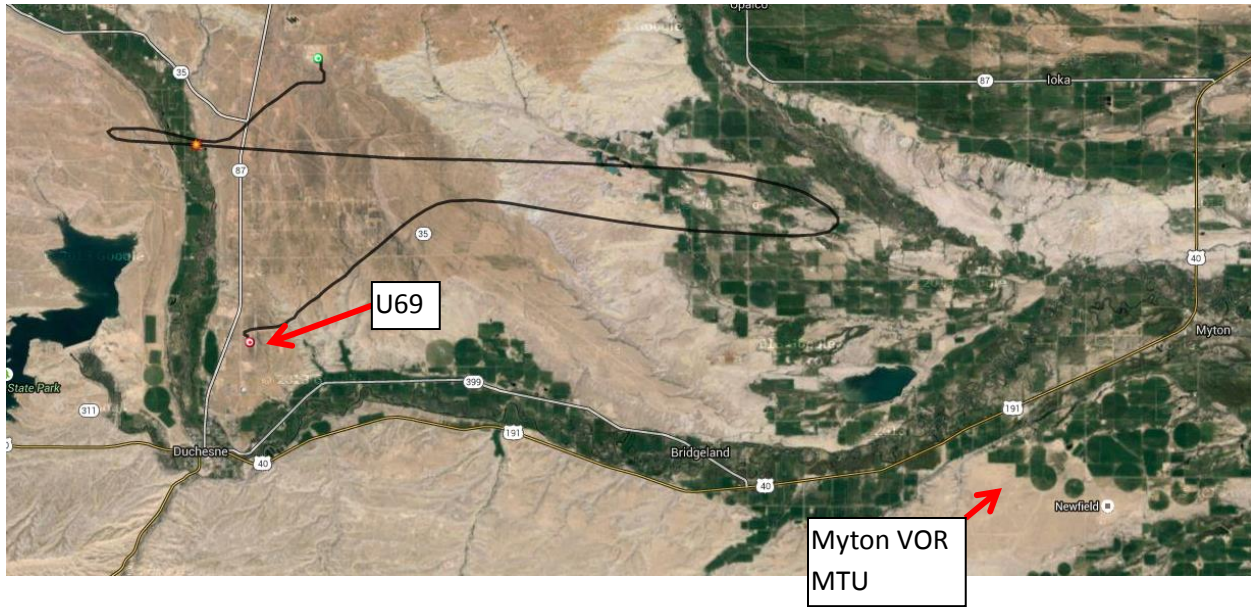
Notice that this flight prediction is significantly different. We have found that the WSU predictor tends to be more accurate when there is disagreement between the two.