

NOTAM and Flight Analysis for Sunday, May 31, 2015

Weber State University HARBOR Balloon Flight HAR150531

Flight Simulations Current as of 14:00 MDT (GMT-0600) Friday May 29, 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: 10:00 - 14:00 MDT (16:00 - 20:00 Z)
4. Launching from: Talmage, UT (9.9 nautical miles at bearing 357 from U69)
Location from Myton VOR: r315/18nm
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: 12:00 - 16:00 MDT (18:00 - 22:00 Z)
10. Estimated location of impact: Half way between Myton, UT and Ouray, UT (the Green River).
 1. Location from Myton VOR: r95/14nm
11. Predicted direction of flight: 115 degrees = ESE
12. Predicted distance to be traveled: 32 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>

NOTAM (877) 487-6867

Salt Lake FAA Center 801-320-2565/2562

Details emailed to: Harris Hartzell (Harold.CTR.Hartzell@faa.gov)

and Adam Vetter (adam.vetter@faa.gov), Marnie Escandon (marnie.escandon@faa.gov)

Contact during flight: FAA Mission Control 801-320-2562, Area B.

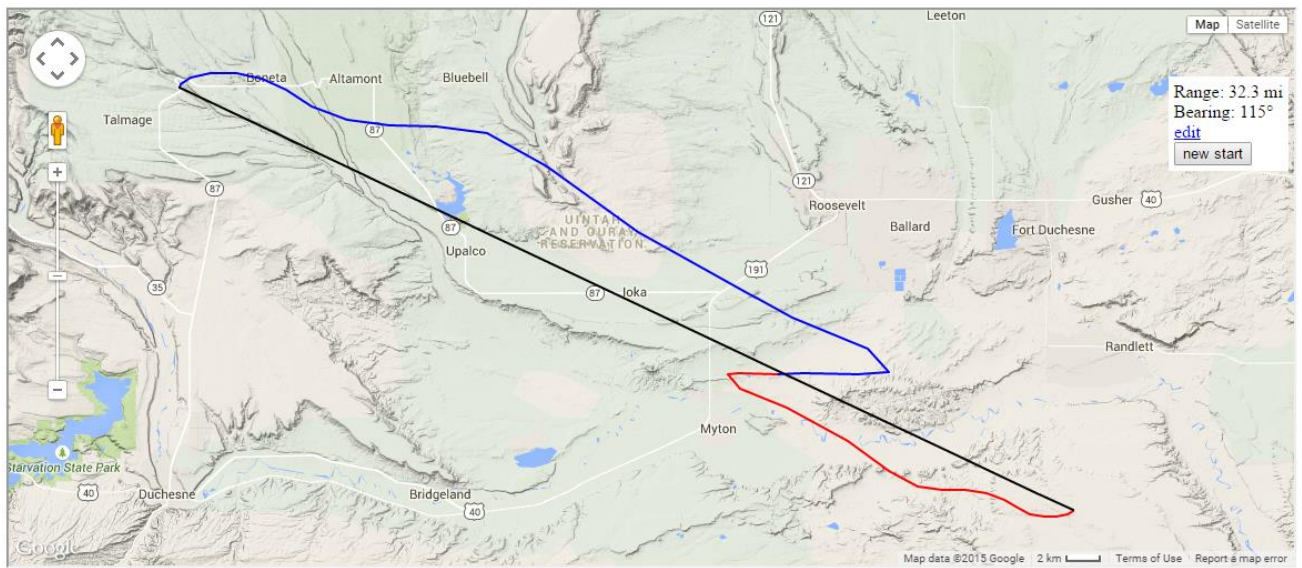
I have submitted a NOTAM for Sunday:

MTU MYTON

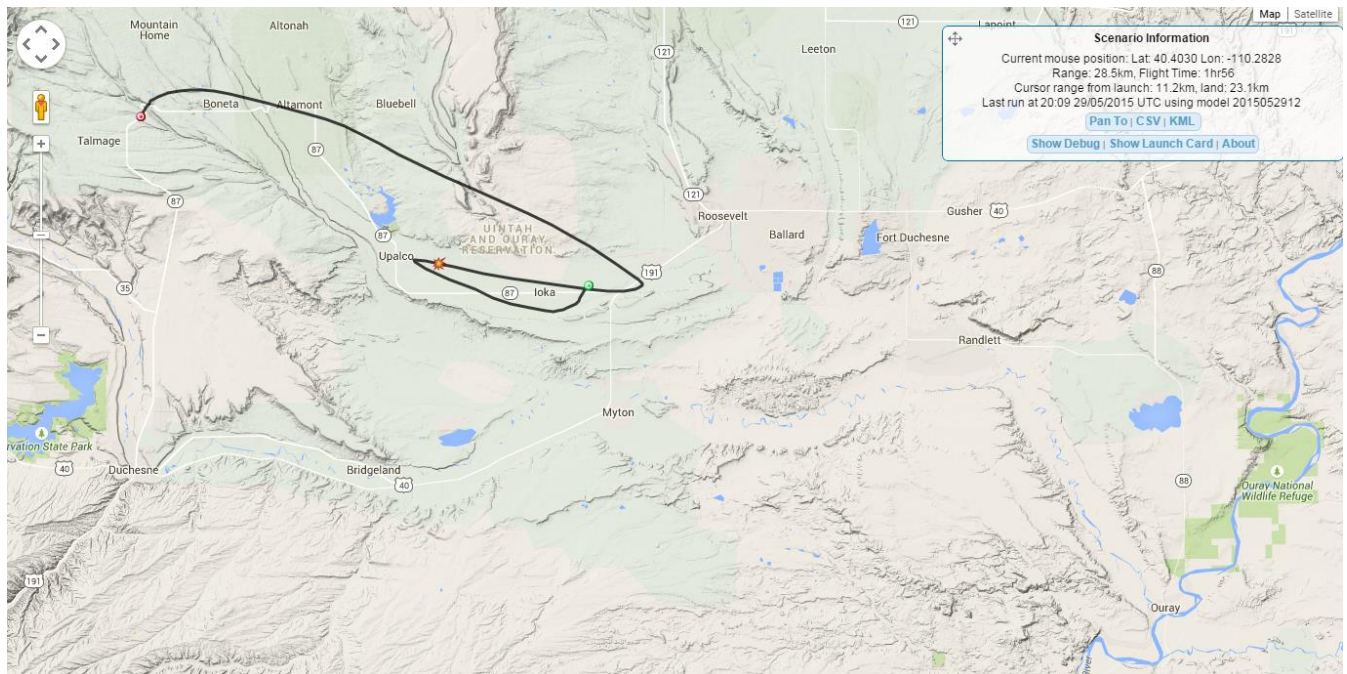
!CDC 05/126 MTU AIRSPACE HIGH ALT BALLOON MTU315018 (10NM N U69) SFC-FL600
SOUTHEASTBOUND 1505311600-1505312200

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:



Red dot is the launch point; the sunburst is the predicted burst location at altitude. The green dot is the predicted landing.

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.