Payload Mass: 3,570 g

Payload Weight: 7.87 lb

Total Mass: 4,697 g

Total Weight: 10.36 lb

Balloon: 3000 grams, Balloon Date: Aug 2012

Helium

Fill Ballast Weight: 15.5 lb

Tank #1 Starting Pressure: 2450 psi; Ending Pressure: 0 psi

Line Length: 300 cm

Tank #2 Starting Pressure: 2550 psi; Ending Pressure: 2150 psi

Mass: 131 grams

Total “psi used” 2850 The leak in the gas line has been fixed.

Line Length: 430 cm

Cut Down System. Design/Type = Davis/Page

Parachute Description: Orange

Mass: 996 grams

Line Length: 133 cm

Payload #1 Description: Wood flight frame w/ 3 cameras

Mass 1: 1031 grams

1

Cam

ELPH100, SD780, Hero 3 Sliver

iButton

Line Length: 130 cm

Payload #2 Description:

2

MSA

Mass 2: 654 grams

MSA version 4

Line Length: 153 cm

Payload #3 Description:

Mass 3: 255 grams

3

SEM

Sample exposure mission test of battery in foam housing.

No “live load.” The Battery cover made a big difference.

Line Length: 233 cm

Payload #4 Description:

Mass 4: 900 grams

4

O3

Ozonesonde/radiosonde

Tracking antenna was located in the campground the whole week.

Line Length: 205 cm

The antenna worked great once the package was high enough.

5

Payload #5 Description:

Mass 5: grams

Line Length: cm

Flying the two SBATS that went into the water.

SBATS call signs WB1SAR and KF7WII ; mass = 730 g

Aqua

Mass: 730 grams

Launch Site Location: Duchesne Airport U69, Rydman Flight Ctr. , North: West:

Arrival Time at Launch Site: 9:30a MDT = 15:30 Z

Launch site wind speed and direction: 0-3 MPH with gusts to 5-7 MPH

Cloud cover and type: 100% blue sky

Fill start time: 10:43 Fill stop time:

Cut Down Flight Pin Pulled Time (start of timer) = 10:58:00 MDT

Cut Down Duration: 2.5 hr Estimated Cut Down Time: 13:28 MDT

Launch Time: 11:02:06 MDT = 17:02:06 Z

Burst Altitude: 106,835 ft = 32,563.4 m

Burst Time: 1:08:02p MDT = 19:08:36 Z

Landing Time: 1:59:40p MDT = 19:59:40 Z

Landing Location: North of Starvation Res. , North: 40° 15’ 1.9” West: -110° 29’ 58”

Notes:

This was a record HARBOR altitude for this much mass. The balloon assent started to slow down dramatically for the last few minutes before burst. Finally, for the 34 seconds before burst it went neutrally buoyant at 106,794 ft rising at only a foot a second.

Took 51 minutes to get from burst to ground.