

HARBOR Flight Summary Data Sheet, Flight Designation (HARyymmdd): HAR140808

Balloon: 3000 grams, Balloon Date: July 2013

Fill Ballast Weight: 15.8 lb

Tank #1 Starting Pressure: 2300 psi; Ending Pressure: 50 psi

Tank #2 Starting Pressure: 2450 psi; Ending Pressure: 800 psi

Total "psi used" 3900 There was probably a leak in the line.

Cut Down System. Design/Type = Davis/Page

Parachute Description: Orange

Payload #1 Description: Wood flight frame with 3 cameras
ELPH100, SD780 (black), GoPro Hero 3 Silver
no iButton

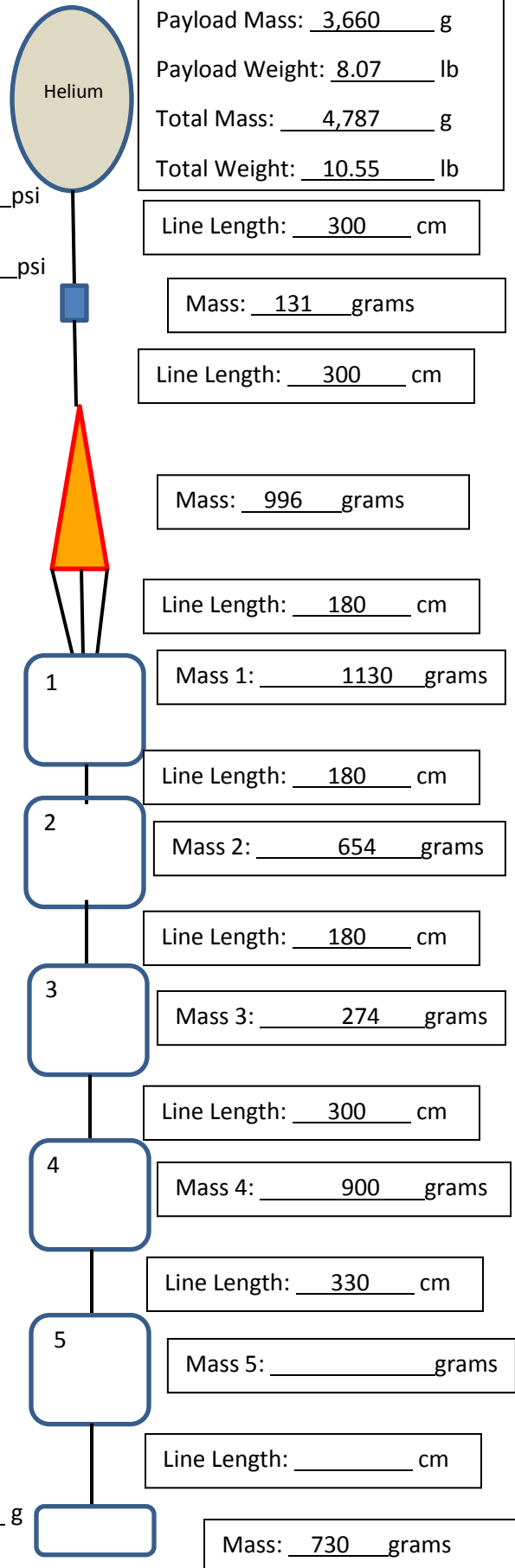
Payload #2 Description:
MSA 4 with new GPS, no MSA 3

Payload #3 Description:
Sample Exposure Mission (bug mobile)

Payload #4 Description:
Ozonesonde/radiosonde

Payload #5 Description:

SBATS call signs WB1SAR and KF7WII ; mass = 730 g



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Launch Site Location: Duchesne Airport, Rydman Flight Center , North: _____ West: _____

Arrival Time at Launch Site: 8:45a

Launch site wind speed and direction: 3-5 MPH, gusting to 10 MPH mostly from the WSW

Cloud cover and type: 90% clear with a few high thin clouds

Fill start time: 9:55 Fill stop time: 10:11

Cut Down Flight Pin Pulled Time (start of timer) = 10:15:00 MDT

Cut Down Duration: 2.5 hr Estimated Cut Down Time: 12:45 MDT

Launch Time: 10:16:15 MDT = 16:16:15 Z

Burst Altitude: 88,767 ft = 27,056.3 m

Burst Time: 11:12:51 MDT = 17:12:51 Z

Landing Time: 12:04:56 MDT = 18:04:56 Z

Landing Location: West of Roosevelt, UT , North: 40° 20' 65.6" West: -110° 3' 9"

Notes:

Two gloves got taped into the balloon nozzle.

The ozonesonde and MSA got plugged in at 9:44 MDT but delays mostly with fill and SBATS caused some problems.

Camera analysis hints at turbulence at about 10:42 MDT. Need to look at the associated MSA data.

It took 52 minutes to go from burst to ground. This is an average 1700 ft/min.

We flew SBATs with low altitude GPS units. We lost contact 6 minutes before burst then gained contact back again once the SBATS dropped below 50kft. Contact was lost at 78,000 ft at 11:05.