

HARBOR Flight Summary Data Sheet, Flight Designation (HARyymmdd): HAR 150530

Guest mission: USU and Adele C. Young Intermediate School

Balloon: _____ grams, Balloon Date: _____

Fill Ballast Weight: 18.0 lbs

Tank #1 Starting Pressure: _____ psi; Ending Pressure: _____ psi

Tank #2 Starting Pressure: _____ psi; Ending Pressure: _____ psi

Total "psi used" _____

Cut Down System. Design/Type = Davis/Page

Parachute Description: Large Orange/white

Total payload mass = 5531g = 12.2 pounds

Payload #1 Description:

RATS tracking using the original high altitude round GPS units
Tracking with new D710G

Payload #2 Description:

Adele C. Young Intermediate School (6th, 7th grades)
Water bears, marshmallows, RPi with camera, Cpt. America
All in one single package.

Payload #3 Description:

Ozonesonde/Radiosonde

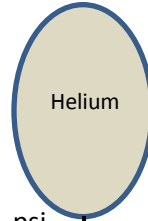
Payload #4 Description:

MSA version 4 bare (no AtmoSniffer)

Payload #5 Description:

Flight frame with 3 cameras (1085g, 271g for only the frame)
USU Payload box minus the boom itself = 816.5g
Boom assembly = 200-400 gram (estimate)

SBATS call signs _____ and _____ ; mass = _____



Payload Mass: _____ g
 Payload Weight: _____ lb
 Total Mass: _____ g
 Total Weight: _____ lb

Line Length: _____ cm

Mass: _____ grams

Line Length: _____ cm

Mass: _____ grams

Line Length: _____ cm

Mass 1: 908.8 _____ grams

Line Length: _____ cm

Mass 2: _____ 980.4 _____ grams

Line Length: _____ cm

Mass 3: _____ 841 _____ grams

Line Length: _____ cm

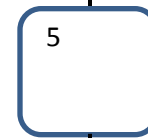
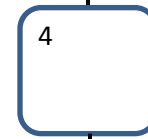
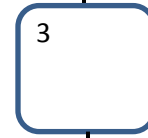
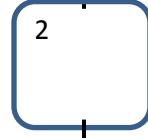
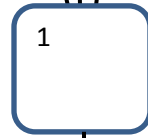
Mass 4: _____ 497.5 _____ grams

Line Length: _____ cm

Mass 5: _____ 2302 _____ grams

Line Length: _____ cm

Mass: _____ grams



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Launch Site Location: _____, North: _____ West: _____

Arrival Time at Launch Site: _____

Launch site wind speed and direction:

Cloud cover and type:

Fill start time: _____ Fill stop time: _____

Cut Down Flight Pin Pulled Time (start of timer) = _____

Cut Down Duration: _____ Estimated Cut Down Time: _____

Launch Time: _____

Burst Altitude: _____ ft = _____ m

Burst Time: _____

Landing Time: _____

Landing Location: _____, North: _____ West: _____

Notes:

The primary flight package is the USU Cube Sat Boom test.

This is being connected to the MSA with a signal line that will go high (3.3V) when reaching a predetermined altitude defined by the USU team. This will be a combination of GPS altitude and pressure readings. After multiple readings in agreement the system will fire.

The secondary flight package is the Adele C. Young Intermediate School payload.

The tertiary flight package is the ozonesonde.