Guest mission: USU and Adele C. Young Intermediate School

Payload Mass: 5531 g

Payload Weight: 12.2 lb

Total Mass: g

Total Weight: lb

Balloon: grams, Balloon Date:

Helium

Fill Ballast Weight: 18.0 lbs

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

Line Length: cm

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

Mass: grams

Total “psi used”

Line Length: cm

Cut Down System. Design/Type = Davis/Page

Parachute Description: Large Orange/white

Mass: grams

**Total payload mass = 5531g = 12.2 pounds**

Line Length: cm

Payload #1 Description:

Mass 1: 908.8 grams

1

RATS tracking using the original high altitude round GPS units

Tracking with new D710G

Line Length: cm

Payload #2 Description:

2

Adele C. Young Intermediate School (6th, 7th grades)

Mass 2: 980.4 grams

Water bears, marshmallows, RPi with camera, Cpt. America

All in one single package.

Line Length: cm

Payload #3 Description:

Mass 3: 841 grams

3

Ozonesonde/Radiosonde

Line Length: cm

Payload #4 Description:

Mass 4: 497.5 grams

4

MSA version 4 bare (no AtmoSniffer)

Line Length: cm

5

Payload #5 Description:

Mass 5: 2302 grams

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)

Line Length: cm

SBATS call signs \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ ; mass = \_\_\_\_\_\_\_

Mass: grams

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.