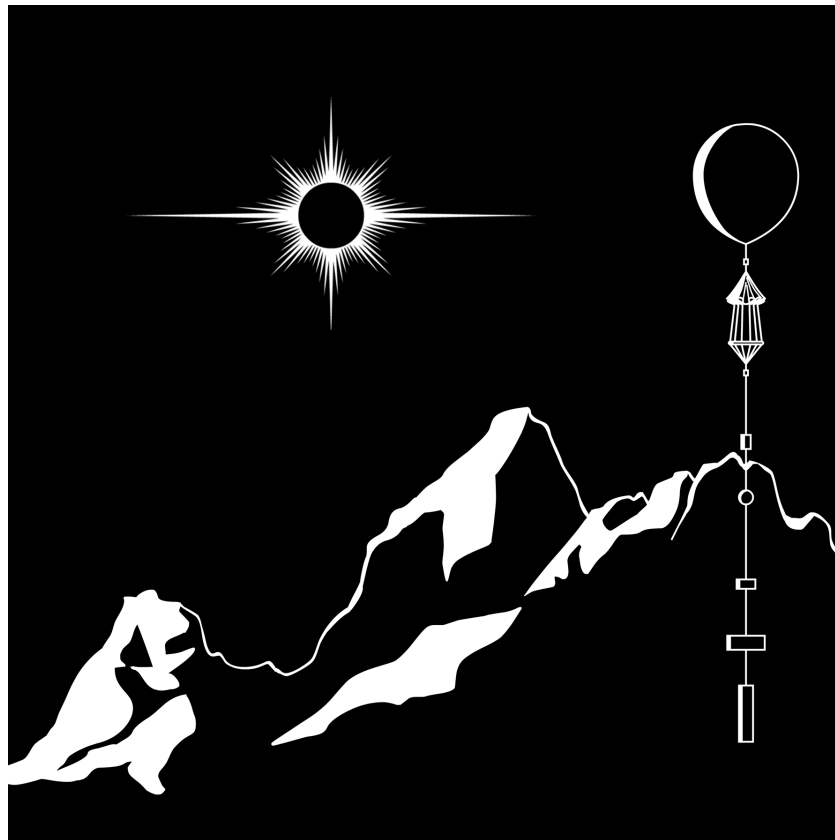




BYU-I
High Altitude Research Team
Flight Book
Flight date:



BYU-I flight Manifest

Flight Overview

Flight Date: _____ Anticipated Launch time: _____ Anticipated Land time: _____

Launch Coordnets
Lat: _____, Long: _____

NOTAM Number: _____

Payload Order

Baloon:

Year: _____

Cutdown:

mass: _____g

Parachute:

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Payload: _____

mass: _____g

Reflector:

mass: _____g

Total Mass: _____

Mass in Lbs: _____

Flight Information

Team Lead: _____, Assistant: _____

Payload Lead: _____, Assistant: _____

Fill Lead: _____, Assistant: _____

Safty Lead: _____, Assistant: _____

Tracking Lead: _____, Assistant: _____

Communication Lead: _____, Assistant: _____

Notes:

HART Pre-flight Equipment checklist

Make sure this list is gone through at least twice before launch

Balloon:

- ☐ Box of correctly sized balloons
- ☐ PVC fill necks
- ☐ Gloves for balloon worshipers
- ☐ Tarp
- ☐ Sheets
- ☐ Duck tape
- ☐ Parachute and wooden ring
- ☐ Working Luggage scale
- ☐ Ballast bags with water bottles in them
- ☐ Scales for weighing ballast

Payload lead initials: _____

Fill lead initials: _____

HART Pre-flight Equipment checklist

Make sure this list is gone through at least twice before launch

Payloads:

- ☐ Cutdown
- ☐ Backup cutdown
- ☐ Batteries for both cutdowns
- ☐ Cutdown rope
- ☐ Painters tape
- ☐ Quick links
- ☐ Green linking rope
- ☐ Payload tie up rope
- ☐ Good Batteries for each payload
- ☐ Spare batteries
- ☐ Nylon tape
- ☐ Box of pliers and tools
- ☐ Scissors
- ☐ Utility knife
- ☐ Foam boxes for all payloads
- ☐ Green lidded tub
- ☐ Camera
- ☐ Camera batteries
- ☐ Camera payload box
- ☐ Reflector

Payload lead initials: _____

Team lead initials: _____

HART Pre-flight Equipment checklist

Make sure this list is gone though at least twice before launch

Tracking:

- ☐ HART team radios
- ☐ MT-1000 trackers
- ☐ Confirm MT-1000 trackers work
- ☐ Foam boxes for MT-1000 trackers
- ☐ Antennas for MT-1000 trackers
- ☐ Good batteries for MT-1000
- ☐ Spot trace GPS tracker
- ☐ Batteries for Spot trace
- ☐ Fox hunt beacon
- ☐ Foam box for Fox Hunt
- ☐ Low jacks
- ☐ Batteries for Low jacks
- ☐ Receiving equipment for low jacks
- ☐ Kenwood car radio
- ☐ Magnetic antenna mounts for cars

Payload lead initials: _____

Tracking lead initials: _____

Gas:

- ☐ 2 full gas tanks (hydrogen or helium)
- ☐ Gas level check
- ☐ Tanks labeled with date and gas level after check
- ☐ Green Fill hose
- ☐ Flammable and nonflammable tank Regulators
- ☐ Regulator wrench
- ☐ Gloves for operator
- ☐ Inspection of fill hose for leaks and defects

Payload lead initials: _____

Gas lead initials: _____

HART Post-flight Equipment checklist

Go through this list upon return from retrieval as you return equipment

Balloon:

- ☐ Box of correctly sized balloons
- ☐ PVC fill necks
- ☐ Gloves for balloon worshipers
- ☐ Tarp
- ☐ Sheets
- ☐ Duck tape
- ☐ Parachute and wooden ring
- ☐ Working Luggage scale
- ☐ Ballast bags with water bottles in them
- ☐ Scales for weighing ballast
- ☐ Popped balloon in bag if recovered

Payload lead initials: _____

Fill lead initials: _____

HART Post-flight Equipment checklist

Go through this list upon return from retrieval as you return equipment

Payloads:

- ☐ Cutdown
- ☐ Backup cutdown
- ☐ Batteries for both cutdowns
- ☐ Cutdown rope
- ☐ Painters tape
- ☐ Quick links
- ☐ Green linking rope
- ☐ Payload tie up rope
- ☐ Good Batteries for each payload
- ☐ Spare batteries
- ☐ Nylon tape
- ☐ Box of pliers and tools
- ☐ Scissors
- ☐ Utility knife
- ☐ Foam boxes for all payloads
- ☐ Green lidded tub
- ☐ Camera
- ☐ Camera batteries
- ☐ Camera payload box
- ☐ Reflector
- ☐ All data collected from sensors
- ☐ All batteries checked

Payload lead initials: _____

Team lead initials: _____

HART Post-flight Equipment checklist

Go through this list upon return from retrieval as you return equipment

Tracking:

- ☐ HART team radios
- ☐ MT-1000 trackers
- ☐ Confirm MT-1000 trackers work
- ☐ Foam boxes for MT-1000 trackers
- ☐ Antennas for MT-1000 trackers
- ☐ Good batteries for MT-1000
- ☐ Spot trace GPS tracker
- ☐ Batteries for Spot trace
- ☐ Fox hunt beacon
- ☐ Foam box for Fox Hunt
- ☐ Low jacks
- ☐ Batteries for Low jacks
- ☐ Receiving equipment for low jacks
- ☐ Kenwood car radio
- ☐ Magnetic antenna mounts for cars
- ☐ All tracking equipment turned off

Payload lead initials: _____

Tracking lead initials: _____

Gas:

- ☐ All gas tanks taken
- ☐ Gas level check
- ☐ Tanks labeled with date and gas level after check
- ☐ Green Fill hose
- ☐ Flammable and nonflammable tank Regulators
- ☐ Regulator wrench
- ☐ Gloves for operator
- ☐ Inspection of fill hose for leaks and defects

Payload lead initials: _____

Gas lead initials: _____

HART Post-flight Equipment checklist

Go through this list upon return from retrieval as you return equipment

Missing or damaged equipment:

Equipment state:

☐ Damaged

☐ Lost

Equipment name: _____

Report and explanation:

Equipment state:

☐ Damaged

☐ Lost

Equipment name: _____

Report and explanation:

Equipment state:

☐ Damaged

☐ Lost

Equipment name: _____

Report and explanation:

BYU-I HART flight report

Actual Launch time: _____, Difference from anticipated: _____

Actual Land time: _____, Difference from anticipated: _____

Landing coordinates:

Lat: _____, Long: _____

Balloon landing location relative to predicted landing:

<input type="checkbox"/> Short	<input type="checkbox"/> Within 1 mile	<input type="checkbox"/> Long
--------------------------------	--	-------------------------------

Distance from predicted landing location:_____

Accent rate:_____m/s **Decent rate:**_____m/s

What went well:

[illegible]

What did not go well:

--	--

BYU-I HART flight report

What changes or improvements should be made if any:

Other notes:

Report Filled out by:

Date:

Signature: