Flight Director Checklist

NS-<u>59</u>

	Launch Location = Tweeth Area Househeol
	Launch Date = 00+ 29, 206
	Attempt Number =
Payloads:	
	Tyrion
	Camera payload
	Lawrence's pay load

Comments:

96,700 ft - Rich 86,500 - Campon

One Month in Advance: Vehicle Rental (check that outlets work) Helium Ordered HAM Radio Club notified about using UMD's call sign				
Launch Week				
Pre-Flight Planning Checklist ✓ Send the launch announcement email ✓ Create Zello station ✓ Print waivers ✓ Preliminary weather check ✓ Preliminary ground track check ✓ Payloads determined and ordered ✓ Vehicles identified and configured for tracking				
Pre-Flight Systems Checklist BLT Bucket (check Inventory) Inflation Bucket (check Inventory) Recovery Bucket (check Inventory) Launch Kit (check Inventory) Balloons (2) Size of 1 3000 g Size of 2 3000 g Batteries (check if charged) Bow Saw Clean Up Bucket (Broom, Dust Pan, Garbage) Extension Pole Functioning Radios and GPS Helium Machete Parachute and Ring + Assembled Command Module kit Payloads Phone Chargers Power Inverter Scythe Soldering Iron & wire V Sling Shot				
Spare LVCs Radios/GPS Tarp (Big and Small)				

Tracking Antennas Tree Climbing Gear Van Keys Walkie-Talkies Wi-Fi hotspot 900s Ground station Tie in complete					
FAA Notification Checklist					
File NOTAM (6 hours prior) Call NOTAM desk (866-225-7410 ext 9) to get NOTAM number: NOTAM # Call Washington Center (2 hours prior): 703-771-3470					
Call HGR Tower 301-797-2039 at 7am					
Radios + Callsigns Checklist Command Module: W3FAX -8, い3EAメール					
Main tracking van:					
Main tracking van:Second tracking van:					
Main tracking van:Second tracking van:Specific payloads:					
Main tracking van: Second tracking van: Specific payloads: Others:					
Main tracking van: Second tracking van: Specific payloads: Others: PRE-LAUNCH MEETING / PRE-LAUNCH DAY Launch Confirmation/Postponement Email Pre-Launch Meeting • Everyone should have signed a waiver: new ones collected, sign-In					

- Chase Vehicles will need to leave semi-immediately be ready to leave within 5-10 minutes of launch
- Everyone helps clean up, so we can get out efficiently

Fin	al Checks
\vee	Waiver Check
\checkmark	Weather Check
1/	Ground Track Check
V	Zello Check

Launch Day

On launch pad
Parachute to Balloon lanyard configured
Parachute and Ring assembled
Command Module in place
Payload string lined up and assembled
Harmless payload stickers on each payload
Payload string weighed: Necessary Free Lift = 11.45
No sharp edges or weak links
Pre-Inflation Checklist
Helium Tanks uncovered and regulator hooked up
Hook lanyard from parachute around balloon neck before
connecting to inflation tube!
Instructions and Gloves to BLT anchors
Instructions given to tether handlers & tether in place
Full payload string laid out and ready to go
Balloon in BLT ready to go
Inflation
BLT Instructions: (Always use BLT!!!)
Lay out BLT with inside facing up (Velcro side down). Immediately fold
together to prevent moisture from getting inside the BLT.
When ready for inflation, Place balloon in the center with the neck
facing one open end.
Fold around the balloon, the Velcro seem should be towards one side
so it doesn't end up on the top when fully inflated
Designate people to hold BLT down. (At least 4 people)
Start inflating at max flow rate
Start inflating at max flow rate Inflation Complete: Measure Total Free Lift =
Duo Dologoo Chaaldat
Pre-Release Checklist
Check payloads are ready
Good final communications check
- Call tower Q E Snow

Countdown & Release All Payloads turned on Raise Stack above pad in full flight configuration Telemetry and Downlink good Tether handlers ready Countdown from 10 Release
Release Time Mark =
Initial Heading of Flight = <u>Fas</u> +
Post launch (during chase) / Post-chez sommen achanges
Fral Alliste: 53,000 f6
Notes. Check Makind Strength at 3000g V. 1600 g -Possible Cause for early bursts seen in Use of 3000g balloons over the past few flights Email balloon Monufacturers about burst Liameters/ Makind Stergillus information
!!!!!! Mars drop above lawrence's payload for any (possible)

future launches

Command Module Checklist NS-<u>59</u>

Pre-Flight Checklist Cell Tracker Cell Tracker GPS Connection Cell Tracker SD Card Cell tracker cellular connection Power connection		
Habduino (Top Plate) #₹3	Adu SD	
Habduino (Bottom Plate) #12 Habduino GPS Connection 2M RF Connector(Out the front) Power connection	adapt	TO
Link Antenna Connection Power connection	(1)	
Systems Check -Top Plate Top LVC Switched on Cell Tracker On Habduino On Receive Text from cell tracker Received Packets from Hab Place desiccants Bottom Plate Bottom LVC Switched on Habduino On		
LINK On Received Packets from Hab Link system is lock (Verify with ground) Place desiccants		a
Seal Box - if all steps are checked do the following		

REMOVE BEFORE FLIGHT