

Weather Balloon Checklist

Step by step towards the stratosphere

6 weeks before the launch		
	Team formation	
	Research, tutorials	
4 weeks before the launch		
	Order material and equipment	
	Construction of the capsule	
	GPS Tracker test	
3 weeks before the launch		
	Choose the location for your launch	
	Determine the date and time for your launch	
	Request the start-permission from the authorities	
	Get a liability insurance	
24 hours before the launch		
	Check the weather forecast	
	Predict the flight path	
	Determine the exact take-off weight of your payload	
	Calculate the helium amount needed	
	Load the battery of your camera	



	Load the battery of your GPS Tracker	
	Load the battery of your laptop	
	Format SD card	
	Attach your contact details to the capsule	
The launch		
	Attach the pressure regulator to the helium bottle	
	Start the GPS Tracker and test it	
	Cut the cords on length and tighten them: 5m between the parachute and the balloon, 10m between the parachute and the capsule	
	Fill the weather balloon with the calculated amount of Helium	
	Seal the weather balloon and connect it with the cord from the parachute	
	Activate the camera, battery supply or datalogger and put it into the capsule	
	Seal the capsule with gaffer	
	Connect the capsule with the parachute	
	Launch the weather balloon	
Immediately after the launch		
	Follow the balloon to the predicted landing destination	
	The flight will take about 3 hours until the capsule will land	
	Locate the capsule with the GPS Tracker	
	Recover the capsule	
Materials and tools needed		
	Weather balloon	
	Parachute	
	Special cord	



Helium
Pressure reducer
Polystyrene for the capsule
Cardboard
Gaffer
Cotton gloves
Camera with SD card
External power supply
GPS Tracker
GPS Tracker as a backup
Datalogger to measure the maximum altitude
Cutter, scissor
Pipe wrench (to attach the pressure reducer)

Further information, tips and tricks as well as some useful tools for the

- calculation of the helium amount needed
- flight prediction

can be found on our website: www.stratoflights.com/en/tutorial.