

The weather balloon checklist

Step by step to your own stratosphere flight

	ning and organization eks before the start
	Finding your team
	Research, tutorials
	Discussion of goals; Altitude record? Experiments?
	上いる時代 https://www.stratoflights.com/en/tutorial/planning-organization/
*	mal equipment & construction of the probe eks before the start
	Order material and technology
	Construction of the probe
	Charge your GPS-Tracker with credit and run tests
	Watch the tutorial for designing the probe
	Test data records of the datalogger
	Read through the extensive manual of the Weather Balloon Kit in peace
	https://www.stratoflights.com/en/tutorial/optimal-equipment/
Ê	preparations eks before the start
	Select starting point (at least 5km as the crow flies from airports, the more rural, the easier it is to register with the aviation authority, but launchs are usually no problem at all)
	Set start date and start time
	Possibly. Define alternative dates and periods if the weather does not play along
	Apply for a Launch permit with the aviation authority with weather balloon Request for registration
	* In any case, seek the advice of an insurance expert. Stratoflights is not liable for the accuracy or completeness of this information.

https://www.stratoflights.com/en/tutorial/start-preparations/



Ê	Start preparations 24h before the start	
		Check weather forecast
		Predict flight route
		Determine the exact take-off weight of the probe incl. Technology
		Calculate and note required amount of helium
		Charge the battery of the Space Cam and check camera settings
		Charge batteries of the GPS tracker
		Format the SD card and insert it into the camera
		Attach contact data to the probe
		Charge your laptop
		Final final test of the entire technology
		国際機構 https://www.stratoflights.com/en/tutorial/start-preparations/
4	Wea	ther balloon start
		Check if all required equipment is at the starting point
		Install pressure reducer on helium bottle
		Turn on the GPS Tracker and test it
		Bring special cords in appropriate lengths and knot with the parachute (about 5m special cord between weather balloon and parachute, about 10m special cord between parachute and probe)
		Fill the weather balloon with calculated amount of helium
		Close weather balloon and connect with special cord (see supplied filling instructions of your weather balloon)
		Switch on Space Cam, battery pack and datalogger insert in probe and secure with Tesa fabric tape
		Test the clear view of the camera lens
		Close the probe with Tesa fabric tape

https://www.stratoflights.com/en/tutorial/weather-balloon-start/

Slowly and consistently release the weather balloon on the special cord and start directly

Possibly. Inform air traffic control by telephone about the actual start time $\,$

Camera lens not fitted when sealing the probe with Tesa tape overcast?

Final check: everything knotted together?



	Location & Recovery			
		Pack the equipment and drive in the direction of the predicted landing site After a flight time of about 3 hours, the probe has landed Locate the probe through the GPS tracker Salvage of the probe Watch breathtaking videos on your laptop and be amazed! https://www.stratoflights.com/en/tutorial/locating-recovery/		
_	Mate	rial & Tools		
		Weather balloon		
		<u>Parachute</u>		
		Special cord (tear strength <230 N)		
		Helium bottle / balloon gas		
		Pressure reducer incl. Hose		
		Tesa duct tape		
		Gloves		
		Space Cam with SD card and battery pack with power batteries		
		External power supply for the camera		
		GPS Tracker		
		GPS Tracker as a backup system		
		Datalogger for altitude recording		
		Cutter knife / scissors		
		Wrench (for pressure reducer)		

Further information, tips $\&\ tricks$ as well as useful tools for the

- Registration of your weather balloon start
- Calculation of the required amount of helium
- Flight path prediction

you will find on our website ${\color{red} {\bf www.stratoflights.com/en/tutorial}}.$