Notes from NEBP Workshop

Misc:

* Need communications between launch site and ground station (use Zello app?)
* Ground system draws a lot of power, if you work off batteries then we need to test out size of batteries needed (e.g., Jackeries)
  + You can buy a “Kill O Watt” to measure how much current is being used ($15)
  + Need Jackery Portable Power Station ($300) and solar panels ($200)

Launch

* Do not launch with greater than 15 mph wind gusts

Ascent

* You want 5.5 m/s ascent rate, which probably means 19 pounds of lifting force
* Make sure to vent above the jet stream
* When venting you will see your ascent rate change within -0.2 and +0.2 m/s
* NEED an app that overlays current tracking data onto predicted path and map

Flight Path / Ground Track Predictions

* Get coordinates of launch site
* Search “eclipse path KML” and overlay the kmz data on Google Earth
* Install NOAA tool (<https://gml.noaa.gov/ozwv/wvap/sw.html> )
  + Use Balloon Prediction tool to depict flight path … look at historical data
* Install Google Earth and overlay NOAA prediction
* Use predict.sondehub.org to predict your launch about 10 days out as well
* windy.com – to check weather along flight prediction

NOTAMS

* use skyvector.com
* Give FAA ATC
  + the VOR (center of the VOR) or you can give lat/lon in degrees, min, sec
  + give time in zulu time
  + give date
  + how high yo plan to fly (60k up to 95k)
  + Direction of flight
  + Length of NOTAM (1/2 hour before flight plus 4 hours)