1. Install linux (for this we used ubuntu 20.04 LTS)
2. Install GNU Radio(and packages)
   1. Open terminal
   2. Type:”apt install gnuradio” hit enter
   3. Type:” sudo apt-get install gnuradio gnuradio-dev gr-osmosdr” hit enter
3. Install WXTOIMG
   1. Download wxtoimg from <https://wxtoimgrestored.xyz/downloads/> make sure to get the linux version ending in .deb
   2. Right click on download and click open with other
   3. Select open with software installer
   4. Then click install
   5. Launch terminal
   6. Type xwxtoimg
   7. Enter longitude and latitude
   8. Click help in the upper left and select enter upgrade key
   9. Enter full name Kevin Schuchmann
   10. Enter any email address
   11. Enter Upgrade key CGHZ-PP9G-EAJZ-AWKK-NDNX
   12. Click ok
   13. Then click file and select update keplers
   14. Test it is working by opening terminal and
       1. Download .wav file in the 610 file location in ground station
       2. Cd to download location.
       3. Type “sudo wxtoimg -s -e histeq -t n 090729\ 1428\ noaa-18.wav > output.png”
       4. This should have created a file called output.png in the same folder as .wav
          1. Check to make sure it was processed correctly
          2. Should look like a satellite image.
4. Rotator/Tracking software