## Main Script For Everything

## **Quiver and Scatter3 Plot**

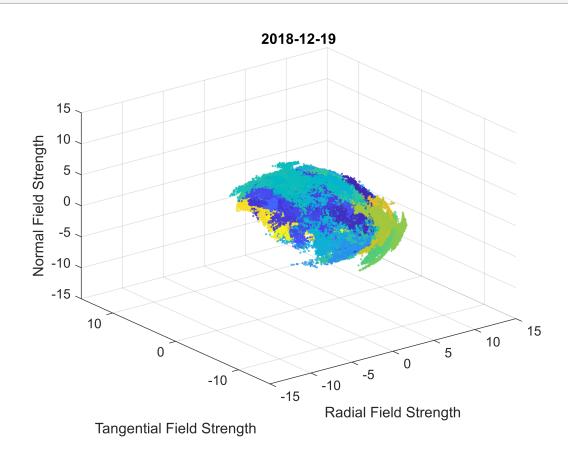
Here, you can select the range of years you want to view for the quiver and scatter3 plot. Select your range using the drop down menus below.

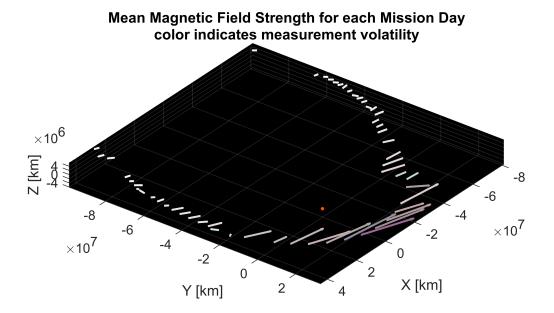
```
yearStart = "2018"

yearEnd = "2018"

yearEnd = "2018"

plotQuiver(str2double(yearStart):str2double(yearEnd))
```





## **Wavelet and Scalogram Plot**

Here, you can select the data you want to use to plot the scalogram. These scalogram view the magnetic field data on a day by day basis.

```
prj = currentProject;
filePath = fullfile(prj().RootFolder,"\Data\Example")

filePath =
  "C:\Users\tkyung\Downloads\NASA-Space-Apps-2022\Data\Example"

data = string(ls(filePath));
data = data(3:end);
input = data(1)

input =
  "psp_fld_l2_mag_rtn_4_sa_per_cyc_20200607_v02.cdf"

plotWavelet(input)
```

