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In [3]:    import neilpy
           import pandas as pd
           import glob
           import os

           # Load image names into a list
           images_dir = 'POAS/*.jpg'
           fns = glob.glob(images_dir)

           # Read the geotags into a dataframe
           photos_df = neilpy.read_geotags_into_df(fns,return_datetimes=False)

           # Fix names, as we don't want to include the path to the image, just the basename
           photos_df['fn'] = photos_df['fn'].apply(os.path.basename)

           # Calculate the azimuths based on the tracks
           photos_df['azimuth'] = neilpy.track2azimuth(photos_df['lat'].values,photos_df['lon'].values)

           # Based on a specified pitch estimated during the mounting, calculate Omega, Phi, and Kappa angles
           pitch = -70
           photos_df['omega'],photos_df['phi'],photos_df['kappa'] = neilpy.ypr2opk(photos_df['azimuth'].values,pitch)

           # Correct for GEOID
           photos_df['alt'] = photos_df['alt'] + 35.356

           # Define accuracy of measurements:
           photos_df['xy_acc'] = 2.
           photos_df['z_acc'] = 2.

           # Write out the values
           outfile = 'sept_poas_opk.csv'
           cols = ['fn','lat','lon','alt','omega','phi','kappa','xy_acc','z_acc']
           photos_df.to_csv(outfile,index=False,header=False,columns=cols)

In [ ]:
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