Space and Time Conversions

For projected data, use CartoPy

plt.show()

Tip: Store projection information within Xarray for easy recall

ax.pcolormesh(wrf.x, wrf.y, wrf.wind_speed, transform=wrfcrs)

```
import xarray as xr
import matplotlib.pyplot as plt
import cartopy.crs as ccrs
# open data
wrf = xr.open_dataset('model.nc')
# define data projection
globe = ccrs.Globe(ellipse=wrf.ellipse, semimajor_axis=wrf.semimajor_axis, semiminor_axis=wrf.semiminor_axis)
wrfcrs = ccrs.LambertConformal(central_longitude=wrf.standard_longitude,
                               central_latitude=wrf.central_latitude,
                               standard_parallels=(wrf.true_latitude_1, wrf.true_latitude_2),
                               globe=globe)
# define plot projection
ploters = cers_UTM(13)
# make the figure
fig = plt.figure(figsize=(15,15))
ax = fig.add_subplot(projection=plotcrs)
```

Code Example

Slides and code example available at https://github.com/tjwixtrom/AMS-Python-2021

