﻿"""

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"""

import geopandas as gpd

import matplotlib.pyplot as plt

﻿file = '/Users/roryeggleston/Downloads/ICES\_ecoregions/ICES\_ecoregions\_20171207\_erase\_ESRI.shp'

data = gpd.read\_file(file)

Out[26]: geopandas.geodataframe.GeoDataFrameOut[27]:

OBJECTID ... geometry

0 1 ... (POLYGON ((-43.99176943261318 60.2969380621419...

1 2 ... (POLYGON ((-5.600000000399632 36.0110407268481...

2 3 ... POLYGON ((-21.05878305619302 36.00000000009999...

3 4 ... (POLYGON ((2.999625444458729 43.14220345002923...

4 5 ... (POLYGON ((24.12281083205431 34.80180418461549...

[5 rows x 6 columns]

data.head()

﻿data.plot()

Out[28]: <matplotlib.axes.\_subplots.AxesSubplot at 0x120ec0240>



﻿Out[29]: {'init': 'epsg:4326'}

data.crs

data['geometry'].head()

Out[30]:

0 (POLYGON ((-43.99176943261318 60.2969380621419...

1 (POLYGON ((-5.600000000399632 36.0110407268481...

2 POLYGON ((-21.05878305619302 36.00000000009999...

3 (POLYGON ((2.999625444458729 43.14220345002923...

4 (POLYGON ((24.12281083205431 34.80180418461549...

Name: geometry, dtype: object

﻿data\_proj = data.copy()

data\_proj['geometry'] = data\_proj['geometry'].to\_crs(epsg=3879)

Out[39]:

0 (POLYGON ((22310889.22782476 8706980.416658979...

1 (POLYGON ((22704472.78118104 4451550.873957298...

2 POLYGON ((21243121.60775509 5137454.67019439, ...

3 (POLYGON ((23708249.42580054 5019912.680305469...

4 (POLYGON ((25419729.30025733 3852956.019364097...

Name: geometry, dtype: object

data\_proj['geometry'].head()

data.plot(markersize=6, color="indigo");

plt.title("Projection 1");

plt.tight\_layout()

data\_proj.plot(markersize=6, color="lavender");

plt.title("Projection 2");

plt.tight\_layout()



