# Route visualisations:

## Create a new layer in ArcGIS with all the trips of one vessel (e.g., Rodney)

On the Figure 1, we can see all trips for boat with name Rodney. Each trip is from different month.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 1: all the trips of one vessel.

## Visualize and compare the same trajectory using the fishing and AIS datasets.

On Figure 2 we can see compared trajectories of boat Rodney. The blue lines represent trajectories from AIS dataset (they look checkered since we normalized them in the previous assignment). The red lines represent trajectories from fishing dataset. We can see that in AIS dataset we had much more points and we can observe that boat was traveling from port in Mar del Plata.

A picture containing text, screenshot, map

Description automatically generated

Figure 2: compared trajectories.

## Create a chart to show each route’s total length (distance) of one vessel (e.g., Rodney)

On Figure 3 we can see total length that boat Rodney travelled by each trip.

A picture containing text, screenshot, number, diagram

Description automatically generated

Figure 3: each route’s total length

# Plotting fishing data

## Create a chart to show the total quantity of fish per different vessels.

On figure 3 we can use amount of fish caught by different vessels. The most fishes were caught by Rodney boat.

A picture containing text, screenshot, number, plot

Description automatically generated

Figure 4: total quantity of fish per different vessels

## Create a chart to show the trend of average fish caught in different trips of one vessel in one year (e.g., Rodney in 2020)