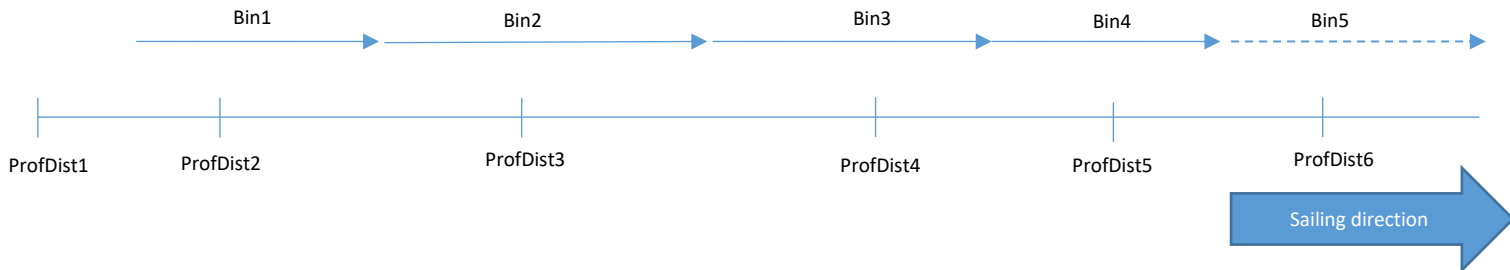


Aarhus Workbench binning of streamed ERT data

1. Read coordinates for all measurements (lines) in data file
2. Calculate profile distances for all measurements
3. Data bins are created from profile distances (see picture)



4. Add data to bins:
 - a. For each channel data point in each measurement, we calculate its coordinate in units of profile distance by using its electrode positions (giving a lateral focus point). (N datapoints per data file line, where N is number of channels).
 - b. We add the channel data point to the proper bin, depending on its profile distance. Some bins will contain all channels, some fewer, because the lateral focus points of the channels are not uniformly distributed, and the bins are not the same size. If several data points with the same channel number fall in the same bin, the values are averaged.