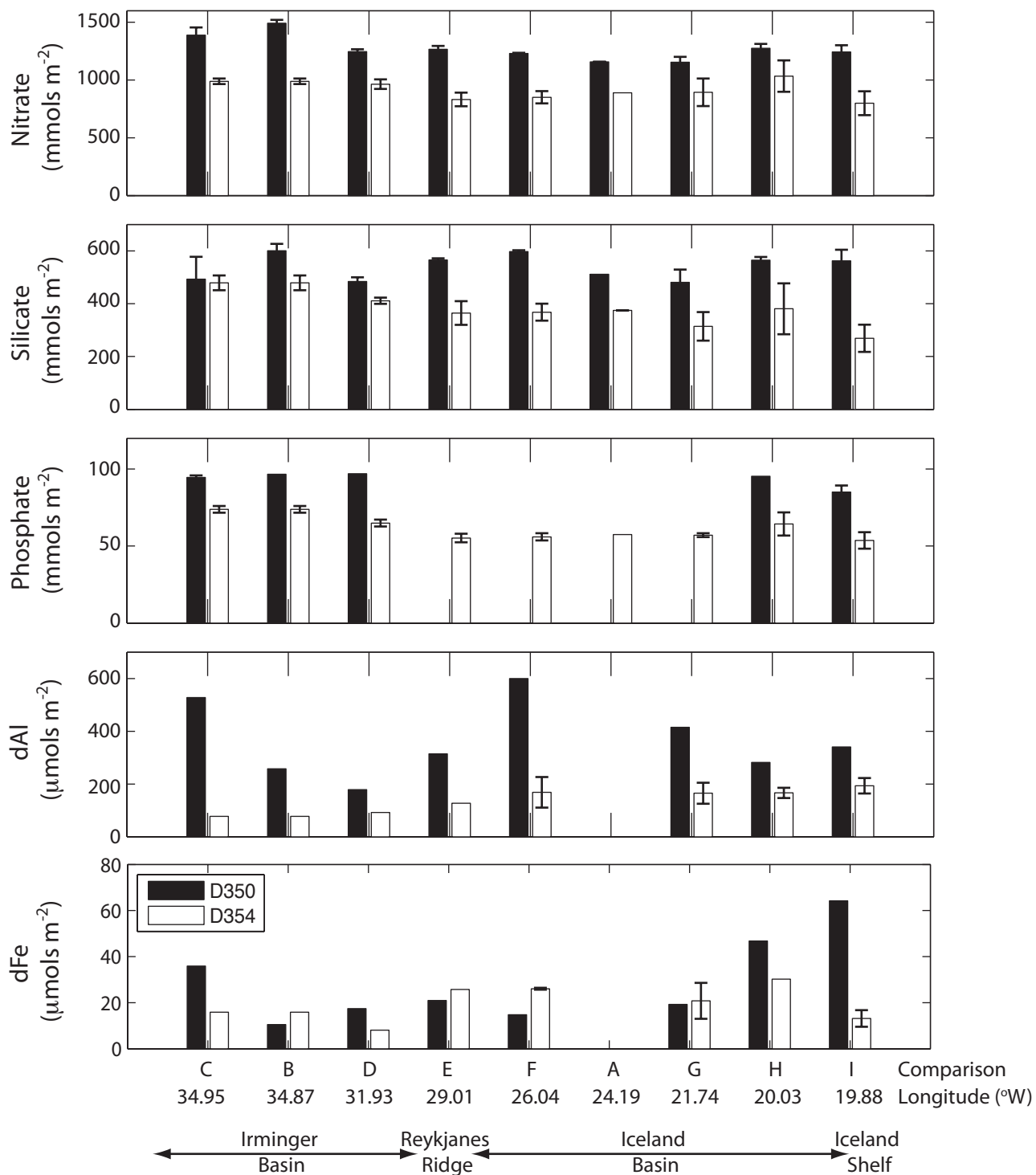


Supplementary Figure 1: Map showing the station pairings between spring (D350 blue squares) and summer (D354 red circles) data. The green ovals show which stations were grouped together for the seasonal drawdown analysis.



Supplementary Figure 2: 100 m integrated nutrient inventories during April and August 2010. Estimates of seasonal nutrient drawdown occurring within the upper 100 m of the water column were calculated by difference between late April and early August 2010. Drawdown estimates are focussed on the 9 stations sampled during late April (Supplementary Fig. 1). When multiple profiles were obtained within a small geographical area around the main 9 stations the profiles were averaged and the standard deviation calculated (error bars). Note that all sampling stations have been reordered on longitude, as shown at the bottom of the plot to better represent the zonal distribution of stations.