

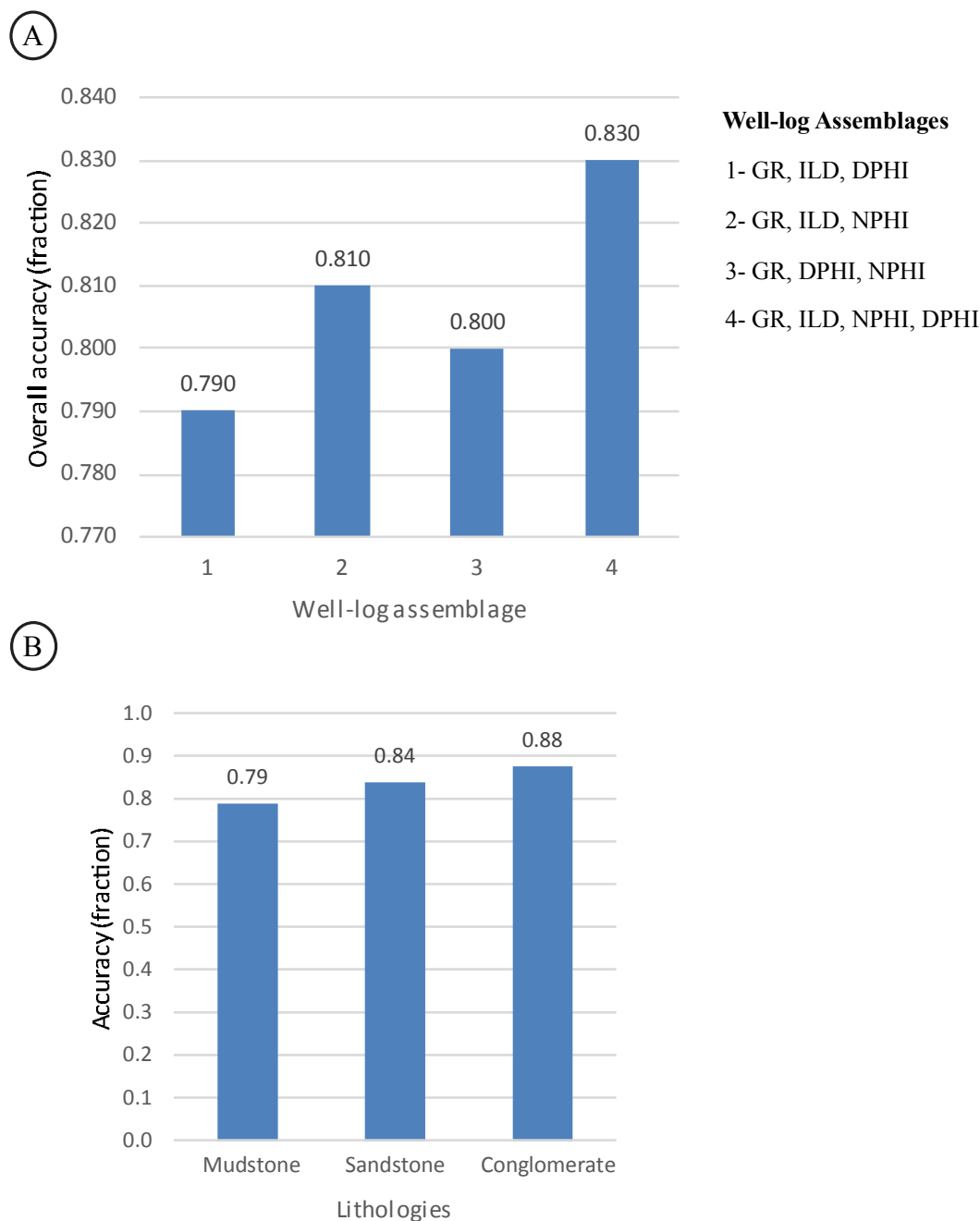


Figure 11. A) Histogram showing the overall accuracy of Artificial Neural Network result in the estimation of 3 lithologies within the cored interval for different combinations of well-logs (GR: Gamma-ray; ILD: Deep-resistivity; DPHI: Density-porosity; NPHI: Neutron-porosity). Result by using all the available logs has the highest overall accuracy (0.830). B) Histogram showing the accuracy for 3 lithologies estimated by the Artificial Neural Network using GR, ILD, DPHI, and NPHI. Accuracies are calculated by dividing the number of correctly estimated lithology by the total number of lithology. The accuracies for all lithologies are satisfactory.