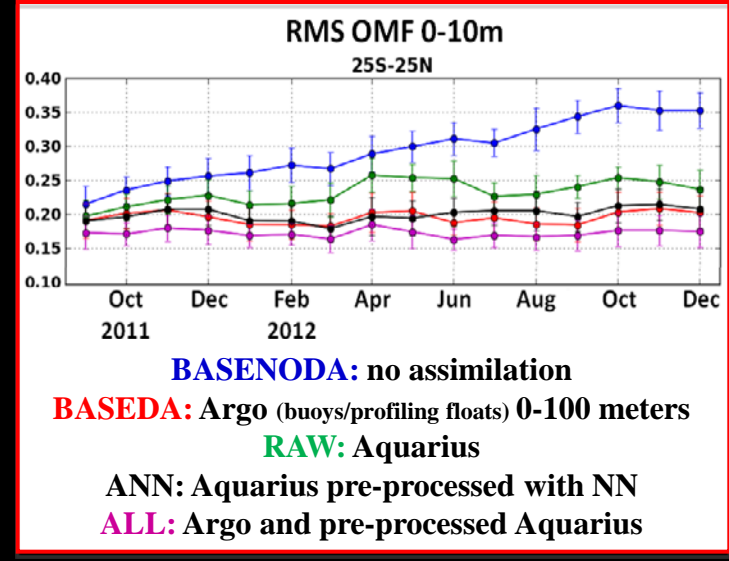
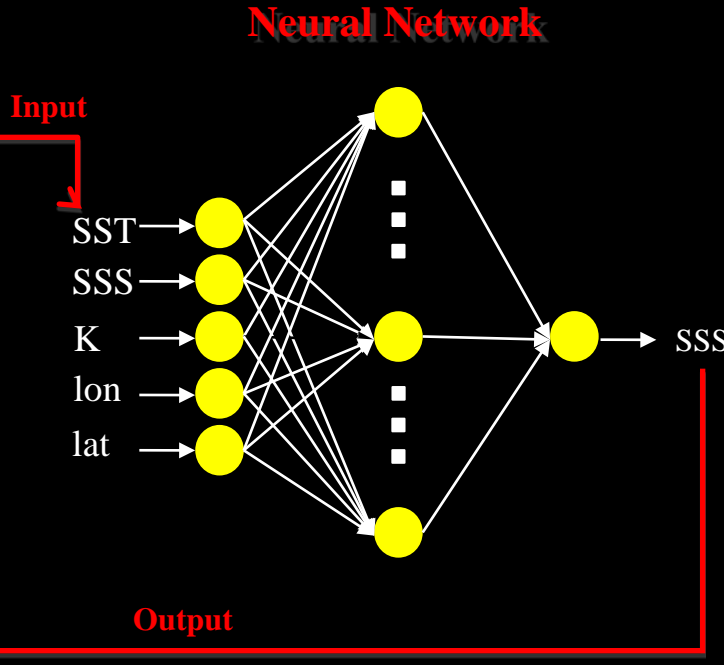
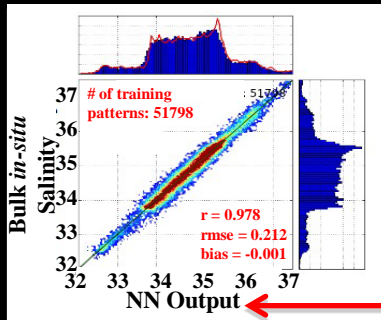
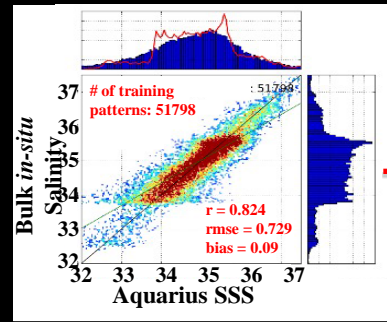




# A Neural-Network-Based Bias Correction Enhances the Value of Aquarius Sea Surface Salinity (SSS) Data

Global Modeling and Assimilation Office

A Neural Network (NN) is used to map the Aquarius Sea-Surface Salinity (SSS) to bulk salinity measurements. This removes biases between the satellite observations and the in-situ data at high latitudes, enhancing their value for science.



Assimilating combinations of SSS data shows that errors are smallest when the in-situ data are used with the corrected Aquarius data are used. The NN-corrected Aquarius SSS and *in-situ* measurements are both consistent and complimentary.