**Meeting Notes**

**04/10/2019**

1. Eric tried three models
   1. H2O Random forest model
   2. H2O Random forest with tuning parameters
   3. XGB regressor
   4. Deep learning with Keras framework
2. Right now, the H2O random forest model performs better than other models. Further fine tuning of the Keras deep learning might improve the results.
3. Random forest method detected dq, WS and ASTD as the important parameters to determine the EDH
4. Random forest MAE is ~0.2 m

Further planned analysis

1. Decided to run the models using…
   1. Standard meteorological variables Pressure, Temperature, Relative humidity, and Wind speed
   2. dq and ASTD
2. Discussed preliminary conceptual plans on a new study to understand the impact of climate change and sea level rise on humans and assets.
   1. Using multiple satellite and in-situ datasets
   2. Model output (<http://www.cesm.ucar.edu/>)