

ADCIRC Region 3 Simulation Database, Timeseries Documentation Outline

1. Overview
 - a. Brief description of the ADCIRC model, Region 3 Simulation, and the data produced for it.
 - b. Description of the PostgreSQL DB, TimescaleDB, and PotGIS.
 - c. Description of the ADCIRC variables in the database.
2. Installation
 - a. Build docker image
 - b. Create container
 - c. Move PostgreSQL DB to volume space
 - d. Ingest data
3. GitHub repository for adcircreg3simdb
 - a. ADCIRC Model Ingest Scripts
 - i. Parallel copy GO program
 - b. Geometry Ingest Scripts
 - c. Checking Results
 - d. Creating Cluster tables
4. Processing the data
 - a. Anaconda & Container Operating system
 - b. Number of CPU
 - c. Running cronjobs
 - d. Ingest Results
 - e. Disk Space
5. Results
 - a. Running pg_tileserv
 - b. Jupyter Demo
6. References