**File organization**

**PBF\_modeling**

**CDFWBlocks -** holds axillary code/csv and shapefiles about CDFW fishing blocks

**block\_location.csv -** output csv file of block\_locations.R; lat/long info of blocks

**block\_locations.R -** code to extract lat/long of CDFW blocks (midpoint)

**finescale\_regions.csv -** csv file identifying CDFW fishing blocks to finescale regions

**fishingblocks\_shp -** shapefile  of CDFW fishing blocks

**EnvironmentalData -** holds raw and prepared env data and code

**Broadscale**

**ENSO\_Timeseries.csv -** raw enso index data

**envdata\_broadscale.csv -** output csv file of **prep\_broadscale\_envdata.R**; prepared broadscale env data (enso and pdo indices)

**PDO\_Timeseries.csv -** raw pdo index data

**prep\_broadscale\_envdata.R** - code to prepare broadscale env data

**Finescale**

**CHL\_Copernicus** - holds raw chl-a data

**envdata\_finescale.csv -** output csv file of **prep\_finescale\_envdata.R;** prepared finescale env data (chl-a, ssh, and sst)

**prep\_finescale\_envdata.R** - code to prepare finescale env data

**SSH\_Copernicus** - holds raw ssh data

**SST\_Copernicus** - holds raw sst data

**FisheriesData -** holds prepared fisheries data and code

**Clean**

**Combined** - holds output csv file of **trips\_combined.R**

**clean\_trips\_combined\_nonconfidential.csv** - combined (multi, single, and unidentified) unique trip events (non confidential)

**mutli\_trips\_clean.csv** - output file of **trip\_id\_multi.R**; unique trip events for trips identified as “Multi-Day” by CDFW (still contains confidential data)

**na\_trips\_clean.csv** - output file of **trip\_id\_na.R**; unique trip events for unidentified trips by CDFW (still contains confidential data)

**single\_trips\_clean.csv**  - output file of **trip\_id\_single.R**; unique trip events for trips identified as “Single Day” by CDFW (still contains confidential data)

**prepare\_data.R -** code to prepare data; combining env and block location data with fisheries catch and effort data

**Prepared -** holds output csv file of **prepare\_data.R**

**pbf\_nominal\_cpue\_data.csv** - pre-standardization data; includes all variables needed for modeling

**Raw** - holds raw CDFW CPFV catch and effort data (in the code you can change this to the actual file path of raw data; serves as a place holder)

**trip\_id\_multi.R** - code to appropriately identify unique trip events for trips identified as ‘Multi-Day’ by CDFW

**trip\_id\_na.R** - code to appropriately identify unique trip events for trips unidentified by CDFW

**trip\_id\_single.R** - code to appropriately identify unique trip events for trips identified as ‘Single Day’ by CDFW

**trips\_combined.R -** code to appropriately combine all unique trips events from single, mult- and unidentified CDFW trips (csv files in **Clean** folder)

**Workflow**

1. **Run trip\_id\_multi.R, trip\_id\_single.R, and trip\_id\_na.R to appropriately identify unique trip events.**
2. **Run trips\_combined.R to appropriately combine outputs of the above mentioned code files and reclassify Vessel ID to make data non confidential.**
3. **Run prepare\_data.R to combine associated env data and block data into non confidential fisheries catch and effort data with all variables needed for CPUE modeling.**

**General Notes**

* **Environmental data is already prepared and ready to be combined with fisheries data.**
* **Green csv files represent output files and therefore will not exist until code is run**
* **Orange csv file represents non confidential data to be used for modeling**