This document is to provide information on loading raw data into the R project ‘Gamma\_Analysis’ and running the code through and exporting a filtered data file for use in various analyses.

**Condition Index data:**

1. Navigate to the Oyster\_DB\_Data file within [Oysters](Z:\\Oysters\\) and open the most current .zip file (do not extract).
2. Select the ‘ConditionIndex’ and ‘FixedLocation’ files, and copy/paste into Oyster\_DB\_Data\Analyses\Raw\_Data folder.
3. Open R Studios.
4. Open the R project ‘Gamma\_Analysis.Rproj’ found in the Oyster\_DB\_Data\Analyses folder.
5. From the Files pane, open the file ‘Cleaning\_CI\_Data.R’
6. Edit lines **11:13** as follows:
   1. **Est** – Enter the 2-letter Estuary code (Table 2.)
   2. **Start\_year** – Enter the first year of data required for analysis
      1. Recommended using data beginning in January to avoid skewing later in the analysis
   3. **End\_year** – Enter the last year of data required for analysis
      1. Recommended to use data ending in December to avoid skewing later in the analysis
7. Run the rest of the code.
8. Data should be saved in the Clean\_data folder. Open .csv file and check that all data is saved properly.

**Water Quality data:**

1. Navigate to the Oyster\_DB\_Data file within [Oysters](file:///Z:\Oysters\) and open the most current .zip file (do not extract).
2. Select the ‘SampleEventWQ’ and ‘FixedLocation’ files, and copy to Oyster\_DB\_Data\Analyses\Raw\_Data folder.
3. Open R Studios.
4. Open the R project ‘Gamma\_Analsis.Rproj’ found in the Oyster\_DB\_Data\Analyses folder.
5. From the Files pane, open the file ‘Cleaning\_WQ\_Data.R’
6. Edit lines **11:14** as follows:
   1. **Est** – Enter the 2-letter Estuary code (Table 2.)
   2. **Start\_year** – Enter the first year of data required for analysis
      1. Recommended using data beginning in January to avoid skewing later in the analysis
   3. **End\_year** – Enter the last year of data required for analysis
      1. Recommended to use data ending in December to avoid skewing later in the analysis
   4. **SampleEv** – Enter the 4-letter sample trip code (ie. RCRT, COLL, SRVY, etc.)
7. Run the rest of the code.
8. Data should be saved in the Clean\_data folder. Open .csv file and check that all data is saved properly.

**Other data:**

If data for other projects, such as Dermo or Recruitment, is needed:

1. Navigate to the Oyster\_DB\_Data file within [Oysters](file:///Z:\Oysters\) and open the most current .zip file (do not extract).
2. Select the raw data file of interest and ‘FixedLocation’ files, and copy to Oyster\_DB\_Data\Analyses\Raw\_Data folder.
3. Open R Studios.
4. Open the R project ‘Gamma\_Analsis.Rproj’ found in the Oyster\_DB\_Data/Condition\_Index folder.
5. From the Files pane, open the file ‘Cleaning\_CI\_Data.R’
6. Edit lines **1** and **3** to change ‘**CI**’ to [**desired project**]
   1. See Table 1 for project names
7. Edit lines **11:13** as follows:
   1. **Est** – Enter the 2-letter Estuary code (Table 2.)
   2. **Start\_year** – Enter the first year of data required for analysis
      1. Recommended using data beginning in January to avoid skewing later in the analysis
   3. **End\_year** – Enter the last year of data required for analysis
      1. Recommended to use data ending in December to avoid skewing later in the analysis
8. Ctrl+F to find and replace ‘**CI**’ to [**desired project**] name
9. Edit lines **55:57** with **column names** from [**desired project**]. This will select which parameters are of interest.
10. Data should be saved in the Clean\_data folder. Open .csv file and check that all data is saved properly.

**Appendix:**

**Table 1.** Projects and their recommended shorthands for R. Update as appropriate.

|  |  |
| --- | --- |
| **Projects and Recommended R shorthand** | |
| Cage Counts | CageCo |
| Cage Shell Heights | CageSH |
| Condition Index | CI |
| Dermo | Dermo |
| Recruitment | RCRT |
| Repro | Repro |
| Sediment Trap | SDTP |
| Shell Budget Quadrats | SBMQ |
| Shell Budget Shell Heights | SBMSH |
| Shell Pest | ShellP |
| Survey Quadrats | SRVYQ |
| Survey Shell Heights | SRVYSH |
| Wave | Wave |
| Water Quality | WQ |

**Table 2.** Naming conventions to be used for file names. Estuary indicated by shorthand can be found in column 2. Update as appropriate.

|  |  |
| --- | --- |
| **Estuary and 2-Letter Code** | |
| Apalachicola Bay | AB |
|  | BB |
| Caloosahatchee River | CR |
| Lake Worth | LW |
| Loxahatchee | LX |
|  | ML |
| Pensacola Bay | PE |
| St. Andrews Bay | SA |
| St. Lucie River | SL |
|  | SR |
| Suwannee Sound | SS |
| Tampa Bay | TB |