IEP Data Management Plan

Project Element Number:

093

Year:

2024

Date Updated:

04-24-2023

Start Date:

01-01-1980

Study Title

Suisun Marsh Fish Study

Principal Investigator

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Point of Contact

Teejay O'Rear (contact information above)

Data Description

Trawling is conducted using a four-seam otter trawl with a 1.5-m X 4.3-m opening, a length of 5.3 m, and mesh sizes of 35-millimeter (mm) stretch in the body and 6-mm stretch in the cod end. The trawl is towed at 4 km/hr for 5 minutes in small sloughs and for 10 minutes in large sloughs every month in at least nine sloughs. Inshore fishes are sampled monthly with a 10-m beach seine having a stretched mesh size of 6 mm at at least three beaches. All fishes are identified and measured; large invertebrates are identified and counted; and abundance/volume of smaller organisms is estimated visually. For each site, temperature, salinity, dissolved-oxygen parameters, water transparency, tidal stage, and water depths are recorded. Time permitting, hook-and-line sampling for adult striped bass gut-content analyses occurs adjacent to trawl stations. The current database size, containing 44 years of data, is 152 MB.

Related Data

California Department of Fish and Wildlife's Bay Study, Fall Midwater Trawl, Summer Townet Survey, Spring Kodiak Trawl, Smelt Larval Survey, North Delta Arc Project, OG Fish Lab South/San Pablo Bay project

Metadata

A PDF document with an associated spreadsheet provides detailed metadata about the study and is distributed with each data request by either Teejay O'Rear or Dr. John

Durand. Metadata are also included in the annual Suisun Marsh Fish Report, available at the A.R.C. Laboratory publications web page.
https://sites.google.com/ucdavis.edu/aquaticresearchcollective/publications?authuser=0

O'Rear T, PB Moyle, and JR Durand. 2022. Trends in fish and invertebrate populations of Suisun Marsh January 2021 – December 2021.
URL: https://escholarship.org/uc/item/170910gb

Storage and Backup

Hard-copy original datasheets are archived in Academic Surge 1336; hard-copy copies of datasheets are housed in 2101 Watershed Sciences. Database is stored on Watershed Sciences file server, an external hard drive, and off-site utilizing CrashPlan, following our principle of having the data stored on as many media types as possible.

Archiving and Preservation

The project has been ongoing since 1979 and is funded to continue through 2026, with the expectation that it will be extended at that time. The data are curated by the PIs and updated monthly as new data are collected. The founding PI, Peter Moyle, is retired from teaching but is active in research at the university. Dr. John Durand and Teejay O'Rear will assume responsibility for the project over the next decade. See also section above.

Format

Formats available: Access database (.accdb, if whole database is requested - this is the most common dissemination format), or, if someone wants something smaller and simpler in a flat file, Excel (.xlsx) or a .csv or .txt file, which numerous software programs can read.

Quality Assurance

There are two sides of the database, a data-entry side and a permanent side. Data are entered from hand-written sheets into electronic forms on the data-entry side of the database. The data can then be reviewed as spreadsheets. Changes can be made, and the data are reviewed again for completion and correctness.

Data are not available for complex, pre-written queries of the database until they have been QA'd. After final review, the data are moved by clicking a QA button on the data-entry forms. At that point, the data are archived into the permanent side of the database, where they cannot be easily altered.

More detail on QA procedures can be found in the metadata PDF document that is sent to every data requester and is found in the annual reports starting with sampling-year 2021.

Access and Sharing

The data are currently available to whoever asks (database queries are directed to Teejay O'Rear on the Center for Watershed Science's webpage). Availability of data

through UC Davis's Center for Watershed Sciences website (see SF Estuary Integrated Fish Survey Visualizer (Beta prototype). URL: https://ucdstripedbassproject.shinyapps.io/IntegratedVisualizer/) and Environmental Data Initiative are currently being developed. All data are generally quality-assured and available for analyses within a week of completion of a sampling event (e.g., if the April 2022 sampling period was the 17th - 20th, then those data would be quality-assured by April 27). Annual reports are generally completed on the previous year's sampling by April of the following year, approved by May, and published by June on the A.R.C. Laboratory Publications web page. URL: https://sites.google.com/ucdavis.edu/aquaticresearchcollective/publications?authuser=0

Rights and Requirements

All rights in data arising from university employment or the use of university resources belong to the university. Title to the copyrightable materials and data that are developed under a contract or grant from a commercial sponsor normally belong to the university. The university must ensure that the data, information, and materials generated during the course of research remain widely available.

See the UC Davis Office of Research, Research Agreements web page for more information. URL: https://research.ucdavis.edu/industry/partner-with-uc-davis/building-u-i-collaborations/research-transactions/types-agreements/research-agreements/#Rights%20in%20Data%20and%20Reports