IEP Data Management Plan

Project Element Number:

329

Year:

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Start Date:

2024-01-01

Study Title

Extracting better information from long-term monitoring data: estimating occupancy and abundance of near-shore fishes in the Sacramento-San Joaquin River Delta

Principal Investigator

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Point of Contact

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Data Description

This project aims to expand the DJFMP's monitoring and inference to other dominant habitats not sampled by beach seines through the use of boat electrofishing. The project will include electrofishing surveys performed across habitats, measurement of electrofishing capture probabilities, and use of capture probabilities to estimate abundance, occupancy, and effects of environmental drivers. Sampling will occur across all regions of the Delta at either random sites or near fixed seine sites. All fish collected are identified and recorded. In addition to fish information, electrofishing parameters and environmental data are collected. In some cases, additional data collection will occur (i.e., mark-recapture, ARIS footage, and GoPro camera footage). Data set size appox. 15 MB

Related Data

R code for analysis, when completed, will be posted on GitHub.

Metadata

The full metadata is available alongside a dataset posting on the Environmental Data Initiative website. EDI URL:
https://portal.edirepository.org/nis/metadataviewer?packageid=edi.692.2

Storage and Backup

The dataset and R code will be stored on the PIs networked drive at USFWS, which have automatic back-up routines. Additional R code will also be held by collaborators under their respective agencies. ARIS files are managed and stored by USGS at the Western Fisheries Research Center in Cook, WA. Physical datasheets for this study are stored in binders in the Lodi Fish and Wildlife Office. Datasheets are scanned after entry and saved onto an external hard drive and into a folder on the shared server in the Lodi Fish and Wildlife Office.

Archiving and Preservation

An archive is maintained at the Lodi Fish and Wildlife Office containing originals and copies of datasheets. Archived copies of the electrofishing database are saved monthly on the shared server in the Lodi Fish and Wildlife Office.

Format

Electrofishing sampling data are recorded on datasheets in the field and upon return to the office are entered into a database. Data are entered, accessed, and retrieved through a Microsoft Access application (.accdb). Data will be made available using Microsoft Excel (.xlsx) or CSV files. When other forms of data are collected (i.e. ARIS and GoPro footage), the files will be saved as electronic files. When ARIS data are collected, files are created with .aris extension and processed using the program Echoview. GoPro camera files are saved as .MP4 files and will be viewed using Windows Media Player.

Quality Assurance

Data are collected following the electrofishing study Standard Operating Procedure (SOP). Fish identification and measurement methods follow the DJFMP standard monitoring SOP, which every employee is trained on prior to commencing work. A double entry QA/QC process is applied to the data and error corrections are made when there are mismatches. Fish ID testing occurs regularly to ensure accurate identification of fish species in the field.

Access and Sharing

Inquiries about the project and data set can be addressed to the Data Point of Contact (see Contact Information above). Data is available on the Environmental Data Initiative web site and other data inquiries from the public should be addressed to the point of contact (listed above). EDI URL: https://portal.edirepository.org/nis/mapbrowse?packageid=edi.692.2

Rights and Requirements

Data management procedures are informed by the US Fish and Wildlife Service Division of Information Resources & Technology Management. Data use rights and requirements for federal government datasets can be found on the USFWS Data Management page. [URL https://www.fws.gov/data/]