

IEP Data Management Plan

Basic Information

Year: 2020; PEN:030; Date Updated: 2019-04-29; Start Date: 2020-01-01

Study Title

Delta Flows Network

Principal Investigator

Individual(s) responsible for the project. Include name, agency, e-mail, & phone.

Catherine Ruhl, US Geological Survey, cruhl@usgs.gov, (916) 617-2799 x 7720

Point of Contact

Individuals who data users should contact for access to the data or questions about the data. Include name, agency, e-mail, & phone number or write "same as above."

Same as above.

Data Description

A very brief description of the information to be gathered; the nature and scale of the data that will be generated or collected. Include approximate size (in MB) of the resulting data set.

At each station we publish gage height, velocity, and flow on a 15-minute interval. The data is available through NWIS-Web. For each parameter, one year of data is approximately 2MB -- so 6MB for each station.

Related Data

Optional. Existing datasets that you incorporate into analysis and reporting for this program element, existing data that are relevant to your study, or data that are collected simultaneously.

In some cases water quality data are also collected at our stations. Our core water quality parameters are: temperature, specific conductance, and turbidity. We also collect significant amounts of QA/QC data that we use to assess the quality of our results (battery voltage, signal strength, individual velocity bins, etc.). As part of our calibration process we also collect discharge measurements.

Metadata

A description of the metadata to be provided along with the generated data, including the metadata standards used. Provide the file name and information on how users can access the metadata (e.g., a link).

[Data are available through NWIS Web](#):

There are links to Site Information as well as to the data.

Storage and Backup

A description of the short-term storage methods and backup procedures for the data, including the physical and electronic resources to be used for the short-term storage of the data.

NWIS is the USGS National database. In addition to the nationally managed backup, we also have local archives for the raw files. Our local archive is backed up daily.

Archiving and Preservation

The procedures for long-term archiving and preservation of the data, including succession plans for the data should the expected archiving entity go out of existence.

NWIS is the USGS National database -- there is an entire USGS team dedicated to ensuring that data are properly archived and documented for current and future use.

Access and Sharing

A description of how data will be shared. Include (1) access procedures, (2) embargo periods, (3) technical mechanisms for dissemination (e.g., website addresses, listserv information), (3) whether access will be open or granted only to specific user groups, and (4) a timeframe for data sharing and publishing.

Data are available in real time through both NWIS Web and through CDEC. Finalized data are also made available through [NWIS Web](#).

Our goal is to meet an annual approval, though we've been dealing with vacancies on our project. We hope that once we are fully staffed that we will be able to consistently meet this goal.

Format

Formats in which the data will be generated, maintained, and made available. Include BOTH general data type (e.g., spreadsheet, relational database) and file format (extension).

Data are stored in NWIS-TS and available via NWIS Web. The downloaded files are "csv" files.

Quality Assurance

Brief description of procedures for ensuring data quality. Provide links to Quality Assurance Project Plan and/or QA/QC Standard Operating Procedures.

This project and the USGS has extensive QA/QC and SOPs for data collection, data processing, and data dissemination -- examples include:

Techniques and Methods and other USGS policy related to using hydroacoustic instrumentation can be found at OSW Hydroacoustics Homepage:
<https://hydroacoustics.usgs.gov/>

[Levesque, V.A., and Oberg, K.A., 2012, Computing discharge using the index velocity method: U.S. Geological Survey Techniques and Methods 3-A23, 148 p.](#)

[California Water Science Center Surface Water QA Plan:](#)

[Wagner, R.J., Boulger, W.R., and Smith, B.A., 2006, Revised Guidelines and standard procedures for continuous water-quality monitors: site selection, field operation, calibration, record computation, and reporting: U.S. Geological Survey Techniques and Methods, Book 9, Chapter B.](#)

Rights and Requirements

A link to or instructions to locate the agency's rights and requirements for data use.

There are no restrictions on the use of data received from the US Geological Survey unless expressly identified prior to or at the time of receipt. Questions regarding the use or redistribution of USGS data should be directed to "ask@usgs.gov" or 1-888-ASK-USGS (1-888-275-8747)