IEP Data Management Plan

Project Element Number:

030

Year:

2024

Date Updated:

5/3/2023

Start Date:

2024-01-01

Study Title

Delta Flows Network

Principal Investigator

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Point of Contact

Same as above

Data Description

At each station we publish gage height, velocity, and flow on a 15-minute interval. This program element number supports 11 flow stations in a network of nearly 40 stations. The data is available through NWIS-Web and CDEC. For each parameter, one year of data is approximately 2MB -- so 6MB for each station.

Related Data

In some cases water quality data and suspended-sediment concentration data are also collected at our stations. Our core water quality parameters are: temperature, specific conductance, and turbidity though some of the stations have expanded water quality and in some instances nitrate and / or phytoplankton enumeration.

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

Data are available through NWIS Web: https://waterdata.usgs.gov/nwis

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

Storage and Backup

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

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.

Format

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

Quality Assurance

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. Available online at: http://pubs.usgs.gov/tm/3a23/
- California Water Science Center Surface Water QA Plan: https://cawscportal.wr.usgs.gov/sciencespt/sw/Pages/default.aspx
- 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. http://pubs.usgs.gov/tm/2006/tm1D3/.

Access and Sharing

- 1) Access procedures: data are freely available to the public via NWIS Web
- Embargo periods: data are available in real time as soon as they are telemetered from the field
- 3) Dissemination: NWIS Web: https://waterdata.usgs.gov/nwis
- 4) Access: Freely available to the public
- 5) Timeframe: Realtime data are available as soon as they are telemetered from the field. Approved data are available after all of the internal analysis and review are complete. We strive to complete these reviews on an at least annual basis if not sooner.

Rights and Requirements

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).