# EDI Metadata Template (2020)[[1]](#footnote-1)

## Dataset Title

Keswick Reservoir Temperature Profile Data (2017-2019).

## Short name or nickname you use to refer to this dataset:

KeswickReservoir\_2017-19

## Abstract

This dataset contains the Keswick Reservoir temperature profile data collected by using remote logging thermistors (temperature loggers) attached to a cable system at the log boom above Keswick Dam in three monitoring seasons in 2017, 2018 and 2019. Field data monitoring installation was performed by U.S. Bureau of Reclamation (Reclamation), with support from Watercourse Engineering, Inc. (Watercourse) as part of the Shasta Lake and Keswick Reservoir Flow and Temperature Modeling study conducted by Watercourse in cooperation with Reclamation. All data were collected using HOBO Water Temperature Pro v2 Data Loggers and reported to 0.01oF.

## Investigators

|  |  |  |  |  |  |
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## Other personnel names and roles

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## License

CCO 1.0

## Keywords

Water temperature, Keswick Reservoir, Sacramento River, Shasta Lake

## Funding of this work:

Add rows to table if several grants were involved, list only the main PI, start with main grant first:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PI First Name | PI Middle Initial | PI Last Name | PI ORCID ID (optional) | Title of Grant | Funding Agency | Funding Identification Number |
| Michael |  | Deas | 0000-0002-9859-8957 | Shasta Lake and Keswick Reservoir Flow and Temperature Modeling | Sacramento River Settlement Contactors | n/a |

## Timeframe

Data set includes three monitoring seasons, with no rows allocated for the data gap in 2018, which is mentioned below, and the periods with no available data between the monitoring seasons:

1. 2017. Begin date time: 09/06/2017 10:30 AM, End date time: 01/10/2018 10:00 AM
2. 2018. Begin date time: 03/29/2018 12:00 AM, End date time: 12/10/2018 12:00 PM

There is one data gap in the period between 07/24/2018 12:00 AM and 09/04/2018 11:30 AM (incl.) due to the Carr fire in the summer of 2018.

1. 2019. Begin date time: 05/15/2019 10:30 AM, End date time: 12/31/2019 10:00 AM

Data collection is ongoing.

## Geographic location

Temperature profile data was collected upstream of Keswick Dam. Coordinates of the data collection point are 40.6139o,-122.4455o .

## Taxonomic species or groups

n/a

## Methods

HOBO Water Temperature Pro v2 Data Logger (<http://www.onsetcomp.com/products/data-loggers/u22-001>) Onset Computer Corporation. (See attached documentation for detailed methods).

## Data Table

**Table description:** This data table includesKeswick Reservoir temperature profile data above Keswick Dam that were collected seasonally over three years (2017-2019).

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Description | Unit or  code explanation or date format | Empty value code |
| Date\_Time | Date and time in every 30 minutes | mm/dd/yy hh:mm |  |
| Depth\_feet | Depth | Feet |  |
| Temperature\_Fahrenheit | Measured temperature | Degree Fahrenheit |  |
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## Articles

|  |  |  |
| --- | --- | --- |
| Article DOI or URL (DOI is preferred) | Article title | Journal title |
|  | Semmens, J, and M. Deas. 2020. Keswick Reservoir Water Temperature Profile: Thermistor Cable Deployment - 2019 Field Monitoring. Technical memorandum to G. Gotham and R. Fields, U.S. Bureau of Reclamation. February 12. 8 pp. |  |
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## Scripts/code (software)

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| --- | --- | --- |
| File name | Description | Scripting language |
| n/a |  |  |
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## Data provenance

This data set is from the data collected seasonally over three years (2017-2019). Missing data are during periods when (a) operations preclude deployment of temperature loggers in reservoir (winter high flows) and (b) emergency situation (summer 2018 Carr Fire). Data monitoring is currently being conducted for 2020 monitoring season.

|  |  |  |  |
| --- | --- | --- | --- |
| Dataset title | Dataset DOI or URL | Creator (name & email) | Contact (name & email) |
| Keswick Reservoir Temperature Profile Data (2017-2019) |  | Michael Deas  [Mike.Deas@watercourseinc.com](mailto:Mike.Deas@watercourseinc.com) | Michael Deas  [Mike.Deas@watercourseinc.com](mailto:Mike.Deas@watercourseinc.com) |
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## Notes and Comments

1. This document liberally borrows from similar documents at SBC and GCE [↑](#footnote-ref-1)