

## Data Set Citation

When using this data, please cite the data package

Carroll R and Williams K. 2019.

**Discharge data collected within the East River for the Lawrence Berkeley National Laboratory Watershed Function Science Focus Area (water years 2015-2018)**

ess-dive-7034d3c31810e39-20190228T212156303 (

<https://data.ess-dive.lbl.gov/catalog/metacat/ess-dive-7034d3c31810e39-20190228T212156303/default>)

### General Information

Title:	<b>Discharge data collected within the East River for the Lawrence Berkeley National Laboratory Watershed Function Science Focus Area (water years 2015-2018)</b>
Identifier:	autogen.2019030115520761240.1
Alternate Identifier:	<a href="http://dx.doi.org/10.21952/WTR/1495380">http://dx.doi.org/10.21952/WTR/1495380</a>
Abstract:	Discharge data collected at the East River in the Upper Colorado River Basin for the Lawrence Berkeley National Laboratory's Watershed Function Scientific Focus Area. Files contain instantaneous observed discharge data, corrected 10 min and mean daily discharge. Several sites also contain temperature and transducer depth. Please contact Rosemary Carroll if you have any questions or wish to access the raw data.
Keywords:	<p>CATEGORICAL:NONE:</p> <ul style="list-style-type: none"><li>◦ Stream Hydrology</li></ul> <p>VARIABLE:GCMD:</p> <ul style="list-style-type: none"><li>◦ EARTH SCIENCE &gt; SPECTRAL/ENGINEERING &gt; SENSOR CHARACTERISTICS &gt; GEOLOCATION</li><li>◦ EARTH SCIENCE &gt; TERRESTRIAL HYDROSPHERE &gt; SURFACE WATER &gt; SURFACE WATER PROCESSES/MEASUREMENTS &gt; DISCHARGE/FLOW &gt; AVERAGE FLOW</li><li>◦ EARTH SCIENCE &gt; TERRESTRIAL HYDROSPHERE &gt; SURFACE WATER &gt; SURFACE WATER PROCESSES/MEASUREMENTS &gt; DISCHARGE/FLOW</li><li>◦ EARTH SCIENCE &gt; TERRESTRIAL HYDROSPHERE &gt; WATER QUALITY/WATER CHEMISTRY &gt; WATER TEMPERATURE</li></ul> <p>CATEGORICAL:GCMD:</p> <ul style="list-style-type: none"><li>◦ EARTH SCIENCE &gt; TERRESTRIAL HYDROSPHERE &gt; SURFACE WATER</li></ul> <p>VARIABLE:NONE:</p> <ul style="list-style-type: none"><li>◦ Water Surface Elevation</li></ul>
Publication Date:	2019

### Data Table, Image, and Other Data Details:

Metadata download

[Ecological Metadata Language \(EML\) File](#)

#### Other Entity:

Name:	<b>EastRiver_2014-08_2016-10.zip</b>
Data Object Type:	application/x-zip-compressed

**Other Entity:**

Name:	<b>EastRiver_2017-10_2018-10.zip</b>
Data Object Type:	application/x-zip-compressed

**Other Entity:**

Name:	<b>locations_updated.kmz</b>
Data Object Type:	application/octet-stream

**Involved Parties****Data Set Creators**

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**Data Set Contacts**

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**Associated Parties**

Organization:	<b>U.S. DOE &gt; Office of Science &gt; Biological and Environmental Research (BER)</b>
Id:	<a href="http://dx.doi.org/10.13039/100006206">http://dx.doi.org/10.13039/100006206</a>

**Data Set Publishers**

Organization:	<b>Watershed Function SFA</b>
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**Data Set Characteristics****Geographic Region:**

Geographic Description:	The East River (ER) is a snow-dominated, headwater basin of the Upper Colorado River Basin (UCRB) located in the western United States. The ER is the designated testbed of Lawrence Berkeley National Laboratory's Watershed Function Scientific Focus Area (WFSFA). Through WFSFA, observational networks have been established to measure stream discharge and precipitation chemistry. The ER is considered representative of many snow-dominated headwaters of the Rocky Mountains. The study domain encompasses nearly 85 square km, a 1.4 km vertical drop in elevation (4,120 to 2,760 m) and pristine alpine, subalpine, montane, and riparian ecosystems. The ER contains high-energy mountain streams to low-energy meandering floodplains and is eroding primarily into the Cretaceous, carbon-rich, marine shale of the Mancos Formation.
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Bounding Coordinates:	West:	-107.05 degrees
	East:	-106.88 degrees
	North:	39.034 degrees
	South:	38.88 degrees

**Time Period:**

Begin:	2014-08-05
End:	2018-10-15

## Sampling, Processing and Quality Control Methods

**Step by Step Procedures****Step 1:**

Description: Instantaneous stream discharge measurements using a SonTek Flow Tracker® acoustic Doppler velocimeter were made at all stream locations to create depth-discharge relationships in conjunction with Solinst Levellogger Edge® pressure transducers corrected with barometric pressure. Correlation of daily flows with the USGS stream gauge East River at Almont (site ID. 09112500) located approximately 25 km downstream from the study site allowed correction of stream discharge at Pumphouse during iced periods in the winter, while other locations rely on linear interpolation between ice-free periods.

## Data Set Usage Rights

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