**Data Paper Survey**

**We have a survey link** [**here**](https://docs.google.com/forms/d/1pM1qCwCciowWfyv-z5caPxdJXxnLORxw0qLrhzSNmbs/edit)**!**

**Data Contributor Information:**

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**Lake Information:**

1. Lake name: China Lake
2. Country(ies) in which lake is found: USA
3. Geographic coordinates (latitude/longitude in dd):

|  |  |
| --- | --- |
| 44.4302452 | -69.54731476 |

1. Surface area (km2): 15.9
2. Maximum depth (m): 25.9
3. Mean depth (m): 8.5

Answers in red below from Matt Zetterman, the Kennebec Water District staff member who is currently responsible for reporting ice off data to the state, the China Lake Association reported ice off dates.

**Definitions:**

1. Definition of ice-on: NA
2. Definition of ice-off: Almost no visible ice remains on the lake. Lake is navigable.
3. Are different phases of freezing/melting documented? If so, which ones and how?: No
4. Are freeze/thaw events documented and how?: No

**Observations**

1. Where is the site of observation (point view or larger area)?

East Vassalboro boat launch

1. Which direction do you look? Where do you stand?

East. At the boat launch.

1. What time of day are observations made?

No specific time. Sometime between 6:30am and 3:00pm.

1. What do you make note of when collecting ice phenology data?

Date. Amount of ice remaining.

1. Which method of observation(s) was used in the past and which now? (i.e., visual/remote sensing/web camera)

Visual.

1. Is there a standard operating procedure (SOP) or other practices for observing ice-on/off dates? Could you please share them?

No SOP currently.

1. Are observers trained for observing? Is it subjective to a person?

No training. Yes.

1. Who is making the observations? Kennebec Water District Staff
2. Are historical archives (newspapers, etc) used in the data set? No

**Uncertainty and Metadata**

1. What are sources of uncertainty in the data?

Subjectiveness of the observer. Generally observed Mon-Fri.

1. Accuracy/uncertainty: e.g. 1-2 days? Can this be defined?

Factoring weekends, holidays, observer subjectivity, and not always making trips daily to the lake, I’d speculate we were accurate within 3-4 days during my tenure at the lake (2015-2019). Since we were conservative with the amount of ice present (or lack thereof) our reported date was probably never too early (e.g. if we reported April 20th, it’s possible ice out occurred on the 16th or 17th, but likely not the 21st).

1. Starting year of record: 1874
2. Number of missing years: 55

**History of Long-term Records**

1. Who started the record? China Lake Association
2. Why was the record started?
3. When did the documentation begin for how lake ice data was collected?
4. Have the procedures of collecting ice on/off dates always been the same or similar? If not, how have they changed?
5. Have you documented when changes in data collection occurred? Please describe.

There is documentation of the party responsible for reporting ice off data.

**Any other information:**