Nenana Ice Classic: Tanana River Ice Annual Breakup Dates, Version 2

USER GUIDE

How to Cite These Data

As a condition of using these data, you must include a citation:

Nenana Ice Classic. Edited by W. N. Meier and C. F. Dewes. 2020. *Nenana Ice Classic: Tanana River Ice Annual Breakup Dates, Version 2*. [Indicate subset used]. Boulder, Colorado USA. NASA National Snow and Ice Data Center Distributed Active Archive Center. https://doi.org/10.5067/CAQ58H42LQY2. [Date Accessed].

FOR QUESTIONS ABOUT THESE DATA, CONTACT NSIDC@NSIDC.ORG

FOR CURRENT INFORMATION, VISIT https://nsidc.org/data/NSIDC-0064

National Snow and Ice Data Center

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1 DATA DESCRIPTION

1.1 Parameters

The parameter provided by this data set is the date and time of when the ice in the Tanana River, at the town of Nenana, AK, broke up each spring. It is given in both standard date and time units and also in decimal day of the year, which represents both the day of the year and time of the day in the same record.

1.2 File Information

1.2.1 File Format & Contents

Data are provided in CSV format, in a single file where each row describes a year's ice breakup date and time. The five columns in the file indicate: (1) the year, (2) the decimal day of the year, (3) the month, (4) the day, and (5) the time at which the ice breakup occurred. Times provided in Alaskan Standard Time.

1.3 Spatial Information

The time series is representative of a single point on the Tanana River in Alaska, with coordinates 64.565 N and 149.093 W.

1.4 Temporal Information

1.4.1 Coverage

Data covers 1917 to present (updated annually)

1.4.2 Resolution

Annual

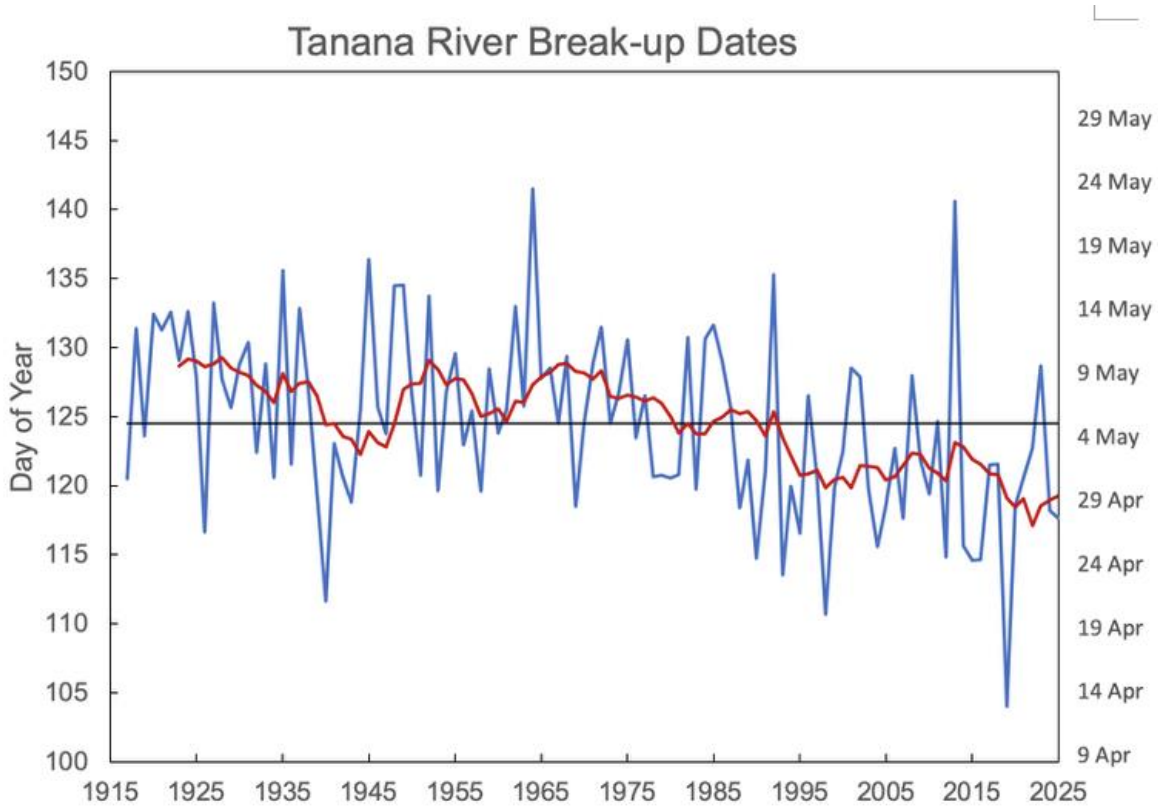

Figure 1. Time series of the Tanana River ice break-up dates for the period 1917–2024. The blue line represents the annual river ice break-up dates in day of year (left vertical axis), with the equivalent calendar date (illustrative of a leap year; subtract one day for non-leap years) shown on the right vertical axis. The red line illustrates the quasi-decadal trend, represented here by a 9-year moving average. The black line represents the mean river ice break-up date, which in this period is May 4.

2 VERSION HISTORY

Table 1. Version History

Version	Date	Version Changes
Version 1	August 1998	Initial release
Version 2	August 2020	Data file format was changed to CSV; errors in the computation of the fractional time of day were corrected.

3 REFERENCES

Official Nenana Ice Classic web site.

4 DOCUMENT INFORMATION

4.1 Publication Date

July 2020

4.2 Date Last Updated

May 2025