

Project Title: Old Weather

Program Office Sponsoring or Conducting this CSC Project: OAR/PSL and PMEL

Authority for this CSC Project: CCSA and WRFIA

Purpose of this CSC Project: This is an online weather data project that currently invites members of the public to assist in digitizing weather observations recorded in US logbooks dating from the mid-19th century onwards. OAR makes these data freely available in digital formats suitable for climate model assimilation, retrospective analysis (reanalysis), and other kinds of research. The performance of data-assimilating modeling and extended reanalysis systems is greatly improved, the uncertainty of results (especially in sparsely observed regions like the Arctic) is reduced, and new long-period calibration and validation data sets are being created. As the historical data resource is extended farther back in time, it will be possible to study a wider range of weather and climate phenomena and to better understand their impact on the Arctic and global environment, now and in the future.

Type(s) of Information Collected and From Whom It Is Collected: Voluntary participants in this project collect weather, ocean, and sea-ice observations recorded by mariners and scientists in historic ship's logs.

Use of the Information: This information will be used in climate model assimilation, retrospective analysis (reanalysis), and other kinds of research, which will reduce the uncertainty of results (especially in sparsely observed regions like the Arctic) and allow NOAA and others climate scientists to study a wider range of weather and climate phenomena and to better understand their impact on the Arctic and global environment, now and in the future.

Method(s) of Information Collection: Electronically

Affected Public: Individuals (those who voluntarily participate in this project)

Estimated Average Annual Number of Participants: 100

Estimated Average Annual Number of Responses per Participant: 60

Estimated Average Minutes per Response: 60

Estimated Average Annual Burden Hours: 6,000

Estimated Total Annual Cost to Participants in this CSC Project (This Includes Start-Up and Miscellaneous Costs Excluding Labor Costs): \$0

Estimated Average Annual Costs to the Federal Government: \$30,000

Estimated Average Annual Number of Federal Government Employees (FTEs): 0

Recruitment and Retention Methods for Voluntary Participants (SSA item 1): Participants are recruited primarily via NOAA social media posts.

Gifts or Payments (SSA Item 9): We do not plan to provide a gift or payment to the voluntary participants.

Annual and Multi-Year Schedules (SSA Item 16): This is an ongoing project with voluntary participants providing transcription of historic ship log data and OAR rapidly making those data freely available in digital formats throughout the year.

Display OMB Control No. and Expiration Date (SSA Item 17): This information will be provided when individuals sign up to participate in this CSC project.

Statistical Methods: This CSC project will not employ statistical methods.

Approval for Pretesting: This CSC project will not require additional pretesting with more than nine members of the public.

Supplemental Documents: There is one supplemental document for this CSC project. It includes promotional/recruitment information and registration screenshots.

CERTIFICATION: I certify the following are true.

1. The collection is voluntary.
2. The collection is low-burden for respondents and low-cost for the Federal Government.
3. The collection is non-controversial and does not raise issues of concern to other federal agencies.
4. The collection will not include highly influential scientific information, which is information NOAA or OMB determines: (i) could have a potential impact of more than \$500 million in any year, or (ii) is novel, controversial, or precedent setting or has significant interagency interest.
5. The collection complies with 5 CFR 1320.9 and the related provisions of 5 CFR 1320.8(b)(3).
6. The collection will provide qualitative and quantitative data that help inform scientific research and monitoring, validate models or tools, support STEM learning, and enhance the quantity and quality of data collected to support NOAA's mission.

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