1. DATA AND INFORMATION TYPES

A. Provide a contextual description of the data stream.

Community-based Observing Networks and Systems (CBONS) is a program administered by the Aleut International Association (AIA) that integrates an indigenous knowledge-based approach with technology to systematically observe and document Arctic environmental and globalization changes including vessel tracking, incursions, Arctic sea ice, and other ecological phenomena. It allows users with satellite phones to text locations, notes, and images to a map layer in real time.

B. How many station locations are there for this data stream?

N/A

C. What are the specific parameters of the data.

Parameters could include anything of interest to a local observer.

D. Provide information about the sampling platform or instrumentation.

The layer relies on human observers.

2. DATA PATHWAY

A. Is a data sharing agreement required?

The integration of CBONs information is made possible by an agreement with Aleut International Association (AIA) through the Arctic Domain Awareness Center, a Homeland Security initiative.

B. In which format(s) was data received by AOOS?

Data was received as multi-media texts from the originator.

C. How can the information be accessed?

The data are available through the AOOS data portal, where it can be explored through interactive visualizations. It is not made available for download.

D. What file formats will be used for sharing data, if different from original?

Data are shared only through visualization in the AOOS data portal. Data files are not available for download.

E. Describe how the data is ingested(e.g. the flow of data from source to AOOS data portals) and any transformations or modifications made to share data in the AOOS data portal.

Texts are sent from observers via satellite phones. These texts are routed through Twilio, which serves as an aggregated database and notification service. Information is parsed from

the Twilio database into a PostgreSQL database and visualized with custom JSON REST service (JAVA).

F. What metadata or contextual information is provided with the data?
Data are shared in the ADAC portal with a descriptive narrative and contact information for the program's managers.

G. Are there ethical restrictions to data sharing?
No

    a. **If so, how will these be resolved?**
      N/A

H. Who holds intellectual property rights (IPR) to the data?
Aleut International Association (AIA)

I. Describe any effect of IPR on data access.
None

3. DATA SOURCE AND QUALITY CONTROL

A. Indicate the data source type (i.e. Federal, Non-Federal, University, State Agency, Local Municipality, Military Establishment (branch), private industry, NGO, non-Profit, Citizen Science, Private individual)
NGO

    a. **If Federal data source, were changes applied to the data?**
      No

    b. **If Yes, describe any changes to the data that require documentation?**
      N/A

B. Indicate the data reporting type (e.g. real-time, historical).
Citizen Science

C. If real-time, list the QARTOD procedures that are currently applied.
Not required

D. If real-time, list the QARTOD procedures that are planned for implementation.
N/A

E. What is the status of the reported data? (e.g. raw, some QC, incomplete, delayed mode processed but not QC'd)
QC by originator

F. Describe the data control procedures that were applied by the originator.
Not required

    a. Provide a link to any documented procedures.
    N/A

G. Describe the data control procedures that were applied by AOOS.
Not required

    a. Provide a link to any documented procedures.
    N/A

H. List the procedures taken for data that could not be QC'd as directed.
N/A

4. STEWARDSHIP AND PRESERVATION POLICIES

A. Who is responsible for long-term data archiving?
Data are aggregated for visualization and exploration with other layers in the AOOS data portal. AOOS stores the real-time and historical data internally using the AOOS data servers. If the data provider chooses to archive these data at a national archive in the future, they may do it directly, or using the AOOS-facilitated pathway to NCEI.

B. Which long-term data storage facility will be used for preservation?
N/A

C. Describe any transformation necessary for data preservation.
N/A

D. List the metadata or other documentation that will be archived with the data.
N/A