The New Barrow Atmospheric Baseline Observatory

B. Vasel¹, C. Schultz¹, B. Thomas², A. Clarke³, S. Ingalls⁴, B. Blau⁵, and R. Edwards⁵

¹NOAA Earth System Research Laboratory, Global Monitoring Division (GMD), Boulder, CO 80305; 303-497-6655, E-mail: brian.vasel@noaa.gov
²NOAA Earth System Research Laboratory, Global Monitoring Division (GMD), Barrow Observatory, Utqiaġvik, AK 99723
³Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, CO 80309
⁴NOAA Office of the Chief Administrative Officer (OCAO), Project Planning and Management Division (PPMD), Seattle, WA 98115
⁵NOAA Acquisition and Grants Office (AGO), Western Acquisition Division (WAD), Boulder, CO 80305

The Barrow Atmospheric Baseline Observatory (BRW) is located in the Arctic on the northernmost point of the United States, approximately 8 km northeast of the village of Utqiaġvik.

NOAA’s long-term BRW facility is undergoing a major upgrade (2019–2020) that will significantly increase the site’s scientific capabilities and opportunity for collaboration:

- New state-of-the-art observatory with flexible laboratory space
  - ~1,000 sqft of NOAA laboratory space
  - ~275 sqft of collaborative project laboratory space
- Garage expansion
- New 30-meter instrument tower
- Campaign science deck sized to hold 20-ft sea containers

![Figure 1. BRW observatory and garage expansion footprint, overlaid on current facility for comparison. From 50% architectural design, April 2019.](image-url)