**QGreenland:** An open source GIS tool for discovery, teaching, and reuse

QGreenland, an NSF EarthCube-funded project, removes barriers to exploration and teaching with Greenland-related geospatial data.

QGreenland provides an **all-in-one download package** of interdisciplinary data about Greenland, which a user can explore by opening a single project file within QGIS, a free GIS platform. Data provides local detail to ice-sheet-wide information.

**QGreenland supports:** research planning, cross-disciplinary data discovery, creation of production quality maps and figures, teaching GIS skills, integrating independent Greenland data, offline in-field data viewing, advanced data analysis, and more.

## v1.0 is available now and ready to explore!



## QGreenland is a community tool

Phase 1 is complete. QGreenland phase 2 development will emphasize code workflow improvements so that users can more easily:

- Enhance QGreenland with data and/or code contributions
- Leverage QGreenland code for your own GIS project

Phase 2 includes developing more complete data contribution guidelines and tutorials for users to:

- Create QGreenland compatible data
- Ensure their data is easy to use and interpret

User surveys, interviews, and ongoing Editorial Board input will also inform phase 2 as we move towards QGreenland v2.0.



We are: developing teaching material to bring QGreenland into the classroom. Our first curriculum material will be designed for undergraduate students, with high school and graduate student resources to follow.



We are: providing beginner and intermediate workshops (workshops so far have been FULL), and custom training (e.g., 2021 summer REU program). Future tutorial material build-out will continue to make QGreenland easy-to-use, even for those who are brand new to GIS software.

## QGreenland.org github.com/nsidc/qgreenland · qgreenland.info@gmail.com



Greenland Ice Sheet Ocean Science

N.S.F. Polar Computing RCN



## Project Collaborations

De Nationale Geologiske Undersøgelser for Danmark og Grønland Dansmarks Tekniske Universitet Dansmarks Meteorologiske Institut Norsk Polarinstitutt Arctic Data Committee International Arctic Science Committee

WWF-Danmark Pinngortitaleriffik U.S. Polar Geospatial Center

er Greenland Ecosystem Monitoring

Network

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