

# Mapping Benefits from Updated Ifsar Data in Alaska— Improved Source Data Enables Better Maps

New, larger scale, higher resolution digital topographic maps for Alaska are key derived products from interferometric synthetic aperture radar (ifsar) data and other improved source data such as SPOT imagery.

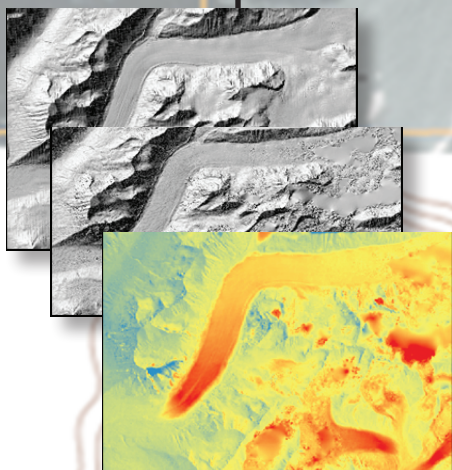




## Science Benefits from Updated Ifsar Data in Alaska

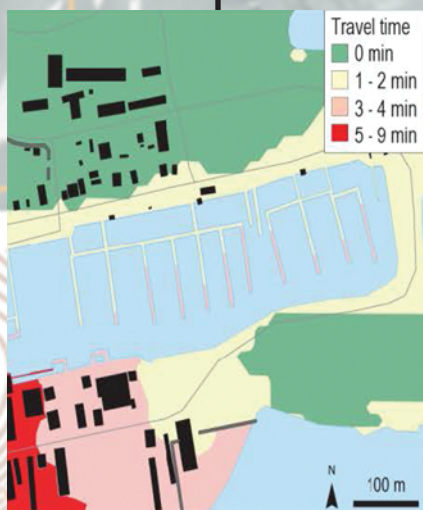
Multiple State and Federal agencies are collaborating to acquire new ifsar data for the State of Alaska. The digital mapping data products created from ifsar can be used for many, diverse scientific applications.

Glacier and runoff changes study for the Susitna-Watana Hydroelectric Project



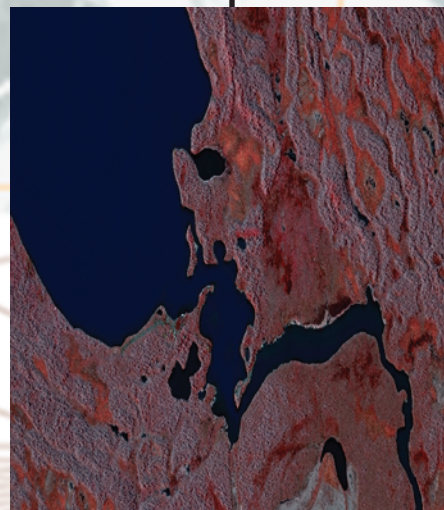
Glacier surface elevation difference map of the East Fork Glacier in the Central Alaska Range.

Tsunami risk assessment



Estimated evacuation times based on inundation area calculation.

Improved National Wetlands Inventory

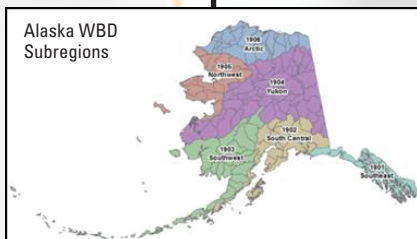


Ifsar fused with SPOT orthoimagery used to update the National Wetlands Inventory.

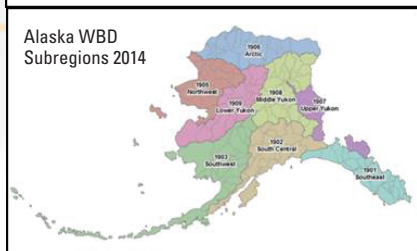
## Updating Water Information Using Ifsar Data in Alaska

One of the scientific applications of ifsar data is the ability to improve surface water information included in the National Hydrography Dataset (NHD) and Watershed Boundary Dataset (WBD).

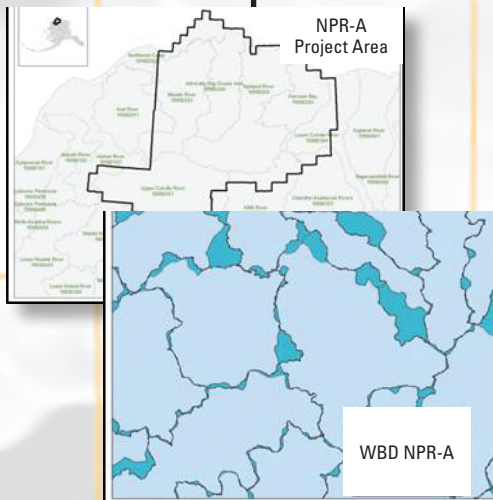
Refinement of WBD subregions using ifsar creates a more accurate representation of drainage areas.



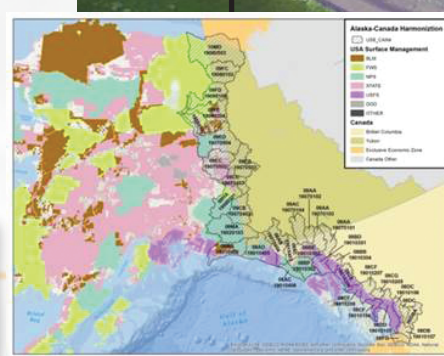
Alaska WBD Subregions 2014



Updated flowlines in NHD and WBD boundaries enable hydrologists to perform more accurate modeling and analysis.



Cross-border harmonization of the WBD with Canada allows for more seamless international water resource management.



For more information:

<http://nationalmap.gov/alaska/>

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