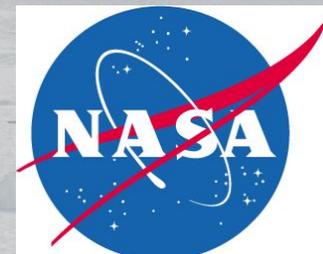


# GLIMS: Global Land Ice Measurements from Space

Quick Overview  
December 2019



# GLIMS History

2012: Randolph  
Glacier Inventory  
(RGI) created;  
complements  
GLIMS

GLIMS is the go-to place for  
glacier information  
world-wide

Early 2020: RGI  
snapshots  
generated from  
GLIMS

2005: Database  
goes live at  
NSIDC

Ingest of  
many  
regional  
inventories

1995: ASTER Science Team goal:  
Map glaciers with ASTER (tasking)

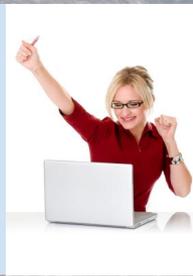
Formation of Regional  
Centers



# GLIMS Structure

## GLIMS Data Users

- Science Community
- Students
- Media



Other Web app creators use GLIMS Web services



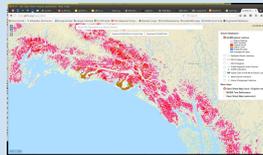
## GLIMS Data Producers

- GLIMS Regional Coordinators and colleagues
- Other researchers



© JAXA

## GLIMS Web Applications



Technology developed and maintained at NSIDC



## GLIMS Mapserver



## GLIMS Services



## Data QC and Ingest

## GLIMS Database



## Guidance from: GLIMS Core Team



B. Raup  
NSIDC,  
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A. Racoviteanu  
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Wales



F. Paul  
U. Zurich



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Planetary Sci Inst,  
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T. Bolch  
U. of St. Andrews,  
Scotland

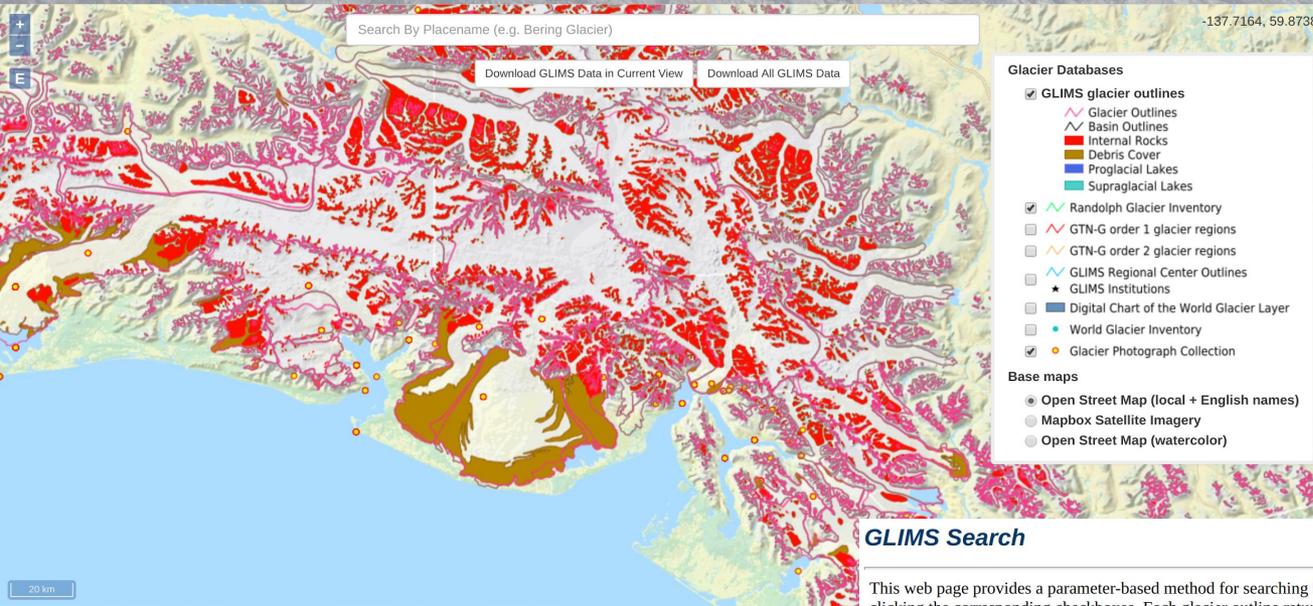


E. Berthier  
LEGOS,  
Toulouse, France

Further guidance from:  
Advisory Board for the Global  
Terrestrial Network for Glaciers  
(GTN-G): <https://www.gtn-g.ch/contact/>

# GLIMS data are available from the NSIDC DAAC

<http://glims.colorado.edu/glacierdata/>



The GLIMS Glacier Viewer (left) includes other glacier databases (e.g. Glacier Photo Collection) for reference

The parameter search interface (right) enables the user to search for glaciers by name, size, elevation, and other fields.

## GLIMS Search

This web page provides a parameter-based method for searching for data in the GLIMS Glacier Database. Indicate what fields you want to constrain by clicking the corresponding checkboxes. Each glacier outline returned in a result set can be viewed or downloaded individually, or the whole result set can be downloaded as a set. You have a choice of several download formats. Data under embargo cannot be downloaded.

SEARCH PARAMETERS:

Glacier Name	<input type="text"/>	Glacier ID	<input type="text"/>
Country	Select...		
Glacier Area	min: <input type="text"/> km <sup>2</sup> max: <input type="text"/> km <sup>2</sup>	Glacier Elev	min: <input type="text"/> m max: <input type="text"/> m
Glacier Length	min: <input type="text"/> m max: <input type="text"/> m	Glacier Width	min: <input type="text"/> m max: <input type="text"/> m
Analysis ID	<input type="text"/>	WGMS ID	<input type="text"/>
WGMS Classification	Select...		
Regional Center	Select...		
Name of Data Submitter	<input type="text"/>	Name of Analyst(s)	<input type="text"/>

Search Reset

# GLIMS summary stats as of December, 2019

Number of glacier outlines total	546300
Outlines ingest rate (last 4 years)	7529 / month, 90348 / year
Unique web users (IP addresses) since 2019-01-01	64538

## GLIMS Glacier Database Contents

