## MARCH 2023

## RESOLUTE BAY

BASED ON SCIENTIFIC RESEARCH LICENSES (2004-2019)







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## <sup>5</sup>طه L<sup>c</sup>ه Quanaqqutit

## Thank you Merçi

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For more information visit

## TABLE OF

# CONTENTS

RIGHTS AND	RESPONSIBILITIES	IN RESEARCH
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- 2 ABOUT THIS REPORT
- 3 RESEARCH IN AND AROUND RESOLUTE BAY
- 5 WHO IS DOING RESEARCH IN AND AROUND RESOLUTE BAY?
- 6 TYPE OF RESEARCH IN AND AROUND RESOLUTE BAY
- 7 TOP 10 RESEARCH TOPICS
- 8 RESEARCH METHODS
- 9 COMMUNITY ENGAGEMENT IN RESEARCH
- 10 RESEARCH REPORTING TOOLS
- 12 RESEARCH LICENSE REVIEW
- 13 RESEARCH TRENDS ACROSS NUNAVUT
- 16 UNDERSTANDING THE NUMBERS
- 17 RESOURCES

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Photo: Nunavut Research Institute (Iqaluit, Nunavut) by Jamal Shirley

# RIGHTS AND RESPONSIBILITIES IN RESEARCH

## Obtaining Information on Research Projects

All NRI license holders must provide a plain language summary of research activities completed each year. These summaries are published each year in the NRI compendia for research (see Resources p. 17). These annual summary reports are available in English and Inuktitut, and for some locations in Inuinnagtun. They are meant to provide a snapshot of research fieldwork including when, how, and by whom, and what information was collected. To obtain summary reports for any research projects conducted in or near your community or region please contact the NRI Manager, Research Liaison (see contact information below).

## **Researchers' Ethical Obligations**

Nunavummiut must be treated with fairness and respect. Researchers are required to abide by the laws of each community and to follow ethical principles and codes of conduct (see Resources p. 17). Researchers are expected to engage in culturally appropriate behaviour following local protocols. Researchers are responsible for learning what is respectful and responsible in the local context, as each community is different.

# Important information for Nunavummiut

#### **Your Rights in Research**

Remember, you always have the right to refuse to participate in a research project even if your community has approved the research. Researchers must obtain your informed consent before they ask you any questions, and they must always respect your privacy and confidentiality.

It is against the law to conduct research in Nunavut without a license. Researchers must follow the terms and conditions in their research licenses and ensure their work does not cause harm or disruption to the community or to wildlife and the environment. Research licenses can be suspended or revoked, and a researcher may face fines or other penalties, when there is documented proof that research is causing harm.

If you have concerns that a researcher working in your community has not secured your informed consent, or may be causing harm or disruption, please **contact the**Nunavut Science Advisor (see contact below).

#### Manager, Research Liaison

researchlicenses@arcticcollege.com

(867) 979-7279

#### Nunavut Science Advisor

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(867) 979-7290

# ABOUT THIS REPORT

## About the Nunavut Research Institute (NRI)

The NRI has been responsible for developing, facilitating, and promoting scientific research in Nunavut since 1994. The NRI works to ensure that research is a resource for the wellbeing of Nunavummiut (people of Nunavut).

#### Scientific Research Licenses

The NRI administers scientific research licensing under Nunavut's Scientists Act. The Scientists Act only applies to research in the Physical and Natural Sciences (P), Health Sciences (H), and Social Sciences and Traditional Knowledge (SS), which is about 60% of all research that happens in

**Nunavut**. Research on archaeology, parks, and wildlife (including all terrestrial and aquatic animals, plants, birds, and fish) is licensed under different legislation and is not included in this report.

The NRI's Scientific Research
Licensing Guidelines (see Resources,
p. 17) provide information about the
types of permits required for research
in Nunavut, and how to apply for an
NRI Scientific Research License in each
discipline.

# Did you know that the NRI only licenses about 60% of research happening in Nunavut?

#### Why we created this report

The goal of this report is to help Nunavummiut learn about who is doing research, what they are studying, and where. This report was developed by analyzing research summaries from NRI license applications. To learn more about the numbers presented in this report, see Understanding the Numbers (p. 16). This work is part of the NRI's ongoing efforts to:

- 1. improve Inuit engagement in research;
- 2.make research results more accessible to Nunavummiut:
- 3. reduce community research fatigue; and,
- 4. encourage research that addresses Inuit priorities.

#### **Other Research Permits**

Even when researchers have a license, they might require other approvals to conduct their project. Other approvals are usually required for fieldwork, depending on the location and type of research activity. Examples of other authorizations a researcher may need include:

- Review by the Nunavut Planning Commission (NPC) - for all land and water based activities;
- Screening by the Nunavut Impact Review Board (NIRB) - environmental impact screening;
- Authorization from the Nunavut Water Board (NWB) - to use water or deposit waste in the environment;
- Approval from Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) - to use Federal Crown Lands in Nunavut for research purposes; and,
- Approval from a Regional Inuit Association (RIA) - to access or use Inuit Owned Lands for research purposes.

RESEARCH IN AND AROUND RESOLUTE BAY (2004-2019)

510

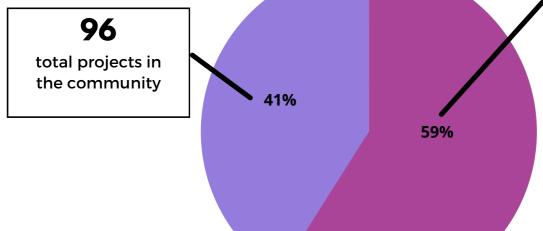
TOTAL LICENSES
CONNECTED TO
RESOLUTE BAY

234

TOTAL PROJECTS
CONNECTED TO
RESOLUTE BAY

## WHERE RESEARCH IS HAPPENING

A research license is required for each year that a research project takes place in Nunavut. Projects that are conducted for longer than one year can receive a multi-year research license, and this must be renewed at the end of each year.



**138** 

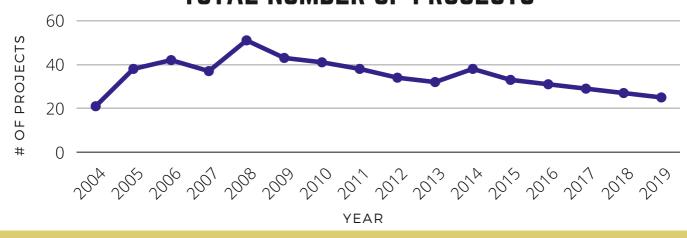
total projects occurring at field locations outside the community (but reviewed by Resolute Bay)

In this report, **research license** numbers
represent the individual
license issued each year.

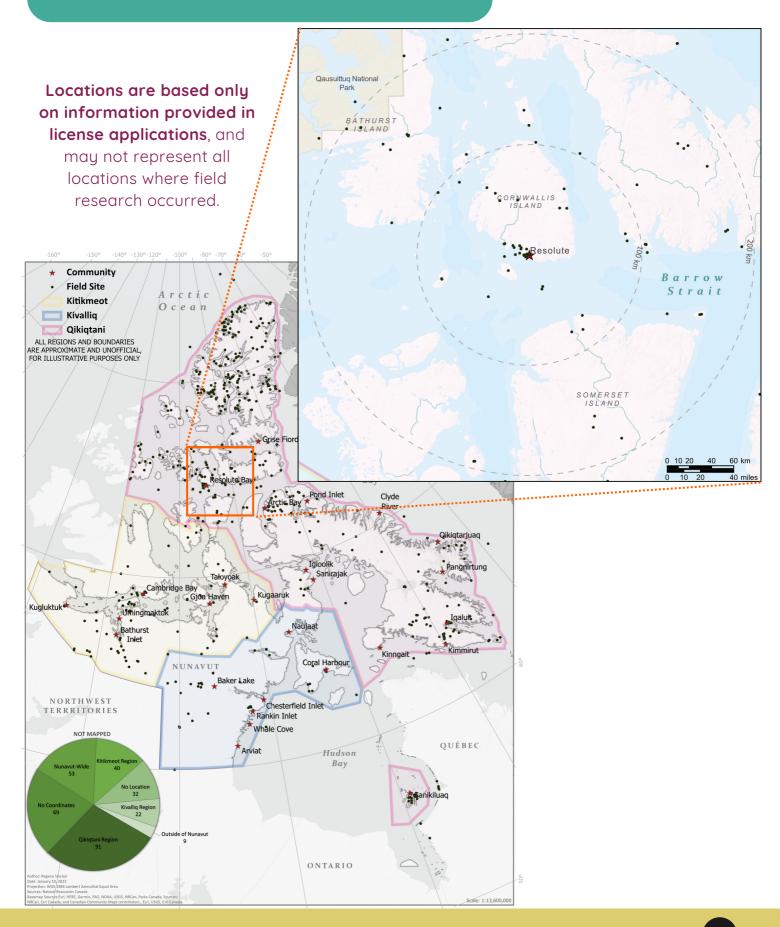
#### Research project

numbers represent an individual project (which may hold several licenses over multiple years).

## TOTAL NUMBER OF PROJECTS



## **RESEARCH LOCATIONS**



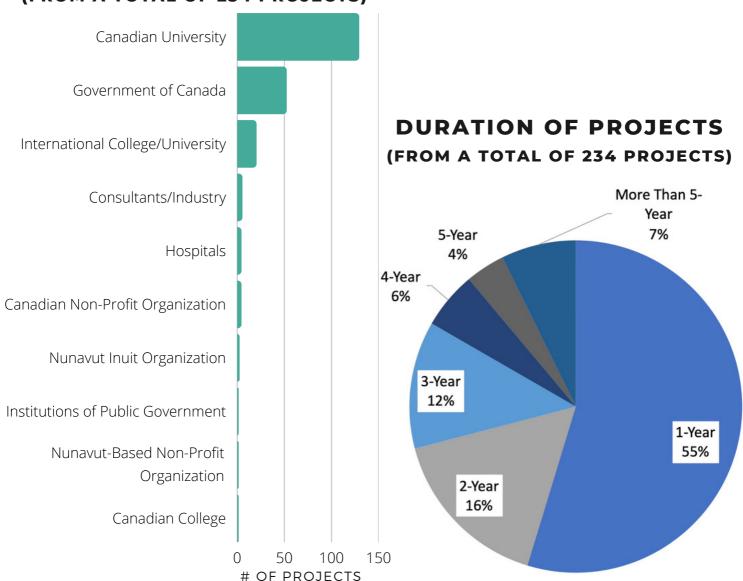
# WHO IS DOING RESEARCH IN AND AROUND RESOLUTE BAY?

A **Principal Investigator (PI)** is the lead researcher on a project. The PI takes responsibility for submitting the license application, and making sure that the proposal is followed or adjusted as needed. The PI often lists other **research team members** in their application. However, numbers shown here only represent the affiliation of the PI.

## PRINCIPAL INVESTIGATOR AFFILIATION (FROM A TOTAL OF 234 PROJECTS)

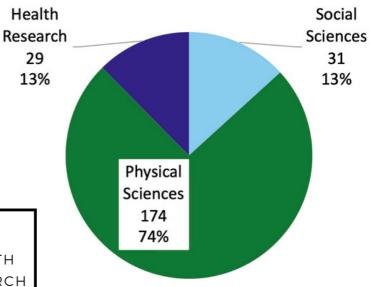
8

NUNAVUT-BASED PRINCIPAL INVESTIGATORS



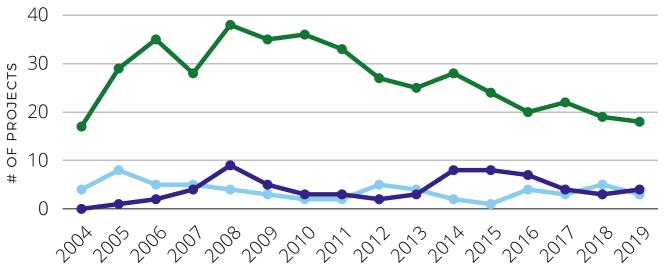
# TYPE OF RESEARCH IN AND AROUND RESOLUTE BAY

## DISTRIBUTION OF ALL PROJECTS BY DISCIPLINE



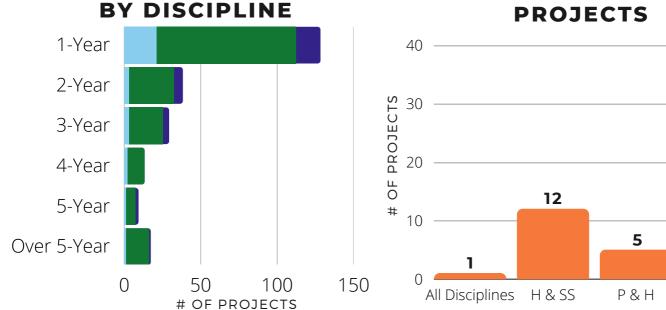
SOCIAL SCIENCES PHYSICAL AND HEALTH
AND TRADITIONAL NATURAL RESEARCH
KNOWLEDGE (SS) SCIENCES (P) (H)

#### PROJECTS OVER TIME BY DISCIPLINE



## **DURATION OF PROJECTS**

## INTERDISCIPLINARY PROJECTS



P & SS

**33** 

## TOP 10 RESEARCH TOPICS



**Research topics** refer to the focus of a research project.

TOTAL	# of Projects	
1. Climate Change	63	
2. Marine (ocean, coastal areas, sea	58	
ice)		
3. Climate & Weather	25	
4. Air & Atmosphere	16	
5. Wildlife*	16	
6. Lands & Landforms	15	
7. Ecosystems	15	
8. Inuit Qaujimajatuqangit	13	
9. <b>Fish*</b>	13	
10. <b>Culture and Society</b>	12	
11. <b>Education</b>	12	

SOCIAL TOPICS	# of Projects
1.Inuit Qaujimajatuqangit	13
2. Culture and Society	12
3.Education	12
4. Policy and Governance	8
5. Land Use and Traditional Activities	4
6.Sovereignty and Self-Determination	3
7. History	3
8. Economy	2
9.Arts	2
10.Colonization Impacts	2

LAND & WATER TOPICS	# of Projects	HEALTH TOPICS	# of Projects
1. Climate Change	63	1. Clinical & Medical Research	7
2. Marine (ocean, coastal areas, sea ice)	58	2. Health Practitioners & Workers &	7
3. Climate & Weather	25	Learners	
4. Air & Atmosphere	16	3. Wellbeing	5
5. Wildlife*	16	4. Epidemiology	4
6. Ecosystems	15	5. Health Systems & Monitoring	4
7. Lands & Landforms	15	6. Public Health & Health Promotion	3
8. Fish*	13	7. Environmental Health	2
9. Plants*	11	8. Health Services	2
10. Freshwater (lakes, rivers, streams)	8	9. Professional Training & Accountability	1
		10. Population Health	1

## RESEARCH METHODS

Numbers shown on p. 8-9 only represent the research methods and reporting tools that were described in license applications (not all licenses included this information).

## **TOP 10 RESEARCH METHODS**

	# 01
	Projects
1. Water Sampling	32
2. Sediment Sampling	27
3. Surveys	23
4. Rock Sampling	22
5. Interviews	21
6. Core Sampling	21
7. Ground Truthing for Remote	16
Sensing or Aerial Surveys	
8. Vegetation Sampling	15
9. Environmental Photography	13
10. Environmental Observation	13

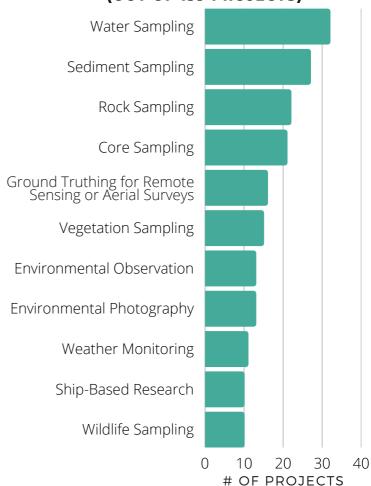
## TOP 10 SOCIAL & HEALTH RESEARCH METHODS

(OUT OF 83 PROJECTS)



## TOP 10 LAND & WATER RESEARCH METHODS

(OUT OF 139 PROJECTS)



# COMMUNITY ENGAGEMENT IN RESEARCH

PROJECTS WITH NUNAVUT ARCTIC

COLLEGE INVOLVEMENT

31

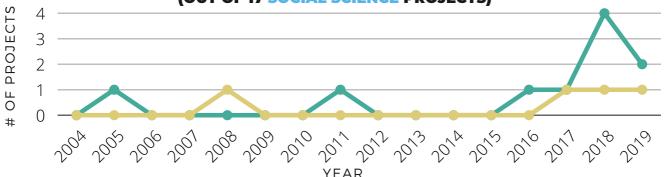
**Community-connected projects** are those that
involve community members
in some capacity, for
example, as local guides,
translators, or data providers.

17

Community-partnered projects involve a research partnership between a Principal Investigator and community members or organizations where the community plays an active role in all parts of the research.

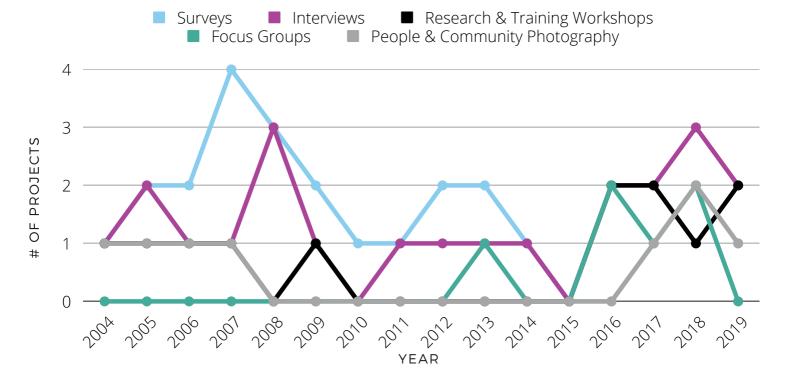
## COMMUNITY ENGAGEMENT

**(OUT OF 17 SOCIAL SCIENCE PROJECTS)** 



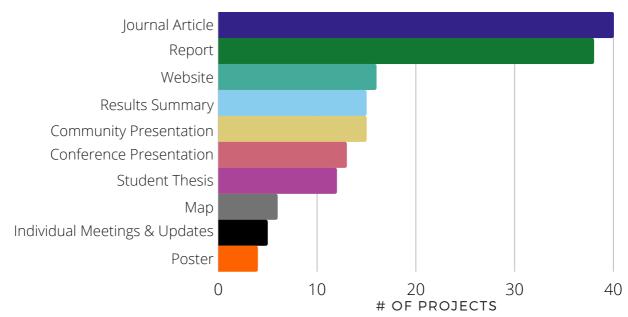
## **SOCIAL RESEARCH METHODS**

**(OUT OF 17 SOCIAL SCIENCE PROJECTS)** 



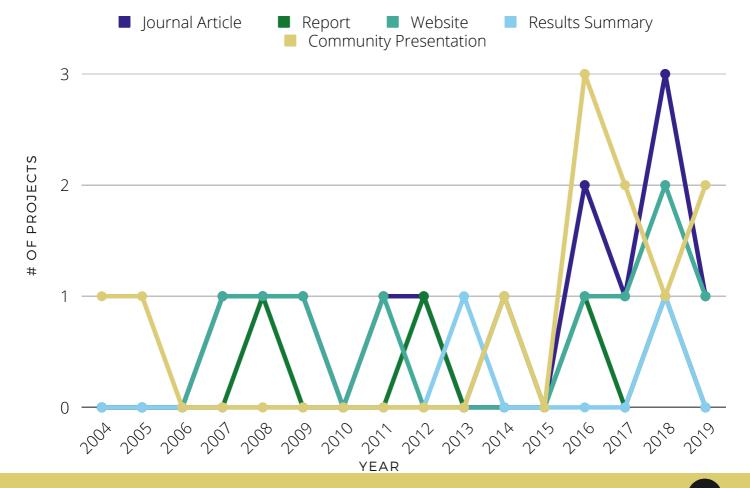
## RESEARCH REPORTING TOOLS

## TOP 10 REPORTING TOOLS (OUT OF 90 PROJECTS)

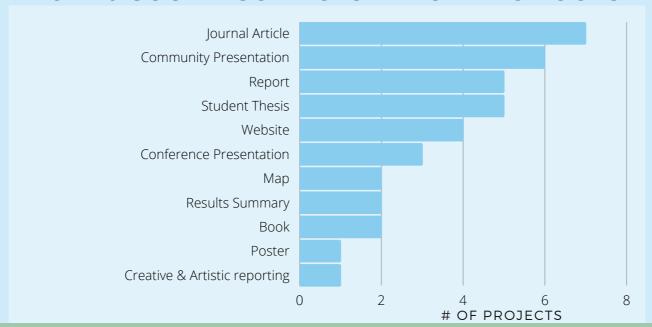


#### **TOP 5 REPORTING TOOLS OVER TIME**

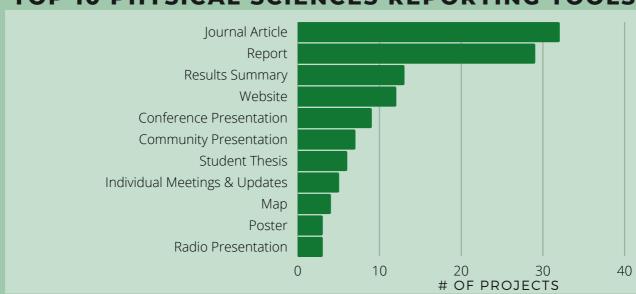
**(OUT OF 17 SOCIAL SCIENCE PROJECTS)** 



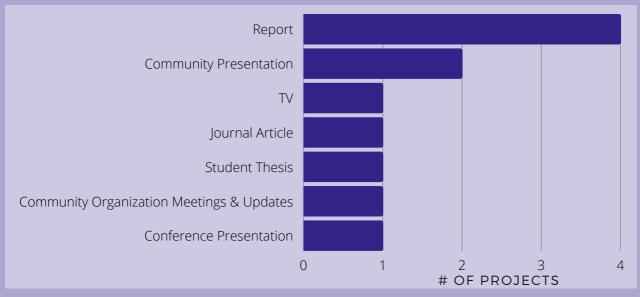
#### **TOP 10 SOCIAL SCIENCES REPORTING TOOLS**



## **TOP 10 PHYSICAL SCIENCES REPORTING TOOLS**



#### **TOP 10 HEALTH RESEARCH REPORTING TOOLS**



## RESEARCH LICENSE REVIEW

TOTAL
NUMBER OF
PROJECTS:

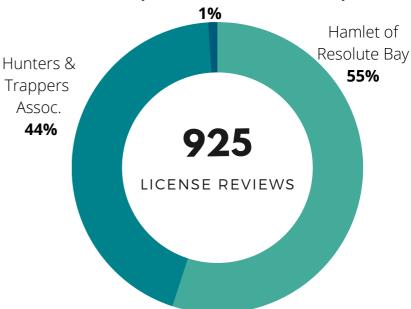
TOTAL
NUMBER OF
LICENSES:

234

510

## LICENSE REVIEW BY COMMUNITY ORGANIZATION

Resolute Bay District Education Authority\*

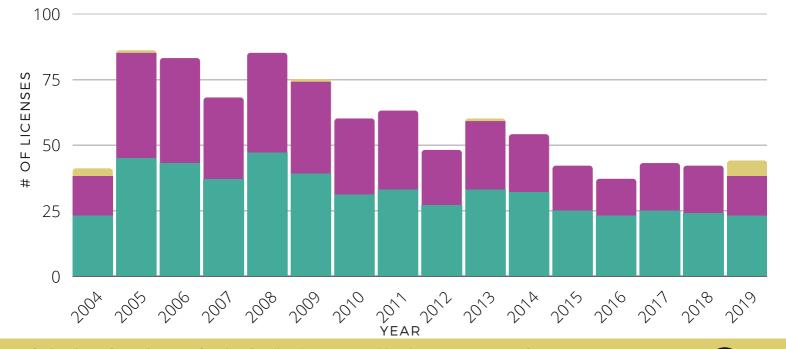


Review numbers only represent local community organizations that received research license applications to review.

The Government of Nunavut, Nunavut Tunngavik Incorporated, Regional Inuit Organizations, Institutes of Public Government, the Government of Canada, and Non-Governmental Organizations also review research licenses. These could not be easily associated with communities and so are included in regional numbers (p. 13) and the Nunavut-wide report.

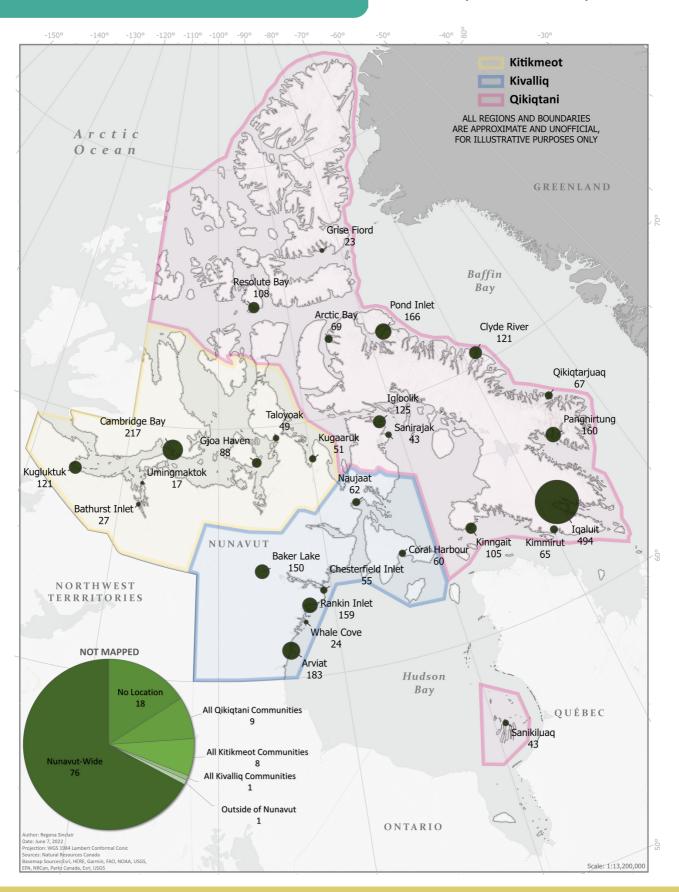
## TOTAL LICENSES REVIEWED BY COMMUNITY ORGANIZATIONS

- Hamlet of Resolute Bay (Qausuittug)
- Resolute Bay Hunters and Trappers Association
- Resolute Bay District Education Authority\*



# RESEARCH TRENDS ACROSS NUNAVUT

Intensity of research in Nunavut communities (2004-2019)

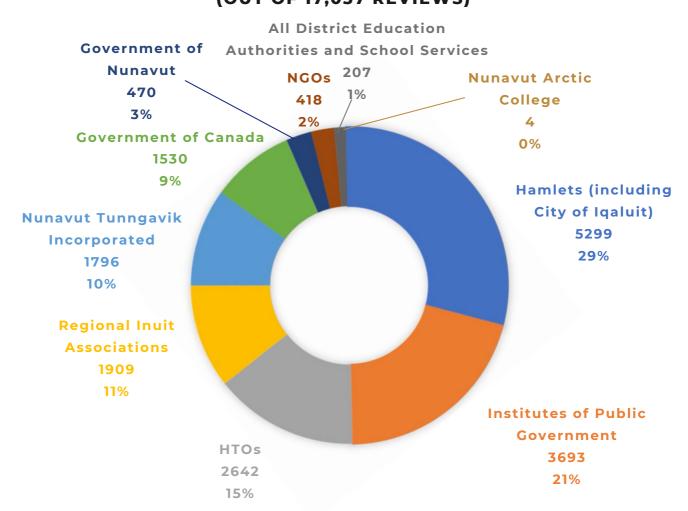


#### **TOTAL LICENSES BY REGION**

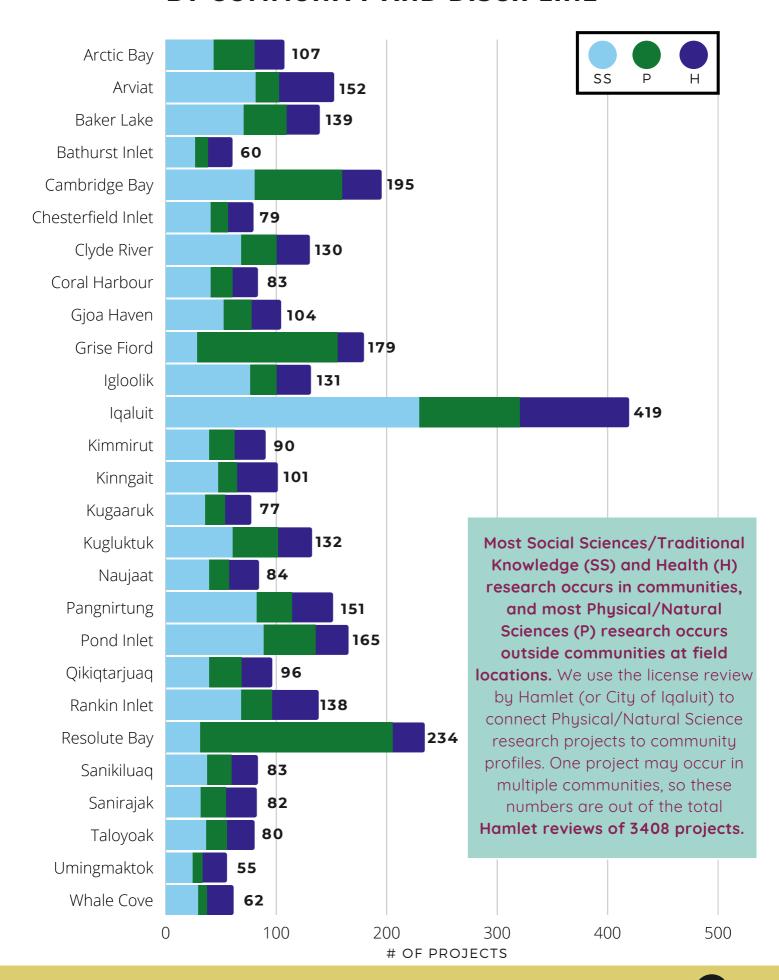




## LICENSE REVIEW BY ORGANIZATION TYPE (OUT OF 17,037 REVIEWS)



## TOTAL NUMBER OF PROJECTS BY COMMUNITY AND DISCIPLINE



# UNDERSTANDING THE NUMBERS

The information we used to create this report is explained here, to help understand some of the limitations.

### **Analysis of License Applications**

The research numbers and trends shown in this report are based on the analysis of Scientific Research License Applications. If a full application was not available, the research summary from the NRI annual compendium was used. This means that the analysis only reflects what a researcher proposed when first applying for their license.

The numbers do not reflect any final changes or adjustments that a researcher made when actually carrying out the project.

## **Types of Research**

The research numbers and trends shown in this report only represent about 60% of the research that happens in Nunavut. This includes research in the Physical and Natural Sciences (P), Health Sciences (H), and Social Sciences and Traditional Knowledge (SS). Other kinds of research have a separate permitting process, and are not included in this report (see About this Report, p. 2).

#### **Nunavut-led Research**

Some scientific activities led by government agencies, Inuit organizations, and by individual Nunavummiut do not require licensing under the Scientists Act. For this reason, the number of Nunavut-led research activities is likely under-represented in the report. Refer to the NRI's Scientific Research Licensing Guidelines for a list of research activities that are currently exempt from licensing (see Resources p. 17).

#### **Research Topics**

For each project we reviewed the summary available in the license application, or annual compendium, to identify all topics relevant to the research (p. 7). This helped to identify the range of research topics covered in Nunavut, as well as to develop keywords that can be used to search research projects in the future.

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## **RESOURCES**

## Interested in learning more?

## **NRI Licensing Information**

## (https://www.nri.nu.ca/)

- Scientific Research Licensing Guidelines
- Compendiums of Research Licensed under the Scientists Act (since 1997)
- Health Research in Nunavut: Special Considerations for Remote Data Collection
- Scientific Research Licensing: Frequently Asked Questions

## **Inuit Tapiriit Kanatami**

## Resources (https://www.itk.ca/)

- National Inuit Strategy on Research (NISR)
- NISR Implementation Plan
- Negotiating Research Relationships: A Guide for Communities
- Negotiating Research Relationships with Inuit Communities: A Guide for Researchers

## **Nunavut Research Organizations**

- Aggiumavvik Society (Arviat)
- Arctic Eider Society (Sanikiluaq)
- ArcticConnexion (multiple communities)
- <u>Ikaarvik</u> (multiple communities)
- Ittag Heritage and Research Centre (Clyde River)
- Kitikmeot Heritage Society (Cambridge Bay)
- Nattilik Heritage Society (Gjoa Haven)
- Qaujigiartiit Health Research Centre (Igaluit)
- Researchers are also encouraged to reach out to the Regional Inuit Association, Hamlet Office, Hunters and Trappers Association, Visitor's Centre, and other organizations in each community you work in, to get recommendations on important local research groups and initiatives.

#### **Research Ethics and Guidelines**

- Examples of Inuit-centred research frameworks
- Ethical Principles for the Conduct of Research in the North
- Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans

