

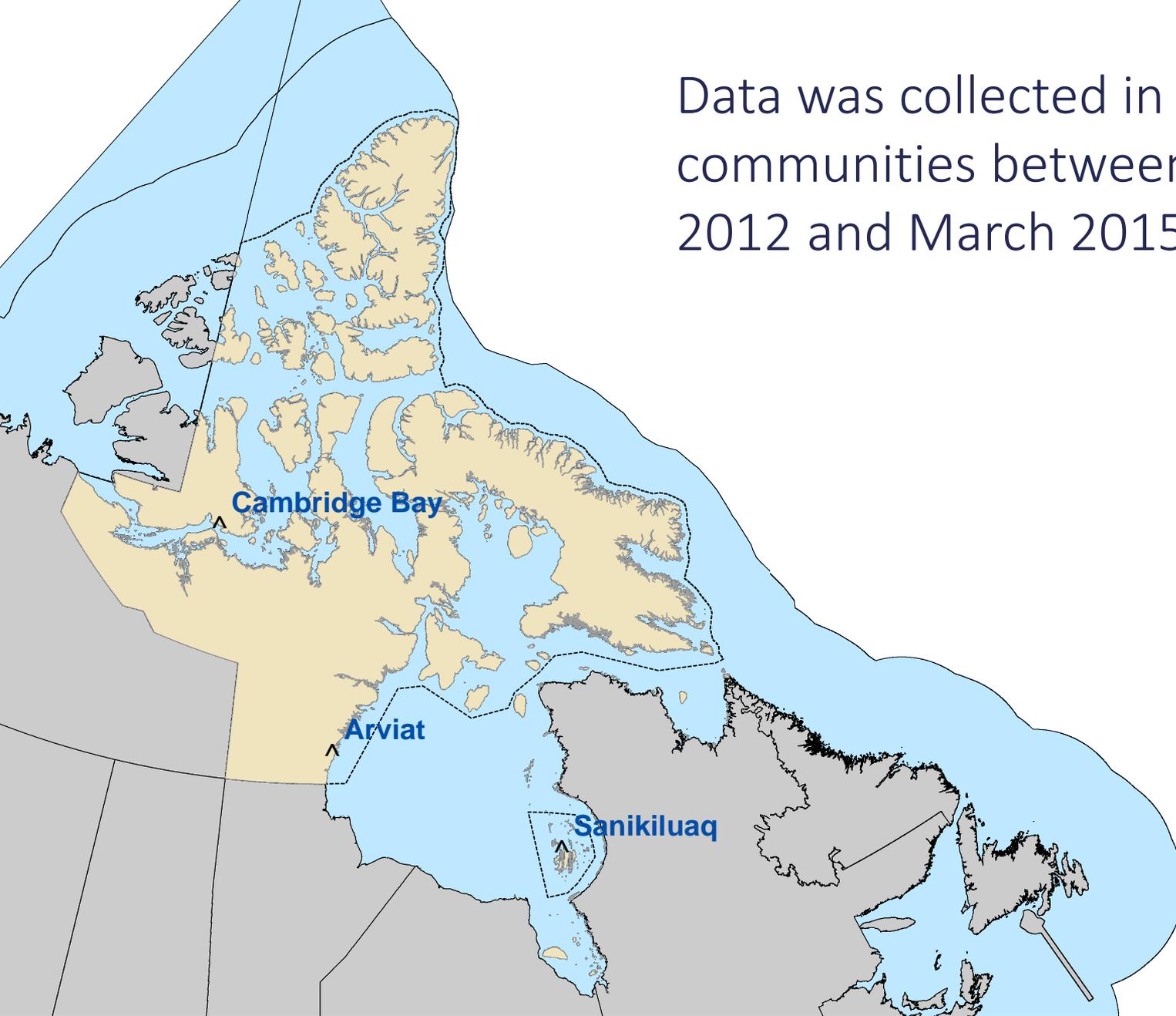


Community- Based Monitoring Network

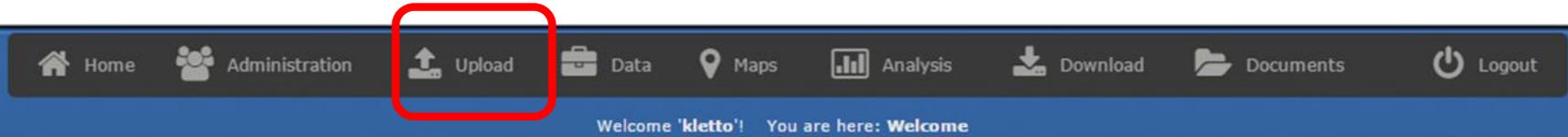
K. LETTO*, S. SPENCER, J. PAMEOLIK & R. JEPPESEN
NUNAVUT WILDLIFE MANAGEMENT BOARD



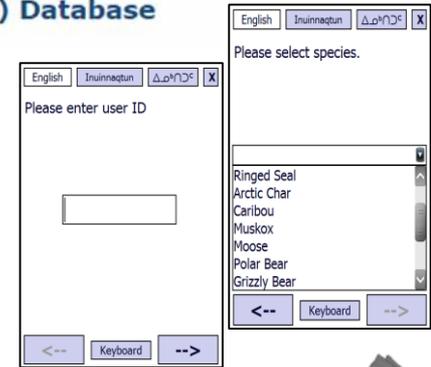
Data was collected in three communities between February 2012 and March 2015



Overview of the CBMN



Welcome to the Community-Based Monitoring Network (CBMN) Database



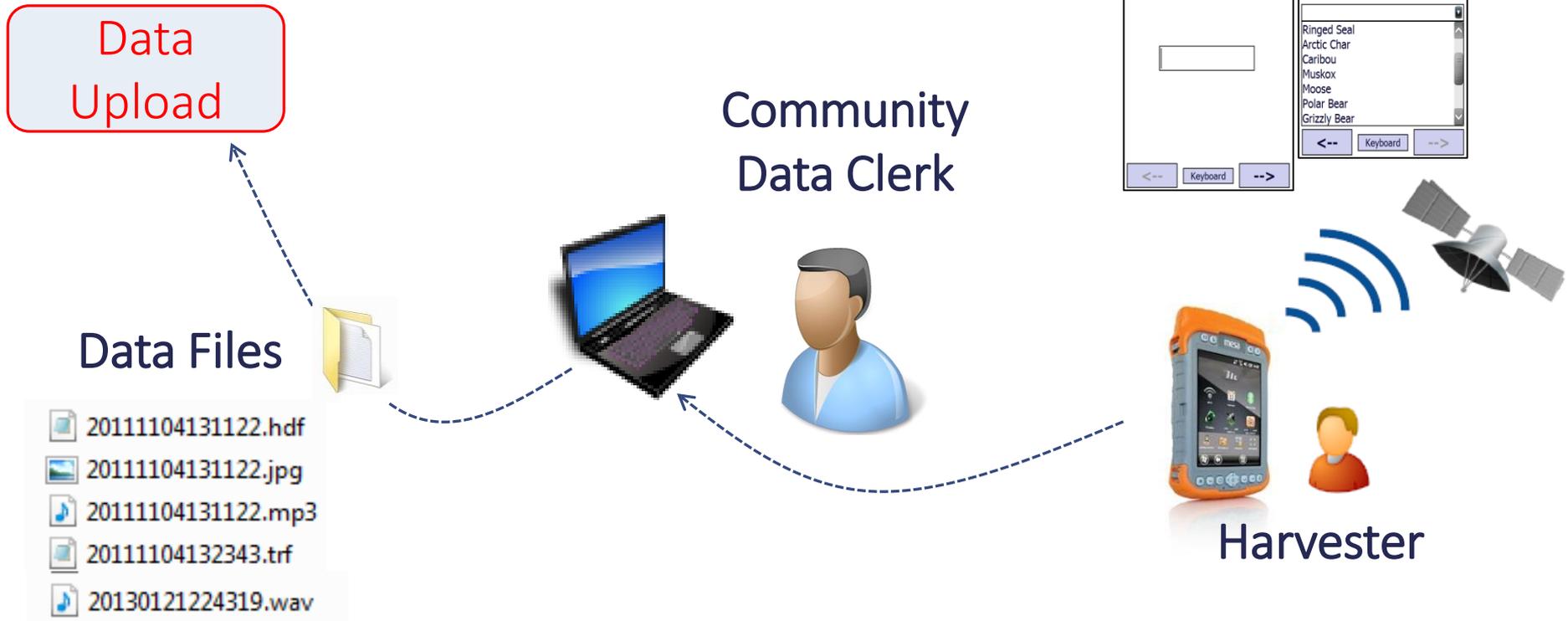
Data Upload

Community Data Clerk

Data Files

- 20111104131122.hdf
- 20111104131122.jpg
- 20111104131122.mp3
- 20111104132343.trf
- 20130121224319.wav

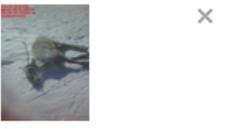
Harvester



Online Secure Database

Welcome 'kletto!' You are here: [Data](#) > [Trips](#)

ID	Community & Harvester			Time					Trip			Data		Actions		
	Trip	Arviat	Harvester...	User	Upload	Apr 2014	Start	End	Time	Transport...	D	WP	Info		H	O
4347	Arviat	Arviat			28th. 12:33	Apr 2014	18th. 19:34	18th. 22:47	3hrs	Snowmobile	20.73	108		0	0	
4348	Arviat													0	1	
4351	Arviat													0	1	
4352	Arviat													0	0	
4353	Arviat													3	0	
4356	Arviat													3	1	
4357	Arviat													0	0	
4358	Arviat													10	0	
4359	Arviat													2	0	
4361	Arviat													2	1	
4362	Arviat													0	0	
4363	Arviat													0	0	
4364	Arviat													0	0	
4365	Arviat													0	0	
4366	Arviat													1	0	
4367	Arviat													0	0	
4369	Arviat													0	1	
4370	Arviat													0	1	
4371	Arviat													0	0	
4373	Arviat													1	0	
4374	Arviat													1	0	
4375	Arviat													0	0	
4376	Arviat													0	0	
4377	Arviat													0	0	
4378	Arviat													2	0	
4379	Arviat													3	0	
4381	Arviat													1	0	
4382	Arviat													0	0	

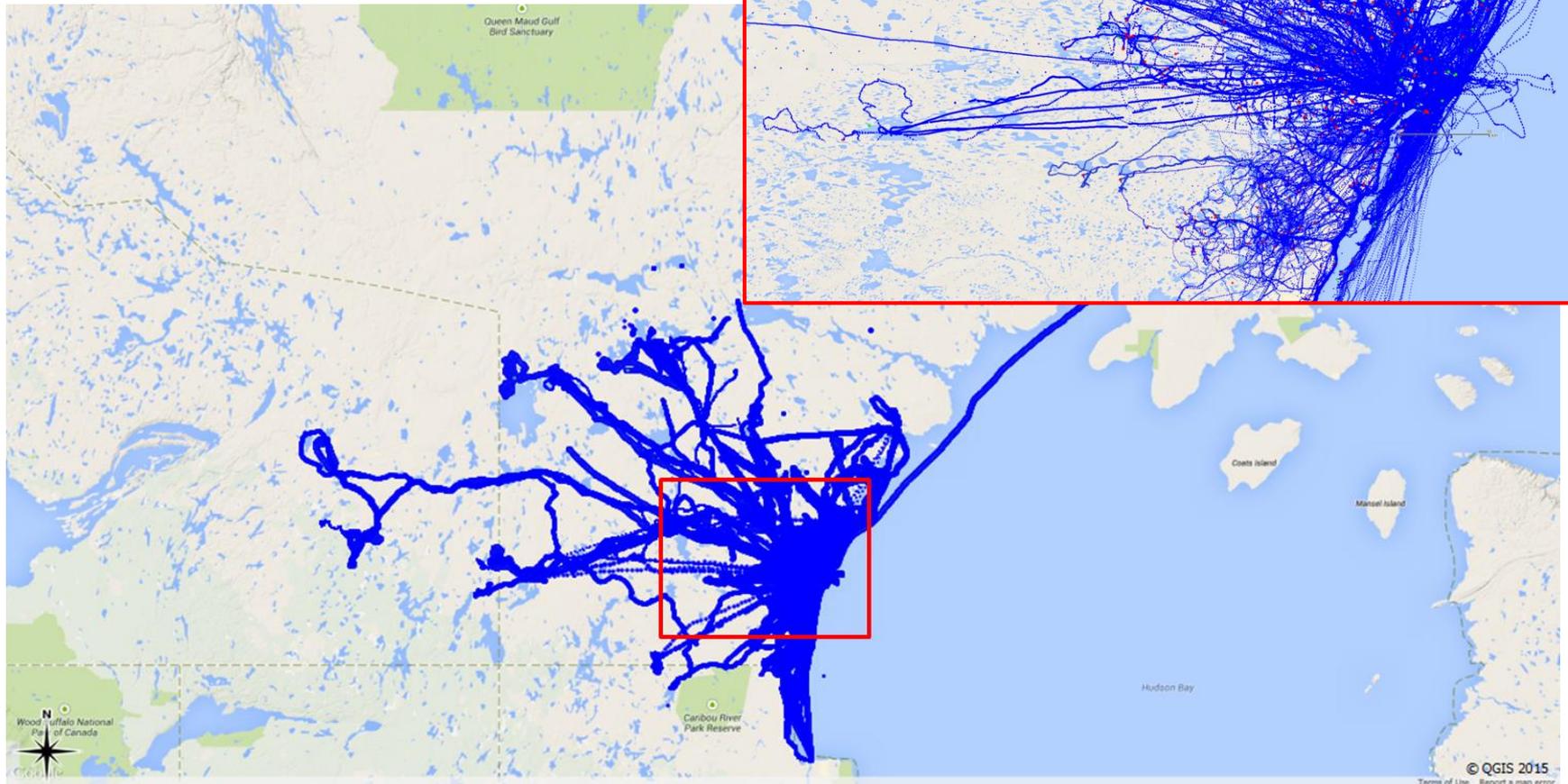
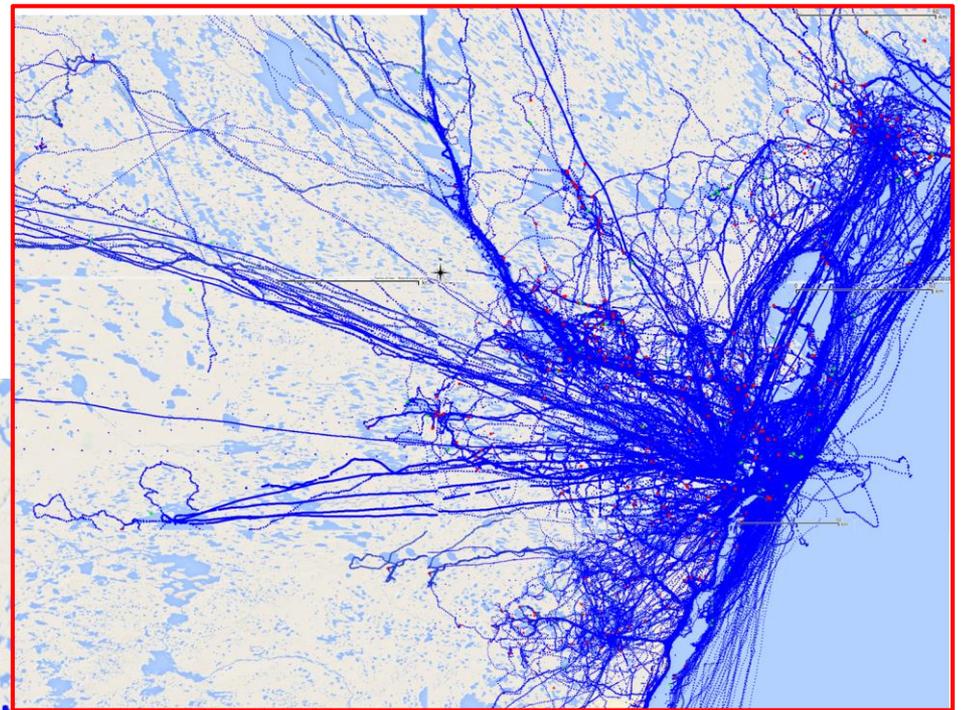


January 2012 – March 2015

Waypoints: 2,124,263

Harvest Records: 5,379

Observation Records: 2,239



Data Utility

- Documentation of Inuit Qaujimagatuqangit / TEK
- Early detection of parasites or disease
- Species range expansion
- Spatial and temporal patterns of harvesting
- Identification of habitat and traditional hunting areas
- Identification of important travel routes
- Struck and lost rates
- Bycatch
- Hunter effort data

Community Perspective

“Getting information for the community is what we need. It's something that should have been done long before”

“We are making a difference because the information collected comes right from the hunter”

“I'm glad to share my knowledge about wildlife”

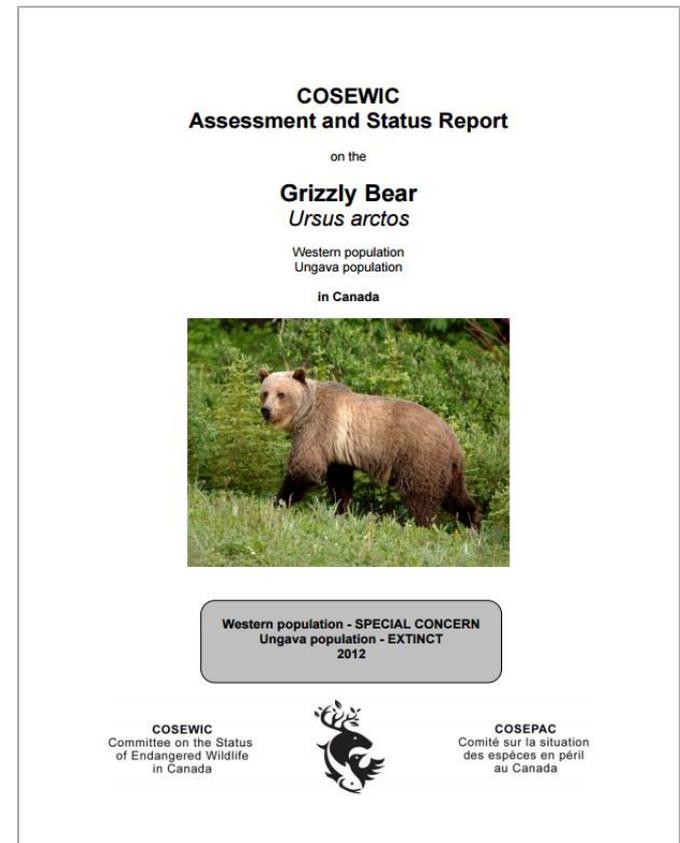
“Our participation in the study will help to improve the understanding about the wildlife”

“It is amazing how one thing can make a difference to the community and for the future of hunters”

CASE STUDY:

Grizzly Bear as a Species at Risk

- Assessment of the utility of the CBMN data in making wildlife management decisions
- Environment Canada request for NWMB decision in July 2013



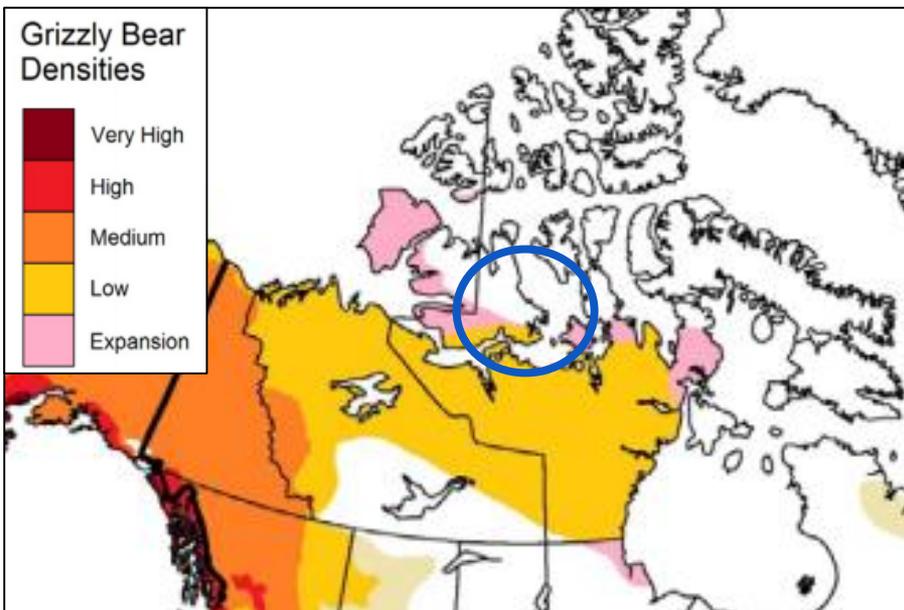
CASE STUDY:

Grizzly Bear as a Species at Risk

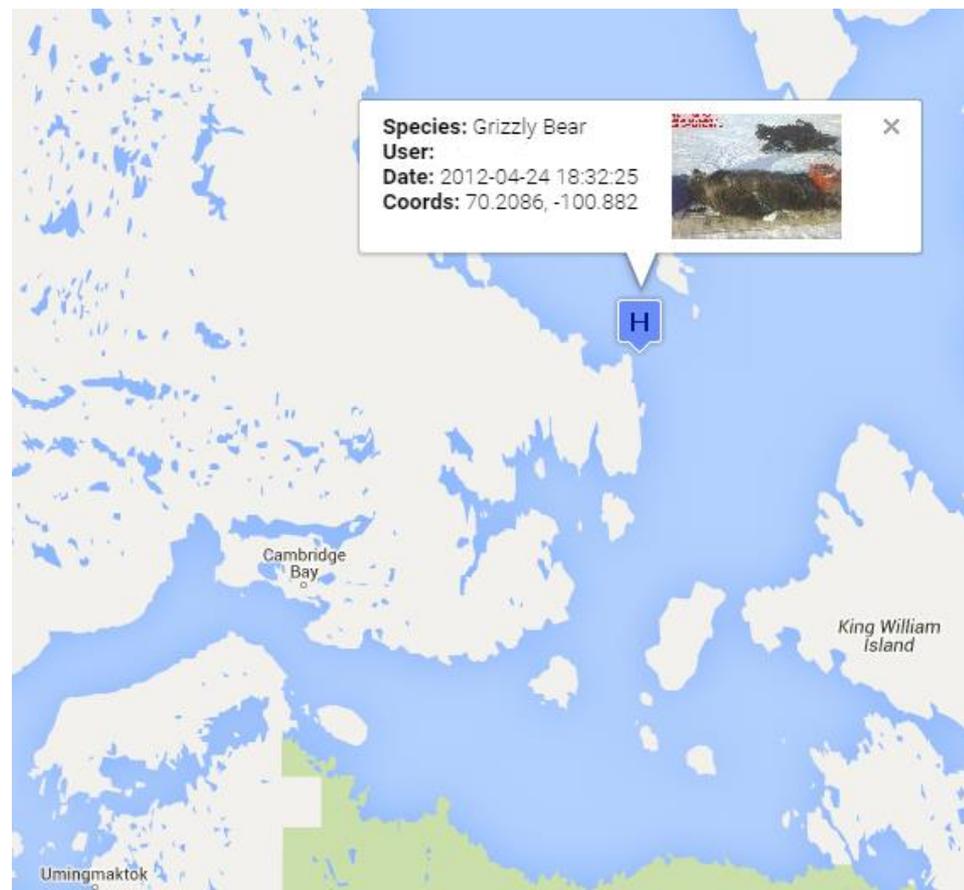
- 20 harvest records and 24 observation records
- 1 defense kill
- 3 audio records of dangerous human – bear interactions



CASE STUDY: Grizzly Bear as a Species at Risk



Source: COSEWIC 2012



CASE STUDY:

Grizzly Bear as a Species at Risk

	Arviat	Cambridge Bay
NWHS active and intensive hunters registered (1996-2001)	75 hunters	76 hunters
Grizzly harvests reported 1996-2001	6 bears	2 bears
CBMN Hunters (2012-2014)	26 hunters	11 hunters
Grizzly harvests reported 2012-2014	11 bears	8 bears
Estimated community harvest (2012-2014)	15 bears/yr	25 bears/yr

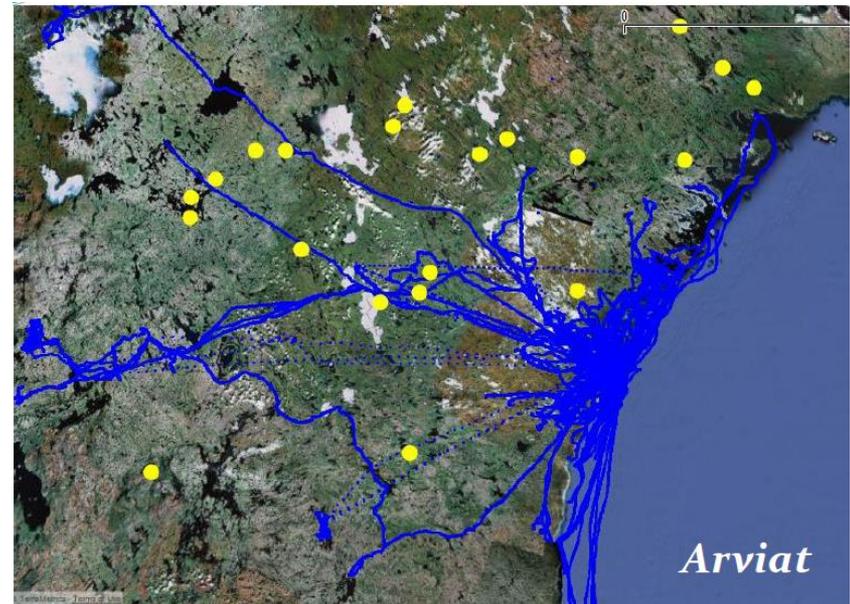
CASE STUDY:

Grizzly Bear as a Species at Risk

- Reflects concerns for public safety
- Indicates range expansion
- Highlights population growth

Other Applications

- Wildlife research
- Supports community positions
- Land use studies and planning
- Environmental impact assessment



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Lon: 79° 7' 18.8058" W
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