

Introducing the Circumpolar Health Observatory



Presentation to the Arctic Council Sustainable Development
Working Group, October 2010



About CircHOB

- international collaborative health information system
- engaged in systematic, standardized, and consistent data collection and analysis
- produces data for all northern regions in all circumpolar countries
- monitors trends and patterns in health status, health determinants, and health care
- provides qualitative and quantitative evidence for planning and evaluation of health programs and services.
- on-going and sustainable with periodic updates.



Origins

- CircHOB is a project proposed by the **Arctic Human Health Expert Group** and authorized by the Arctic Council at its Senior Arctic Officials meeting in May 2010.
- Initial funding for CircHOB was provided by the **Canadian Institutes of Health Research** and **Health Canada**.
- CircHOB has its origins in the 2008 *Circumpolar Health Supplement* entitled, “*Circumpolar Health Indicators: Sources, Data and Maps.*” The original monograph is available from the *International Journal of Circumpolar Health* website @ www.ijch.fi.



The Data Centre

- The Observatory is located at the Institute for Circumpolar Health Research Data Centre in Yellowknife, NT, Canada.
- The data centre will include:
 - a physical library,
 - a Statistics Canada Research Data Centre, and
 - a searchable and interactive databank of both print and electronic resources drawn from across the circumpolar world.
- The Data Centre will produce periodic Data Briefs highlighting specific aspects of the data collection, to be published by the *International Journal of Circumpolar Health*.



Coverage Area



Data Sources

- National population registries, censuses and intercensal estimates
- Vital statistics
- Mortality/morbidity/health care utilization databases
- National/regional health surveys
- Statistical reports





The Circumpolar Health Observatory

An international collaborative health information system serving the northern regions of all circumpolar countries

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Welcome to the Observatory



The Circumpolar Health Observatory (CircHOB) is an international collaborative health information system, involved in systematic, standardized, and consistent data collection and analysis. In addition to aggregating online and print resources, CircHOB will be population-based, and produce data for all northern regions in all circumpolar countries.

CircHOB's purpose is to monitor trends and patterns in health status, health determinants, and health care, provides qualitative and quantitative evidence for planning and evaluation of health programs and services. It is on-going and sustainable with periodic updates.

Salient points include:

The Observatory will be located at the Institute for Circumpolar Health Research Data Centre, Yellowknife, NT and will open in 2011. This data centre will include a [physical library](#), a [Statistics Canada Research Data Centre](#), and a searchable and interactive databank of both print and electronic resources drawn from across the circumpolar world.

The *Circumpolar Health Supplement* entitled, "Circumpolar Health Indicators: Sources, Data and Maps" outlines the scope of CircHOB's quantitative data focus. It contains a comprehensive set of statistical tables on all the circumpolar countries and their northern regions and subpopulations, in a standardized and consistent manner, summarizing their health status, health determinants and health care. It is currently available for [download](#).

Further print/electronic publications consisting of tables, charts, maps and interpretive text will be produced periodically by the *International Journal of Circumpolar Health*.

As the Observatory develops, please browse our growing catalogue of online and print resources as well as the visualization tools for the 2000-2004 datasets.





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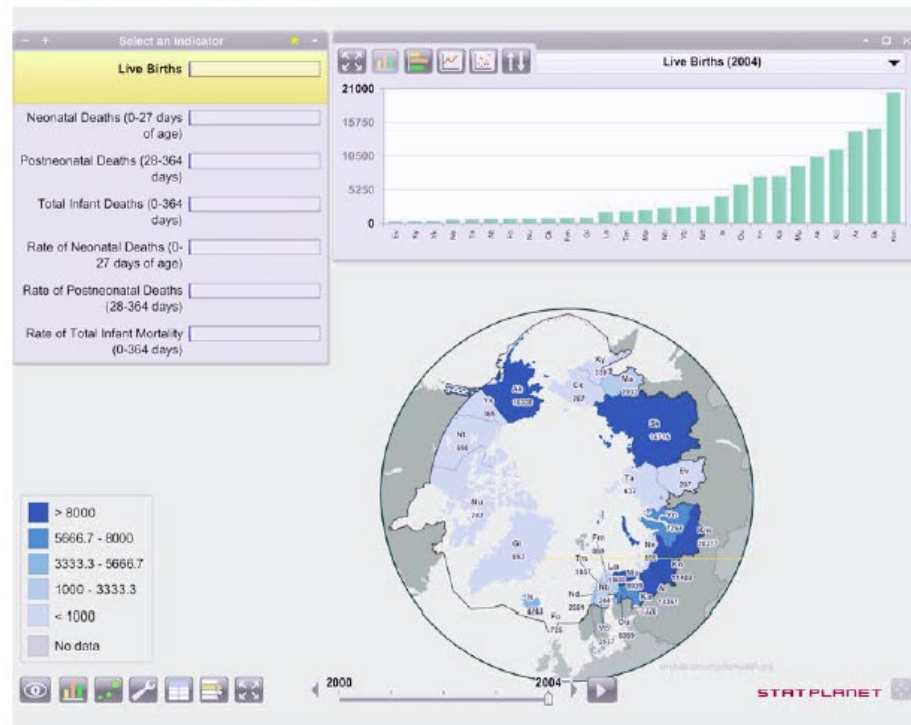
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Infant Mortality

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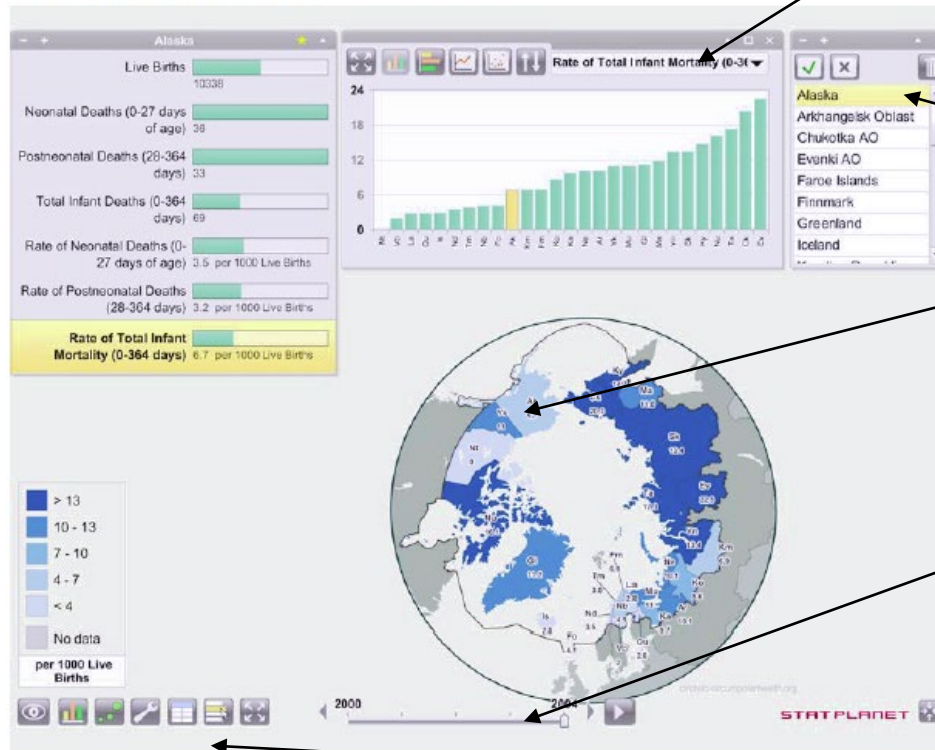
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Datasets

The following datasets have been aggregated from numerous sources in their raw form and are being made freely available for non-commercial, academic use, with attribution requested for Circumpolar Health Observatory. The usage license corresponds to the Creative Commons Attribution Non-Commercial Share Alike designation.

The datasets have been uploaded in Excel format and as Google Spreadsheets that permit real-time sharing and collaboration as well as downloads in various formats.

Note all datasets are standardized to cover the regions defined in the [coverage](#) map. 2005-2009 dataset

2000- 2004

Population	XLS	Google	Basic population and population density data for tables divided by age group and sex.
Mortality	XLS	Google	Basic mortality data, including crude death rates at and sex, life expectancy at birth, and infant mortal
Reproductive Outcomes	XLS	Google	Perinatal mortality, birthweight, and gestational ag
Fertility	XLS	Google	Fertility rates of mothers in the general population at birth, and births distributed by mother's age.
Disease Incidence	XLS	Google	Cancer and Tuberculosis rates.
Socioeconomic	XLS	Google	Basic GDP data and tertiary educational attainment
Behaviours	XLS	Google	Smoking rates distributed according to age group are forthcoming.
Climate	XLS	Google	Basic temperature means for all regions over a 40-



Access to data spreadsheets

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Google docs Population-2000-04 Public on the web

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Formula:

	A	B	C	D	E	F	G	H	I	J
1		Annual Mean (Mid-Year) Population	[revised August 2009]						Population Density	
2										
3										
4	Country/Region	2000	2001	2002	2003	2004	Total 2000-4	Land area	2000	
5	United States	282171936	285039803	287726647	290210914	292892127	1438041427	9,161,920	30.	
6	Alaska	627428	633160	642391	650426	660975	3214380	1,481,350	0.4	
7	Canada	30885730	31019020	31353656	31639670	31940676	156638752	9,012,110	3.	
8	Yukon	30431	30156	30358	30963	31473	153381	474,710	0.0	
9	Northwest Territories	40480	40844	41665	42561	43301	208851	1,141,110	0.0	
10	Nunavut	27498	28134	28819	29320	29854	143625	1,925,460	0.0	
11	Northern Canada	98409	99134	100842	102844	104628	505857	3,541,280	0.0	
12	Denmark	5337344	5356082	5374255	5387174	5401177	26855032	43,100	123.	
13	Greenland	56185	56394	56609	56765	56912	282865	2,166,090	0.0	
14	Faroe Islands	45749	46553	47315	47923	48258	235798	1,400	32.	
15	Iceland	281154	285054	287559	289272	292587	1435626	103,000	2.	
16	Norway	4490967	4513751	4538159	4564855	4591910	22699642	304,280	14.	
17	Norland	238702	237899	237227	237004	236941	1187773	36,050	6.	
18	Troms	151469	151725	151980	152438	152685	760277	24,880	6.	
19	Finnmark	74073	73910	73623	73362	73142	368110	45,760	1.	
20	Northern Norway	464244	463534	462810	462804	462768	2316160	106,690	4.	
21	Sweden	8872110	8895963	8924960	8958231	8993534	44844798	441,340	20.	
22	Västerbotten	256177	255231	255025	255594	256417	1278444	55,190	4.	
23	Norrbotten	257168	255488	254185	253255	252731	1272827	98,250	2.	
24	Northern Sweden	513345	510719	509210	508849	509148	2551271	153,440	3.	
25	Finland	5176209	5188008	5200598	5213014	5228172	26008001	304,470	17.	
26	Oulu	454302	455819	456924	457925	459099	2284869	56,880	8.	
27	Lappi	193080	190528	188533	187347	186680	946148	93,000	2.	
28	Northern Finland	647362	646347	645457	645272	646379	3230817	149,860	4.	
29	Russian Federation	146596870	145976473	145306492	144565628	143821212	726266975	17,075,400	8.	
30	Murmansk Oblast	931969	914305	897772	884908	876393	4505345	144,900	6.	
31	Krasnoyarsk Krai	723139	726478	719278	711055	706699	3502822	123,400	4.	

Total Population Age-Sex Pop density

Select data table





DATA BRIEF FROM THE CIRCUMPOLAR HEALTH OBSERVATORY

Introduction and population [2010-1]

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In this issue, the Journal begins a new series *Data brief from the Circumpolar Health Observatory*. The series will periodically feature data outputs from the Circumpolar Health Observatory [CircHOB] circhob.circumpolarhealth.org. CircHOB is a project proposed by the Arctic Human Health Expert Group [AHHEG] and authorized by the Arctic Council at a meeting of Senior Arctic Officials in April, 2010.

Background

CircHOB is an international, open access, collaborative health information system, involved in systematic, standardized, and consistent data collection and analysis. It is population-based, and covers all northern regions in all circumpolar countries. CircHOB's purpose is to monitor trends and patterns in health status, health determinants, and health care, and provide an on-



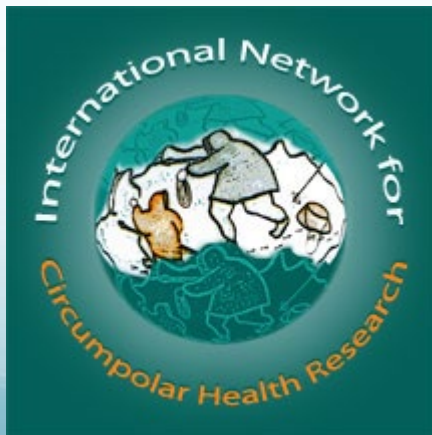
Caveats

- CircHOB does NOT involve access to individual-level health records nor do any such records cross national borders. It involves the preparation of tables of aggregate data only.
- Data capture for 2000-2004 for both single years and the 5-year period has been completed; 2005-2009 update is underway.
- Data on health-related behaviours, attitudes, and practices currently available from health surveys done in various circumpolar countries and regions are not directly comparable, due to differences in the construction of variables, sampling techniques, and contextual meanings of underlying concepts.
- Substantial international comparative research is needed before such data can be presented.



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