

Persistent Organic Pollutants **in** **Arctic Indigenous Populations**

James Berner – Alaska Tribal Health
Consortium

Jay Van Oostdam – Health Canada



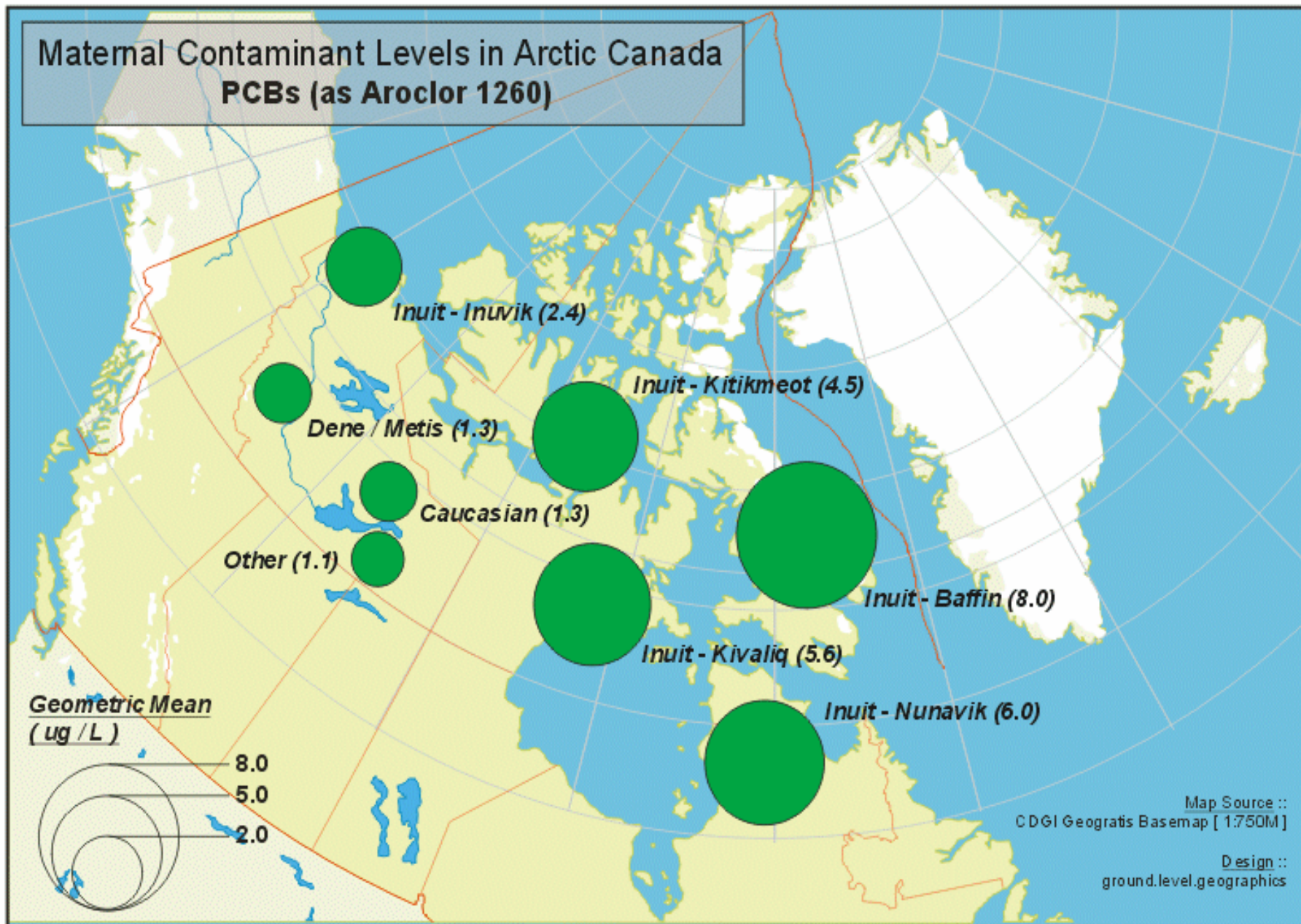
Canadian Northern Contaminants Program

Jay Van Oostdam
Health Canada

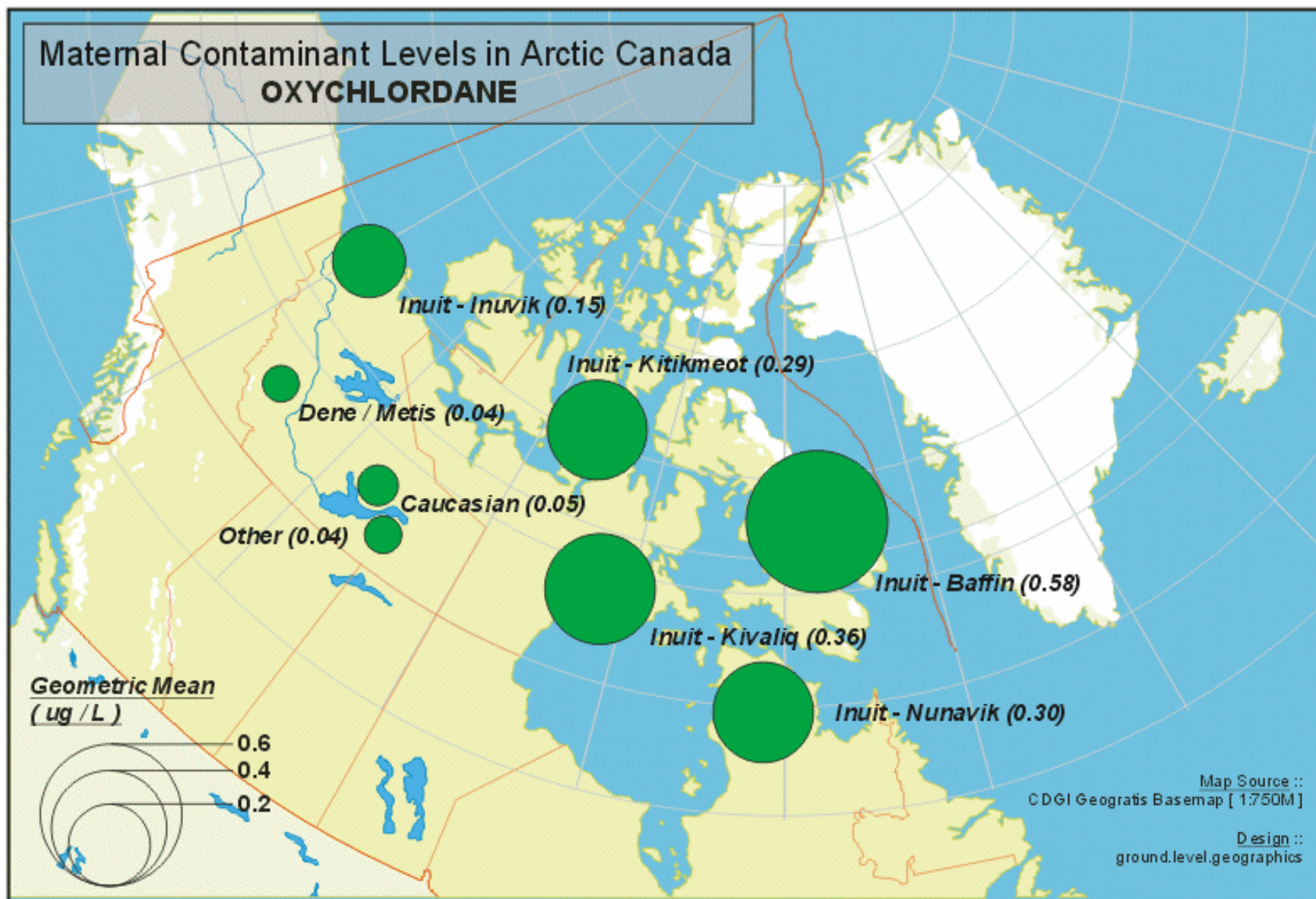
Populations – Mothers

<u>Region and Ethnicity</u>	<u>Sample Size</u>
<u>Northwest Territories / Nunavut</u>	
Caucasian	134
Dene / Metis	93
Other	13
Inuit	145
Baffin	30
Inuvik	31
Kitikmeot	63
Kivalliq / Keewatin	17
<u>Nunavik</u>	
Inuit	175

Maternal Contaminant Levels in Arctic Canada PCBs (as Aroclor 1260)

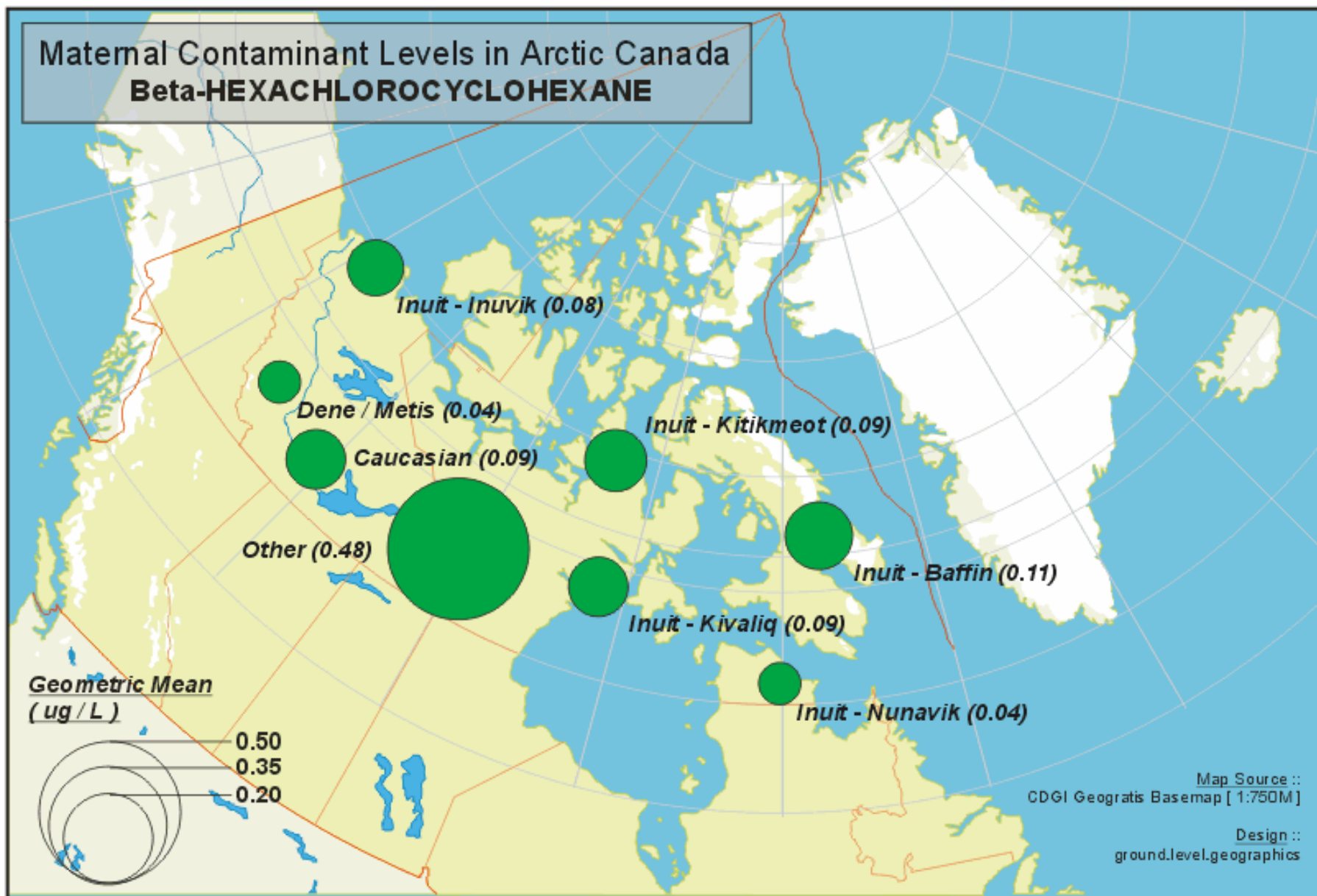


Maternal Contaminant Levels in Arctic Canada **OXYCHLORDANE**



Maternal Contaminant Levels in Arctic Canada

Beta-HEXACHLOROCYCLOHEXANE



An aerial photograph of a vast, rugged mountain range covered in snow. A deep, dark river valley winds through the center of the mountains. The sky is a clear, pale blue.

COMPARISON OF MATERNAL CONTAMINANTS LEVELS IN CIRCUMPOLAR COUNTRIES

**Jay Van Oostdam
Health Canada**

Study Locations, Blood and Breast Milk Sampling

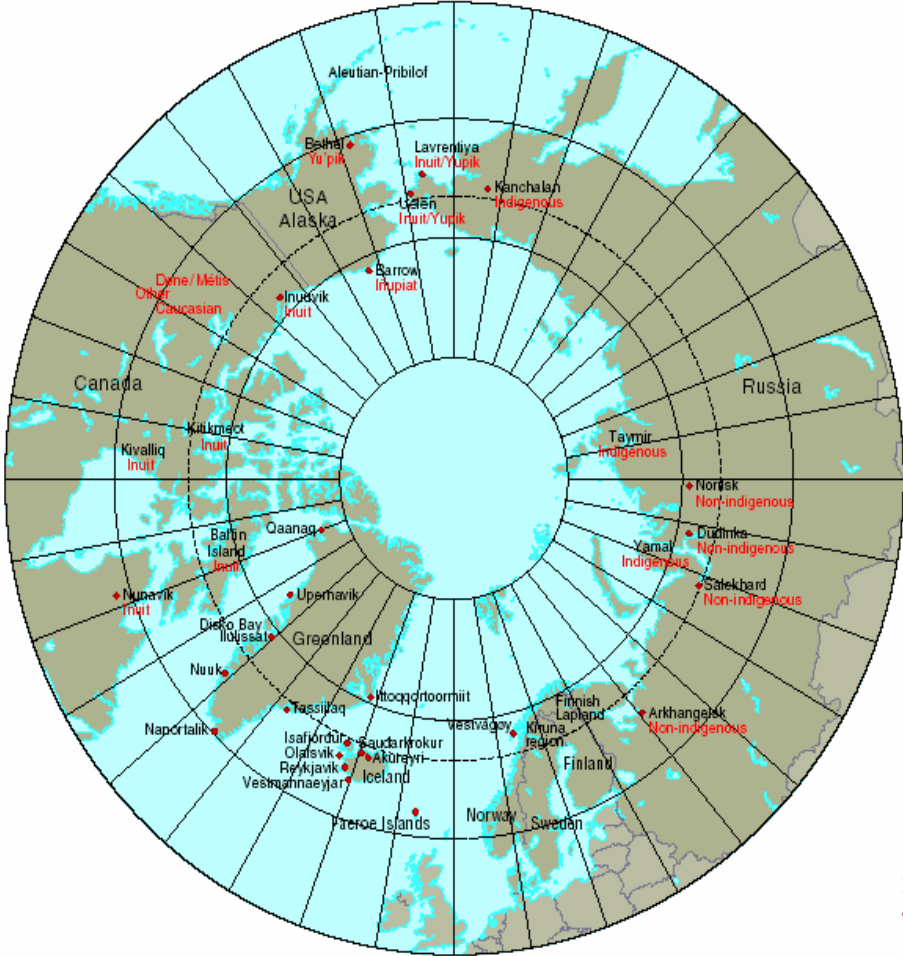
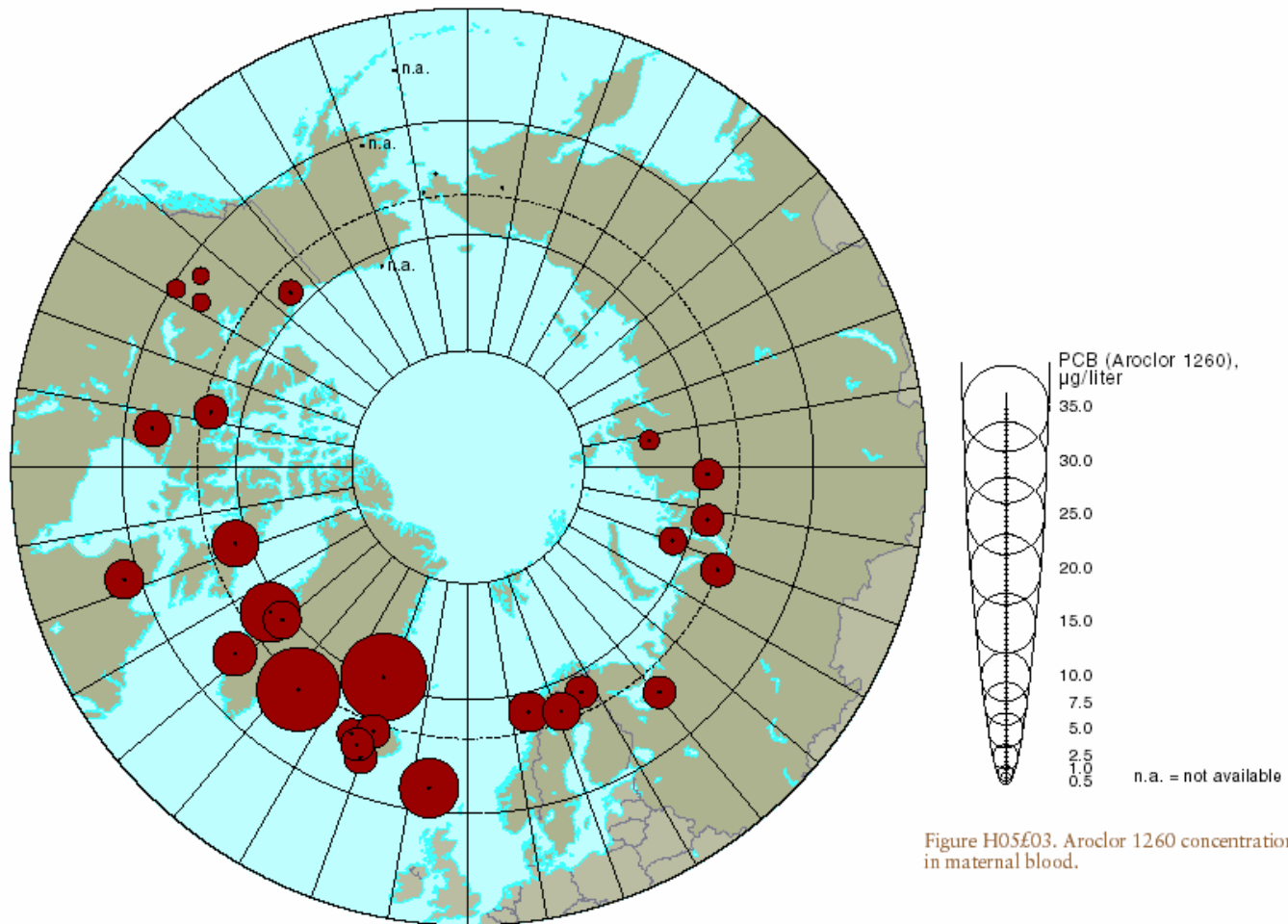


Figure H05£13. Study locations, blood and breast milk sampling

PCBs (Aroclor 1260)



Oxychlordanes

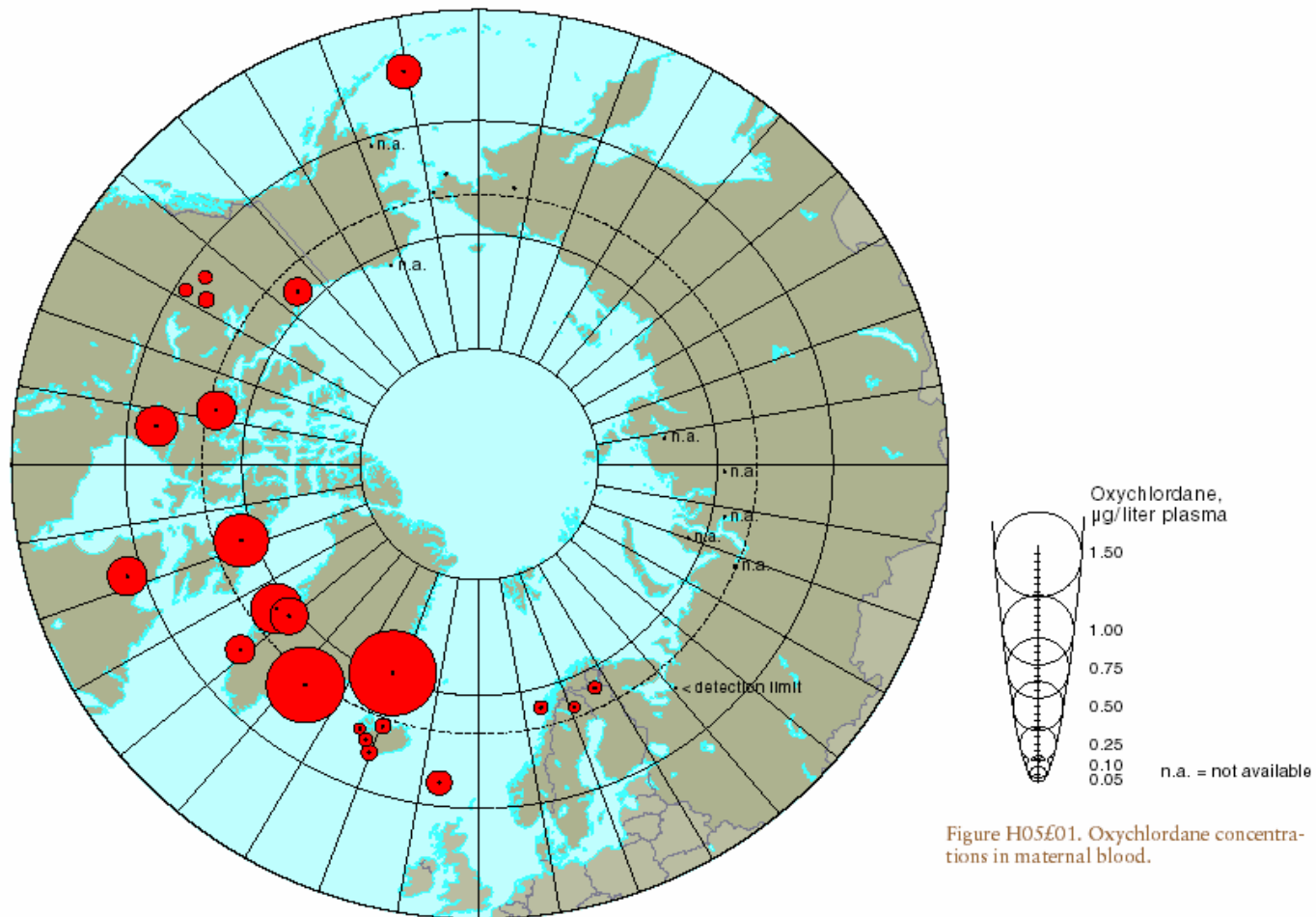
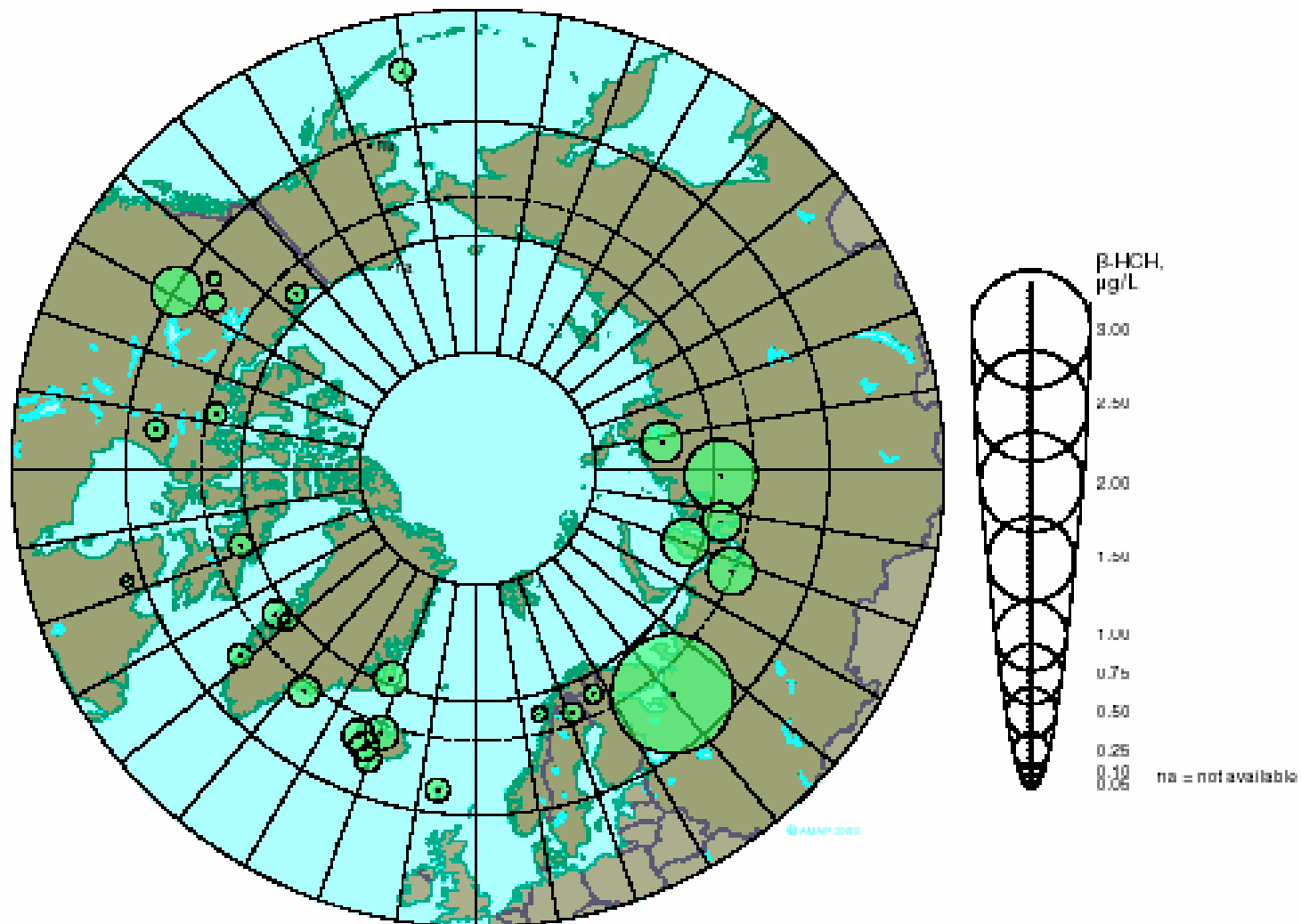


Figure H05£01. Oxychlordanes concentrations in maternal blood.

Beta-Hexachlorocyclohexane



Gamma - hexachlorocyclohexane

- **Canadian data**
 - Only measured beta HCH,
 - Gamma HCH - All non-detects , DL = 0.02-0.04 ug/L
- **AMAP Data**
 - Mostly measured beta HCH,
 - One Russian study – gamma HCH – 98% non-detects