

Project Group for Monitoring of Radioactive Substances in the Baltic Sea (MORS)

14<sup>th</sup> Meeting

Stockholm, Sweden, 5-7 May 2009

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**Agenda Item 3      Scientific reports and information by the Project Members**

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Submitted by:      Sweden

**ENVIRONMENTAL MONITORING IN SWEDEN**

The Meeting is invited to take note of the information.

## Environmental monitoring in Sweden



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### **3 types of monitoring**

- Early warning and emergency preparedness
- Local monitoring at nuclear facilities
- National monitoring



## National monitoring

Airborne particles

Surface water

Marine water

Marine sediments

Marine biota

Moose

Roedeer

Reindeer

Milk

Mixed diet

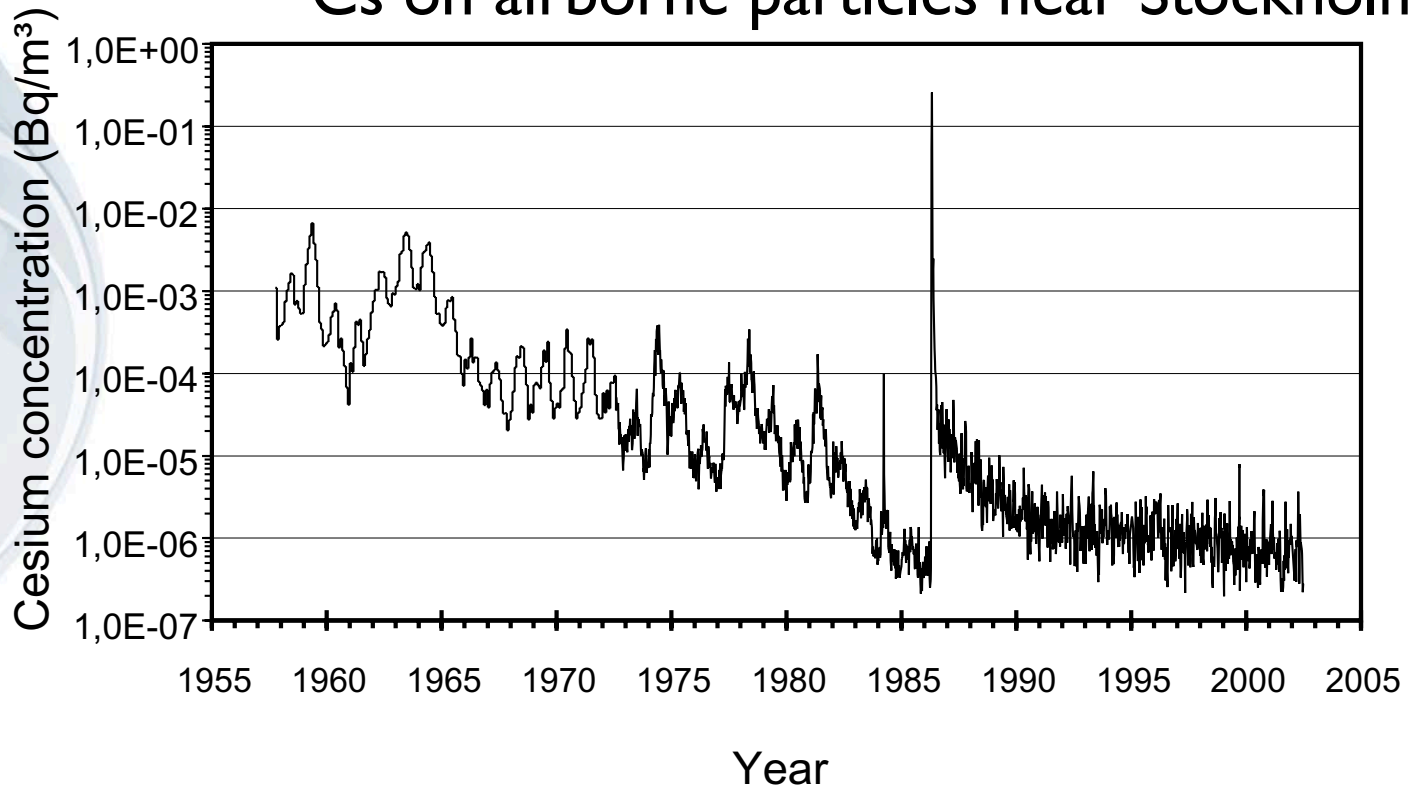
Drinking water

Whole body measurements

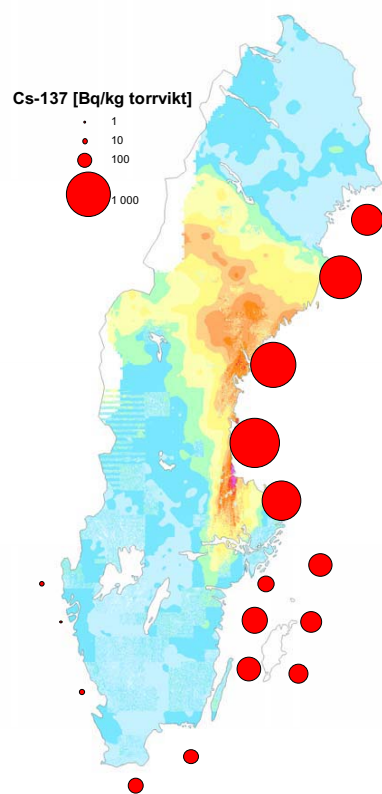
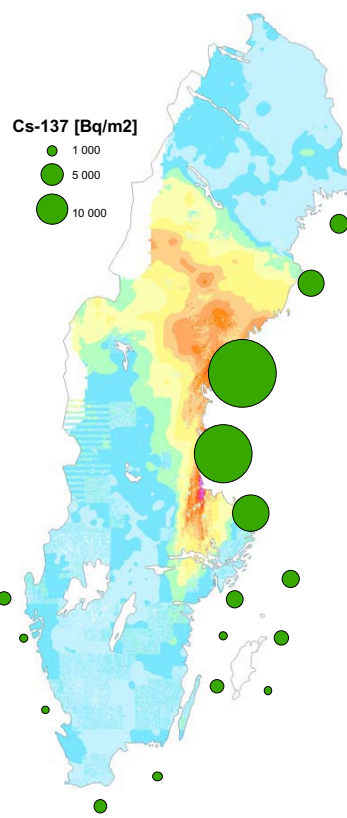
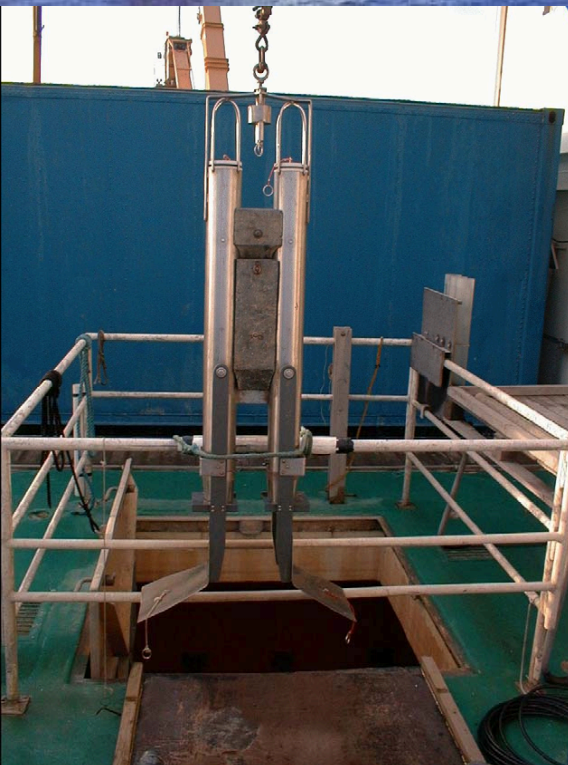
*Soils and crops*

*Ground gamma radiation*

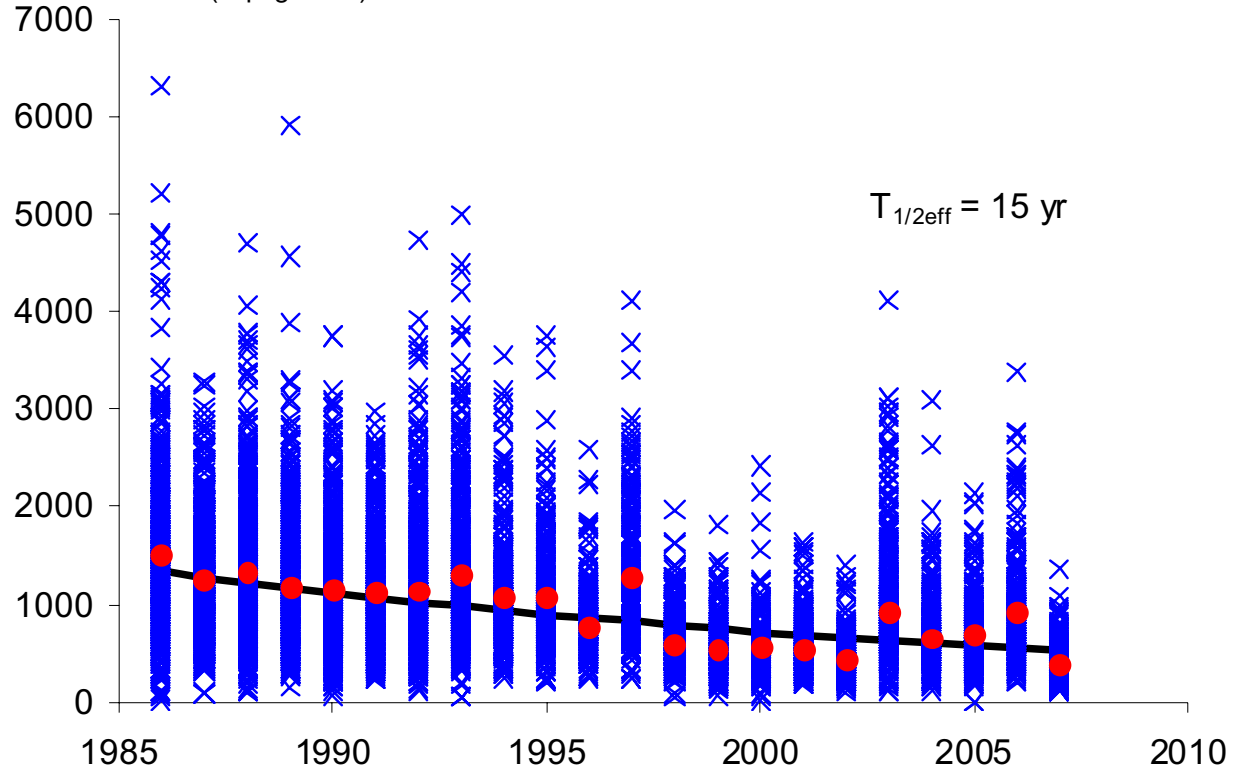
# $^{137}\text{Cs}$ on airborne particles near Stockholm



# Marine sediments

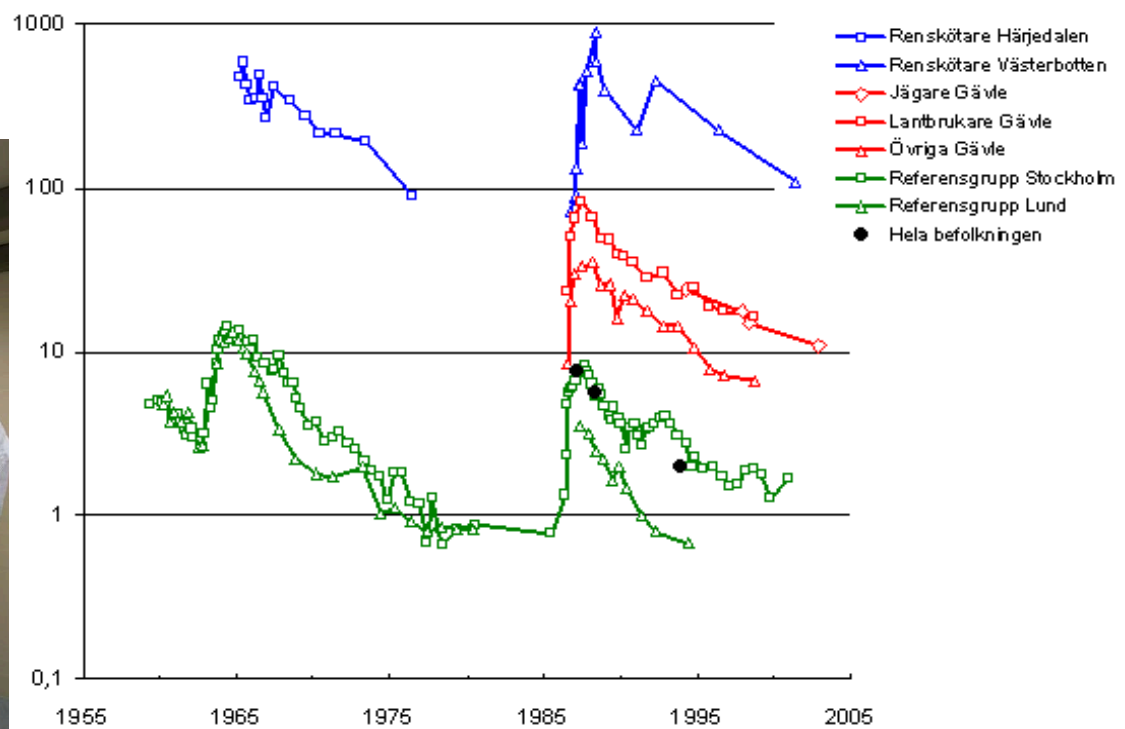


$^{137}\text{Cs}$  in moose ( $\text{Bq kg}^{-1}$  f.w.)



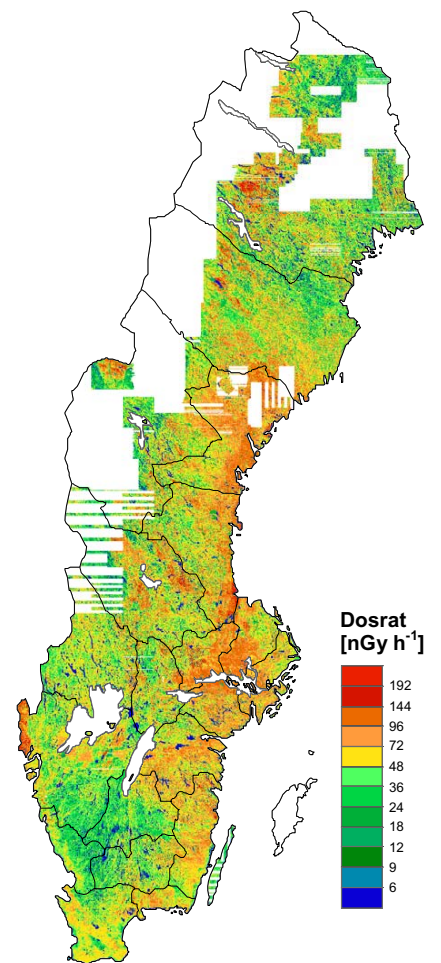
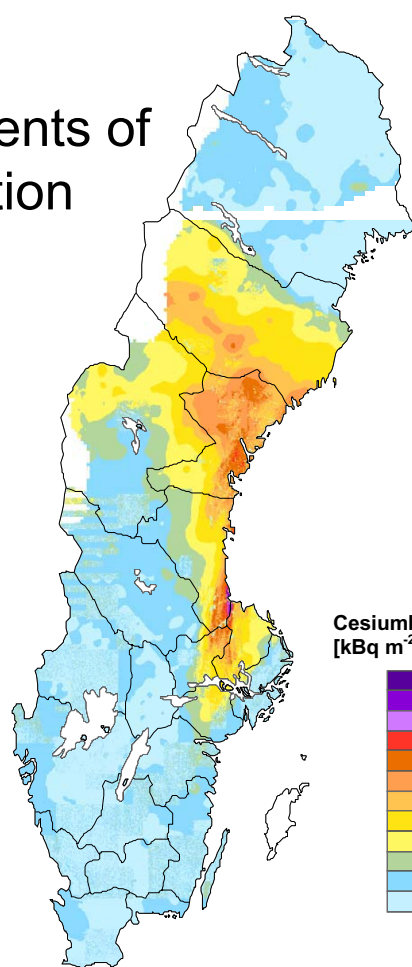
# Whole body measurements

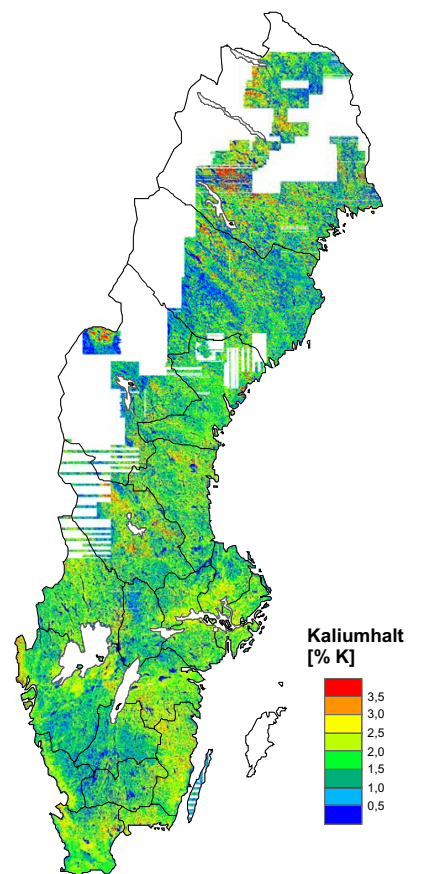
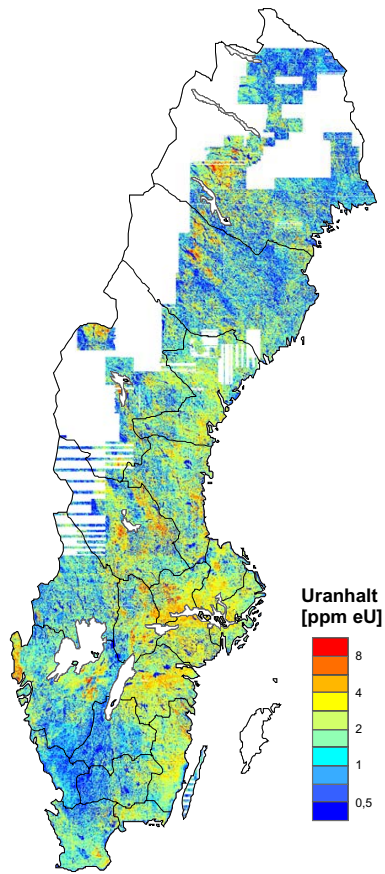
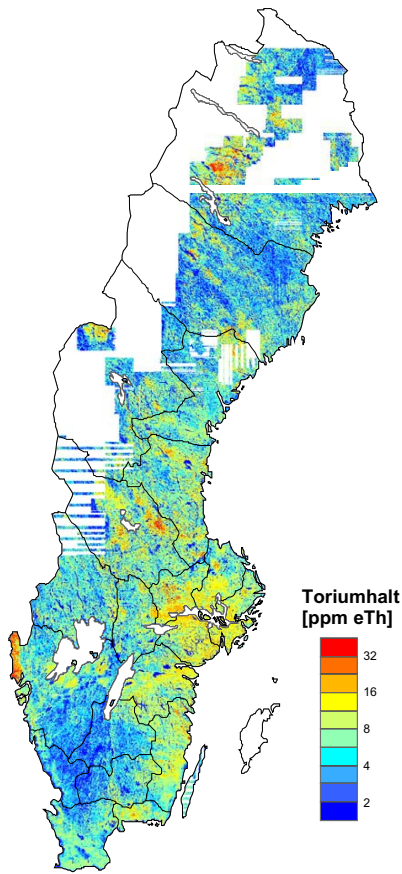
$^{137}\text{Cs}$  i människor (Bq kg<sup>-1</sup>)





# Airborne measurements of ground gamma radiation







# **Radiation environment in Sweden**

## **SSI-Report 2007:02**

Pål Andersson, Monica Carlsson, Rolf Falk, Lynn Hubbard, Wolfram Leitz, Lars Mjönes, Hans Möre, Leif Nyblom, Ann-Louise Söderman, Katarina Yuen Lasson, Gustav Åkerblom, Elisabeth Öhlén

<http://www.stralsakerhetsmyndigheten.se/Global/Publikationer/Rapport/Stralskydd/2007/ssi-rapp-2007-02e-summary.pdf>