

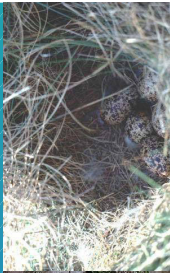
# Biota Working Group objectives

*‘to improve Member State’s capabilities for protection of the environment by comparing and validating models being used, or developed, for biota dose assessment (that may be used) as part of regulatory process of licensing and compliance monitoring of authorised releases of radionuclides’*



# Activities since Nov. 2004

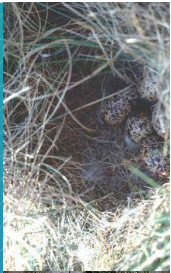
- Two exercises to compare dosimetry and transfer components of models:
  - Exercise 1: assume 1 Bq per unit media and organism for selection of ICRP Reference Animals & Plants to estimate unweighted dose rates for Cs-137, Am-241, Co-60, U-238, C-14, Sr-90, H-3
  - Exercise 2: assume 1 Bq per unit media to estimate activity concentration of range of radionuclides in 19 terrestrial/freshwater organisms
- Results discussed June workshop [Vienna] & presented at Nice conference



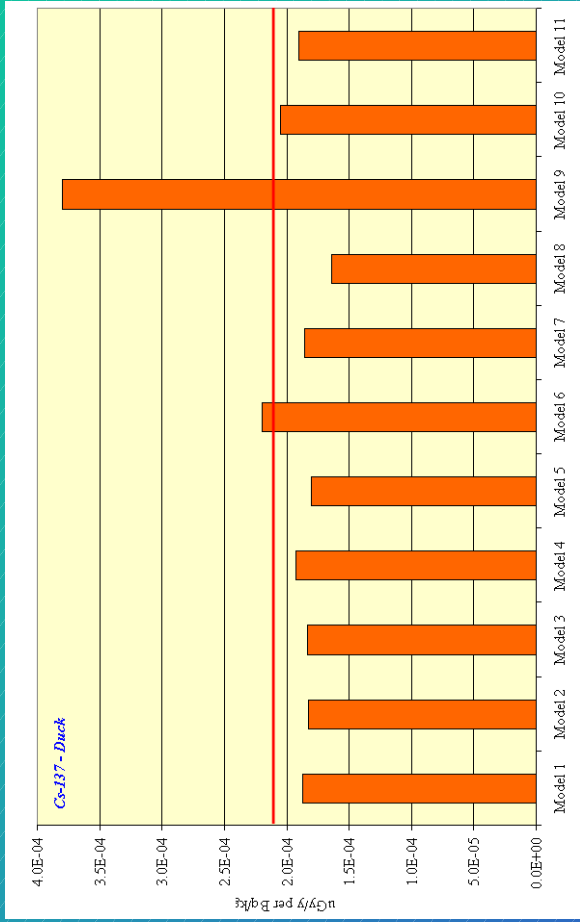
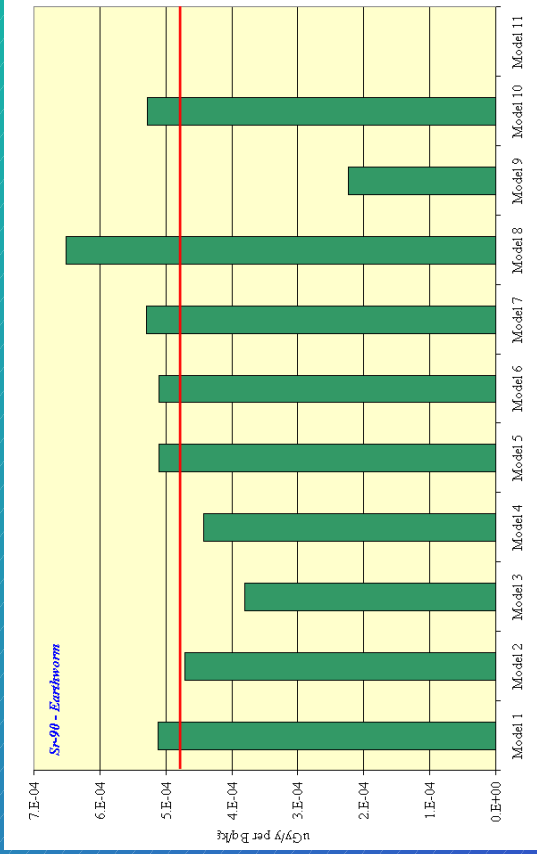


# Models and approaches participating

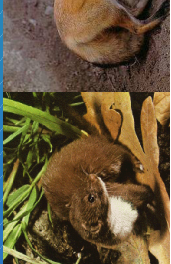
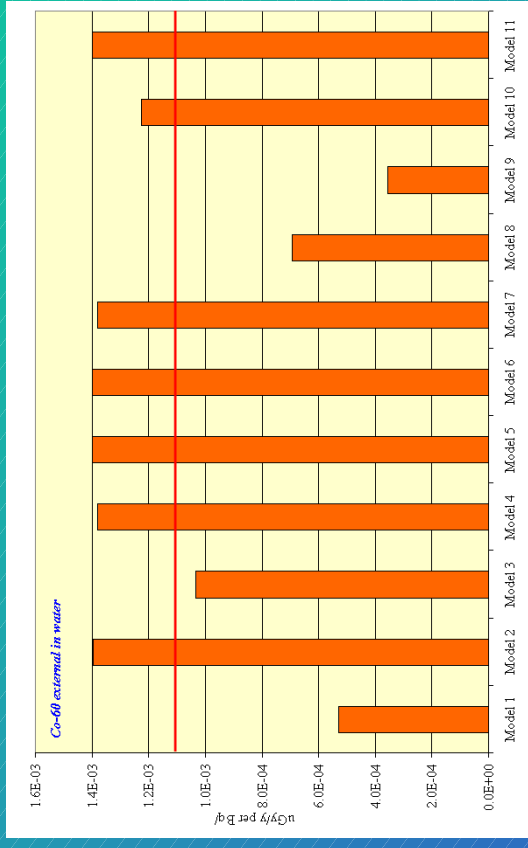
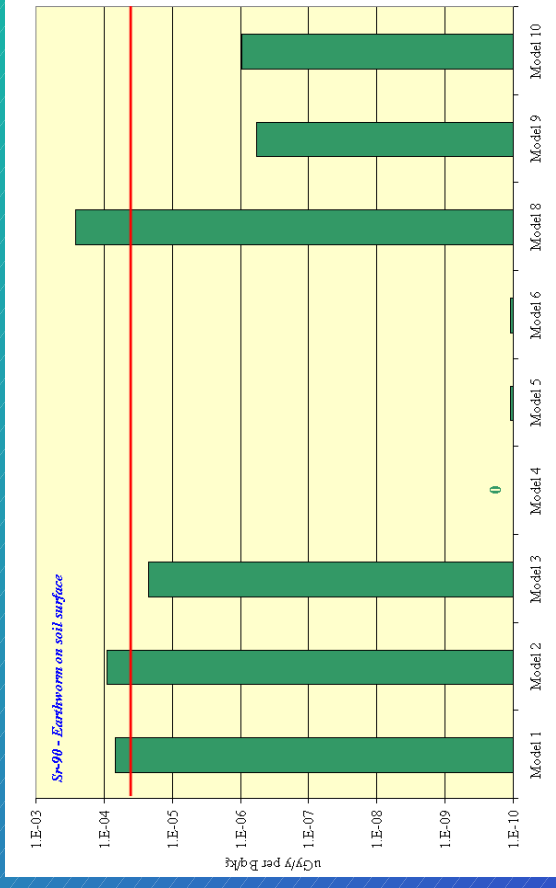
- *RESRAD-BIOTA (USA)*
- *FASSET & ERICA (European)*
- *Environment Agency 'R&D 128' (UK)*
- *Atomic Energy Canada Limited approach*
- *LIETDOS-BIO (Lithuania)*
- *SCK-CEN approach (Belgium)*
- ***ECOMOD (Russia)***
- *EDEN (France)*
- *EPIC-DOSES3D (European)*
- *SÚJB approach (Czech Republic)*



# Unweighted internal dose rates

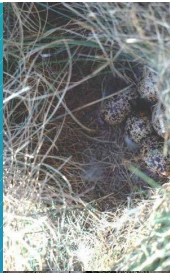
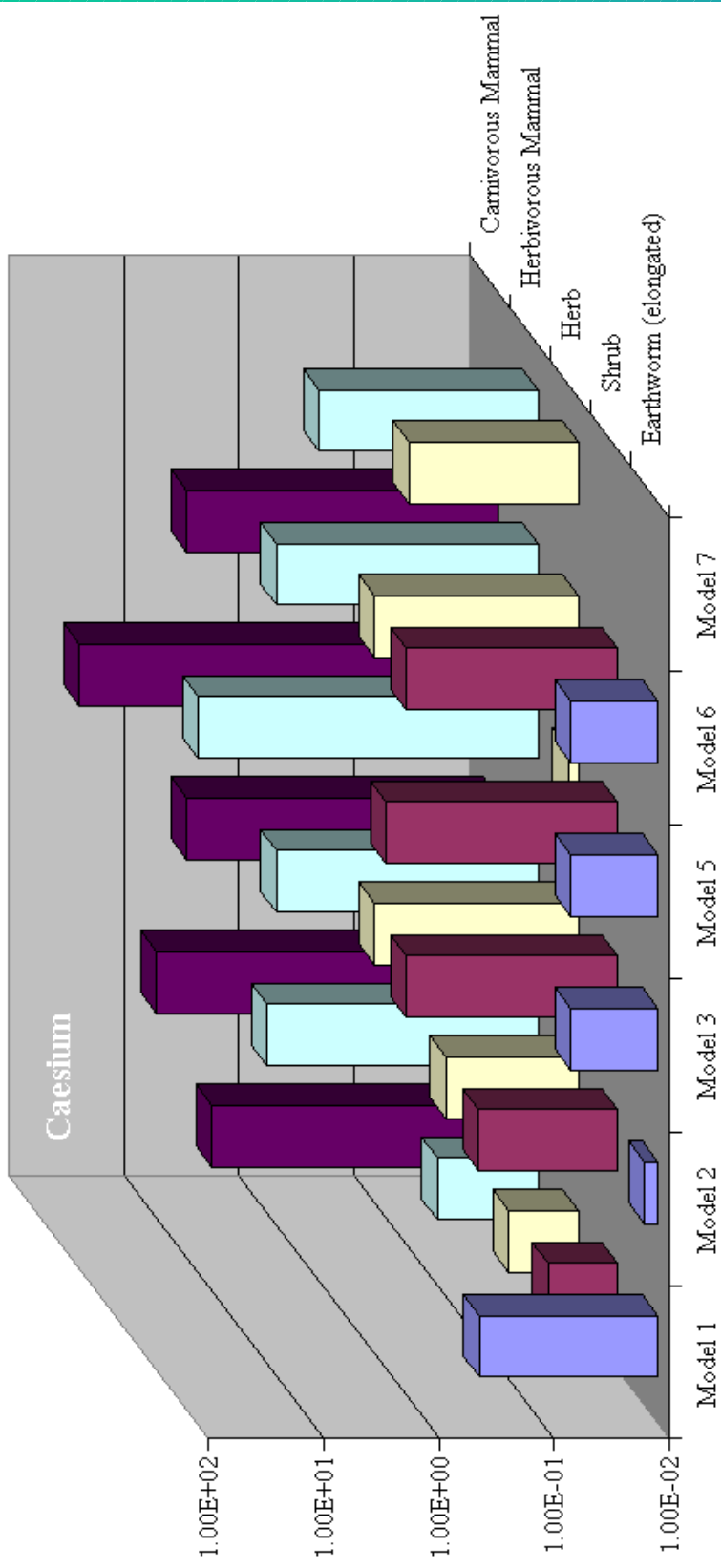


# Unweighted external dose rates

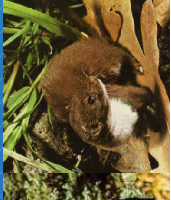
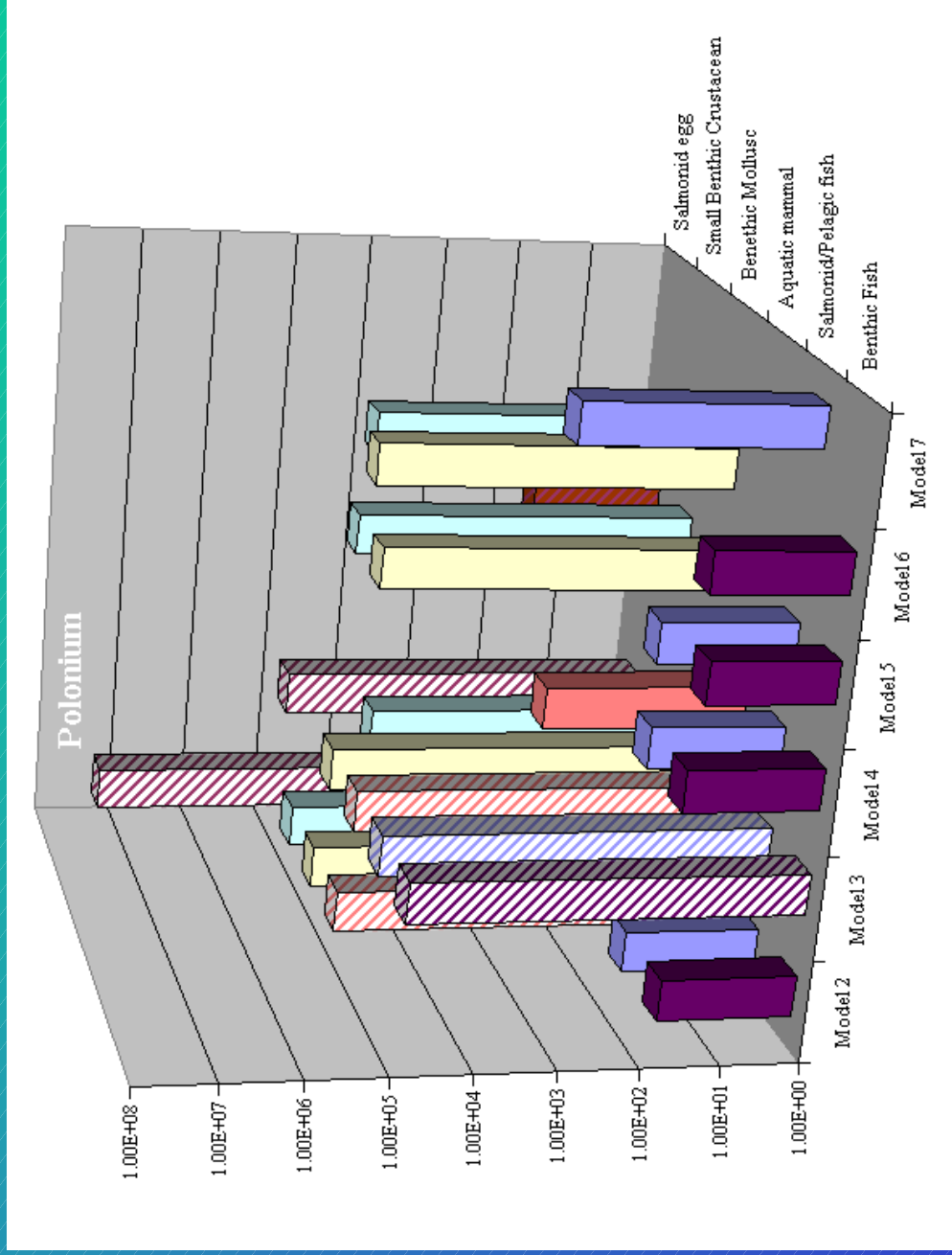




# Estimated activity concentrations



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# Planned scenarios - progress



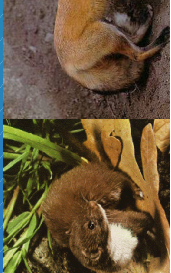
**Perch Lake (Canada)**

- Initial results to be presented this meeting



**Chernobyl exclusion zone**

- Delayed for new data
- To be agreed this meeting





# Objectives this meeting

- Monday - Finalise dosimetry comparison (Exercise 1)
- Tuesday - Finalise transfer comparison (Exercise 2)
- Thursday - Discuss Perch Lake scenario & agree Chernobyl scenario (other scenarios?)

