EMRAS – Theme 2
Remediation of Sites with Radioactive Residues

Urban Remediation Working Group

8-11 November 2004

Vienna

Objective of the Working Group

Testing and improving the prediction of dose rates and doses to humans for urban areas contaminated with dispersed radionuclides

Progress at this meeting

- Distribution of full scenario description
- Discussion of modelling scenario
  - Information still needed
  - Endpoints for modelling exercise
- Discussion of models and modelling approaches
- Discussion of additional WG activities

Initial modelling scenario:
Chernobyl fallout in three Ukrainian towns

- **Pripyat**
  - **Evacuated soon after accident, uninhabited since then**
- **Polesskoe**
  - **Remained inhabited after accident**
- **Slavutych**
  - **Built after accident on contaminated ground**

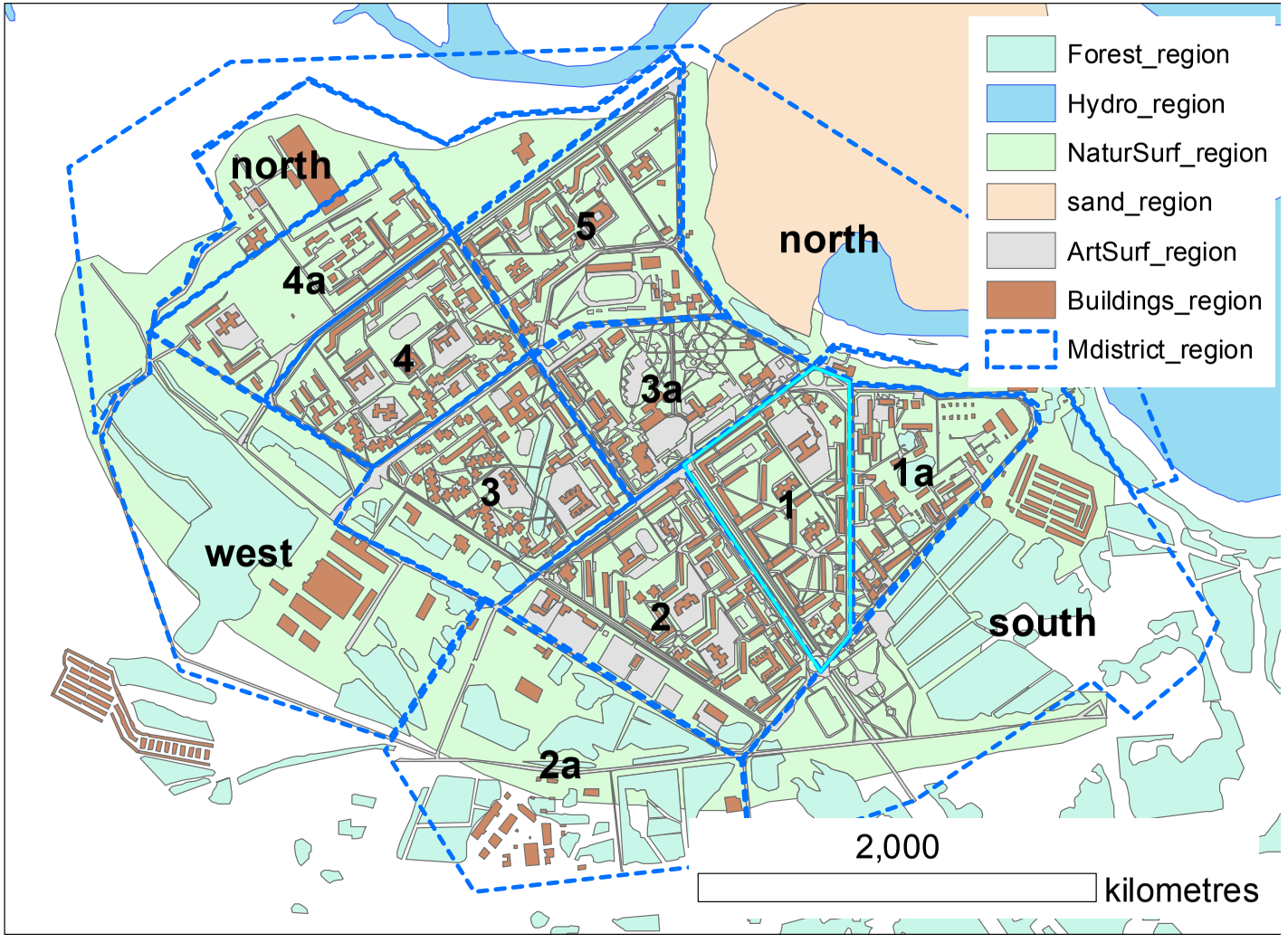
Input information

- **Pripyat**
  - **Measurements from May 1986**
  - **Information on decontamination efforts (1986-1988)**
- **Polesskoe**
  - **Dose rates in 1986**
  - **Information on specific buildings (1988)**
  - **Soil profiles (1989)**
  - **Information on remediation activities**
- **Slavutych**
  - **Initial contamination of area**
  - **Information on decontamination efforts (1988-1990)**
  - **Information on surrounding areas with no decontamination**

Endpoints to be modelled

- **Dose rates and contaminant distributions**
  - **Specified locations in each town**
  - **With and without remediation**
  - **1986-1999**

Pripyat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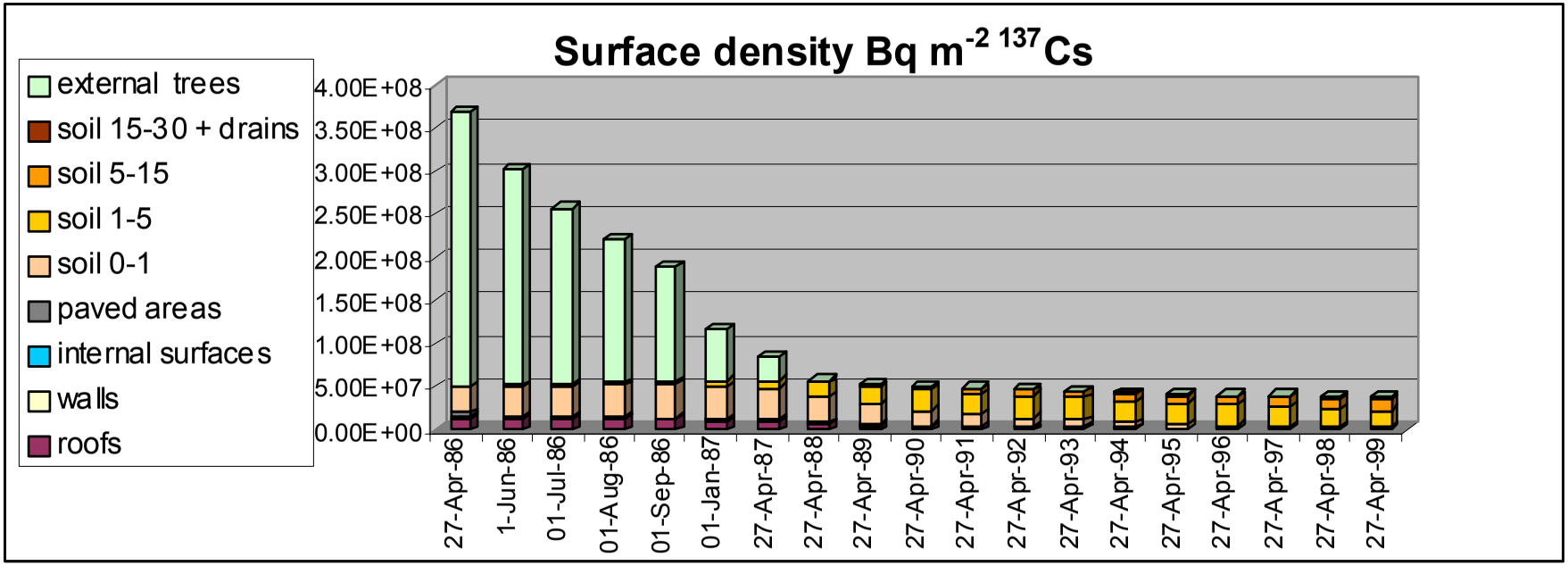
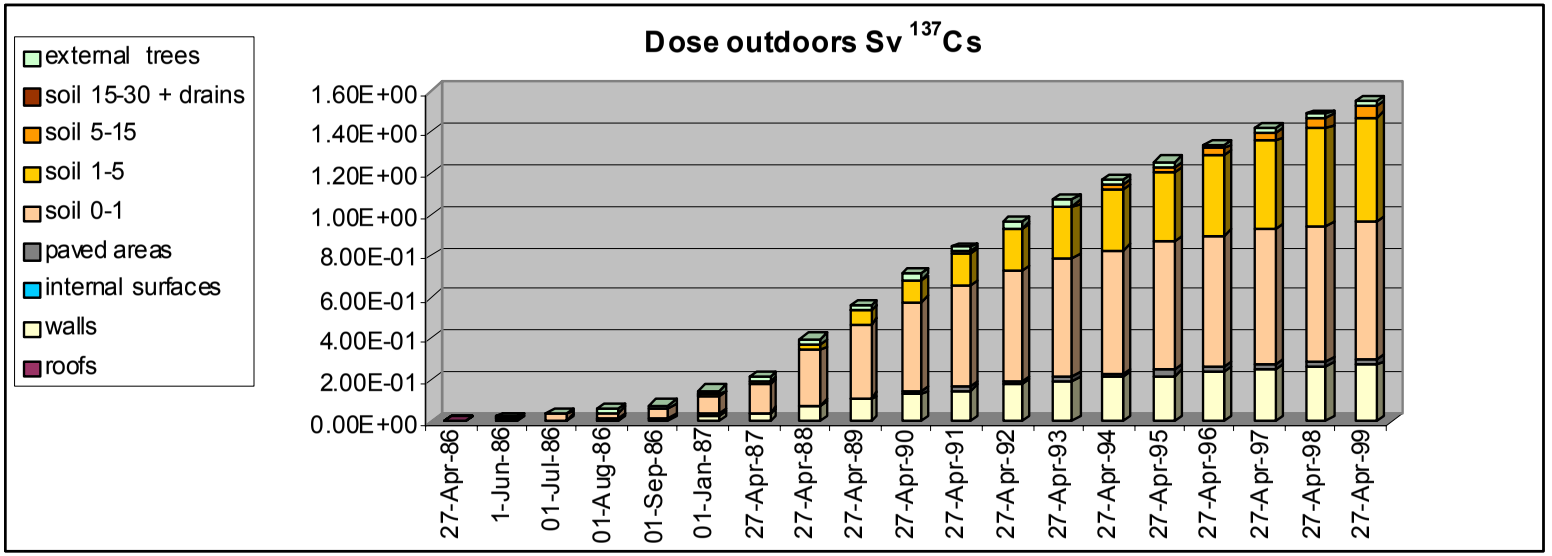
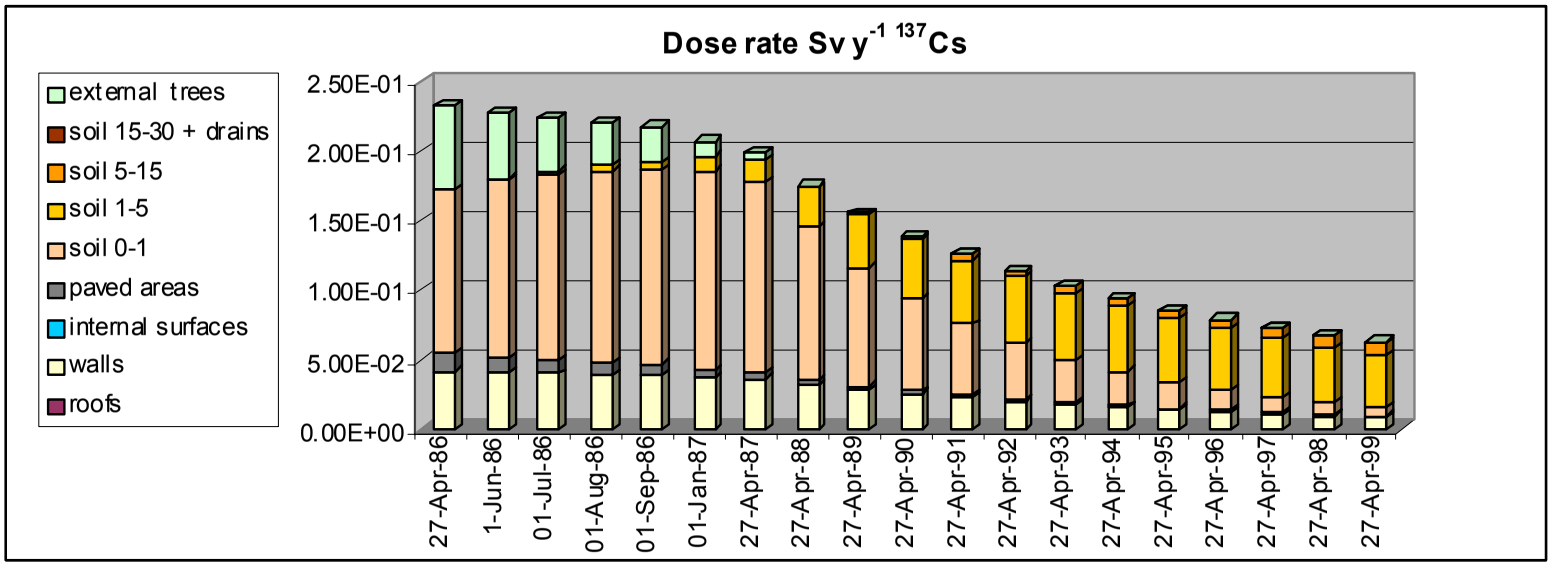
Hydro_region
NaturSurf_region
sand_region
ArtSurf_region
Buildings_region
Mdistrict_region
north
north
5
4a
4
3a
3
1
1a
west
2
south
2a
2,000
kilometres

Preliminary results: surface density



Preliminary results: outdoor dose-rate





Plans for further work

- Calculations and preliminary results by May 2005
- Next WG meeting in June 2005
  - (dates not set yet)
- Further discussion of models and modelling approaches
- Additional WG activities
  - Annotated reference list
  - Collect information for hypothetical scenario(s)

Expected products

- **Interim products as needed**
  - **Scenario description**
  - **CD with supporting information**
  - **Reference list**
  - **Other draft scenarios, working documents**
- **One final report from WG**
  - **Results from Ukrainian scenario**
  - **Results of other activities**
  - **Appendix with annotated reference list**