# EMRAS
# Environmental Modelling for Radiation Safety

## Working Group 4
## Model validation for radionuclide transport in the aquatic system "Watershed-River" and in estuaries

Status November 2005

Preliminary plans 2006

# Meetings

- Working Group on Watershed-Rivers-Estuaries, 1st annual meeting, Vienna; 1-5 September 2003
- Joint meeting EMRAS/EVANET-HYDRA 5-7 May 2004, IAEA, Vienna International Centre, Vienna, Austria
- Combined meeting 8-11 November 2004, Vienna International Centre, Vienna, Austria
- Working Group meeting8-10 June 2005, Vienna International Centre, Vienna, Austria

# Priorities

- Important radionuclides other than Cs and Sr
- Coastal areas
- Extreme events
- Contribution to the revision of the IAEA-TRS report 364

# Activities

- Model presentations
- Model exercises
- Assessment of results
- Conclusions: model performances

# Scenarios

| Scenario | Scenario developer | Models | Priority | Status |
|---|---|---|---|---|
| Floodplain (Chernobyl) | Typhoon (Russia)- IMMSP (Ukraine) | University of Sevilla (Spain) ENEA (Italy) IMMSP (Ukraine) | Extreme events. | Exercise concluded |
| Tritium in river Loire | EDF (France) | IMMSP (Ukraine) ENEA (Italy) IRSN (France) EDF (France) | Radionuclides other than Cs and Sr | Exercise concluded |
| Contamination of Dnieper-Bug estuary | IMMSP (Ukraine) UHI (Ukraine) | University of Uppsala (Sweden) University of Sevilla (Spain) ENEA (Italy) IMMSP (Ukraine) | Coastal areas | Exercise concluded |
| Contamination of river Techa | Typhoon (Russia) | To be decided | Radionuclide other than Cs and Sr (Pu) | Scenario description |

# Aims of the present meeting

- River Techa: planning the exercise and the future activities
- Dnieper-Bug Estuary: exploring the feasibility of an exercise of model applications to the biotic components of the estuary
- Discussing and planning the preparation of the final report
- Discussing and planning strategies for the dissemination of the results