

EMRAS II WG6: FREDERICA Database Update



EMRAS II. Effects group (WG6).
Vienna, 24-28 January 2011

EMRAS II (WG6): FREDERICA Update

To update FREDERICA we went through 3 steps:

- Literature survey (March 2009)
- Add new data to FREDERICA database (June 2009)
- QA/QC and score new entries (Jan 2010)

Belgium (SCK-CEN): **Nele Horeman; Hildegarde Vandenhove**

Germany (BfS): **Christine Willdrot**

Japan (NIRS): **Satoshi Yoshida, Drs Fuma and Maruyama**

Russian Federation (Ecomod; RIARAE): **Tatiana Sazykina, Stanislav Geraskin**

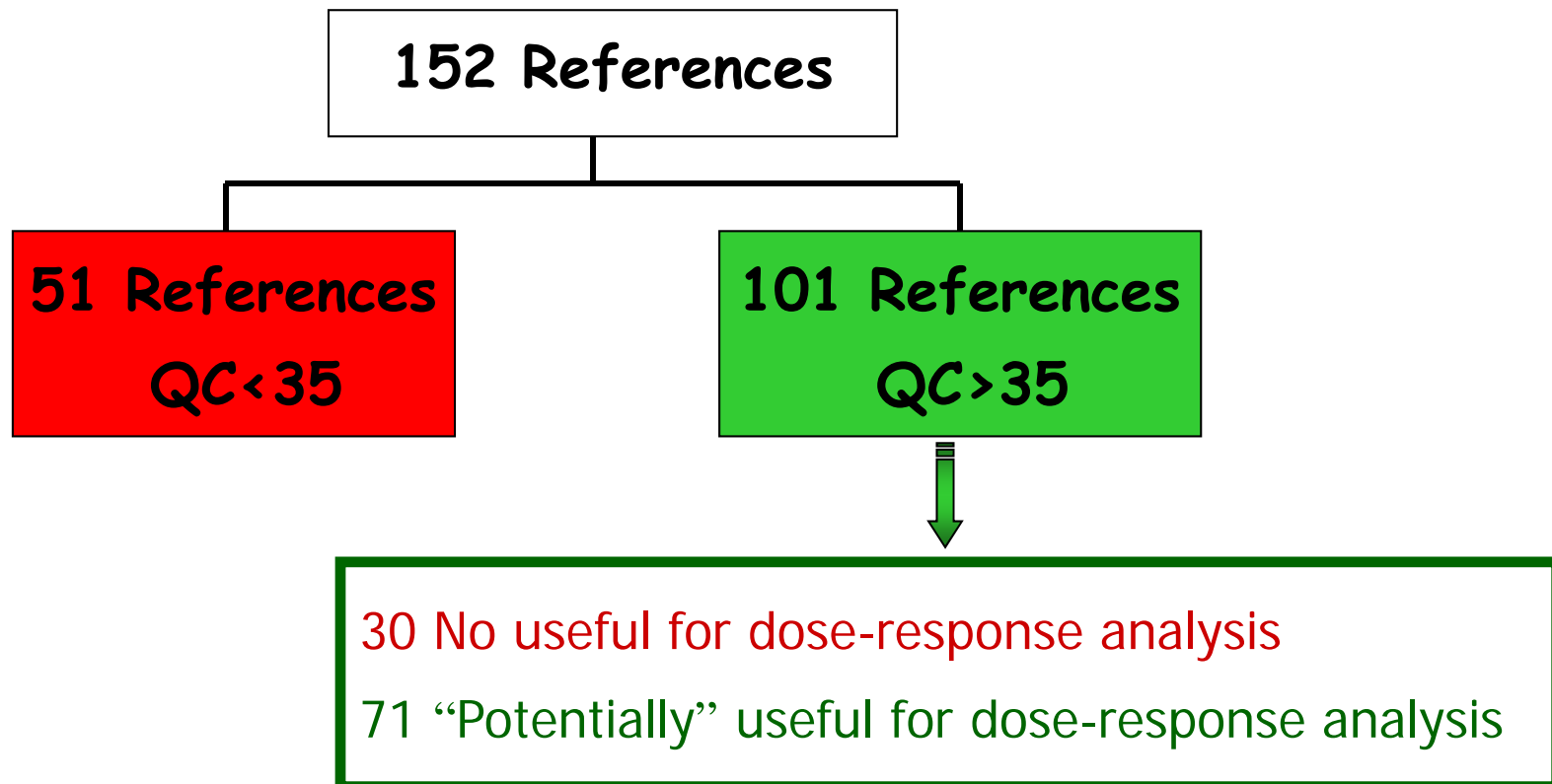
Spain (CIEMAT): **Almudena Real**

Sweden (Vattenfall & SU): **Synnove Sundell-Bergman, Karolina Stark**

United Kingdom (EA): **Laura Newsome; David Coplestone**

EMRAS II (WG6): FREDERICA Update

- Around 20 new references on Plats were added (QC analysis done) (January-February 2010): Included in dose-response analysis



- The information included in FREDERICA has been checked

FREDERICA Update: Russian Literature

Sergey Fesenko (IAEA)

Stanislav Geraskin. Russian Institute of Agricultural Radiology & Agroecology (RIARAE).

66 Refs (6 already in FREDERICA, but incomplete)

All but 2 have QC > 35

- Type of study: Field (59%); Controlled field (26%); Laboratory (15%).
- Wildlife groups: Plants (77%); Mammals (18%); Other species (Insects, fish, invertebrates 5%)
- Endpoints: Repr (24 %); Mut (21 %); Morb (17 %); Mort (10 %); Others (Adaptation; Ecology, Biochem., Morphol., 28 %)

EMRAS II (WG6): **FREDERICA Update**



FREDERICA Radiation Effects Database

Around 1,500 references

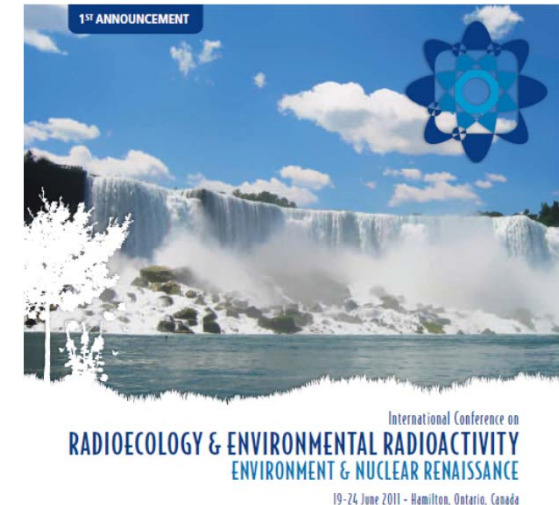
WG-6 of EMRAS-II: 2009-2010

218 references

66 Russian literature

EMRAS II (WG6): FREDERICA Update

- Abstract for the International Conference on Radioecology & Environmental Radioactivity. June 2011 Hamilton, Canada



FREDERICA Effects Database Update within the EMRAS-II Programme: Contributing to evaluate the environmental impact of Ionizing Radiation. Real A., Horemans N, Newsome L., Oudalova A., Stark k., Willrodt C., Yoshida S., Hinton T.

Accepted POSTER

FREDERICA Database:

We need to fix few things

- Amphibians-Reptiles references. Some are not included. Check this!
- All the information added is not public. Yet!
- Russian references (66 Refs) will be added to FREDERICA.

THINGS THAT COULD IMPROVE (July 2009)

- FREDERICA only runs with Microsoft Internet explorer.
- Problems in downloading the “Manual describing the use of FREDERICA”
- Users can NOT review the already saved files: can not check the data added; can not save the data during the adding procedure.
- Some times you don´t get an “OK” or “failure” message after adding a reference.
- ICRP list of RAPs is not complete.
- Ones you add data you have two options “ADD ALL” “ADD MID”. It will be useful to have the option “COPY” (to keep the “study information”: wildlife group, radiation, doses and dose-rates)