



الوكالة الدولية للطاقة الذرية

国际原子能机构

INTERNATIONAL ATOMIC ENERGY AGENCY
AGENCE INTERNATIONALE DE L'ENERGIE ATOMIQUE
МЕЖДУНАРОДНОЕ АГЕНТСТВО ПО АТОМНОЙ ЭНЕРГИИ
ORGANISMO INTERNACIONAL DE ENERGIA ATOMICA

**Fourth EMRAS Biota Working Group Meeting
12–14 June 2006
IAEA Headquarters, Vienna**

MINUTES

Attending

Mikhail Balonov (MB) (Scientific Secretariat)	IAEA
Karine Beaugelin-Seiller (BS)	IRSN, France
Angela Becker (AB)	GRS, Germany
Nick Beresford (NAB) (Co-chairperson)	CEH, UK
Justin Brown (JB)	NRPA, Norway
Masahiro Doi (MD)	NIRS, Japan
Rudolf Heling (RH)	NRG, Netherlands
Jo Hingston (JoH)	EA, UK
Jan Horyna (JH)	SÚJB, Czech Republic
Ali Hosseini (AH)	NRPA, Norway
Brenda Howard (BJH) (Co-chairperson)	CEH, UK
Sunita Kamboj (SK)	ANL, USA
Alexander Kryshev (AK)	SPA Typhoon, Russia
Ivan Kryshev (IK)	SPA Typhoon, Russia
Tatiana Sazykina (TS)	SPA Typhoon, Russia
Jordi Vives i Batle (JV)	WSC Ltd., UK
Tamara Yankovich (TY)	AECL, Canada

Note – Initials used to refer to participants within minutes and actions as appropriate.

MINUTES

Exercise 1

JV presented results of analyses of Exercise 1 results. A programme of work was agreed to ensure submission of a paper to a refereed journal on this exercise prior to the November EMRAS meeting (see actions). All partners agreed that their preference was for models to appear by name within the paper.

Note all revisions to the exercise outputs and any text on model description should be sent to JV and copied to NAB.

Exercise 2

NAB present results of the analyses of Exercise 2 results. KS confirmed that RESRAD-BIOTA results would be provided for aquatic organisms in addition to terrestrial biota. A programme of work was agreed to enable discussion of a draft paper at November's meeting.

Note all revised/new exercise outputs should be sent to NAB copied to JV; send any text to NAB.

Perch Lake

Application of models/approaches and results were presented for ECOMOD, CASTEAUR-EDEN, D-Max, ERICA, EPIC-DOSES3D, EA R&D128, LAKECO and AECL. TY presented a comparison of results during which it was agreed that some participants (ERICA, EA R&D128, LAKECO) needed to resubmit their results. RESRAD-BIOTA will also supply results to the schedule agreed and NAB will discuss with LIETDOS-BIO. See action list for agreed timetable for progressing this scenario. The majority of participants did not want to remove the potential variability resulting from not being descriptive with regards to e.g. habitat assumptions for each species.

Note all revised results and any descriptive text to be sent to TY copied to NAB.

Chernobyl

Methods of application to the scenario and results were presented by ERICA, EA R&D128 and FASTER-DOSES3D. Limit comparison was made at this stage as other groups intend to submit results and two of the existing results sets require checking/resubmission. It was agreed that with the exception of those data entries for which TLD measurements are available only one prediction of dose per species was appropriate. A revised results sheet will be circulated (*note this will also contain a few – apologies NAB*). The agreed timetable will allow comparison of results and data with sufficient time prior to the November meeting to ensure we can make good progress during the meeting.

Note all outputs and text to be sent to NAB

Additional Scenarios

Two potential scenarios were presented TeNorm sites in the Komi Republic (JB) and the Humber Estuary (JH). The Humber Estuary will be further evaluated to determine if it can be used by the BWG.

General

MB presented an overview of the IAEA co-ordination on protection of the environment. Details can be found on <http://www-ns.iaea.org/tech-areas/waste-safety/coord-group-on-protec-environment.htm>.

BJH presented an overview of the PROTECT project which is an EC FP6 project currently completing contract negotiations (due to start October 2006). Participants will be notified of the project website as it becomes available.

KS noted that there was an updated version of RESRAD-BIOTA now available. The code is available at no cost from the BDAC web site (<http://homer.ornl.gov/oepa/public/bdac>) and the RESRAD codes web site

(<http://web.ead.anl.gov/resrad>). A User's Guide is also available. KS also provided details of EPA reports which contain useful 'live-history' information for use in environmental assessments: <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=2799>

Next Working Group Meeting

The next WGM will be held during the Fourth EMRAS Combined Meeting, 6–10 November 2006, inclusive. Monday and Friday mornings will be plenary sessions. The BWG co-chairs will try to accommodate requirements for people to attend other working groups if possible by liaising with other working group chairs.

ACTIONS AND AGREED TIMETABLES

Action	Responsible	Due date
Exercise 1		
Submit any revised values	All participants	30 June 2006
Check range on Table 5 which appears to be in error	JVB	
Contact SCK-CEN with specific queries noted	JVB	30 June 2006
Provide/check text on approach and application	All participants	30 June 2006
For ECOMOD application (i) check salmonid egg result for C-14; (ii) confirm no β component to Co-60 and Cs-137 estimates	TS	30 June 2006
Confirm external α absorption assumptions within EDEN and AECL approach	KB and TY	30 June 2006
Ensure FASSET and ERICA methodologies in paper properly explain external assumptions for Sr-90	NAB	30 June 2006
Advise JV on suitable journals for submission	BJH/NAB	30 July 2006
Replace Table 12 with more recent assessment from Federal Guidance Report 12 (SK has supplied to ICRP dosimetry working group)	JVB	
Repeat analyses of results without H-3 and C-14	JVB	
Delete within air doses from comparison	JVB	
Exercise 2		
Send out current results version to all participants (also Exercise 1) again	NAB	23 June 2006
Confirm source data for ECOMOD values – predominantly Russian language? Include in action below	TS	30 July 2006
Provide maximum 2 pages on approach [with references] and detail of how applied in exercise as appropriate	All participants	30 July 2006
Investigate RESRAD actinide predictions	KS	30 July 2006
Submit final results for exercise	All participants	30 July 2006
Final draft paper for discussion by November meeting	NAB/BJH	15 Oct. 2006

Action	Responsible	Due date
<i>Perch Lake Scenario</i>		
Provide TY with D-Max text and any presentations from Vienna	NAB	23 June 2006
Discuss scenario with LIETDOS-BIO	NAB	30 June 2006
Circulate draft table of information required	TY	30 July 2006
Rerun LAKECO-B for biota component only	RH	30 Aug 2006
Provide revised/new model estimates if applicable	All participants	30 Aug 2006
Provide maximum 2 pages of text on approach [with references] and detail of how applied in scenario as appropriate and completed information table.	All participants	30 Aug 2006
<i>Chernobyl Scenario</i>		
Supply revised spreadsheet with dose pages revised for recording data with TLD results and one example of each species only	NAB	23 June 2006
Resubmit results as appropriate	All participants	30 Sept. 2006
Provide maximum 2 pages of text on approach [with references] and detail of how applied in scenario as appropriate and completed information table.	All participants	6 Nov. 2006
<i>Additional scenarios</i>		
Confirm availability of Humber Estuary scenario to NAB	JH	30 June 2006
<i>General</i>		
Provide link to RESRAD-BIOTA new version	NAB	In this document
Provide details of IAEA co-ordination webpage	NAB	In this document
Let NAB know if participants need to attend any other WGs during Novembers EMRAS meeting	All participants	30 Aug 2006
Provide address of PROTECT project website	BJH	When available