Outline

• We met in Kiev in September
• Describe Scenario A
• Show some results from Scenario A
• What is next?
Scenario A v2

• Based on data from Sizewell, UK
  – Includes information about the site, as well as habits information for near by residents

• Additional parameters selected from a variety of sources
  – Parameter values chosen from IAEA technical documents, ICRP documents, CSA documents, or recommended by the participants in a previous Working Group 1 meeting

• By providing an extensive list of parameters, each participant should be modelling the identical scenario. This allows us to directly compare the models through the results.
The Scenario

• Includes an atmospheric release of Co-60, Cs-137, I-131, and Kr-85 at a rate of 1 TBq/a

• Includes a marine release of Co-60, Cs-137, and Sr-90 at a rate of 1 TBq/a

• Includes a cattle/sheep farm at a distance of 1 km from the source

• Includes a fishing location at 300 m distance from the source

• Includes a population living at 300 m distance from the source who ingest local beef, sheep, milk, fish, crustaceans, and molluscs
Iodine Results

- I-131 (A)
  - Internal dose rate from inhalation
  - External dose rate from air immersion (cloudshine)
  - Internal dose rate from ingestion of green vegetables
  - Internal dose rate from ingestion of domestic fruits
  - Internal dose rate from ingestion of cow produce (milk)
  - Internal dose rate from ingestion of cow produce (beef)
  - Internal dose rate from ingestion of sheep produce
  - External dose rate from groundshine
  - Internal dose rate from ingestion of root vegetables
  - External dose rate from direct radiation

- Countries:
  - France
  - Brazil
  - UK
  - Belarus
  - Slovak Republic
  - Canada
  - Argentina
What is next?

- More variability in Iodine (needs further analysis (will be discussed).
- Marine had more variability, we fixed more parameters. (will discuss this week).
- We have started Scenario C (the river model).
- We have started setting up our outline for the final report.