



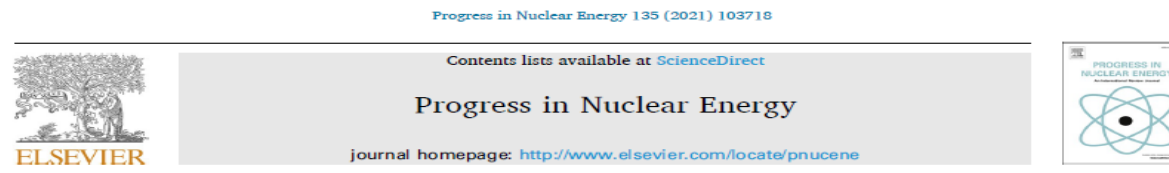
Atmospheric Dispersion & Dose Assessment

ASEAN NPSR 4th Annual Meeting

By Tang Jia Hao

Past Benchmark Problem

- The aim is to summarize the efforts of the ASEAN NPSR in comparing the release results of transboundary atmospheric dispersion from a hypothetical accident.
- Inter-comparison of atmospheric dispersion calculations were performed by different calculation codes employing Lagrangian particle and Gaussian puff models with the same weather conditions.



Inter-comparison of transboundary atmospheric dispersion calculations: A summary of outputs from the ASEAN NPSR benchmark exercise

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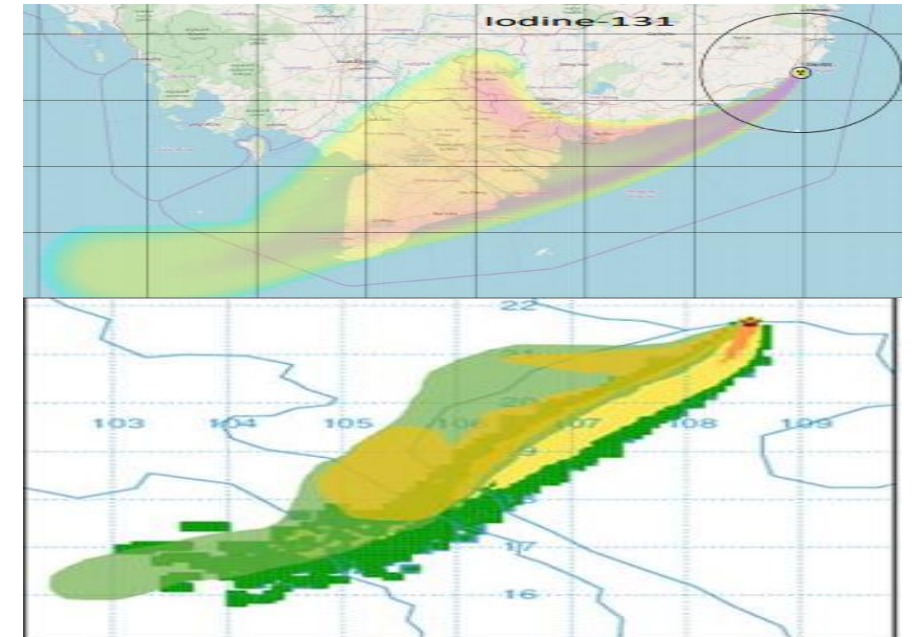
Current Work(SNRSI)

Atmospheric dispersion of radionuclides

- Risk map analysis of long-range dispersion
- Evaluation of short-term Numerical Weather Prediction model

Dose Assessment

- Preliminary investigation of factors unique to the region
- Exposure to software (RESRAD,MACCS)



Proposal

Focus on atmospheric dispersion from existing NPP and dose assessment from such accidental release. Assessment of radiation dose methodology unique to our region could be a possibility

- Long range dispersion of radionuclides
 - Specific Scenario of interest
 - Factors of interest
- Dose assessment evaluation specific to ASEAN region
 - Benchmark of Dose assessment methods/tools

Participants can introduce their area of expertise and propose their view on the research interest of the network

Modes of collaboration

How can the collaboration be done in the network?

Discussion can also cover ways the research or collaboration can be conducted

- Online Workshop
- Joint Studies
- Research Projects for students
- Field Trips

Discussion points

ASEAN NPSR
4th Annual Meeting

1. Forecast Model Comparison
2. Extension of last benchmark problem to Dose assessment
3. Analysis and investigation of Parameters for dose assessment
4. Dose Assessment-routine measurement linkup
5. Workshop
 - FLEXPART
 - Dose assessment

