

**Minutes of the 4th FINSKEN co-ordination meeting
24 January 2002, Finnish Environment Institute, Helsinki**

Present:

Tim Carter, chair	FEI-1
Stefan Fronzek, secretary	FEI-1
Milla Johansson	FIMR
Kirsti Jylhä	FMI-1
Kimmo Kahma	FIMR
Jari Kaivo-oja	FFRC
Jukka Käyhkö	FIGARE co-ordinator
Maria Lindström	FEI-1
Tuomas Laurila	FMI-2
Sanna Syri	FEI-2
Heikki Tuomenvirta	FMI-1

Apologies for absence:

Ilona Bärlund	FEI-1
Martin Forsius	FEI-2
Jouko Launiainen	FIMR
Virpi Lindfors	FMI-2
Jyrki Luukanen	FFRC
Juha-Pekka Tuovinen	FMI-2
Markku Wilenius	FFRC

1. **Opening and welcome:** The chairman opened the meeting and introduced the new FINSKEN member Stefan Fronzek (FEI) who substitutes Ilona Bärlund (FEI).
2. **Minutes of the 3rd FINSKEN co-ordination meeting were approved.**
3. **Jukka Käyhkö presented a FIGARE progress report:**
 - a. Information for the **final report** for the academy will be collected through a web-based form which project groups will be requested to fill out.
 - b. A **FIGARE book** will be edited by Esko Kuusisto (SYKE) and Jukka Käyhkö. It will be a colourful "coffee table" book aimed at the layperson, in Finnish to be sold in Finnish bookstores. An editorial board has been set up with currently 12 members, one of them being Tim Carter representing the "scenarios" community.
 - c. A **final FIGARE meeting** will be held in November 2002; current plans are that it will be a national meeting for 2 – 3 days, open for non-FIGARE people and possibly with international keynote speakers.
4. **Co-ordination update**
 - a. A written report was distributed; see there for more details.
 - b. A **project seminar** was held in May 2001.
 - c. **Progress reports for 2000** have been compiled but not yet been put the web-site; this will be done soon. → **ACTION: FEI-1**
 - d. Tim presented the FINSKEN **web-pages** which were set up during 2001 mainly by Ilona Bärlund. These can be found at: <http://www.vyh.fi/tutkimus/ilmakeha/finsken/> and <http://www.vyh.fi/eng/research/projects/finsken/welcome.html>
5. **Status reports**

Progress with the climate scenarios was presented by Heikki and Kirsti:

 - a. A written report was distributed; see there for more details.
 - b. SRES-based **climate change runs** are now available for some GCMs at the IPCC Data

Distribution Centre and a preliminary analysis of these has been completed.

- c. Changes in **atmospheric circulation** has been studied. Tuomas pointed out that these results could be nicely compared with results from atmospheric modelling.

Progress with the sea-level scenarios was presented by Kimmo:

- a. A written report was distributed; see there for more details.
- b. The **land-uplift** for Finland has been re-computed for coastal sites. Future **predictions for sea-level** are being made for the same locations, based on the SRES emission scenarios.
- c. FIMR is now at the stage that **co-operation with FMI-1 can start**. Predictions of global mean sea-level changes and changes in NAO are needed from FMI-1. → *ACTION: FIMR and FMI-1*

Progress with the surface ozone scenarios was presented by Tuomas:

- a. An extended abstract showing much of the work of FMI-2 was distributed; see there for more details. A written status report will be delivered soon. → *ACTION: FMI-2*
- b. Results of the surface ozone **scenarios for 2050** have been completed; scenarios for up to 2070 are in the plans for the current year.
- c. Analysis of the SRES emissions scenarios and of model estimates of ozone based on these, suggests that some scenarios are unrealistic with respect to emissions of ozone precursors, taking into account recent and anticipated emissions trends in Europe. Modifications of the emissions scenarios may be necessary or some scenarios will have to be left out.

Progress with the acid deposition scenarios was presented by Sanna:

- a. A written report was distributed; see there for more details.
- b. Acid deposition **scenarios** have been prepared for a time horizon **out to 2100**.
- c. In collaboration with the EU AIR-CLIM project an integrated analysis of the **linkage between climate change and air pollution** was done.
- d. Long-term scenarios show very **unrealistic results for some of the SRES emission scenarios**. Not all SRES scenario families provide plausible results for atmospheric modelling (as is the same for the ozone scenarios, see above). Qualitative statements of the probabilities of each SRES scenario with respect to atmospheric predictions derived from them will be prepared. → *ACTION: FEI-2*

Progress with the socio-economic scenarios was presented by Jari:

- a. A written report was distributed; see there for more details.
- b. **Interviews** of key stakeholders will be conducted during spring 2002. Focus is planned to be technological change (e.g. the building of new nuclear power plants) and climate policies. In the opinion of several of the participants this focus was thought to be too narrow for fulfilling the goals of FINSKEN. There is an expectation (already expressed by some participants at the FINSKEN Seminar in May 2001) that the socio-economic scenarios should treat a range of issues, such as population, economic development, transport, industrial development, as well as energy. Technological change is important also, but not only with reference to the energy sector. However, climate policy should not be a focus, as this is outside the scope of the project. Prior to conducting the interviews, it was thought useful to circulate the list of questions to be posed among the FINSKEN partners for feedback. → *ACTION: FFRC and all Partners*
- c. Jari expressed his concern about the **technical assumptions of the SRES scenarios** regarding the development of socio-economic scenarios for Finland. In his opinion, the SRES scenarios are too aggregated to describe Finnish socio-economic situations and trends are represented as being unrealistically linear. Tim invited him to write a short note describing his criticism to distribute among the FINSKEN members for discussion. → *ACTION: FFRC*
- d. Discussion on the development of socio-economic scenarios seems to be necessary, and more frequent FINSKEN meetings on this theme were suggested. Though the remaining project time is short, an attempt will be made to improve communications. → *ACTION: FEI-1 and FFRC*

6. Scenario provision and guidance

- a. Stefan presented an outline of a **web-based tool** to visualise, explore and allow to download the scenarios developed within FINSKEN.
- b. The **language** of the web-side will be both English and Finnish.
- c. The web-based tool can be expanded after the completion of FINSKEN to serve as a common

scenario tool for Finland. New projects will have to be set up for this.

- d. To organise the collection of data, maps and diagrams, a small questionnaire will be prepared and sent out to the FINSKEN members by email. → ACTION: FEI-1

7. FINSKEN final meeting

- a. A **final FINSKEN meeting between October – December 2002** was thought to be necessary to present the results of the project; the main audience will be the potential users of the scenarios. One goal of it will be to 'advertise' the FINSKEN scenarios.
- b. A list of potential international **keynote speakers** was presented and discussed.
- c. Suggestions were made for the **meeting** to be partly of scientific **nature**, partly to focus on policy dialog and also to inform the general public.
- d. **Co-ordination with FIGARE** is needed to check out if some of the FINSKEN needs can also be covered by the final FIGARE-meeting. → ACTION: FEI-1
- e. Some **options for the meeting will be drafted** and sent out among the FINSKEN members by email; final decisions will be made in the next project meeting. → ACTION: FEI-1

8. FINSKEN publications

- a. Tim's suggestion to **compile a special issue of a scientific journal** to present the FINSKEN results was generally accepted.
- b. A suggestion of a special issue for FINSKEN will be made to *Boreal Environment Research*; the list of suggested articles could comprise an editorial, one article from each scenario group, and one final article that attempts to integrate the findings and looks to the future. → ACTION: FEI-1
- c. A **submission of the articles in autumn 2002** was suggested. This allows drafts to be used for the final FINSKEN meeting.

9. Any other business

- a. No other business was discussed.

Timothy Carter
chairman

Stefan Fronzek
secretary