

## BALTEX Project Identification

1. Title of Project: Coastal Meteorology in the Northern Baltic Sea

2. Principle Investigator: Prof. Hannu Savijärvi

Participants: Timo Vihma, Sami Niemelä, Lorenzo Claveri, Priit Tisler, others are welcome

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4. Duration of the project (at least start date):

15.11.2006

5. Scientific Objective:

- a) to better understand mesoscale atmospheric dynamics and thermodynamics in the coastal zone with large spatial variations in the surface roughness and temperature
- b) to develop improved methods for high-resolution forecasting the wind, temperature, fog, clouds, and precipitation in the coastal zone

6. Methodology and Approach:

Mesoscale atmospheric models are applied to simulate the dynamics of coastal zones. The following models are applied: HIRLAM, AROME, MM5, and the 2D model of the University of Helsinki.

7. BALTEX Phase II objective(s) addressed:

- Objective 1. Better understanding of the energy and water cycles over the Baltic Sea basin
- Objective 3. Provision of improved tools for water management, with an emphasis on more accurate forecasts of extreme events.

8. Project internet address

8.1 Additional remarks

The project is a network of scientists working with similar topics, but there is no centralized funding for the project.

9. Communicated by BALTEX SSG member (name):

Timo Vihma

10. Registered at BALTEX Secretariat