

- A special journal issue was dedicated to the 5<sup>th</sup> Study Conference on BALTEX, held at Kuuressare on the Estonian island of Saaremaa from 4 to 8 June 2007.
- The following 23 papers appear in BOREAL ENVIRONMENT RESEARCH, Vol. 14, No. 1, 2009:
- Carlsson, B., Rutgersson, A. & Smedman, A.-S.: Investigating the effect of a wave-dependent momentum flux in a process oriented ocean model. pp. 3–17
- Gustafsson, E. O. & Omstedt, A.: Sensitivity of Baltic Sea deep water salinity and oxygen concentration to variations in physical forcing. pp. 18–30
- Jaagus, J.: Regionalisation of the precipitation pattern in the Baltic Sea drainage basin and its dependence on large-scale atmospheric circulation. pp. 31–44
- Jakobson, E., Ohvril, H. & Elgered, G.: Diurnal variability of precipitable water in the Baltic region, impact on transmittance of the direct solar radiation. pp. 45–55
- Lind, P. & Kjellström, E.: Water budget in the Baltic Sea drainage basin: Evaluation of simulated fluxes in a regional climate model. pp. 56–67
- Tedesco, L., Vichi, M., Haapala, J. & Stipa, T.: An enhanced sea-ice thermodynamic model applied to the Baltic Sea. pp. 68–80
- Bhend, J. & von Storch, H.: Is greenhouse gas forcing a plausible explanation for the observed warming in the Baltic Sea catchment area? pp. 81–88
- Draveniece, A.: Detecting changes in winter seasons in Latvia: the role of arctic air masses. pp. 89–99
- Jacob, D. & Lorenz, P.: Future trends and variability of the hydrological cycle in different IPCC SRES emission scenarios a case study for the Baltic Sea region. pp. 100–113
- Kjellström, E. & Lind, P.: Changes in the water budget in the Baltic Sea drainage basin in future warmer climates as simulated by the regional climate model RCA3. pp. 114–124
- Madsen, K. S. & Højerslev, N. K.: Long-term temperature and salinity records from the Baltic Sea transition zone. pp. 125–131
- Saue, T. & Kadaja, J.: Simulated crop yield an indicator of climate variability. pp. 132–142
- Sepp, M.: Changes in frequency of Baltic Sea cyclones and their relationships with NAO and climate in Estonia. pp. 143–151
- Soomere, T., Leppäranta, M. & Myrberg, K.: Highlights of the physical oceanography of the Gulf of Finland reflecting potential climate changes. pp. 152–165
- Venäläinen, A., Jylhä, K., Kilpeläinen, T., Saku, S., Tuomenvirta, H., Vajda, A. & Ruosteenoja, K.: Recurrence of heavy precipitation, dry spells and deep snow cover in Finland based on observations. pp. 166–172
- Graham, L. P., Olsson, J., Kjellström, E., Rosberg, J., Hellström, S.-S. & Berndtsson, R.: Simulating river flow to the Baltic Sea from climate simulations over the past millennium. pp. 173–182
- Kowalewska-Kalkowska, H. & Wisniewski, B.: Storm surges in the Odra mouth area during the 1997–2006 decade. pp. 183–192
- Kundzewicz, Z. W.: Adaptation to floods and droughts in the Baltic Sea basin under climate change. pp. 193–203
- Gryning, S. E., Soegaard, H. & Batchvarova, E.: Comparison of regional and ecosystem CO<sub>2</sub> fluxes. pp. 204–212

- Laanemets, J., Zhurbas, V., Elken, J. & Vahtera, E.: Dependence of upwelling-mediated nutrient transport on wind forcing, bottom topography and stratification in the Gulf of Finland: Model experiments. pp. 213–225
- Langner, J., Andersson, C. & Engardt, M.: Atmospheric input of nitrogen to the Baltic Sea basin: present situation, variability due to meteorology and impact of climate change. pp. 226–237
- Rutgersson, A., Norman, M. & Åström, G.: Atmospheric CO<sub>2</sub> variation over the Baltic Sea and the impact on air–sea exchange. pp. 238–249
- Leal Filho, W. & Mannke, F.: Towards policies and adaptation strategies to climate change in the Baltic Sea region outputs of the ASTRA project. pp. 250–254