

The heat budget of a sporadically open coastal lagoon

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The five coastal lagoons in the Tokachi region of southeaster Hokkaido open several times per year to the Pacific Ocean. The lagoons drain more than 96 % water by the openings. In this presentation, the heat budget of the Oikamanai Lagoon, one of the lagoons, was estimated for some periods of closed and non-rainfall conditions. The water budget then estimated indicates that the river water input is balance by the groundwater output. As a result, a seasonal variation of the latent heat flux by evaporation from the lagoon surface appears to control the whole heat budget.

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