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Seasonal and diurnal evaporation from a deep hypersaline lake: The Dead Sea as a case study

I. Hamdani, S. Assouline, J. Tanny, I.M. Lensky, I. Gertman, Z. Mor, N.G. Lensky

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Seasonal and diurnal evaporation from a deep hypersaline lake:**The Dead Sea as a case study****Hamdani I.^{1,2}, Assouline S.³, Tanny J.^{3,4}, Lensky I.M.⁵, Gertman I.⁶, Mor Z.^{1,2},****Lensky N.G.^{1,*}**¹ Geological Survey of Israel, Jerusalem, Israel.² Institute of Earth Sciences, The Hebrew University of Jerusalem, Israel.³ Institute of Soil, Water and Environmental Sciences, Agricultural Research Organization, Volcani Center, Rishon LeZion, 7505101, Israel.⁴ HIT - Holon Institute of Technology, Holon 58102, Israel.⁵ Department of Geography and Environment, Bar Ilan University, Ramat-Gan, Israel.⁶ Israel Oceanographic and Limnological Research, Haifa, Israel.* Corresponding author: Nadav G. Lensky (nadavl@gsi.gov.il)

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1. Abstract

Evaporation plays a major role in lake systems, as it affects the water, energy and solutes budgets. Water salinity reduces evaporation, and as a result affects the energy budget of the lake, including stored heat. In this study, we explore the seasonal and diurnal variations of evaporation and other energy fluxes over the Dead Sea, the deepest and saltiest hypersaline lake on Earth. We present two consecutive years observations using Eddy Covariance system, meteorological stations and a buoy

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