

Variability of evaporation over Lake Kasumigaura

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Evaporation distribution over the Lake Kasumiguara was estimated using satellite and surface meteorological data to investigate variability of the surface fluxes and environmental factors influencing the distribution. Bulk aerodynamic method with bulk coefficient estimated at central part of the lake from flux observation, together with surface temperature derived from Landsat-TM or ASTER-satellite sensors was applied for this purpose. The lake surface temperature was almost uniform with difference of 1-2 degrees, while evaporation tended to show more variability. This variation was found to be caused not mainly due to the variability of lake surface temperature, but that of wind speed and direction.