

Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brho@lehigh.edu/~brhd) 41°22.5'N 75°17.3'W elevation 428m

24 March 2012: platform moved to lake center, 12-1:00pm 13Nov 2011: platform move to dock 12-1pm

The water level sensor (referenced to dock) settles for several days after moving platform to lake center and thus underestimates water level during this period.

Dec11: Tw12 appears to be falling (drifting upward); need to check or replace when possible

H310 sensor depth & Lake level are based on differential pressure

sensor with ca 0.1mm resolution & vertical position referenced to bottom of lake.

Sensor PSIC converted to depth using density of water at 40C (1.43321 psim)

Lake level is referenced also to lower frame of dock at SE corner (2003-May2005)

(Actual water level at dock varies seasonally with density of water column and hourly from precip, runoff, evaporation, seepage & outflow. Outflow also varies with status of beaver dam).

Summary table with columns for monthly averages (Tair avg, Tair max, Tair min, Rain-in, WS-max, WS-min, WDIR-deg, Barom-mb, Sum Rad W/m2, Sum PAR, etc.) and monthly totals for 2012.

Main data table with columns for Date, Day of Yr, Tair avg, Tair Hi-C, Tair Min-C, RH-air-%, Rain-mm, WS-nvs m/s, WS Max WDIR-deg, Barom-mb, Sum Rad J/m2 Mol/m2, Sum PAR, Tw 0.1m, Tw 0.5m, Tw 1m, Tw 2m, TW3m, TW4m, TW5m, TW6m, TW8m, TW H310-C-Tw12m, H310 depth-m, Lakelevel-cumul. rain-mm (40C), Batt min-V, RH% CR10, RH% MUX.

Lake water & energy budget daily summary from hourly data (negative values: loss from lake; runoff & seepage term is residual after adjusting lake level change for all others)

Summary table for lake water & energy budget showing Grand sum/avg for various parameters like Rain-runoff, WS-nvs, WDIR-deg, Barom-mb, etc.

Complex summary table for solar heat and energy budget, including columns for Nominal diffuse, Solar heat input, Solar heat absorbed, % of absorbed solar heat lost via evap, Solar heat input absorbed from solar rad., etc.

Detailed daily data table for lake water & energy budget, with columns for DATE, Day/Off, AvgTair, AvgTw, AvgTWO.5, AvgTw1m, AvgTw2m, AvgTw3m, AvgTw4m, AvgWS, SumRad, SumH Evap, SumLk, M/SumRain, Runoff & seepage, SumLake, Sum evap, Terrepav2.