

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

24 March 2012: platform moved to lake center, 12:10:00pm 3Nov 2012: platform move to dock by 12N

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 failing (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 PSIG converted to depth using density of water at 40C (1.43321 ps/m)

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 data table for 2011-2012 season. Columns include: rain sum (in), rain sum (out), wind speed (WS-nph), wind max (WS-max), wind dir (WDIR-deg), barometric pressure (Barom-mb), solar radiation (Sum PAR), and various wind speed (Tw) and temperature (T) measurements.

Main data table showing daily observations from 4/1/2013 to 4/30/2013. Columns include: Location, Date, Day of Yr, Tair avg, Tair Hi-C, Tair Min-C, RHair-%, Rain-mm, WS-m/s, WDIR-deg, Barom-mb, Sum PAR, and various Tw and T measurements. Includes a % records column and a 0% row at the bottom.

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 statistics for lake watershed to lake area: Ratio of lake watershed to lake area (2.6176758), Runoff & seepage as % of watershed area precip (31.6%), Grand sum avg (7.87, 10.16, 9.92, 9.75, 9.28, 9.08, 8.96, 1.6, 135264490, -33805, -3.9, 29.8, 24.6, -46.3, 0.0, 0.0).

Energy budget summary table. Includes: Normal diffuse %R from water=7%, Sum Terrepvap=2=AirV/PD, mbar*WS,m/s*s, Solar Heat Input, solar heat absorbed - evap loss, % of absorbed solar heat lost via evap, Solar Heat input absorbed from solar radi, Tw (0-6m), ending Tw (0-6m), actual dTw (0-6m), RESID: NON-SOLAR FLUX Heat loss to other absorbed solar to reach T<W LESS EVAP (degC 0-6m), evap loss (joule/degC 0-6m), slope intercept, 4.184, #N/A, #N/A, #N/A, #N/A, #N/A, #N/A, #N/A.