Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Station moved from shallow water (ca. 2.5m max) at dock to lake center on 21 April 2007
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.
Adjusted Tw sensors in October 2006 based on 1:15 minutes in cooler filled with surface lake water

MAJOR MALFUNCTION OF Tw sensors (multiplexor box?) starting 8pm 11Oct07

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 4°C (1.43321 psi/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).

							5280	ft/mile																					
							1609	m/mile																					
		Tair avg F	Tair max F	Tair min F		Rain-in	WS-mph	WS max mph					Tw 0.1m F	Tw 0.5m F	Tw 1m F	Tw 2m F	Tw 3m F	Tw 4m F	Tw 5m F	Tw 6m F	Tw 8m F	Tw 10m F	Tw 12m F							
		57.5	81.3	31.7		6.21	4.1	27					63.7	63.5	63.4	63.1	62.6	62.3	61.2	58.2	46.8	43.9	43.2							
Month summary		Tair avg-C	Tair Hi-C	Tair Min-C	RHair-%	Rain-mm	WS-m/s	WS Max-m/s	WDIR-deg	Barom-mb	Sum Rad W/m2	Sum PAR uM/m2/s	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	Tw 3m	Tw 4m	Tw 5m	Tw 6m	Tw 8m	Tw10.2 m	Tw11.5 m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
		14.2	**27.4**	**-0.2**	**84.0**	**157.7**	**1.8**	**12.0**	**228.9**	**967.0**	**366912**	**753371**	**17.6**	**17.5**	**17.5**	**17.3**	**17.0**	**16.8**	**16.2**	**14.5**	**8.2**	**6.6**	**6.2**	**10.2**	**0.8**	**157.7**	**12.6**	**10.7**	**12.9**	**102.2**

month (All)

Data

Location	% records	Date	Day of Yr	Tair avg-C	Tair Hi-C	Tair Min-C	RHair-%	Rain-mm	WS-m/s	WS Max-m/s	WDIR-deg	Barom-mb	Sum Rad W/m2	Sum PAR uM/m2/s	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	TW3 m	TW4 m	TW5 m	TW6m	TW8m	TW H310-C	TW12m	H310 depth-m (4oC)	Lakelevel-	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
LC	100%	10/1/2007	274	15.3	18.2	13.4	86.9	0.0	2.0	7.0	178	978.7	13528	27547	19.8	19.8	19.9	19.8	19.6	19.4	17.7	13.8	7.7	6.4	6.0	10.166	-71.9	0.0	12.7	10	11	97
LC	100%	10/2/2007	275	15.6	20.2	11.3	87.4	0.0	1.8	6.1	187	975.0	13055	26806	19.5	19.4	19.5	19.4	19.3	19.2	17.8	13.8	7.7	6.4	6.0	10.163	-74.9	0.0	12.6	10	11	100
LC	100%	10/3/2007	276	19.1	23.5	14.5	84.2	0.0	1.8	8.0	208	969.7	17660	36484	19.7	19.6	19.7	19.4	19.2	19.1	17.9	13.9	7.7	6.4	6.1	10.161	-77.2	0.0	12.7	10	10	100
LC	100%	10/4/2007	277	21.1	27.1	16.7	84.8	0.0	0.9	5.2	258	971.0	16574	34697	20.6	20.2	19.9	19.7	19.3	19.1	17.9	13.9	7.7	6.5	6.1	10.159	-79.0	0.0	12.7	10	10	101
LC	100%	10/5/2007	278	20.6	26.8	15.1	84.0	0.1	0.9	4.3	214	974.0	16219	33660	21.2	20.6	20.4	19.9	19.4	19.2	17.9	13.9	7.7	6.5	6.1	10.158	-80.3	0.1	12.6	10	10	101
LC	100%	10/6/2007	279	21.0	27.0	16.5	86.4	1.0	1.2	4.7	257	970.5	17778	37003	21.2	21.0	20.7	20.2	19.6	19.2	17.8	14.0	7.7	6.5	6.1	10.156	-81.6	1.1	12.6	10	10	101
LC	100%	10/7/2007	280	19.9	23.0	15.3	90.3	0.0	1.7	7.5	291	967.2	8969	19243	21.2	21.1	21.1	20.5	19.7	19.3	17.8	14.0	7.8	6.5	6.1	10.156	-82.4	1.1	12.6	10	10	100
LC	100%	10/8/2007	281	21.2	27.4	14.3	85.3	0.1	2.0	7.9	276	963.5	15771	33084	21.0	20.9	20.9	20.6	19.8	19.3	17.7	14.0	7.8	6.5	6.1	10.154	-84.2	1.2	12.6	10	10	101
LC	100%	10/9/2007	282	20.3	25.7	15.0	89.8	29.1	1.7	7.3	203	959.2	12444	25534	21.4	21.2	21.2	20.9	20.0	19.4	17.7	14.1	7.9	6.5	6.1	10.160	-77.8	30.3	12.6	10	12	101
LC	100%	10/10/2007	283	16.7	21.1	14.3	87.3	0.7	1.1	5.3	211	956.2	16918	34630	21.3	21.1	21.1	20.9	20.2	19.4	17.8	14.3	7.9	6.6	6.2	10.188	-50.2	31.0	12.6	10	22	101
LC	100%	10/11/2007	284	11.6	14.4	10.1	99.7	33.1	1.9	7.3	221	952.1	1450	3461	20.4	20.4	20.4	20.4	20.1	19.4	17.7	14.3	8.0	6.6	6.2	10.201	-36.8	64.1	12.6	11	23	101
LC	100%	10/12/2007	285	8.2	10.5	3.8	87.1	20.0	3.9	12.0	310	954.3	7713	15810	18.7	18.7	18.8	18.8	18.6	18.7	18.1	14.8	8.1	6.6	6.2	10.249	11.4	84.1	12.6	11	30	100
LC	100%	10/13/2007	286	7.3	12.3	2.8	81.6	0.0	1.7	7.0	258	961.8	13898	27531	17.5	17.5	17.5	17.5	17.4	17.3	17.1	15.8	8.1	6.6	6.2	10.252	14.2	84.1	12.7	11	14	98
LC	100%	10/14/2007	287	8.7	12.5	4.8	83.5	0.0	2.2	8.6	288	966.1	10136	20719	16.7	16.6	16.7	16.7	16.6	16.6	16.5	15.7	8.1	6.6	6.2	10.251	12.7	84.1	12.7	11	14	99
LC	100%	10/15/2007	288	10.2	15.5	5.6	85.6	0.0	1.7	7.3	282	969.6	15136	31304	16.2	16.2	16.2	16.2	16.1	16.0	15.8	15.5	8.1	6.6	6.2	10.249	10.7	84.1	12.7	11	12	100
LC	100%	10/16/2007	289	11.8	17.4	7.8	81.5	0.0	0.9	4.1	213	969.9	14018	28504	16.3	16.2	16.2	16.0	15.9	15.8	15.7	15.4	8.1	6.6	6.2	10.247	9.2	84.1	12.7	11	11	100
LC	100%	10/17/2007	290	14.4	20.8	9.1	91.5	0.0	0.7	3.5	205	967.8	10675	21995	16.6	16.2	16.1	16.0	15.9	15.8	15.7	15.3	8.2	6.6	6.2	10.246	8.1	84.1	12.7	10	11	100
LC	100%	10/18/2007	291	18.1	23.1	12.8	87.6	0.1	1.5	8.0	192	962.7	10890	22928	16.4	16.3	16.4	16.2	15.9	15.8	15.7	15.3	8.2	6.6	6.2	10.246	7.6	84.2	12.7	10	10	101
LC	100%	10/19/2007	292	19.4	21.7	13.3	96.4	17.5	2.2	9.4	206	955.0	4170	9572	17.0	16.9	16.9	16.5	16.0	15.8	15.7	15.3	8.2	6.6	6.3	10.248	10.4	101.7	12.7	10	10	100
LC	100%	10/20/2007	293	13.9	16.1	11.8	80.2	0.5	2.1	10.1	254	956.3	11765	23861	16.8	16.7	16.8	16.7	16.2	15.9	15.7	15.2	8.3	6.7	6.3	10.268	29.7	102.2	12.6	11	11	100
LC	100%	10/21/2007	294	16.2	23.6	10.2	58.4	0.0	1.9	5.4	244	969.4	16750	34333	16.4	16.4	16.3	16.1	16.0	15.8	15.6	15.2	8.3	6.7	6.3	10.266	27.9	102.2	12.7	13	12	79
LC	100%	10/22/2007	295	18.3	25.0	11.5	61.1	0.0	1.8	7.0	221	970.1	16127	32441	16.5	16.3	16.2	16.0	15.9	15.8	15.6	15.1	8.4	6.7	6.3	10.264	26.3	102.2	12.7	10	10	86
LC	100%	10/23/2007	296	18.0	20.5	12.4	88.3	6.3	3.4	11.0	232	959.6	4457	10010	16.4	16.3	16.3	16.2	16.0	15.8	15.6	15.1	8.4	6.8	6.3	10.264	25.7	108.5	12.7	10	11	100
LC	100%	10/24/2007	297	10.9	12.3	10.0	97.3	12.4	1.4	4.5	226	962.5	3375	7630	16.2	16.2	16.2	16.2	16.1	15.9	15.6	15.1	8.5	6.8	6.3	10.282	43.6	120.9	12.6	11	15	100
LC	100%	10/25/2007	298	10.2	13.9	7.8	84.2	4.6	1.9	7.7	87	973.6	14122	28180	15.9	15.9	15.9	15.9	15.8	15.7	15.6	15.1	8.5	6.7	6.3	10.290	52.1	125.5	12.6	11	13	100
LC	100%	10/26/2007	299	8.7	10.1	6.9	87.3	15.8	2.0	6.8	93	976.6	3280	7572	15.3	15.3	15.4	15.3	15.3	15.2	15.2	15.0	8.5	6.7	6.3	10.293	55.4	141.3	12.6	11	12	101
LC	100%	10/27/2007	300	12.8	15.6	10.2	91.9	16.4	2.0	8.7	198	965.7	4072	8959	15.0	14.9	15.0	14.9	14.9	14.8	14.8	14.8	8.6	6.7	6.3	10.325	86.6	157.7	12.6	11	13	102
LC	100%	10/28/2007	301	6.7	11.6	2.2	73.5	0.0	3.8	11.8	318	974.3	10275	20243	14.3	14.2	14.3	14.3	14.2	14.2	14.1	14.2	8.8	6.7	6.4	10.337	98.7	157.7	12.6	12	12	91
LC	100%	10/29/2007	302	4.0	9.0	-0.2	79.3	0.0	1.7	6.7	270	977.6	15581	30149	13.5	13.5	13.5	13.5	13.4	13.3	13.2	13.2	9.0	6.7	6.4	10.336	98.2	157.7	12.7	12	13	101
LC	100%	10/30/2007	303	8.4	14.7	4.0	72.3	0.0	1.5	5.7	269	975.9	14760	29495	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.8	9.3	6.8	6.4	10.336	97.5	157.7	12.7	12	12	93
LC	100%	10/31/2007	304	10.9	17.4	4.9	67.9	0.0	1.9	7.7	224	971.8	15347	29985	13.0	12.9	12.9	12.9	12.7	12.6	12.6	12.6	9.6	6.8	6.4	10.332	93.6	157.7	12.7	11	12	96