Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Station moved to shallow water (ca. 2.5m max) at dock from lake center on 12 November 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 13Nov07 based on comparison of depths and vs PUV & YSI sonde profiles (note that Tw at 11.3m matches PUV Tw at 12.5, probably within sediment boundary la
Tw12 adjusted to match others on bottom after moved to dock
MALFUNCTION OF Tw sensors (multiplexor box cable insulation damaged)

5280	ft/mile
1609	m/mile

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 4oC (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).

starting 8pm 11Oct07	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							
	38.0	65.2	17.2		3.88	4.1	26					45.9	46.1	46.1	45.9	46.5	46.4	46.0	46.1	45.6	44.1	43.4							
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	Tw10.3 m	Tw11.6 m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
	3.3	**18.5**	**-8.2**	**81.5**	**98.6**	**1.8**	**11.8**	**240.7**	**964.8**	**200703**	**396507**	**7.7**	**7.8**	**7.8**	**7.7**	**8.0**	**8.0**	**7.8**	**7.8**	**7.5**	**6.7**	**6.4**	**5.3**	**56.3**	**98.6**	**12.5**	**12.4**	**13.6**	**103.6**

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%	11/1/2007	305	10.0	12.6	4.7	72.2	0.0	2.6	7.9	274	966.4	5851	12306	12.5	12.6	12.6	12.6	12.6	12.6	12.5	12.5	9.6	6.9	6.6	10.308	62.1	0.0	12.7	11	12	84
LC	100%	11/2/2007	306	5.7	11.9	1.8	68.7	0.0	1.6	6.3	154	973.7	15307	29292	12.1	12.3	12.3	12.2	12.2	12.2	12.1	12.1	10.1	6.9	6.6	10.295	48.6	0.0	12.6	12	13	99
LC	100%	11/3/2007	307	5.5	10.3	1.1	56.1	0.0	2.3	8.3	226	962.2	7596	15129	11.6	11.8	11.8	11.8	11.7	11.8	11.7	11.7	10.5	6.9	6.6	10.290	44.0	0.0	12.7	12	13	94
LC	100%	11/4/2007	308	5.8	8.7	3.3	75.4	0.0	1.7	7.5	278	959.0	8906	17411	11.1	11.2	11.3	11.2	11.2	11.2	11.2	11.2	10.6	6.9	6.6	10.285	39.5	0.0	12.6	12	13	96
LC	100%	11/5/2007	309	6.5	11.0	0.8	75.2	2.2	2.0	9.6	233	961.0	12320	24020	10.9	11.0	11.0	11.0	10.9	10.9	10.8	10.8	10.4	6.9	6.6	10.282	36.1	2.2	12.6	12	12	101
LC	100%	11/6/2007	310	5.7	7.9	3.3	75.3	4.9	3.1	11.7	251	955.3	9231	18024	10.5	10.7	10.7	10.6	10.6	10.7	10.6	10.6	10.2	6.9	6.6	10.286	39.5	7.1	12.6	12	16	98
LC	100%	11/7/2007	311	2.8	4.7	-0.4	70.8	0.0	3.5	10.6	300	964.1	7606	15023	9.7	9.9	9.9	9.9	9.9	9.9	9.8	9.8	9.7	7.9	6.6	10.282	36.4	7.1	12.6	12	13	87
LC	100%	11/8/2007	312	-0.5	2.6	-4.3	79.4	0.0	1.0	3.7	260	968.4	8605	16518	9.2	9.3	9.3	9.3	9.3	9.3	9.2	9.2	9.1	8.7	6.6	10.279	33.1	7.1	12.6	13	14	99
LC	100%	11/9/2007	313	0.7	4.3	-2.4	85.1	2.0	1.2	4.6	161	965.8	6759	13513	8.8	9.0	9.0	8.9	8.9	8.9	8.9	8.9	8.8	8.6	6.6	10.276	30.5	9.1	12.6	13	14	102
LC	100%	11/10/2007	314	0.8	2.9	-0.6	98.8	1.8	1.6	4.7	173	966.0	3166	6678	8.4	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.4	6.7	10.278	31.6	10.9	12.5	13	14	103
LC	100%	11/11/2007	315	0.3	5.4	-2.9	81.0	0.0	1.3	7.3	275	971.3	14059	25259	8.1	8.3	8.3	8.2	8.2	8.2	8.1	8.1	8.0	8.0	6.9	10.276	29.8	10.9	12.5	13	14	102
LC	100%	11/12/2007	316	3.6	7.3	-1.4	90.9	1.8	1.0	3.8	210	968.7	2622	5623	7.8	8.0	8.0	8.0	8.0	8.0	7.9	8.0	7.9	7.9	7.4	7.719	27.9	12.7	12.6	12	13	100
ND	100%	11/13/2007	317	7.9	11.3	1.1	91.5	3.3	1.4	6.7	283	962.9	8663	17143	8.0	8.1	8.1	8.1	8.3	8.3	8.1	8.2	8.2	8.1	8.1	2.106	31.2	16.0	12.6	12	13	102
ND	100%	11/14/2007	318	6.6	12.3	0.3	98.5	0.9	0.8	6.6	228	958.7	4920	10236	8.0	8.0	7.9	7.8	8.1	8.1	7.8	7.9	7.9	7.8	7.8	2.105	29.9	16.9	12.6	12	13	102
ND	100%	11/15/2007	319	5.8	12.5	2.2	98.9	37.8	2.1	8.9	275	949.3	1557	3537	8.0	8.0	8.0	8.0	8.2	8.2	7.9	8.1	8.1	8.0	8.0	2.138	63.7	54.7	12.5	12	13	101
ND	100%	11/16/2007	320	1.0	3.0	-1.2	85.4	1.1	3.4	11.0	306	953.4	6554	12813	7.3	7.5	7.5	7.4	7.6	7.6	7.4	7.5	7.5	7.4	7.4	2.155	80.3	55.8	12.5	13	14	102
ND	100%	11/17/2007	321	0.7	2.9	-0.7	79.7	0.0	1.3	6.6	251	963.0	6463	12770	7.0	7.2	7.2	7.1	7.7	7.5	7.2	7.2	7.3	7.2	7.1	2.152	77.5	55.8	12.6	13	14	96
ND	100%	11/18/2007	322	-0.8	-0.2	-1.7	98.5	1.2	1.9	5.1	93	972.4	2753	6192	6.6	6.7	6.7	6.6	7.3	7.0	6.7	6.7	6.9	6.6	6.6	2.150	75.4	57.0	12.5	13	14	104
ND	100%	11/19/2007	323	-0.8	0.4	-1.8	103.2	1.2	1.8	6.5	108	975.4	2078	4968	6.0	6.1	6.1	5.8	6.5	6.2	5.8	5.9	6.0	5.8	5.7	2.157	82.0	58.2	12.5	13	14	104
ND	100%	11/20/2007	324	2.6	4.6	0.4	101.3	14.1	0.7	4.6	220	966.5	1325	2986	5.9	6.0	6.0	6.0	6.7	6.4	6.1	6.1	6.2	6.0	6.0	2.159	84.0	72.3	12.5	12	14	103
ND	100%	11/21/2007	325	8.8	15.4	2.7	96.6	0.0	0.6	5.5	231	962.4	5195	10845	6.2	6.1	6.1	6.1	6.7	6.6	6.2	6.3	6.4	6.2	6.1	2.161	86.3	72.3	12.5	12	13	103
ND	100%	11/22/2007	326	11.6	18.5	0.5	81.1	0.2	2.3	11.8	275	955.5	5075	10944	6.6	6.5	6.4	6.4	6.8	6.7	6.5	6.5	6.6	6.5	6.4	2.162	87.5	72.5	12.6	12	12	95
ND	100%	11/23/2007	327	-2.3	0.4	-5.3	68.0	0.0	3.9	9.3	324	966.9	9290	17590	5.9	6.0	5.9	5.8	6.1	6.2	5.9	6.0	6.0	5.8	5.9	2.156	81.7	72.5	12.5	13	14	82
ND	100%	11/24/2007	328	-3.8	0.1	-8.2	73.7	0.0	1.0	5.2	269	974.5	8422	15873	5.4	5.6	5.5	5.4	6.0	5.8	5.4	5.5	5.4	5.5	5.3	2.150	75.5	72.5	12.7	14	15	98
ND	100%	11/25/2007	329	1.3	7.6	-3.6	61.5	0.2	1.0	5.1	257	971.4	9026	17393	5.2	5.4	5.4	5.3	6.0	5.9	5.5	5.6	5.4	5.4	5.4	2.144	69.6	72.7	12.7	13	14	84
ND	100%	11/26/2007	330	4.4	11.5	1.5	101.0	24.3	0.6	6.0	205	963.1	1405	3294	5.1	5.2	5.2	5.2	5.9	5.8	5.4	5.5	5.4	5.3	5.3	2.145	70.8	97.0	12.7	12	14	102
ND	100%	11/27/2007	331	6.6	12.5	3.3	78.2	1.4	2.8	11.0	280	960.3	4609	9399	5.2	5.4	5.4	5.3	5.8	5.7	5.4	5.5	5.4	5.4	5.4	2.146	71.3	98.4	12.6	12	14	100
ND	100%	11/28/2007	332	0.1	3.0	-1.9	68.5	0.0	2.1	10.8	265	974.0	8134	15919	4.9	5.0	5.0	4.9	5.4	5.4	5.0	5.1	5.0	5.0	5.0	2.136	61.6	98.4	12.6	13	14	77
ND	100%	11/29/2007	333	3.1	8.6	-0.6	69.8	0.2	1.8	8.3	272	964.1	5647	11053	4.6	4.8	4.8	4.8	5.4	5.3	4.9	4.9	4.9	4.9	4.8	2.129	54.1	98.6	12.7	12	14	95
ND	100%	11/30/2007	334	-0.4	2.8	-2.9	60.9	0.0	2.1	8.3	284	968.1	7562	14756	4.2	4.3	4.3	4.2	4.9	4.7	4.3	4.4	4.4	4.2	4.2	2.121	46.7	98.6	12.6	13	14	78
#N/A	#N/A																															