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 laye
Tw12 adjusted to match others on bottom after moved to dock

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).

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							
	33.5	56.3	15.8		5.64	4.6	32					35.5	39.6	39.6	39.5	40.2	40.0	39.7	39.8	39.8	39.7	39.8							
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	Tw02.1m	Tw02.6m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
	0.8	**13.5**	**-9.0**	**74.6**	**143.3**	**2.1**	**14.4**	**235.4**	**964.0**	**442279**	**874892**	**1.9**	**4.2**	**4.2**	**4.2**	**4.6**	**4.4**	**4.3**	**4.3**	**4.4**	**4.3**	**4.3**	**2.2**	**90.3**	**143.3**	**12.6**	**14.1**	**22.8**	**103.0**

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-r	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
ND	100%	3/1/2008	61	-1.5	1.6	-4.3	85.1	5.4	2.7	10.9	278	960.9	10835	21662	-0.3	4.0	4.1	4.2	4.6	4.4	4.2	4.3	4.3	4.3	4.3	2.131	56.6	5.4	12.7	14	14	103
ND	100%	3/2/2008	62	-3.5	1.3	-6.7	73.2	0.0	2.9	9.8	289	969.9	19664	37435	-0.2	4.0	4.0	4.1	4.6	4.4	4.2	4.2	4.3	4.3	4.2	2.127	52.2	5.4	12.7	14	15	95
ND	100%	3/3/2008	63	4.8	13.2	-6.2	65.9	0.1	0.9	5.3	225	966.8	16255	33321	-0.2	4.0	4.0	4.0	4.6	4.3	4.2	4.3	4.3	4.3	4.2	2.124	49.0	5.5	12.7	15	15	94
ND	100%	3/4/2008	64	4.8	9.7	0.8	97.4	21.8	1.3	7.0	147	960.0	1832	4530	-0.2	4.0	4.0	4.1	4.6	4.4	4.3	4.3	4.3	4.3	4.3	2.130	55.8	27.3	12.7	13	14	103
ND	100%	3/5/2008	65	2.8	8.4	-1.7	91.8	36.7	2.7	13.1	239	951.6	5322	11458	-0.2	4.0	4.0	4.1	4.6	4.3	4.2	4.2	4.3	4.3	4.3	2.211	136.6	64.0	12.6	14	20	103
ND	100%	3/6/2008	66	0.6	8.2	-5.5	76.0	0.0	0.7	5.0	195	967.2	19506	37770	-0.3	4.0	4.1	4.1	4.6	4.5	4.3	4.4	4.4	4.3	4.3	2.216	140.9	64.0	12.6	15	16	102
ND	100%	3/7/2008	67	1.0	7.8	-4.1	91.4	8.8	1.2	5.7	113	965.6	9180	18941	-0.2	4.1	4.1	4.1	4.6	4.4	4.3	4.3	4.3	4.2	4.3	2.203	128.4	72.8	12.7	14	14	102
ND	100%	3/8/2008	68	2.6	9.3	-2.8	99.9	16.3	1.7	12.6	151	947.3	2121	5213	-0.2	4.1	4.1	4.1	4.6	4.3	4.3	4.3	4.3	4.2	4.3	2.212	137.3	89.1	12.6	14	16	103
ND	100%	3/9/2008	69	-3.6	0.6	-6.2	64.0	0.0	4.3	11.5	300	962.8	21090	40416	-0.3	4.1	4.1	4.1	4.6	4.4	4.2	4.2	4.3	4.2	4.2	2.220	144.9	89.1	12.6	14	16	94
ND	100%	3/10/2008	70	-3.3	2.3	-8.6	73.5	0.0	1.7	8.0	270	971.9	17490	33804	-0.5	4.3	4.3	4.2	4.6	4.4	4.3	4.4	4.4	4.3	4.3	2.205	130.3	89.1	12.7	14	15	93
ND	100%	3/11/2008	71	-0.3	5.9	-4.6	78.3	0.0	1.1	6.6	267	964.3	19688	38208	0.0	4.3	4.3	4.2	4.7	4.5	4.4	4.4	4.4	4.3	4.4	2.193	118.0	89.1	12.7	14	14	98
ND	100%	3/12/2008	72	0.3	2.7	-2.7	80.2	0.0	2.8	10.6	293	954.5	11551	23052	0.2	4.2	4.3	4.2	4.7	4.4	4.3	4.3	4.4	4.3	4.4	2.182	107.5	89.1	12.7	14	14	93
ND	100%	3/13/2008	73	0.6	6.9	-5.0	67.8	0.0	1.3	6.8	223	959.7	17279	34375	0.8	4.3	4.3	4.2	4.7	4.5	4.4	4.4	4.4	4.3	4.4	2.173	98.0	89.1	12.7	14	14	87
ND	100%	3/14/2008	74	4.8	11.2	-1.4	77.8	3.0	1.1	7.8	135	955.9	15460	32017	1.4	4.4	4.3	4.3	4.7	4.5	4.4	4.4	4.5	4.3	4.4	2.165	90.4	92.1	12.7	15	13	100
ND	100%	3/15/2008	75	3.2	6.4	1.2	95.8	9.2	1.2	4.4	198	954.2	7570	15753	1.0	4.3	4.3	4.2	4.7	4.5	4.4	4.4	4.5	4.4	4.4	2.173	98.0	101.3	12.7	14	14	101
ND	100%	3/16/2008	76	0.7	3.1	-2.6	89.1	2.5	3.0	10.5	291	963.1	10288	20796	2.2	4.3	4.3	4.3	4.7	4.5	4.4	4.4	4.5	4.4	4.5	2.171	96.1	103.8	12.7	14	14	102
ND	100%	3/17/2008	77	-1.1	4.8	-5.8	57.0	0.0	3.0	9.4	296	977.6	23542	44937	3.3	4.1	4.1	4.1	4.5	4.4	4.2	4.2	4.2	4.2	4.3	2.164	89.0	103.8	12.6	14	14	91
ND	100%	3/18/2008	78	0.2	4.0	-3.1	64.2	0.0	0.8	4.7	159	973.9	8823	18703	2.8	4.2	4.2	4.2	4.6	4.4	4.3	4.3	4.3	4.2	4.3	2.157	82.3	103.8	12.7	14	14	89
ND	100%	3/19/2008	79	4.6	13.3	0.4	99.7	24.6	0.8	5.0	165	954.9	1635	4115	2.1	4.0	4.0	4.1	4.5	4.3	4.2	4.2	4.3	4.2	4.2	2.171	96.3	128.4	12.6	14	25	102
ND	100%	3/20/2008	80	1.9	13.5	-2.7	83.8	2.1	4.9	14.4	313	951.7	7896	16422	3.6	3.8	3.8	3.8	4.2	4.0	3.8	3.9	3.9	3.8	3.9	2.186	111.2	130.5	12.6	15	43	100
ND	100%	3/21/2008	81	-1.3	2.2	-4.0	58.8	0.0	5.1	11.7	311	963.4	23483	45047	3.6	3.7	3.7	3.7	3.7	3.9	3.7	3.7	3.8	3.7	3.8	2.177	102.6	130.5	12.6	14	45	93
ND	100%	3/22/2008	82	-0.7	3.9	-3.9	43.2	0.0	2.7	7.9	331	961.6	20782	40479	3.6	3.7	3.7	3.7	3.9	3.9	3.8	3.8	3.8	3.8	3.8	2.167	92.4	130.5	12.7	14	52	63
ND	100%	3/23/2008	83	-1.9	3.1	-5.8	57.6	0.0	2.4	8.3	282	966.8	23525	45433	3.6	3.8	3.8	3.8	4.1	4.0	3.9	3.9	3.9	3.9	3.9	2.159	84.1	130.5	12.7	14	57	76
ND	100%	3/24/2008	84	-0.9	4.1	-7.1	60.3	0.0	1.5	7.2	222	969.8	23031	44311	3.8	4.2	4.2	4.3	4.6	4.5	4.4	4.4	4.4	4.4	4.4	2.152	77.4	130.5	12.7	14	58	92
ND	100%	3/25/2008	85	0.6	6.5	-6.9	51.9	0.0	1.3	6.4	246	968.6	23567	45287	3.8	4.1	4.0	3.9	4.3	4.3	4.1	4.1	4.2	4.1	4.2	2.145	70.7	130.5	12.7	14	54	87
ND	100%	3/26/2008	86	5.7	9.3	0.5	60.3	0.0	2.4	10.7	281	963.0	18110	36596	4.5	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.8	4.7	2.140	65.2	130.5	12.7	14	29	81
ND	100%	3/27/2008	87	2.5	6.3	-1.6	76.9	0.7	0.6	2.9	214	964.1	5062	11216	4.7	4.8	4.7	4.6	4.8	4.8	4.6	4.6	4.7	4.7	4.7	2.135	60.1	131.2	12.7	14	17	97
ND	100%	3/28/2008	88	1.6	3.6	-1.7	96.8	5.2	2.3	8.9	198	959.6	2670	6190	4.5	4.6	4.6	4.6	4.8	4.8	4.7	4.7	4.7	4.7	4.7	2.137	62.3	136.4	12.6	14	16	102
ND	100%	3/29/2008	89	-1.8	1.5	-4.3	64.2	0.0	3.5	10.8	304	974.6	25930	49919	4.4	4.6	4.6	4.6	4.7	4.7	4.6	4.6	4.6	4.6	4.7	2.133	58.3	136.4	12.6	14	15	88
ND	100%	3/30/2008	90	-0.5	7.3	-9.0	49.3	0.0	1.2	5.3	156	982.4	26455	51137	4.6	4.6	4.6	4.5	4.7	4.7	4.6	4.6	4.6	4.6	4.7	2.128	53.1	136.4	12.7	15	16	89
ND	100%	3/31/2008	91	3.2	10.5	-0.2	82.8	6.9	1.0	6.1	203	976.0	2637	6351	4.6	4.7	4.8	4.7	4.9	4.9	4.7	4.8	4.8	4.8	4.8	2.128	53.6	143.3	12.7	13	15	101