Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Station moved to lake center on 20 April 08
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							
	53.1	77.6	28.9		4.00	4.9	27					59.3	59.5	59.4	58.3	56.5	52.8	47.4	44.6	42.9	42.7	42.5							
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	Tw10.1m	Tw11.4m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
	11.7	**25.3**	**-1.7**	**74.2**	**101.6**	**2.2**	**12.1**	**234.6**	**959.9**	**640619**	**1305966**	**15.2**	**15.3**	**15.2**	**14.6**	**13.6**	**11.6**	**8.6**	**7.0**	**6.1**	**5.9**	**5.8**	**10.1**	**77.3**	**101.6**	**12.6**	**10.9**	**12.8**	**100.6**

month 5

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-m	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair
LC	100%	5/1/2008	122	6.4	13.4	-1.7	75.2	5.2	1.5	7.5	189	967.8	16371	32661	13.4	13.6	13.6	13.5	12.7	9.0	7.2	6.5	5.9	5.9	5.7	10.103	36.7	5.2	12.7	12	13	97
LC	100%	5/2/2008	123	9.1	11.5	7.2	97.1	1.2	1.9	5.4	108	965.1	6571	13663	13.2	13.4	13.4	13.3	12.8	9.1	7.3	6.5	5.9	5.9	5.7	10.109	42.6	6.4	12.7	11	12	99
LC	100%	5/3/2008	124	9.0	10.6	7.5	98.0	1.0	2.5	7.5	114	963.9	4539	10221	13.0	13.2	13.2	13.1	12.8	9.2	7.3	6.5	5.9	5.9	5.7	10.107	41.2	7.4	12.6	11	12	100
LC	100%	5/4/2008	125	11.4	17.0	6.8	79.7	8.8	2.1	8.2	237	963.2	21971	45305	13.2	13.3	13.3	13.1	12.6	9.5	7.4	6.5	5.9	5.9	5.7	10.117	51.2	16.2	12.6	11	13	100
LC	100%	5/5/2008	126	11.1	19.2	1.9	58.9	0.0	1.3	5.8	254	966.4	31221	61779	14.6	14.4	13.9	13.4	12.7	9.8	7.4	6.6	5.9	5.9	5.7	10.117	50.7	16.2	12.7	11	12	99
LC	100%	5/6/2008	127	13.4	20.4	4.1	57.4	0.0	1.8	11.2	286	964.4	25339	51198	15.2	15.3	15.0	13.9	12.8	10.0	7.5	6.6	6.0	5.9	5.8	10.115	48.9	16.2	12.7	10	12	92
LC	100%	5/7/2008	128	16.0	23.6	4.9	56.1	0.0	2.1	8.9	227	960.8	28024	57014	15.9	15.9	15.7	14.3	12.9	10.1	7.6	6.7	6.0	5.9	5.8	10.113	46.8	16.2	12.7	10	11	96
LC	100%	5/8/2008	129	16.3	19.6	11.0	72.6	3.2	2.5	8.7	275	955.2	13358	27683	16.4	16.5	16.5	15.0	13.0	10.2	7.7	6.7	6.0	5.9	5.8	10.113	47.0	19.4	12.7	10	24	97
LC	100%	5/9/2008	130	8.5	10.9	7.1	94.0	16.6	1.9	7.4	93	955.8	3753	9031	15.6	15.8	15.9	15.5	13.0	10.2	7.7	6.7	6.0	5.9	5.8	10.121	54.9	36.0	12.6	11	14	99
LC	100%	5/10/2008	131	9.6	15.3	4.1	80.2	0.1	1.8	7.5	273	957.0	19271	39234	14.9	15.0	15.0	14.9	13.2	10.3	7.8	6.8	6.0	5.9	5.8	10.132	66.3	36.1	12.6	11	13	101
LC	100%	5/11/2008	132	10.2	15.8	3.1	69.0	0.0	2.6	9.9	175	957.3	26284	49638	14.9	15.1	15.1	15.0	13.6	10.4	7.8	6.8	6.0	5.9	5.8	10.131	65.2	36.1	12.8	11	12	98
LC	100%	5/12/2008	133	8.6	12.0	6.2	66.4	0.0	3.4	10.8	94	955.0	11017	23611	14.2	14.3	14.4	14.3	14.0	10.5	7.9	6.8	6.0	5.9	5.8	10.128	62.1	36.1	12.7	11	12	83
LC	100%	5/13/2008	134	11.6	20.1	3.1	60.7	0.0	2.0	9.0	251	965.4	32365	65699	14.3	14.3	14.3	14.1	13.6	11.0	8.0	6.9	6.0	5.9	5.8	10.126	60.1	36.1	12.7	11	12	96
LC	100%	5/14/2008	135	14.8	22.2	4.4	58.8	0.0	1.7	9.3	229	965.4	26654	53493	15.4	15.3	15.1	14.6	13.7	11.5	8.0	6.9	6.0	5.9	5.8	10.124	58.0	36.1	12.7	10	12	95
LC	100%	5/15/2008	136	13.9	16.8	9.6	85.9	5.8	1.8	7.5	275	963.0	14649	30696	16.1	16.3	16.2	14.8	13.8	11.5	8.1	6.9	6.0	5.9	5.8	10.128	62.0	41.9	12.7	10	13	99
LC	100%	5/16/2008	137	8.7	9.8	7.5	96.3	24.3	2.3	8.4	151	956.2	2324	5792	15.3	15.5	15.6	15.2	13.8	11.6	8.2	6.9	6.0	5.9	5.8	10.140	73.9	66.2	12.6	11	12	99
LC	100%	5/17/2008	138	11.2	17.6	5.6	82.6	1.7	2.5	9.8	268	950.0	24581	50567	14.8	14.9	14.9	14.6	14.0	11.8	8.3	7.0	6.0	5.9	5.8	10.161	94.8	67.9	12.6	11	13	98
LC	100%	5/18/2008	139	9.2	13.6	6.6	89.3	1.2	1.7	11.6	251	946.0	11012	22839	14.7	14.9	14.9	14.8	14.2	12.0	8.4	7.0	6.1	6.0	5.8	10.164	98.2	69.1	12.7	11	13	99
LC	100%	5/19/2008	140	6.8	9.7	3.6	74.3	0.5	2.8	11.1	276	948.6	23966	48162	14.1	14.3	14.3	14.2	14.1	12.2	8.5	7.1	6.1	6.0	5.9	10.165	99.0	69.6	12.7	12	13	95
LC	100%	5/20/2008	141	7.5	11.3	3.0	83.8	1.7	1.3	5.9	234	949.3	10845	22697	13.7	13.8	13.9	13.8	13.6	12.8	8.7	7.1	6.1	5.9	5.9	10.165	99.1	71.3	12.7	11	13	98
LC	100%	5/21/2008	142	9.0	15.4	5.2	84.0	3.5	2.2	12.0	263	947.7	21093	42945	13.6	13.8	13.8	13.6	13.4	12.8	8.7	7.2	6.1	6.0	5.9	10.167	100.7	74.8	12.7	11	13	100
LC	100%	5/22/2008	143	7.3	11.5	3.6	85.2	2.4	2.5	10.5	286	952.3	16944	34339	13.5	13.6	13.7	13.6	13.5	12.9	8.9	7.2	6.1	6.0	5.9	10.170	103.8	77.2	12.7	12	13	98
LC	100%	5/23/2008	144	11.1	15.1	7.8	70.0	0.0	3.4	9.1	311	961.0	25071	51224	13.5	13.6	13.6	13.5	13.4	13.1	9.4	7.2	6.1	6.0	5.9	10.169	102.9	77.2	12.7	11	13	87
LC	100%	5/24/2008	145	12.2	16.7	7.1	65.5	0.0	2.8	9.8	308	964.2	23727	47884	13.8	13.9	14.0	13.9	13.7	13.1	9.8	7.3	6.1	6.0	5.9	10.166	100.5	77.2	12.7	11	12	92
LC	100%	5/25/2008	146	13.5	21.9	4.5	62.5	0.0	1.4	7.1	281	967.1	34126	69115	15.1	15.1	14.8	14.1	13.8	13.3	10.0	7.3	6.1	6.0	5.9	10.164	98.0	77.2	12.7	11	12	97
LC	100%	5/26/2008	147	19.5	25.3	11.0	57.5	0.0	2.5	9.5	234	962.2	31632	65579	16.6	16.7	16.5	14.6	14.0	13.4	10.1	7.4	6.2	6.0	5.9	10.161	95.0	77.2	12.7	10	13	80
LC	100%	5/27/2008	148	18.7	24.7	9.3	82.3	22.5	2.4	11.6	284	961.4	19826	41502	18.5	18.5	18.4	15.4	14.1	13.3	10.2	7.5	6.2	6.0	5.9	10.168	102.1	99.7	12.7	11	13	98
LC	100%	5/28/2008	149	10.6	15.5	6.1	58.8	0.0	3.2	9.0	308	970.9	34967	69858	17.6	17.7	17.8	17.0	14.3	13.3	10.3	7.7	6.2	6.0	5.9	10.183	116.8	99.7	12.6	11	12	83
LC	100%	5/29/2008	150	12.7	21.2	3.2	57.5	0.0	2.2	8.6	284	969.2	34475	69965	17.7	17.8	17.8	17.3	14.6	13.3	10.3	7.7	6.2	6.0	5.9	10.175	109.4	99.7	12.7	11	12	94
LC	100%	5/30/2008	151	16.7	24.5	5.3	56.2	0.0	1.4	8.5	231	967.1	30613	62944	18.8	18.5	18.1	17.6	14.8	13.4	10.4	7.8	6.2	6.0	5.9	10.172	105.6	99.7	12.7	11	12	92
LC	100%	5/31/2008	152	19.0	24.4	15.7	85.7	1.9	2.4	12.1	226	957.2	14031	29628	19.0	19.1	18.7	17.8	15.0	13.4	10.4	7.8	6.3	6.0	5.9	10.169	103.3	101.6	12.7	11	13	98