Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Station moved from lake center to shallow water (ca. 2.5m max) at dock on 6 November
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 based on uniform mixing pattern and PUV profile

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).

Location
codes:
ND=next to dock
LC=lake center

						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								
	42.4	69.8	12.2		4.07	3.6	32					45.9	46.1	46.1	46.0	46.5	45.9	46.1	46.1	45.7	45.7	44.8								
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	Tw H310-C	Tw 12m	H310 depth-m (4oC)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair	MaxRH %raw
	5.8	**21.0**	**-11.0**	**74.8**	**103.4**	**1.6**	**14.4**	**217.1**	**963.4**	**226249**	**449480**	**7.7**	**7.8**	**7.8**	**7.8**	**8.0**	**7.7**	**7.8**	**7.8**	**7.6**	**7.6**	**7.1**	**3.6**	**67.2**	**103.4**	**12.2**	**13.5**	**13.3**	**101.5**	**103.0**

month	11

	Data																																													
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	TW12 m	H310 depth-m (4oC)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc	Max of RHair	MaxRH %raw	AvgZt0.1	AvgZt0.5	AvgZT1	AvgZT2	AvgZT3	AvgZT4	AvgZT5	AvgZT6	AvgZT8	AvgZTH	AvgZT12	Location
11/1/2005	305	12.0	18.8	4.9	65.4	2.2	1.8	7.8	200	962.7	13471	26468	9.4	9.5	9.5	9.4	9.2	8.9	8.9	8.9	8.8	8.0	6.2	10.2	164.1	2.2	12.4	13	12	97	99	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.2	11.5	LC
11/2/2005	306	6.4	9.6	1.1	79.7	1.3	2.8	10.9	275	964.6	11991	23474	9.3	9.4	9.5	9.5	9.4	9.2	9.1	8.9	8.8	8.0	6.3	10.1	91.4	3.5	12.4	13	13	96	98	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.1	11.4	LC
11/3/2005	307	9.9	17.8	0.4	67.2	0.0	2.1	10.0	239	965.6	11738	23432	9.1	9.3	9.3	9.2	9.2	9.1	9.1	9.0	8.9	8.2	6.3	10.1	68.6	3.5	12.4	13	12	98	99	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.1	11.4	LC
11/4/2005	308	13.4	21.0	4.9	61.2	0.0	1.5	8.7	159	962.8	13592	26811	9.4	9.5	9.4	9.4	9.2	9.1	9.1	9.0	8.9	8.3	6.3	10.1	63.1	3.5	12.3	14	12	94	96	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.1	11.4	LC
11/5/2005	309	14.5	20.9	9.0	74.6	0.0	0.9	6.7	152	964.4	12474	25207	10.2	10.2	10.1	9.7	9.4	9.1	9.0	9.0	8.9	8.3	6.4	10.1	58.6	3.5	12.3	14	11	96	98	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.1	11.4	LC
11/6/2005	310	14.8	20.4	10.4	80.1	4.5	1.4	14.4	199	961.5	10511	21399	10.8	10.5	10.5	10.0	9.7	9.6	9.6	9.5	9.5	9.3	8.1	6.4	55.7	8.0	12.4	14	11	97	100	0.1	0.5	1.0	2.0	2.7	3.2	3.7	4.2	5.2	6.0	6.9	LC
11/7/2005	311	10.1	13.2	6.5	59.0	0.0	2.0	9.0	283	966.3	13124	25751	10.5	10.6	10.7	10.6	10.7	10.6	10.7	10.7	10.6	10.7	10.6	2.1	55.6	8.0	12.3	13	12	76	78	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/8/2005	312	9.8	13.7	5.1	66.7	0.0	1.4	6.6	243	966.4	8733	17816	10.3	10.4	10.4	10.4	10.5	10.3	10.5	10.5	10.3	10.5	10.3	2.1	50.9	8.0	12.3	13	12	91	92	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/9/2005	313	6.9	14.5	2.0	91.1	13.4	1.1	5.6	145	962.0	1366	3223	9.8	9.9	9.9	9.9	10.1	9.8	10.1	10.1	9.9	10.0	9.8	2.1	49.5	21.4	12.3	12	13	100	102	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/10/2005	314	6.1	14.4	2.4	68.5	0.3	3.6	12.0	311	955.4	4518	9195	9.4	9.5	9.5	9.4	9.7	9.4	9.6	9.6	9.4	9.5	9.4	2.1	60.1	21.7	12.3	13	13	97	100	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/11/2005	315	1.9	4.1	0.1	72.5	0.0	2.4	8.1	284	964.3	4897	9953	8.6	8.7	8.7	8.6	8.9	8.5	8.8	8.8	8.6	8.7	8.6	2.1	55.1	21.7	12.3	13	14	89	89	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/12/2005	316	5.3	13.5	-0.7	68.2	0.0	0.6	4.9	208	970.5	11824	23432	8.5	8.5	8.4	8.3	8.7	8.3	8.5	8.6	8.2	8.4	8.2	2.1	51.9	21.7	12.2	14	13	93	93	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/13/2005	317	10.8	15.6	4.9	57.6	0.0	0.9	7.5	251	969.4	9331	18689	8.4	8.4	8.3	8.3	8.7	8.3	8.5	8.6	8.3	8.4	8.2	2.1	49.8	21.7	12.4	13	12	76	78	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/14/2005	318	10.0	14.5	2.7	62.1	0.0	1.6	9.0	203	972.0	11889	23214	8.6	8.7	8.7	8.6	9.0	8.7	8.8	8.8	8.6	8.8	8.6	2.1	47.5	21.7	12.4	14	12	83	84	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/15/2005	319	7.6	15.0	2.9	94.1	7.7	0.9	4.6	110	971.2	1238	2895	8.5	8.5	8.5	8.5	8.9	8.5	8.7	8.7	8.4	8.6	8.4	2.1	51.6	29.4	12.3	12	12	100	102	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/16/2005	320	13.1	17.3	4.8	94.7	13.3	1.8	10.0	279	962.1	1007	2514	9.2	9.0	8.9	8.8	9.1	8.8	8.9	8.9	8.8	9.0	8.8	2.1	59.8	42.7	12.3	14	13	99	101	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/17/2005	321	0.7	4.9	-1.3	67.1	0.0	2.6	8.3	301	966.7	9722	18527	8.5	8.7	8.7	8.6	8.9	8.5	8.7	8.7	8.6	8.7	8.5	2.1	69.7	42.7	12.2	13	14	89	89	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/18/2005	322	-2.4	-0.3	-4.4	70.9	0.0	2.0	8.8	254	970.8	9866	18756	7.7	7.9	7.8	7.7	8.0	7.6	7.8	7.8	7.7	7.9	7.6	2.1	65.6	42.7	12.4	14	15	84	83	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/19/2005	323	-0.2	5.4	-4.1	68.2	0.0	0.6	6.7	193	971.5	10179	19402	7.4	7.6	7.6	7.5	7.8	7.5	7.7	7.7	7.4	7.6	7.4	2.1	62.9	42.7	12.4	14	14	82	81	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/20/2005	324	4.8	11.9	-1.1	56.7	0.0	0.9	6.9	221	968.8	10060	19551	7.2	7.3	7.3	7.2	7.6	7.2	7.4	7.4	7.1	7.3	7.1	2.1	60.6	42.7	12.4	14	14	85	85	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/21/2005	325	5.4	10.4	0.5	65.3	0.2	0.2	2.9	160	958.6	5079	10386	7.1	7.2	7.1	7.0	7.4	7.0	7.2	7.2	7.0	7.2	6.9	2.1	58.6	42.9	12.3	13	13	87	88	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/22/2005	326	1.5	4.4	-3.4	91.9	12.4	4.2	13.1	250	939.0	2350	5139	6.7	6.8	6.8	6.7	7.1	6.8	6.9	6.9	6.8	6.8	6.7	2.1	70.8	55.3	12.3	13	14	100	100	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/23/2005	327	-5.0	-2.9	-7.3	69.1	0.0	3.0	10.8	258	946.3	9791	18100	5.8	5.9	5.9	5.8	6.1	5.8	6.0	6.0	5.8	5.8	5.8	2.1	69.9	55.3	12.3	14	15	86	83	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/24/2005	328	-3.1	1.7	-9.6	89.2	1.6	1.9	11.4	239	940.8	3183	6283	5.3	5.5	5.5	5.4	5.9	5.5	5.6	5.6	5.3	5.5	5.3	2.1	69.4	56.9	12.3	14	15	101	100	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/25/2005	329	-7.6	-2.9	-11.0	73.4	0.0	1.7	8.4	248	963.4	9280	17543	4.1	4.6	4.5	4.5	5.1	4.6	4.8	4.8	4.4	4.7	4.4	2.1	67.3	56.9	12.2	15	16	92	89	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/26/2005	330	-3.8	-0.5	-8.4	69.6	0.0	0.3	3.3	178	970.6	3072	6555	2.6	4.1	4.1	4.2	5.2	4.7	4.8	4.8	4.2	4.6	4.3	2.1	64.3	56.9	12.3	14	15	91	87	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/27/2005	331	1.9	6.6	-2.0	75.6	0.1	0.3	3.1	106	971.0	4701	9803	3.5	4.1	4.2	4.3	5.2	4.7	4.8	4.8	4.2	4.7	4.3	2.1	62.3	57.0	12.2	13	14	89	89	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/28/2005	332	9.3	14.2	3.4	96.5	0.3	0.8	7.1	140	969.6	3187	6926	4.6	4.4	4.3	4.3	5.1	4.6	4.7	4.7	4.3	4.6	4.3	2.1	62.7	57.3	12.2	13	12	101	103	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/29/2005	333	14.3	16.1	10.4	93.3	39.4	1.9	9.5	161	962.7	1935	4483	5.9	5.0	5.0	5.0	5.3	5.0	5.1	5.1	4.9	5.1	4.9	2.1	70.3	96.7	12.3	16	13	100	102	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
11/30/2005	334	5.4	10.3	0.5	95.8	6.7	1.6	7.0	259	961.1	2140	4554	6.0	5.8	5.8	5.9	6.1	5.9	5.9	5.9	5.8	6.0	5.7	2.1	129.4	103.4	12.2	14	19	102	103	0.1	0.5	1.0	2.0	2.6	2.6	2.6	2.6	2.6	2.1	2.6	ND
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