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Station moved to dock on 9Nov08, between 11:38 and 12:30pm EDT

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 layer)

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 40C (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 f/mile		1609.3 m/mile																																			
		Tair avg F	Tair max F	Tair min F	Rain-in	WS-mph	WS max mph																																
		35.6	45.2	27.0	1.52	4.2	26																																
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 W/m2	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	Tw 3m	Tw 4m	Tw 5m	Tw 6m	Tw 8m	Tw 10m F	Tw 12m F																
month (All)		2.0	7.3	-2.8	70.4	38.5	1.9	11.6	225.4	967.7	397777376	793	3.8	5.2	6.2	6.0	5.1	6.2	5.1	5.1	5.1	5.1	5.1	5.3	2.0	23.3	38.5	12.6	14.3	14.7									

		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 J/m2	Sum PAR Mol/m2	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	Tw 3m	Tw 4m	Tw 5m	Tw 6m	Tw 8m	Tw 10m F	Tw 12m F	H310 depth-m (40C)	Lakelevel-mm (40C)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% CR10 enc	RH% MUX enc					
LC 100%		3/1/2009	60	-3.1	1.7	-7.0	61.7	0.0	2.3	8.6	144	965.3	8927588	18	0	4	4.2	4.1	4.4	4.4	4.4	4.4	4.3	4.3	4.5	2.1	11.6	0.000	12.7	13.7	14.8						
LC 100%		3/2/2009	61	-10.2	-7.2	-13.9	75.1	0.0	4.6	10.2	240	961.9	7485803	16	1	4	4.2	4.1	4.3	4.3	4.2	4.3	4.1	4.2	4.3	2.1	12.6	0.000	12.6	15.1	16.2						
LC 100%		3/3/2009	62	-11.9	-7.3	-15.8	66.4	0.0	3.3	9.2	325	968.7	18241102	34	0	4	4.1	4.1	4.3	4.3	4.2	4.2	4.1	4.2	4.3	2.1	12.8	0.000	12.5	15.8	16.8						
LC 100%		3/4/2009	63	-8.6	-2.1	-13.2	67.8	0.0	1.8	7.7	272	973.1	18008310	34	0	4	4.1	4.2	4.4	4.4	4.3	4.3	4.1	4.3	4.4	2.1	10.8	0.000	12.5	15.2	16.4						
LC 100%		3/5/2009	64	-3.4	7.2	-15.2	63.3	0.0	0.6	4.8	173	973.9	18451316	35	0	4	4.1	4.2	4.4	4.5	4.3	4.3	4.1	4.3	4.4	2.1	9.0	0.000	12.5	14.8	15.8						
LC 100%		3/6/2009	65	7.9	15.2	0.8	62.2	0.0	1.2	5.5	244	964.6	9638288	20	0	4	4.1	4.2	4.4	4.5	4.4	4.4	4.2	4.3	4.5	2.1	7.5	0.000	12.6	13.1	14.1						
LC 100%		3/7/2009	66	10.7	16.2	3.6	81.5	0.0	1.0	6.1	263	964.3	10448307	22	0	4	4.2	4.2	4.4	4.5	4.4	4.4	4.2	4.3	4.5	2.1	8.0	0.000	12.7	14.1	14.1						
LC 100%		3/8/2009	67	9.0	14.7	4.6	88.0	0.0	1.8	8.0	199	960.4	6938540	15	0	4	4.3	4.2	4.4	4.5	4.4	4.4	4.3	4.3	4.6	2.1	11.8	6.500	12.7	14.5	14.0						
LC 100%		3/9/2009	68	3.7	5.9	-0.4	92.5	7.3	2.8	9.1	233	961.4	4770108	10	0	4	4.2	4.1	4.3	4.4	4.3	4.3	4.2	4.2	4.5	2.1	27.3	13.800	12.6	14.0	14.6						
LC 100%		3/10/2009	69	0.7	2.7	-1.2	93.6	2.0	1.1	5.0	158	971.8	3248375	7	0	4	4.3	4.1	4.4	4.5	4.4	4.4	4.2	4.2	4.5	2.1	32.3	15.800	12.6	13.9	14.4						
LC 100%		3/11/2009	70	6.4	15.4	0.6	78.0	0.1	2.1	11.4	263	963.4	7339956	16	1	4	4.3	4.1	4.3	4.4	4.3	4.4	4.2	4.3	4.6	2.1	35.8	15.900	12.6	15.4	15.0						
LC 100%		3/12/2009	71	-3.2	0.3	-5.2	64.1	0.0	3.7	9.5	318	975.7	14944227	28	3	4	4.4	4.3	4.5	4.5	4.5	4.5	4.4	4.4	4.6	2.1	35.0	15.900	12.6	14.1	14.8						
LC 100%		3/13/2009	72	-2.8	4.3	-8.2	61.2	0.0	1.1	4.8	206	976.5	19965464	38	3	5	4.5	4.3	4.6	4.6	4.6	4.6	4.4	4.5	4.7	2.1	33.3	15.900	12.7	14.3	14.9						
LC 100%		3/14/2009	73	2.2	10.0	-4.2	65.5	0.0	0.7	5.4	244	970.6	15896785	32	4	5	4.5	4.4	4.7	4.7	4.7	4.6	4.5	4.6	4.8	2.1	31.7	15.900	12.7	13.8	14.4						
LC 100%		3/15/2009	74	5.4	13.0	-0.3	63.7	0.0	0.6	4.3	140	968.5	17278478	33	5	5	4.7	4.5	4.7	4.8	4.7	4.7	4.5	4.7	4.8	2.1	30.5	15.900	12.7	14.1	14.6						
LC 100%		3/16/2009	75	4.2	10.3	-2.5	69.1	0.0	0.7	5.1	142	972.0	11423285	25	5	5	4.6	4.5	4.7	4.7	4.7	4.7	4.5	4.6	4.8	2.1	29.4	15.900	12.7	13.4	13.9						
LC 100%		3/17/2009	76	5.8	13.3	-1.7	69.2	0.0	0.7	5.1	168	971.2	20060415	40	5	5	5.0	4.7	4.8	4.9	4.8	4.8	4.7	4.8	5.0	2.1	28.2	15.900	12.7	14.3	14.3						
LC 100%		3/18/2009	77	10.3	18.1	3.0	73.6	0.0	1.2	6.2	253	966.9	16191351	33	6	6	5.7	5.3	5.2	5.3	5.2	5.1	5.4	5.4	2.1	27.9	15.900	12.7	14.7	14.1							
LC 100%		3/19/2009	78	5.4	10.5	2.1	78.2	2.9	2.1	7.7	205	965.7	8256758	17	7	7	6.7	6.5	6.4	6.5	6.4	6.4	6.4	6.6	6.6	2.1	30.8	18.800	12.7	13.8	13.8						
LC 100%		3/20/2009	79	0.4	3.4	-2.3	59.2	0.0	2.6	7.9	218	972.3	15102313	30	6	6	6.2	6.0	6.0	6.1	6.0	6.0	6.0	6.1	6.2	2.1	29.3	18.800	12.6	13.7	14.2						
LC 100%		3/21/2009	80	0.0	7.2	-7.6	52.2	0.0	0.8	5.2	225	977.6	20940191	40	6	6	5.9	5.4	5.5	5.5	5.5	5.5	5.3	5.5	5.6	2.1	25.8	18.800	12.7	14.1	14.4						
LC 100%		3/22/2009	81	1.4	5.6	-2.1	58.8	0.0	2.4	9.2	293	973.6	10688600	22	6	6	5.8	5.7	5.7	5.8	5.7	5.7	5.6	5.8	5.8	2.1	24.0	18.800	12.6	13.3	14.1						
LC 100%		3/23/2009	82	-3.3	0.5	-6.8	42.5	0.0	4.2	11.3	329	973.9	22777288	43	5	5	5.0	4.9	5.1	5.1	5.1	5.1	5.0	4.9	5.2	2.1	19.6	18.800	12.6	13.8	14.6						
LC 100%		3/24/2009	83	-2.0	5.5	-7.5	49.3	0.0	2.2	7.9	184	976.9	22780907	44	5	5	5.2	5.1	5.1	5.2	5.2	5.2	5.1	5.1	5.3	2.1	15.9	18.800	12.6	13.9	14.5						
LC 100%		3/25/2009	84	2.7	10.0	-5.0	49.3	0.0	0.9	5.4	207	973.1	20084848	40	5	5	5.1	5.0	5.2	5.3	5.2	5.2	5.0	5.1	5.3	2.1	14.1	18.800	12.7	13.5	14.1						
LC 100%		3/26/2009	85	3.9	5.2	3.1	81.9	6.1	0.7	4.4	189	963.4	3277631	8	5	5	5.5	5.4	5.4	5.5	5.4	5.4	5.3	5.5	5.5	2.1	14.9	24.900	12.6	12.9	13.4						
LC 100%		3/27/2009	86	8.5	14.0	3.6	74.6	0.0	1.5	6.1	246	962.6	19215302	39	7	6	6.4	6.0	6.0	6.1	6.0	6.0	5.9	6.2	6.2	2.1	20.7	24.900	12.6	15.0	13.9						
LC 100%		3/28/2009	87	10.1	14.8	5.5	78.9	0.0	1.0	5.4	118	961.6	14456707	30	8	7	7.0	6.4	6.3	6.4	6.4	6.3	6.3	6.6	6.6	2.1	21.5	24.900	12.7	15.6	14.1						
LC 100%		3/29/2009	88	8.6	12.2	5.8	97.8	13.1	1.6	6.9	154	947.7	4538733	10	8	8	8.0	7.5	7.1	7.3	7.2	7.2	7.3	7.6	7.5	2.1	29.6	38.000	12.7	15.8	15.5						
LC 100%		3/30/2009	89	3.1	5.6	1.2	81.0	0.5	3.5	11.6	299	953.8	6849552	15	8	7	7.5	7.4	7.3	7.4	7.3	7.3	7.3	7.5	7.5	2.1	41.3	38.500	12.6	15.0	16.0						
LC 25%		3/31/2009	90	0.9	1.4	0.2	84.0	0.0	3.7	8.1	334	965.1	1676	0	6	7	6.5	6.3	6.5	6.6	6.6	6.6	6.5	6.4	6.7	2.1	39.4	38.500	12.6	14.5	14.6						

Lake water & energy budget daily summary from hourly data (negative values: loss from lake; runoff & seepage term is residual after adjusting lake level change for all others)		Ratio of lake watershed to lake area		Runoff & seepage as % of watershed area precip		123.9%		0.0		-164.3		26.2		#N/A		#N/A		27%		#N/A		2.1		5		5.0		2.4		#N/A		#N/A		0.00000	
Grand sum/avg		2.01	3.75	5.21	6.17	5.01	6.12	5.19	1.7	397777376	-22286	26.9	38.5	184.3	-32.3																				

Data																																					
DATE	DayOfYr	AvgTair C	AvgTw 0.1m	AvgTw 0.5m	Avg Tw1m	Avg Tw2m																															