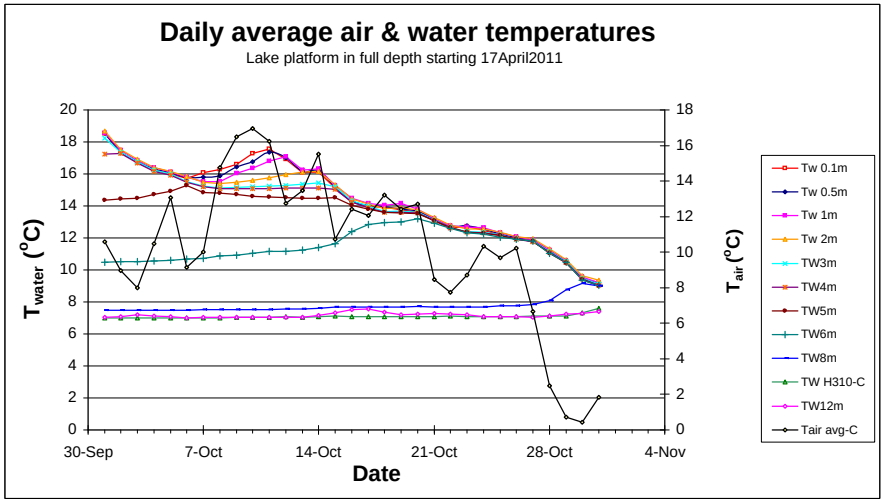
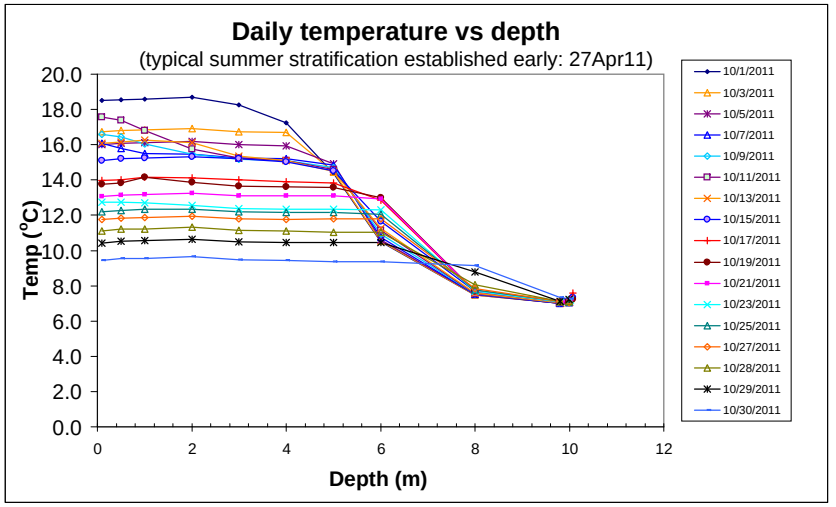
Year: 2011 **Month:** 10 See figure to right for actual depths of temperature sensors when weather station is in shallow water (during winter, Tw sensors extended along bottom to west of dock in 2-3m deep water)

17 April 2011: platform moved to lake center, 1-2pm

Two new anchor lines (out of 4) set out when platform returned to lake center in April 2011 to replace one lost and one dragged to dock last October

TW1 sensor started failing 21SEP11 (NEED TO TEST FOR LOOSE CONNECTION IN MUX BOX AND PREPARE TO REPLACE IN SITU)



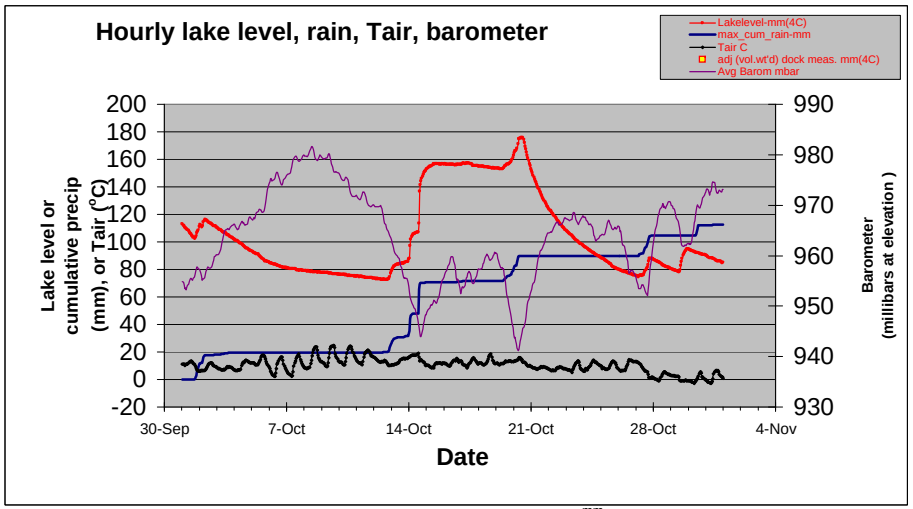


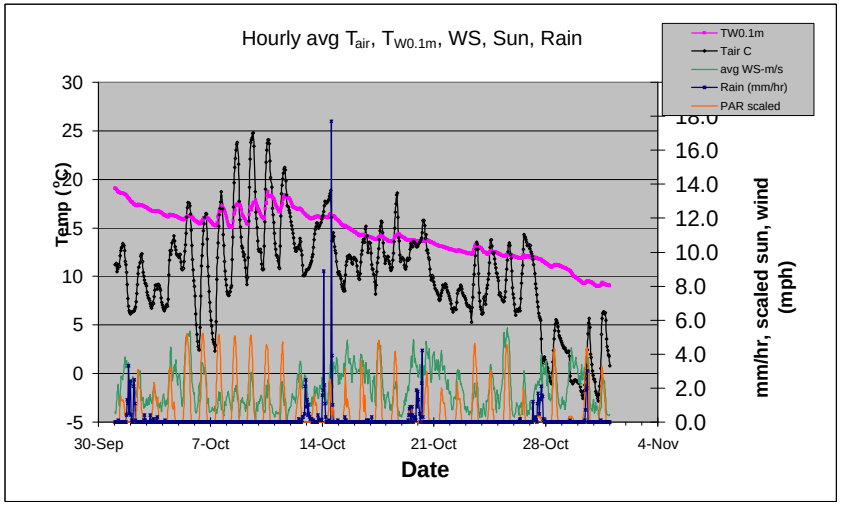
Lake level is mm above lower edge of dock metal frame (mm of water at 4°C based on pressure)

Monthly rain (incl melt in gage): **4.43 inches** 5.25 in. precip from Hawley/Hamlin NWS

Dock old deck upper surface was at about +200 mm at SE corner but about +50-100mm at NW & NE corners)

Precip from rain gage is underestimated during freezing conditions and appears late when air temperature rises above freezing. Lake level rise accurately reflects rain or the water equivalent of snow, plus runoff and snowmelt.





	date	mm Precip, NWS	mm Precip, Lac	date	mm Precip, NWS	mm Precip, Lac	date	mm Precip, NWS	mm Precip, Lac	29Oct11 snow		-
accuweather (Hawley/Hamlin)	1-Oct	18.80	11.40	14-Oct	16.51	37.20	27-Oct	12.95	14.50			-
rain or water-equiv snow, mm	2-Oct	10.41	6.90	16-Oct	0.76	0.20	29-Oct	8.13	0.10			-
	3-Oct	1.78	1.20	17-Oct	1.02	0.30			-			-
	4-Oct	0.51	0.10	19-Oct	28.70	9.40			-			-
	12-Oct	12.70	6.90	20-Oct	4.57	8.90			-			-
	13-Oct	16.26	6.80	24-Oct	0.25	-			-			-

.64" water equiv from lake level, 0.32" water equiv from delayed rain gage & from Hamlin/Hawley

Hawley total precip,mm	133.4				
rain gage to date,mm	112.4	84%	**lac/NWS, t**		
Lac/Avoca avg 2010		140%	lac/avoca, p		
Mar	Apr	May	Jun	Jul	
	146%	164%	111%	89%	