Table 1: Listing of the variables used in the regression models at Hika beach. For each variable, the listing indicates what summary statistics were computed, and over what time scale.

puted, and over what time scale.								
Covariate Statistic	1h	2h	6h	12h	24h	48h	72h	120h
Sheboygan River Discharge Diff			х					
Manitowoc River Discharge								
Diff			Х					
log Manitowoc River Discharge								
Mean	X	X	Х	X	X	X	X	X
Min	x	X	Х	X	X	X	X	X
Max					X			
log Sheboygan River Discharge								
Mean	X	X	х	X	X	X	X	X
Min	X	X	х	X	X	X	X	X
Max					X			
Cloud cover								
Mean	X	X	X	X	X	X		
Lake level								
Mean	x				X			
Max	x				X			
Min	x				X			
Diff					X			
Surface current, perpendicular								
Mean	x	x	x	x	x	x	x	x
Surface current, parallel								
Mean	x	x	x	x	x	X	x	x
Subsurface current, perpendicular								
Mean	x	x	x	x	x	x	x	x
Subsurface current, parallel								
Mean	x	x	x	x	x	x	x	x
Wave height								
Mean	x	x	x	x	x			
Wave height speed, perpendicular								
Mean	x	х	х	x	x			
Wave height speed, parallel					А			
Mean	x	x	x	x	x			
Wave speed, perpendicular	Α	Α.	Λ.	Α.	Α.			
Mean		3.5		7.				
Wave speed, parallel	X	Х	Х	Х	X			
Mean								
	X	X	Х	Х	X			
Wind speed, perpendicular								
Mean	X	X	Х	X	X			
Wind speed, parallel								
Mean	X	X	Х	X	X			
Air temperature								
Mean	X	X	х	X	X	X	X	X
St. Dev.		X	Х	X	X	X	X	X
Water temperature								
Mean	X	X	X	X	X	X	X	X
St. Dev.			Х	X	X	X	X	X
sqrt Rainfall over Manitowoc River								
Sum	X	X	Х	X	X	X	X	X
sqrt Rainfall over Hika								
Sum	x	X	X	X	X	X	X	X
log Turbidity	Manual							
Wind speed, perpendicular	Manual							
Wind speed, perpendicular	Manual							
People in water	Manual							
People on beach	Manual							
Air temperature	Manual							
Water temperature	Manual							
Wave height	Manual							
Algae near shore	Manual							
Algae near snore Algae on beach	Manual							
Julian date	Manual							
Januar Guic	manual							