

**National Wetland Condition Assessment
Great Meadow, Mount Desert Island, Maine
2015**



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February, 2016

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Introduction

Maine has over five million acres of freshwater wetlands. These wetlands are valuable not only for their beauty, but also for their capacity for regulating stream flow and for water retention during extreme weather events. Without wetlands as a natural flood control mechanism, flooding can become more severe.

In Acadia National Park, wetlands make up roughly 20% of the total area of the Park. Great Meadow, in the valley between Dorr and Kebo Mountains on Mount Desert Island, is one of the largest palustrine wetlands (47 hectares) in the Park. It is a mixed wetland complex that includes emergent shrub/fen communities and adjacent forested wetlands (Calhoun et al. 1994). Portions of the wetland had substantial evidence of alteration in the past including roads, berms, ditching, and beaver activity (Manville 1942, Calhoun et al. 1994), which overall has restricted water flow in this wetland and altered the vegetative community (Vaux et al. 2008). Acadia National Park is planning some culvert work in the Great Meadow watershed over the next few years that may further alter water flow dynamics in the wetland, although the intent of the work is to make appropriate modifications to the culvert without altering the hydrology of the wetland.

The goal of this project is to document water levels in the wetland using dataloggers in wells, and also document the wetland vegetation, following protocols developed by the U.S. Environmental Protection Agency (2011).

Study site and previous research

Great Meadow and the surrounding forested wetlands has extensive populations of invasive plants, more than any other location in Acadia National Park (Vaux et al. 2008). Invasive plants (purple loosestrife, *Lythrum salicaria*; glossy false buckthorn, *Frangula alnus*; shrubby St. Johnswort, *Hypericum prolificum*; and amur maple, *Acer ginnala*) in the vicinity of Great Meadow have been treated annually with herbicides since 1993 (Gregory and Dow 1998a, 1998b; Chase and Gregory 1998, 1999; Chase et al. 2002; Langley 2006a, 2006b, 2006c, 2006d; Langley and Boyd 2008; Langley et al. 2009; McKeage 2009; McKeage et al. 2010; McKeage and Connery 2010).

Greene (1999) conducted surveys of aquatic plants in Great Meadow and documented 11 aquatic species in the deeper portions of the wetland. The rare plant, Wiegand's sedge (*Carex wiegandii*), has been reported in Great Meadow. Wiegand's sedge, previously listed as a globally vulnerable species and a rare species in Maine, was documented in the wet birch woods west of Great Meadow in 1987 (Greene 1990, Greene et al. 2002, Nichols 2002). The conservation plan for this species in New England (Nichols 2002) recommended habitat protection, monitoring, and relocating historical occurrences. In addition, this conservation plan noted factors that may contribute to the loss of this species included the loss and degradation of habitats by wetland filling, nutrient runoff, and alteration to hydrological and disturbance regimes (Nichols 2002). Our knowledge of this species in the northeast, however, has increased since 2002 and this species is no longer considered globally rare and is now considered an uncommon but not rare species in Maine (D. Cameron, Maine Natural Areas Program, pers. comm.).

Reptiles and amphibians have also been documented from Great Meadow area. Brotherton et al. (2004) reported common garter snakes (*Thamnophis sirtalis*), eastern milk snakes (*Lampropeltis triangulum*), spotted salamanders (*Ambystoma maculatum*), four-toed salamanders (*Hemidactylium scutatum*), spring peepers (*Pseudacris crucifer*), American bullfrogs (*Rana catesbeiana*), northern green frogs (*Rana clamitans*), wood frogs (*Rana sylvatica*), and pickerel frogs (*Rana palustris*) in Great Meadow. The four-toed salamander was listed as a species of Special Concern by the Maine Department of Inland Fisheries and Wildlife (Hunter et al. 1999), but recent surveys suggest the species is more common and is not now considered a species of concern in Maine (<http://www.maine.gov/ifw/wildlife/endangered/specialconcern.htm>).

In Great Meadow, the emergent wetland with its bordering forested wetlands is known for very high diversity of birds (Witt 1994, Vaux et al. 2008). Two birds of conservation concern in Acadia National Park, American Bittern (*Botaurus lentiginosus*) and Virginia Rail (*Rallus limicola*), have been documented breeding in the Great Meadow area (Witt 1997, Vaux et al. 2008).

Methods

All vegetation and water level plot setup and monitoring techniques followed Miller and Mitchell (2013) and US Environmental Protection Agency (2011). Ten permanent vegetation plots were established and monitored in Great Meadow on Mount Desert Island between mid-July and mid-August, 2015. Plot locations were randomly selected. Each random point was field checked, in the order generated, and was rejected if it did not meet any of the following criteria: 1) no more than 10% of the 40 m radius plot contained non-target habitat (e.g., upland or deep water), and 2) no more than 10% of the 40 m radius plot overlapped an existing plot. Each plot was permanently marked with 1.25 cm rebar and capped with a metal survey cap marked with the plot number. We installed permanent PVC wells for monitoring water levels with HOBO data loggers in the first 6 plots that met our standards during our plot setup (plots 1–6). These 6 plots monitored for water level were also more intensively sampled for vegetation using NETN/EPA quantitative sampling protocols with all subplots marked with fiberglass stakes (US Environmental Protection Agency 2011). The remaining 4 plots sampled (plots 7–10) were set up as rapid field assessment plots that use qualitative methods based on simple observational metrics to evaluate conditions (US Environmental Protection Agency 2011). For all plots, species of plants were documented and photopoints were taken between July and August of 2015.

Water level and water temperature was monitored in plots 1–6 in the wetland (table 1, figure 1) using HOBO U20L dataloggers set in slotted PVC wells. In early October, we downloaded water level data from the data loggers and corrected water level data using air pressure data from McFarland Hill.

We ran a cluster analysis (McCune and Grace 2002) on average percent cover of plant species within each plot to assess plots for similarity of vegetation. In this cluster analysis, we used a group average linkage method and a Sorensen distance measure (McCune and Grace 2002, Peck 2010). We also ran a cluster analysis on the transposed data to determine the species associated with any invasive species encountered using the same linkage method and distance measures.

Figure 1. Locations of the 10 permanent plots established in Great Meadow, Mount Desert Island, 2015.

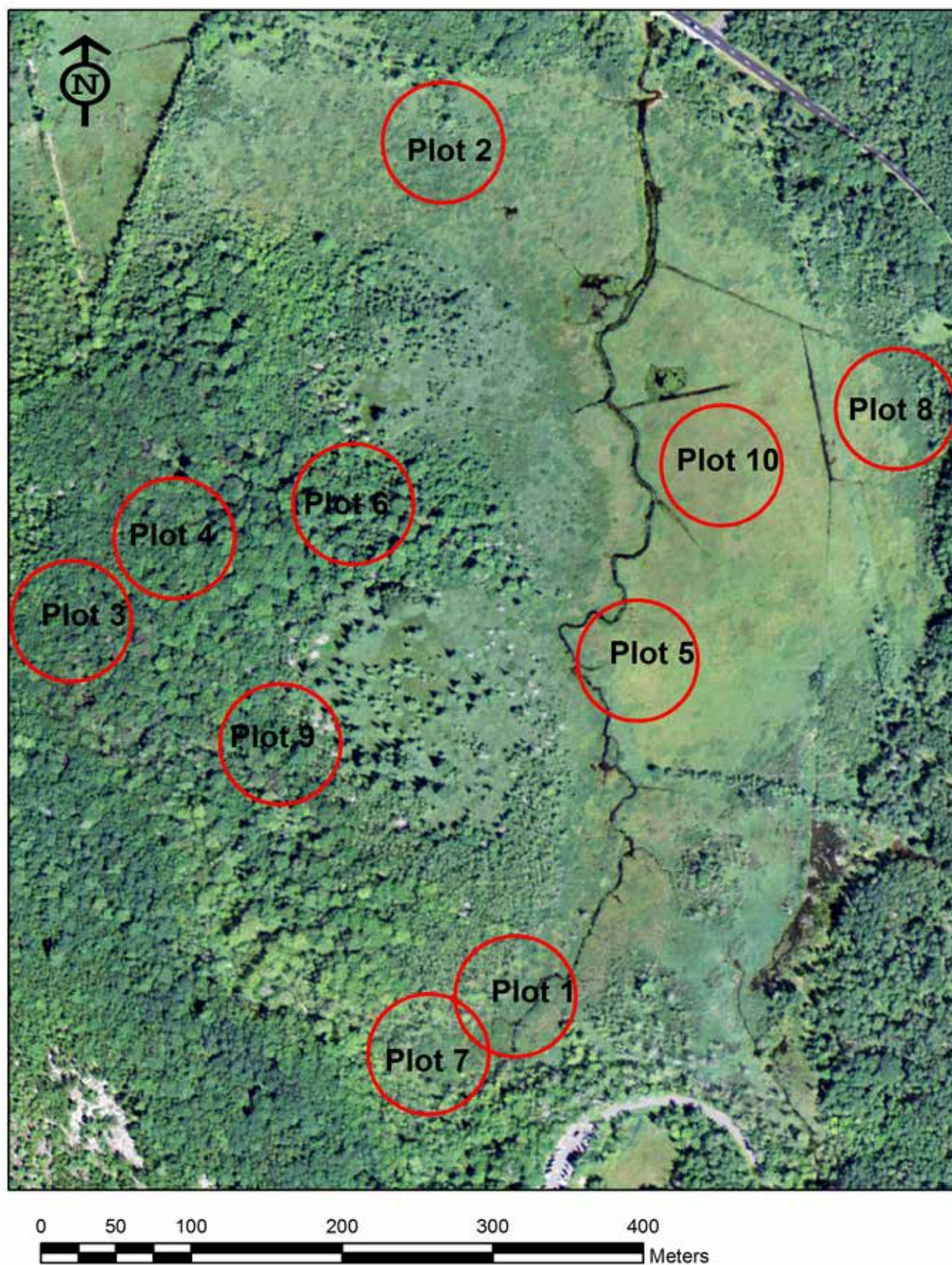


Table 1. UTM coordinates of the center of permanent plots established in Great Meadow, Mount Desert Island, 2015.

Plot #	UTM_Northing	UTM_Easting	Water level monitoring	Vegetation monitoring
1	563119	4912595	Yes	Yes
2	563071	4913162	Yes	Yes
3	562824	4912845	Yes	Yes
4	562910	4912898	Yes	Yes
5	563200	4912819	Yes	Yes
6	563011	4912923	Yes	Yes
7	563061	4912558	No	No
8	563371	4912986	No	No
9	562963	4912763	No	No
10	563256	4912949	No	No

Results and discussion

We set up 10 permanent monitoring plots in Great Meadow during 2015 (figure 1, table 1). These plots were the first 10 randomly selected sites and none were rejected. All plot centers used the randomly selected coordinates, with the exception of plot 4 that we moved slightly following standard protocols (US Environmental Protection Agency 2011) so that the plot and the associated well was not as visible from the adjacent trail. Photopoints from the plot center in the four cardinal directions are shown in Appendix 1. Stressors associated with the plots or buffer plots are summarized in table 2 (see US Environmental Protection Agency 2011 for details on these stressors).

Vegetation monitoring. We documented 101 plant species in the plots during our sampling efforts (table 3). Ninety-eight percent of the species documented in the plots were native. Glossy false buckthorn and Toringo crab apple (*Malus sieboldii*) were the only 2 non-native species documented in the plots in the wetland. The Toringo crab apple plants documented were extremely small seedlings, often with only 1 emerging leaf, and were difficult to positively identify from other species, such as amur maple. Greene (1999) conducted surveys of aquatic plants in Great Meadow and documented 7 aquatic species in the deeper portions of the wetland not documented in this study: vernal water-starwort (*Callitriche palustris*), needle spikesedge (*Eleocharis aciculatus*), blunt spikesedge (*Eleocharis obtusa*), ribbon-leaved pondweed (*Potamogeton epiphydrus*), Berchtold's pondweed (*Potamogeton berchtoldii*), greater bladderwort (*Utricularia vulgaris*), and southern wild rice (*Zizania aquatica*).

A total of 16 species were documented in over half of the plots sampled: Tussock sedge (*Carex stricta*), red maple (*Acer rubrum*), Canada reed grass (*Calamagrostis canadensis*), swamp yellow-loosestrife (*Lysimachia terrestris*), gray birch (*Betula populifolia*), lakeside sedge (*Carex lacustris*), common winterberry (*Ilex verticillata*), white meadowsweet (*Spiraea alba*), glossy false buckthorn, sweetgale (*Myrica gale*), cinnamon fern (*Osmundastrum cinnamomeum*), marsh fern (*Thelypteris palustris*), sheep American-laurel (*Kalmia angustifolia*), bristly blackberry (*Rubus hispidus*), meadow willow (*Salix petiolaris*), and highbush blueberry (*Vaccinium corymbosum*). All of these species are native, with the exception of glossy false buckthorn which is non-native and invasive. Tussock sedge was the only species that was located in all plots.

Table 2. Summary of stressors in the plots and buffer plots in Great Meadow, Mount Desert Island, 2015.

Stressors	Plot Number									
	1	2	3	4	5	6	7	8	9	10
Ditches/drains/channelization (Buffer area)	X	X			X	X	X	X		
Dikes/dams/levees/railroad or roadbed/ trail beds				X				X		
Culverts, pipes (point source discharge)in the buffer zone	X		X							
Impervious surface input	X									
Urban/Commercial buildings	X									
Road - gravel			X							
Parking lot/pavement	X									
Lawn/Park	X									
Mowing/shrub cutting (brush hogging)	X									
Other mechanical plant removal					X	X	X		X	
Chemical vegetation control (herbicide application)	X	X	X	X	X	X	X		X	
Cover of non-native or invasive species	X		X	X		X			X	
Trails	X		X	X		X				
Irrigation (irrigated land)	X									
Potholes, sink holes, or similar depres- sions not caused by animals	X						X			X
Animal track deep enough to hold water (e.g. deer)						X				
Natural or artificial debris dispersed across AA (tree limbs, lumber, etc.)			X	X						
Plant Hummocks or tussocks	X	X			X		X	X		X
Bare ground									X	
Dumping of garbage or other debris	X									
Upland plant species encroaching into AA (due to drying of wetland)			X	X		X				
Dredging or other prominent excavation at AA margin or in AA								X		
Grazing by native ungulates			X	X						

Table 3. Species documented from vegetation plots and subplots in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Nativity	Invasive	Plot Number									
				1	2	3	4	5	6	7	8	9	10
<i>Acer pensylvanicum</i>	striped maple	Native				X							
<i>Acer rubrum</i>	red maple	Native		X	X	X	X	X	X	X	X	X	
<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Native		X	X					X	X		
<i>Aralia nudicaulis</i>	wild sarsaparilla	Native				X							
<i>Aronia melanocarpa</i>	black chokeberry	Native		X									
<i>Betula alleghaniensis</i>	yellow birch	Native				X							
<i>Betula papyrifera</i>	paper birch	Native				X	X		X			X	
<i>Betula populifolia</i>	gray birch	Native		X	X	X	X		X	X	X	X	
<i>Brachyelytrum aristosum</i>	northern long-awned wood grass	Native					X						
<i>Calamagrostis canadensis</i>	Canada reed grass	Native		X	X		X	X	X	X	X	X	X
<i>Carex atlantica</i>	prickly bog sedge	Native		X					X			X	
<i>Carex brunnescens</i>	brownish sedge	Native					X		X		X	X	
<i>Carex canescens</i>	hoary sedge	Native		X									
<i>Carex debilis</i>	white-edged sedge	Native					X					X	
<i>Carex echinata</i>	star sedge	Native							X				
<i>Carex folliculata</i>	northern long sedge	Native							X			X	
<i>Carex lacustris</i>	lakeside sedge	Native		X	X		X	X	X	X	X		X
<i>Carex lasiocarpa</i>	woolly-fruited sedge	Native						X			X		X
<i>Carex lenticularis</i>	lake shore sedge	Native						X					
<i>Carex novae-angliae</i>	New England sedge	Native				X	X					X	
<i>Carex scoparia</i>	pointed broom sedge	Native			X								
<i>Carex stricta</i>	tussock sedge	Native		X	X	X	X	X	X	X	X	X	X
<i>Carex trisperma</i>	three-seeded sedge	Native				X	X		X			X	
<i>Carex utriculata</i>	swollen-beaked sedge	Native			X			X					
<i>Carex vesicaria</i>	lesser bladder sedge	Native							X	X	X		X
<i>Chamaedaphne calyculata</i>	leatherleaf	Native			X				X			X	

10 Table 3 (continued). Species documented from vegetation plots and subplots in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Nativity	Invasive	Plot Number									
				1	2	3	4	5	6	7	8	9	10
<i>Danthonia spicata</i>	poverty oatgrass	Native					X						
<i>Doellingeria umbellata</i>	tall white-aster	Native			X	X	X		X			X	
<i>Dryopteris campyloptera</i>	mountain wood fern	Native				X							
<i>Dryopteris carthusiana</i>	spinulose wood fern	Native			X		X					X	
<i>Dryopteris cristata</i>	crested wood fern	Native		X		X	X						
<i>Dryopteris intermedia</i>	evergreen wood fern	Native					X						
<i>Dulichium arundinaceum</i>	three-way sedge	Native			X			X			X		X
<i>Eleocharis sp.</i>		Native			X								
<i>Equisetum arvense</i>	field horsetail	Native			X						X		
<i>Eurybia radula</i>	rough wood-aster	Native								X			
<i>Frangula alnus</i>	glossy false buckthorn	Exotic	Yex	X	X	X	X		X			X	X
<i>Fraxinus pennsylvanica</i>	green ash	Native				X							
<i>Galium tinctorium</i> var. <i>tinctorium</i>	stiff three-petaled bedstraw	Native						X					
<i>Galium trifidum</i>	three-petaled bedstraw	Native			X								
<i>Gaylussacia baccata</i>	black huckleberry	Native		X									
<i>Glyceria borealis</i>	northern manna grass	Native						X					
<i>Glyceria canadensis</i>	rattlesnake manna grass	Native		X				X					
<i>Glyceria laxa</i>	flaccid manna grass	Native								X		X	
<i>Glyceria striata</i>	fowl manna grass	Native				X							
<i>Ilex mucronata</i>	mountain holly	Native				X	X					X	
<i>Ilex verticillata</i>	common winterberry	Native		X	X	X	X		X	X	X	X	
<i>Impatiens capensis</i>	spotted touch-me-not	Native						X					
<i>Iris versicolor</i>	blue iris	Native		X		X		X			X		
<i>Juncus brevicaudatus</i>	short-tailed rush	Native			X			X					
<i>Juncus canadensis</i>	Canada rush	Native			X			X			X		X
<i>Juncus effusus</i>	common soft rush	Native						X	X				
<i>Juncus pylaei</i>	Pylae's soft rush	Native		X	X								

Table 3 (continued). Species documented from vegetation plots and subplots in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Nativity	Invasive	Plot Number									
				1	2	3	4	5	6	7	8	9	10
<i>Kalmia angustifolia</i>	sheep American-laurel	Native		X	X		X		X	X		X	
<i>Larix laricina</i>	American larch	Native			X				X			X	
<i>Lonicera villosa</i>	mountain honeysuckle	Native			X								
<i>Lycopus uniflorus</i>	northern water-horehound	Native			X								
<i>Lysimachia borealis</i>	starflower	Native		X		X	X		X			X	
<i>Lysimachia terrestris</i>	swamp yellow-loosestrife	Native		X	X	X	X	X	X	X	X		X
<i>Maianthemum canadense</i>	Canada-mayflower	Native				X	X		X			X	
<i>Malus sieboldii</i>	Toringo crab apple	Exotic			X	X	X	X	X				
<i>Monotropa uniflora</i>	one-flowered Indian-pipe	Native				X	X					X	
<i>Myrica gale</i>	sweetgale	Native		X	X			X	X	X	X		X
<i>Nuphar variegata</i>	bullhead pond-lily	Native						X					
<i>Oclemena acuminata</i>	sharp-toothed nodding-aster	Native				X	X						
<i>Onoclea sensibilis</i>	sensitive fern	Native		X	X	X					X		
<i>Osmunda regalis</i>	royal fern	Native		X	X	X				X			
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	Native		X	X	X	X		X	X		X	
<i>Parathelypteris noveboracensis</i>	New York fern	Native				X							
<i>Picea rubens</i>	red spruce	Native				X	X					X	
<i>Pinus strobus</i>	eastern white pine	Native				X	X				X	X	
<i>Populus grandidentata</i>	big-toothed poplar	Native					X						
<i>Populus tremuloides</i>	quaking poplar	Native				X					X		
<i>Quercus rubra</i>	northern red oak	Native				X	X		X				
<i>Rhododendron canadense</i>	rhodora	Native		X					X			X	
<i>Rhododendron groenlandicum</i>	Labrador-tea	Native							X			X	
<i>Rosa nitida</i>	shining rose	Native		X	X			X					
<i>Rubus hispidus</i>	bristly blackberry	Native		X		X	X		X	X		X	
<i>Sagittaria latifolia</i>	common arrowhead	Native						X					
<i>Salix bebbiana</i>	long-beaked willow	Native			X					X	X		

Table 3 (continued). Species documented from vegetation plots and subplots in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Native	Invasive	Plot Number									
				1	2	3	4	5	6	7	8	9	10
<i>Salix petiolaris</i>	meadow willow	Native			X	X	X				X	X	X
<i>Scirpus atrocinctus</i>	black-girdled woolsedge	Native		X	X			X					
<i>Scirpus cyperinus</i>	common woolsedge	Native						X	X		X	X	X
<i>Scutellaria galericulata</i>	hooded skullcap	Native			X			X					
<i>Solidago uliginosa</i>	bog goldenrod	Native		X									
<i>Sorbus americana</i>	American mountain-ash	Native					X						
<i>Sparganium emersum</i>	simple-stemmed bur-reed	Native						X					
<i>Sparganium</i> sp.	Bur-reed	Native		X									
<i>Spiraea alba</i>	white meadowsweet	Native		X	X	X	X	X		X	X	X	X
<i>Spiraea tomentosa</i>	rosy meadowsweet	Native		X	X					X			
<i>Thelypteris palustris</i>	marsh fern	Native		X	X	X	X		X	X	X		
<i>Thuja occidentalis</i>	northern white-cedar	Native				X							
<i>Triadenum fraseri</i>	Fraser's marsh-St. John's-wort	Native			X			X		X	X		X
<i>Triadenum virginicum</i>	Virginia marsh-St. John's-wort	Native		X									
<i>Tsuga canadensis</i>	eastern hemlock	Native				X	X						
<i>Typha latifolia</i>	broad-leaved cat-tail	Native			X								
<i>Vaccinium angustifolium</i>	common lowbush blueberry	Native					X					X	
<i>Vaccinium corymbosum</i>	highbush blueberry	Native		X	X	X	X		X			X	
<i>Vaccinium myrtilloides</i>	velvet-leaved blueberry	Native		X									
<i>Viburnum nudum</i>	withe-rod	Native				X							
<i>Viola pallens</i>	smooth white violet	Native								X			

Seventeen species covered, on average, over 10% of the plot area in at least one of the plots (table 4). Red maple, lakeside sedge, gray birch, Canada reed grass, and meadow willow, were the species with the highest percent cover in the plots. Tussock sedge, Canada reed grass, red maple, and sweetgale had an over 10% cover in the most plots. The invasive plant glossy false buckthorn was the only invasive plant documented in the plots with an over 10% cover in at least one of the plots.

In the six plots with detailed vegetation sampling and quantitative percent cover for all species encountered (plots 1–6, Table 5), bryophytes covered an average of 12% of the plots and ranged from 0% to 31%. The species averaging more than 4% cover in the plots included tussock sedge (30%); red maple (29%); Canada reed grass (20%), sweetgale (15%), gray birch (12%), lakeside sedge (11%), glossy false buckthorn (8%), lake shore sedge (6%), yellow birch (*Betula alleghaniensis*, 4%), paper birch (*Betula papyrifera*, 4%), and woolly-fruited sedge (*Carex lasiocarpa*, 4%).

Cluster analysis grouped the vegetation in plots 1–6 into 2 groups (figure 2) based on average percent cover of plants and bryophytes: trees dominated in plots 3 and 4, sedges dominated in plots 1, 2, 5, and 6.

Trees, primarily red maple, dominated in plots 3 and 4. The cover of plot 3 was dominated by red maple (61%), bryophytes (24%), yellow birch (23%), tussock sedge (17%), cinnamon fern (11%), and gray birch (10%), with lesser amounts of paper birch (9%), common winterberry (9%), and New England sedge (*Carex novae-angliae*, 8%) mixed in. The cover of plot 4 was dominated by red maple (83%), tussock sedge (29%), paper birch (13%), and bryophytes (11%), with lesser amounts of glossy false buckthorn (6%) mixed in. In the four plots that were less intensively sampled for vegetation, plot 9 fit into this group with a good mix of red maples, paper birches, glossy false buckthorn.

Sedges dominated in plots 1, 2, 5, and 6. The cover of plot 1 was dominated by tussock sedge (50%), sweetgale (49%), and Canada reed grass (31%), with lesser amounts of gray birch (8%) mixed in. The cover of plot 2, the wettest plot sampled, was dominated by Canada reed grass (35%), sweet gale (29%), lakeside sedge (24%), broad-leaved cat-tail (*Typha latifolia*, 19%), speckled alder (*Alnus incana*, 17%), with lesser amounts of meadow willow (9%) mixed in. The cover of plot 5 was dominated by Canada reed grass (56%), lakeside sedge (38%), lake shore sedge (34%), tussock sedge (25%), and woolly-fruited sedge (21%), with lesser amounts of sweetgale (9%) mixed in. The cover of plot 6 was dominated by tussock sedge (59%), gray birch (49%), glossy false buckthorn (42%), red maple (27%), with lesser amounts of highbush blueberry (*Vaccinium corymbosum*, 8%) mixed in. Out of all of the plots in this group, this plot had more of a mix of sedges and trees. In the four plots that were less intensively sampled for vegetation, plots 7, 8, and 10 fit in this group with a good mix of sedges of grasses. Plot 7 had more of a mix of sedges and trees, with a mix of gray birch, Canada reed grass, tussock sedge, lesser bladder sedge, and sweetgale.

In looking at the species associated with the invasive plant glossy false buckthorn within Great Meadow (cluster analysis on transposed data), gray birch was very closely tied to this species in our plots. Tussock sedge and red maple were also other indicators of this invasive species in Great Meadow.

Table 5. Average percent cover ($\pm$ standard deviation) of species in plots 1–6 in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Native	Invasive	Plot Number					
				1	2	3	4	5	6
<i>Acer pensylvanicum</i>	striped maple	Native				0.3 $\pm$ 0.3			
<i>Acer rubrum</i>	red maple	Native		1.8 $\pm$ 1.6	0.4 $\pm$ 0.2	61.0 $\pm$ 28.2	83.0 $\pm$ 5.7	0.1 $\pm$ 0.2	27.4 $\pm$ 13.1
<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Native		3.0 $\pm$ 4.5	17.2 $\pm$ 11.9				
<i>Aralia nudicaulis</i>	wild sarsaparilla	Native				0.1 $\pm$ 0.2			
<i>Aronia melanocarpa</i>	black chokeberry	Native		0.2 $\pm$ 0.3					
<i>Betula alleghaniensis</i>	yellow birch	Native				23.4 $\pm$ 18.8			
<i>Betula papyrifera</i>	paper birch	Native				9.0 $\pm$ 12.3	12.8 $\pm$ 15.6		1.0 $\pm$ 2.2
<i>Betula populifolia</i>	gray birch	Native		7.6 $\pm$ 15.4	1.2 $\pm$ 1.6	9.8 $\pm$ 19.8	1.4 $\pm$ 2.2		49.0 $\pm$ 29.2
<i>Brachyelytrum aristosum</i>	northern long-awned wood grass	Native					0.2 $\pm$ 0.4		
<i>Bryophytes</i>		Native		31.1 $\pm$ 30.0	1.7 $\pm$ 1.4	24.4 $\pm$ 14.8	10.5 $\pm$ 14.6		2.2 $\pm$ 3.3
<i>Calamagrostis canadensis</i>	Canada reed grass	Native		31.4 $\pm$ 19.7	34.8 $\pm$ 29.0		0.3 $\pm$ 0.4	56.0 $\pm$ 26.8	
<i>Carex atlantica</i>	prickly bog sedge	Native							0.1 $\pm$ 0.2
<i>Carex brunnescens</i>	brownish sedge	Native					0.2 $\pm$ 0.3		0.1 $\pm$ 0.2
<i>Carex folliculata</i>	northern long sedge	Native							0.1 $\pm$ 0.2
<i>Carex lacustris</i>	lakeside sedge	Native		5.0 $\pm$ 11.2	24.1 $\pm$ 26.2			38.0 $\pm$ 25.9	
<i>Carex lasiocarpa</i>	woolly-fruited sedge	Native						21.4 $\pm$ 20.4	
<i>Carex lenticularis</i>	lake shore sedge	Native						34.2 $\pm$ 18.9	
<i>Carex novae-angliae</i>	New England sedge	Native				8.0 $\pm$ 17.9	1.3 $\pm$ 1.2		
<i>Carex stricta</i>	tussock sedge	Native		50.0 $\pm$ 22.6		17.2 $\pm$ 21.7	28.6 $\pm$ 28.1	24.6 $\pm$ 24.7	59.2 $\pm$ 46.2
<i>Carex trisperma</i>	three-seeded sedge	Native				0.3 $\pm$ 0.4	0.1 $\pm$ 0.2		
<i>Carex utriculata</i>	swollen-beaked sedge	Native			0.5 $\pm$ 0.9				
<i>Chamaedaphne calyculata</i>	leatherleaf	Native			0.6 $\pm$ 0.9				1.1 $\pm$ 2.2
<i>Danthonia spicata</i>	poverty oatgrass	Native					0.1 $\pm$ 0.2		
<i>Doellingeria umbellata</i>	tall white-aster	Native				0.2 $\pm$ 0.3	0.2 $\pm$ 0.3		
<i>Dryopteris campyloptera</i>	mountain wood fern	Native				0.1 $\pm$ 0.2			
<i>Dryopteris carthusiana</i>	spinulose wood fern	Native			0.1 $\pm$ 0.2		0.4 $\pm$ 0.2		
<i>Dryopteris cristata</i>	crested wood fern	Native		0.7 $\pm$ 1.3		0.3 $\pm$ 0.3	0.2 $\pm$ 0.3		

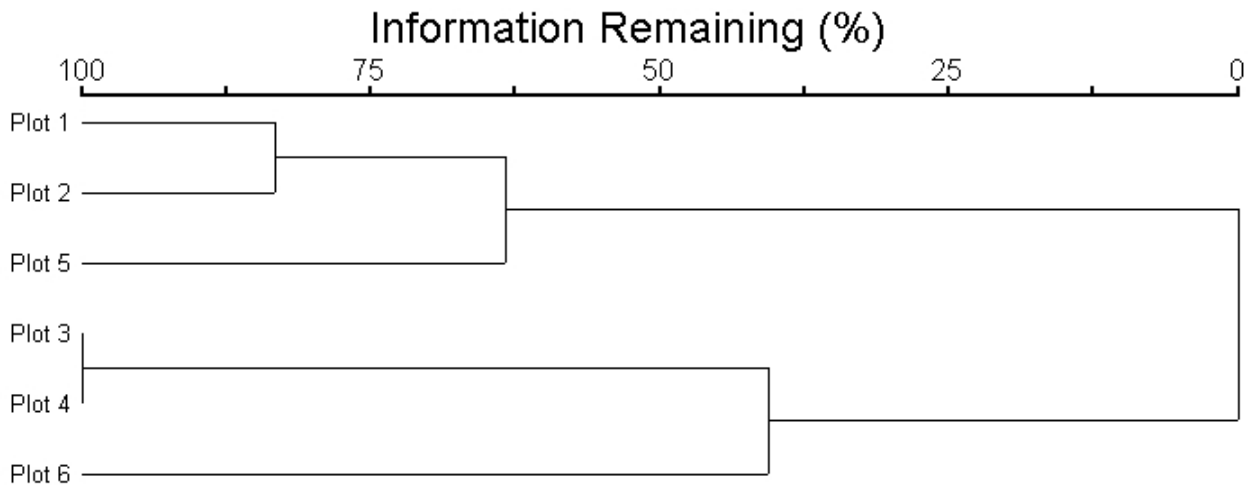
Table 5 (continued). Average percent cover ($\pm$ standard deviation) of species in plots 1–6 in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Nativity	Invasive	Plot Number					
				1	2	3	4	5	6
<i>Dryopteris intermedia</i>	evergreen wood fern	Native					0.1 $\pm$ 0.2		
<i>Dulichium arundinaceum</i>	three-way sedge	Native			0.1 $\pm$ 0.2			2.4 $\pm$ 4.8	
<i>Equisetum arvense</i>	field horsetail	Native			0.1 $\pm$ 0.2				
<i>Frangula alnus</i>	glossy false buckthorn	Exotic	Yes	0.1 $\pm$ 0.2	0.4 $\pm$ 0.2		6.2 $\pm$ 5.8		42.4 $\pm$ 41.0
<i>Fraxinus pennsylvanica</i>	green ash	Native				0.2 $\pm$ 0.3			
<i>Galium tinctorium</i> var. <i>tinctorium</i>	stiff three-petaled bedstraw	Native						0.1 $\pm$ 0.2	
<i>Galium trifidum</i>	three-petaled bedstraw	Native			0.2 $\pm$ 0.3				
<i>Gaylussacia baccata</i>	black huckleberry	Native		0.1 $\pm$ 0.2					
<i>Glyceria canadensis</i>	rattlesnake manna grass	Native		0.1 $\pm$ 0.2				0.1 $\pm$ 0.2	
<i>Glyceria striata</i>	fowl manna grass	Native				0.5 $\pm$ 0.5			
<i>Ilex mucronata</i>	mountain holly	Native				0.2 $\pm$ 0.3			
<i>Ilex verticillata</i>	common winterberry	Native		0.4 $\pm$ 0.5	0.1 $\pm$ 0.2	8.7 $\pm$ 17.5	0.3 $\pm$ 0.3		0.1 $\pm$ 0.2
<i>Impatiens capensis</i>	spotted touch-me-not	Native						0.1 $\pm$ 0.2	
<i>Iris versicolor</i>	blue iris	Native		0.1 $\pm$ 0.2					
<i>Juncus canadensis</i>	Canada rush	Native			0.1 $\pm$ 0.2			0.5 $\pm$ 0.9	
<i>Juncus effusus</i>	common soft rush	Native						0.2 $\pm$ 0.4	0.1 $\pm$ 0.2
<i>Kalmia angustifolia</i>	sheep American-laurel	Native		0.1 $\pm$ 0.2	0.1 $\pm$ 0.2				0.1 $\pm$ 0.2
<i>Larix laricina</i>	American larch	Native			0.1 $\pm$ 0.2				
<i>Lonicera villosa</i>	mountain honeysuckle	Native			0.2 $\pm$ 0.3				
<i>Lycopus uniflorus</i>	northern water-horehound	Native			0.3 $\pm$ 0.4				
<i>Lysimachia borealis</i>	starflower	Native				0.5 $\pm$ 0.4	0.6 $\pm$ 0.2		0.3 $\pm$ 0.3
<i>Lysimachia terrestris</i>	swamp yellow-loosestrife	Native		0.4 $\pm$ 0.2	2.3 $\pm$ 3.3	0.1 $\pm$ 0.2	0.1 $\pm$ 0.2	0.2 $\pm$ 0.3	
<i>Maianthemum canadense</i>	Canada-mayflower	Native				0.4 $\pm$ 0.2	0.5 $\pm$ 0.0		0.1 $\pm$ 0.2
<i>Malus sieboldii</i>	Toringo crab apple	Exotic				0.3 $\pm$ 0.3	0.2 $\pm$ 0.3		
<i>Monotropa uniflora</i>	one-flowered Indian-pipe	Native					0.1 $\pm$ 0.2		
<i>Myrica gale</i>	sweetgale	Native		48.8 $\pm$ 28.1	29.4 $\pm$ 28.8			9.3 $\pm$ 14.8	
<i>Oclemena acuminata</i>	sharp-toothed nodding-aster	Native					0.1 $\pm$ 0.2		
<i>Onoclea sensibilis</i>	sensitive fern	Native		0.1 $\pm$ 0.2	0.3 $\pm$ 0.3	0.1 $\pm$ 0.2			
<i>Osmunda regalis</i>	royal fern	Native		0.7 $\pm$ 1.3	0.1 $\pm$ 0.2	0.5 $\pm$ 0.0			
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	Native		0.1 $\pm$ 0.2		11.0 $\pm$ 9.9	1.1 $\pm$ 1.1		0.2 $\pm$ 0.3

Table 5 (continued). Average percent cover ($\pm$ standard deviation) of species in plots 1–6 in Great Meadow on Mount Desert Island, summer 2015.

Species	Common	Native	Invasive	Plot Number					
				1	2	3	4	5	6
<i>Picea rubens</i>	red spruce	Native				0.1 $\pm$ 0.2	0.3 $\pm$ 0.4		
<i>Pinus strobus</i>	eastern white pine	Native				0.1 $\pm$ 0.2	0.4 $\pm$ 0.2		
<i>Populus grandidentata</i>	big-toothed poplar	Native					1.6 $\pm$ 3.6		
<i>Populus tremuloides</i>	quaking poplar	Native				2.1 $\pm$ 4.4			
<i>Quercus rubra</i>	northern red oak	Native				0.2 $\pm$ 0.3	0.1 $\pm$ 0.2		
<i>Rhododendron canadense</i>	rhodora	Native		1.3 $\pm$ 2.1					0.3 $\pm$ 0.3
<i>Rhododendron groenlandicum</i>	Labrador-tea	Native							0.1 $\pm$ 0.2
<i>Rosa nitida</i>	shining rose	Native		0.1 $\pm$ 0.2				0.1 $\pm$ 0.2	
<i>Rubus hispidus</i>	bristly blackberry	Native				0.3 $\pm$ 0.3	1.4 $\pm$ 1.1		0.3 $\pm$ 0.3
<i>Sagittaria latifolia</i>	common arrowhead	Native						0.1 $\pm$ 0.2	
<i>Salix petiolaris</i>	meadow willow	Native			8.5 $\pm$ 8.4	0.1 $\pm$ 0.2			
<i>Scirpus atrocinctus</i>	black-girdled woolsedge	Native						0.1 $\pm$ 0.2	
<i>Scirpus cyperinus</i>	common woolsedge	Native						0.3 $\pm$ 0.4	0.1 $\pm$ 0.2
<i>Scutellaria galericulata</i>	hooded skullcap	Native			0.1 $\pm$ 0.2			0.1 $\pm$ 0.2	
<i>Solidago uliginosa</i>	bog goldenrod	Native		0.1 $\pm$ 0.2					
<i>Sorbus americana</i>	American mountain-ash	Native					0.1 $\pm$ 0.2		
<i>Sparganium emersum</i>	simple-stemmed bur-reed	Native						0.1 $\pm$ 0.2	
<i>Sparganium sp.</i>	Bur-reed	Native		0.1 $\pm$ 0.2					
<i>Spiraea alba</i>	white meadowsweet	Native		1.1 $\pm$ 1.1	3.0 $\pm$ 4.0	0.1 $\pm$ 0.2		0.8 $\pm$ 0.8	
<i>Spiraea tomentosa</i>	rosy meadowsweet	Native		0.1 $\pm$ 0.2	0.1 $\pm$ 0.2				
<i>Thelypteris palustris</i>	marsh fern	Native		0.3 $\pm$ 0.3	0.4 $\pm$ 0.9	0.5 $\pm$ 0.0	0.2 $\pm$ 0.3		0.1 $\pm$ 0.2
<i>Triadenum fraseri</i>	Fraser's marsh-St. John's-wort	Native			0.2 $\pm$ 0.3			0.2 $\pm$ 0.3	
<i>Tsuga canadensis</i>	eastern hemlock	Native				0.3 $\pm$ 0.3			
<i>Typha latifolia</i>	broad-leaved cat-tail	Native			19.1 $\pm$ 20.6				
<i>Vaccinium angustifolium</i>	common lowbush blueberry	Native					0.1 $\pm$ 0.2		
<i>Vaccinium corymbosum</i>	highbush blueberry	Native		0.4 $\pm$ 0.9		0.1 $\pm$ 0.2	0.8 $\pm$ 0.8		7.5 $\pm$ 12.7
<i>Vaccinium myrtilloides</i>	velvet-leaved blueberry	Native		0.1 $\pm$ 0.2					
<i>Viburnum nudum</i>	withe-rod	Native				0.1 $\pm$ 0.2			

Figure 2. Cluster analysis of average percent cover of species in 6 plots established in Great Meadow, Mount Desert Island, 2015.



Water level and temperature monitoring. We set up and maintained 6 PVC wells, in plots 1-6 (figure 1), to monitor water levels. Dataloggers were deployed from mid-July to mid-August, depending on the site and hourly water levels were collected from deployment until 23 October 2015 (table 6). A graph of water level in each well by date is given in Figure 3. Hourly water level and temperature for each monitoring well are given in Appendix 2.

Plots 1, 5, and 2 make a rough transect in the open portion of the marsh from the upper part of the wetland to the lower part (figure 1). Among these 3 plots (table 6), changes water levels between maximum and minimum water depths were greatest in plot 1 (34.1 cm) in the upper part of the marsh and lowest in plot 2 (20.5 cm) nearest the outlet. On 30 September, 7.95 cm of rain fell, the largest rainfall of the monitoring period. After this rain, water levels rose in all monitoring wells. The increase in water levels during and after this storm (table 7) were greatest in plot 5 (17 cm), and least in plot 2 (11 cm), suggesting that micro-site parameters have a greater influence over changing water levels after rainfall rather than distance to the marsh outlet. Water temperature among these 3 plots did not follow a gradient from upper to lower wetland (table 8). The lowest average water temperature (table 7) varied from 10.1 °C in plot 1 to 11.5 °C in plot 5.

Plots 3, 4, and 6 make a rough transect in the more forested portion of the marsh, with plot 3 being furthest from the center drainage channel to plot 6 closest to the center drainage channel (figure 1). Among these 3 plots (table 6), changes water levels between maximum and minimum water depths were greatest in plot 3 (78.2 cm) furthest from the center drainage channel and lowest in plot 6 (37.3 cm) closer to the center drainage channel. On 30 September, 7.95 cm of rain fell, the largest rainfall of the monitoring period. The increase in water levels during and after this storm (table 7) were greatest in plot 4 (49 cm), and least in plot 6 (16 cm), also suggesting that micro-site parameters have a greater influence over changing water levels after rainfall rather than distance to the marsh outlet. Water temperature among these 3 plots did follow the distance to main channel gradient (table 8). The lowest average water temperature (table 7) varied from 10.9 °C in plot 3 to 11.6 °C in plot 6.

Figure 3. Water level from dataloggers in 6 PVC wells in Great Meadow, Mount Desert Island, 2015. Daily precipitation over 0.05" during this period was as follows: 18 July: 0.15"; 19 July: 0.06"; 24 July: 0.43"; 26 July 0.28"; 28 July: 0.65"; 5 August: 0.06"; 11 August: 1.27"; 12 August 0.08"; 26 August: 0.12"; 9 September 0.19"; 11 September: 1.65"; 13 September: 0.16"; 14 September: 0.57"; 29 September 0.06"; 30 September: 3.13"; 9 October: 0.70"; 13 October: 0.23"; 16 October: 0.06"; 17 October: 0.07".

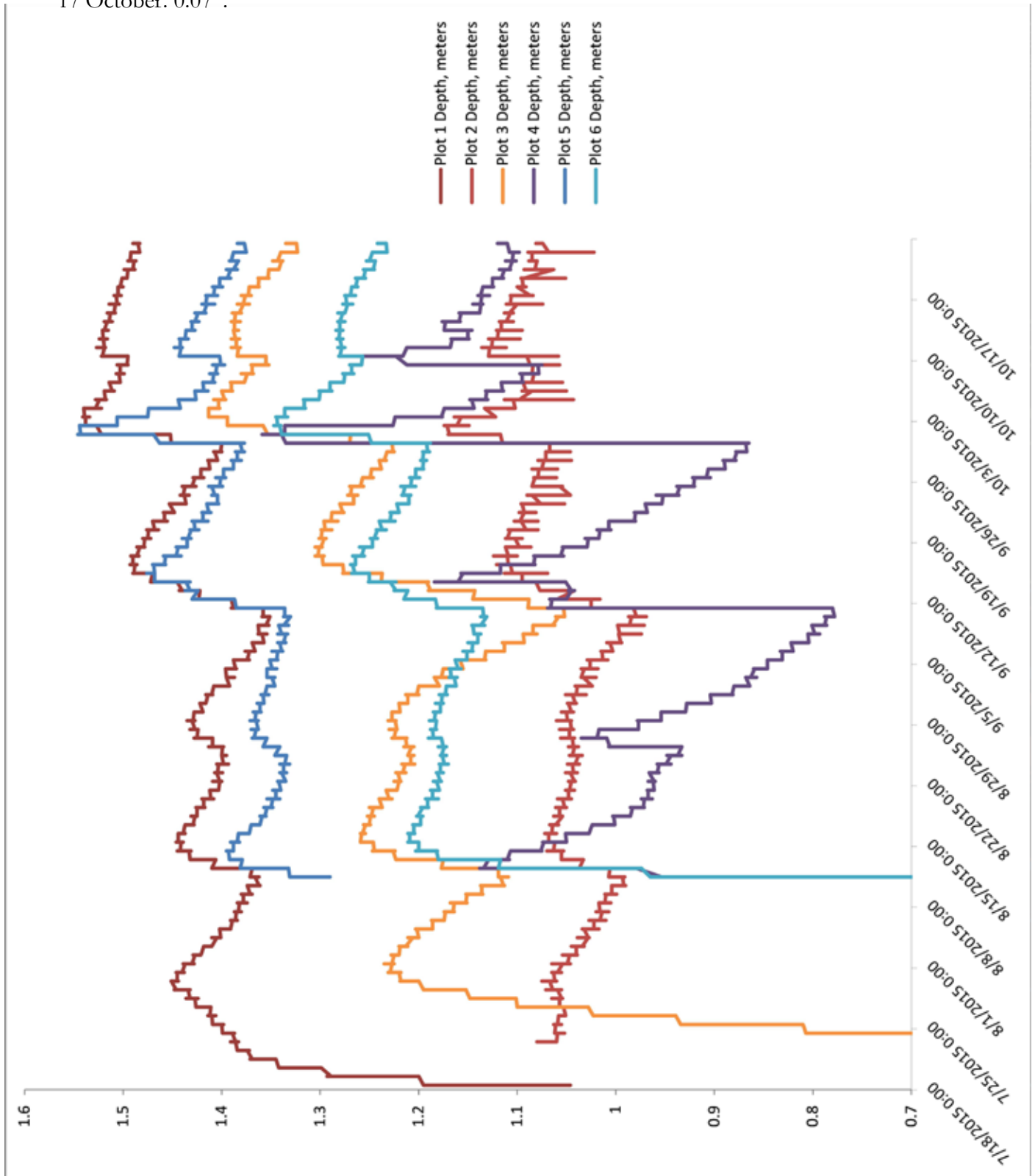


Table 6. Water level datalogger deployment dates, average depth, maximum change in water levels between deployment dates and 23 October, Great Meadow, Mount Desert Island, 2015.

Plot #	Date deployed	Average datalogger depth (m $\pm$ standard deviation)	Maximum change of water level (cm)	Date Minimum	Date Maximum
1	19 July	1.43 $\pm$ 0.05	34.1	19 July	3 October
2	24 July	1.06 $\pm$ 0.04	20.5	10 September	2 October
3	24 July	1.23 $\pm$ 0.12	78.2	24 July	3 October
4	12 August	1.02 $\pm$ 0.12	58.1	10 September	1 October
5	12 August	1.39 $\pm$ 0.04	21.6	10 September	1 October
6	12 August	1.22 $\pm$ 0.06	37.3	12 August	2 October

Table 7. Water level increase in the water monitoring wells, Great Meadow, Mount Desert Island, after the large rainfall (7.95 cm) on 30 September 2015.

Plot #	Water level increase (cm)	Hours from end of rain to peak water levels
1	14	52
2	11	25
3	19	72
4	49	6
5	17	20
6	16	32

Table 8. Water temperature datalogger deployment dates, average water temperature, maximum change in water temperature between deployment dates and 23 October, Great Meadow, Mount Desert Island, 2015.

Plot #	Date deployed	Average water temperature ($^{\circ}\text{C}$ $\pm$ standard deviation)	Maximum change of water temperature ($^{\circ}\text{C}$)	Date Minimum	Date Maximum
1	19 July	10.1 $\pm$ 0.85	2.8	19 July	25 September
2	24 July	12.6 $\pm$ 0.85	2.9	22 October	12 September
3	24 July	10.9 $\pm$ 0.80	2.5	24 July	25 September
4	12 August	11.3 $\pm$ 0.55	1.9	12 August	30 September
5	12 August	11.5 $\pm$ 0.44	1.5	12 August	18 September
6	12 August	11.6 $\pm$ 0.60	1.9	12 August	30 September

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Appendix 1. Photopoints

Great Meadow Plot 1 - North transect, July 16, 2015.



Great Meadow Plot 1 - South transect, July 16, 2015.



Appendix 1. Photopoints

Great Meadow Plot 1 - East transect, July 16, 2015.



Great Meadow Plot 1 - West transect, July 16, 2015.



Appendix 1. Photopoints

Great Meadow Plot 2 - North transect, July 23, 2015.



Great Meadow Plot 2 - South transect, July 23, 2015.



Appendix 1. Photopoints

Great Meadow Plot 2 - East transect, July 23, 2015.



Great Meadow Plot 2 - West transect, July 23, 2015.



Appendix 1. Photopoints

Great Meadow Plot 3 - North transect, July 28, 2015.



Great Meadow Plot 3 - South transect, July 28, 2015.



Appendix 1. Photopoints

Great Meadow Plot 3 - East transect, July 28, 2015.



Great Meadow Plot 3 - West transect, July 28, 2015.



Appendix 1. Photopoints

Great Meadow Plot 4 - North transect, July 30, 2015.



Great Meadow Plot 4 - South transect, July 30, 2015.



Appendix 1. Photopoints

Great Meadow Plot 4 - East transect, July 30, 2015.



Great Meadow Plot 4 - West transect, July 30, 2015.



Appendix 1. Photopoints

Great Meadow Plot 5 - North transect, August 11, 2015.



Great Meadow Plot 5 - South transect, August 11, 2015.



Appendix 1. Photopoints

Great Meadow Plot 5 - East transect, August 11, 2015.



Great Meadow Plot 5 - West transect, August 11, 2015.



Appendix 1. Photopoints

Great Meadow Plot 6 - North transect, August 10, 2015.



Great Meadow Plot 6 - South transect, August 10, 2015.



Appendix 1. Photopoints

Great Meadow Plot 6 - East transect, August 10, 2015.



Great Meadow Plot 6 - West transect, August 10, 2015.



Appendix 1. Photopoints

Great Meadow Plot 7 - North transect, August 14, 2015.



Great Meadow Plot 7 - South transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 7 - East transect, August 14, 2015.



Great Meadow Plot 7 - West transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 8 - North transect, August 14, 2015.



Great Meadow Plot 8 - South transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 8 - East transect, August 14, 2015.



Great Meadow Plot 8 - West transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 9 - North transect, August 14, 2015.



Great Meadow Plot 9 - South transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 9 - East transect, August 14, 2015.



Great Meadow Plot 9 - West transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 10 - North transect, August 14, 2015.



Great Meadow Plot 10 - South transect, August 14, 2015.



Appendix 1. Photopoints

Great Meadow Plot 10 - East transect, August 14, 2015.



Great Meadow Plot 10 - West transect, August 14, 2015.



Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/18/2015 0:00	8.182	1.046										
7/18/2015 1:00	8.182	1.055										
7/18/2015 2:00	8.182	1.065										
7/18/2015 3:00	8.182	1.071										
7/18/2015 4:00	8.182	1.078										
7/18/2015 5:00	8.182	1.086										
7/18/2015 6:00	8.182	1.093										
7/18/2015 7:00	8.182	1.099										
7/18/2015 8:00	8.182	1.108										
7/18/2015 9:00	8.182	1.114										
7/18/2015 10:00	8.182	1.122										
7/18/2015 11:00	8.182	1.13										
7/18/2015 12:00	8.182	1.136										
7/18/2015 13:00	8.182	1.143										
7/18/2015 14:00	8.182	1.148										
7/18/2015 15:00	8.182	1.156										
7/18/2015 16:00	8.182	1.162										
7/18/2015 17:00	8.182	1.169										
7/18/2015 18:00	8.182	1.172										
7/18/2015 19:00	8.182	1.177										
7/18/2015 20:00	8.182	1.183										
7/18/2015 21:00	8.182	1.189										
7/18/2015 22:00	8.182	1.191										
7/18/2015 23:00	8.182	1.195										
7/19/2015 0:00	8.182	1.2										
7/19/2015 1:00	8.182	1.201										
7/19/2015 2:00	8.182	1.209										
7/19/2015 3:00	8.182	1.213										
7/19/2015 4:00	8.182	1.221										
7/19/2015 5:00	8.182	1.224										
7/19/2015 6:00	8.182	1.232										
7/19/2015 7:00	8.282	1.232										
7/19/2015 8:00	8.282	1.235										
7/19/2015 9:00	8.282	1.237										
7/19/2015 10:00	8.282	1.242										
7/19/2015 11:00	8.282	1.249										
7/19/2015 12:00	8.282	1.25										
7/19/2015 13:00	8.282	1.255										
7/19/2015 14:00	8.282	1.262										
7/19/2015 15:00	8.282	1.261										
7/19/2015 16:00	8.282	1.265										
7/19/2015 17:00	8.282	1.271										
7/19/2015 18:00	8.282	1.275										
7/19/2015 19:00	8.282	1.281										
7/19/2015 20:00	8.282	1.286										
7/19/2015 21:00	8.282	1.286										
7/19/2015 22:00	8.282	1.293										

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/19/2015 23:00	8.282	1.289										
7/20/2015 0:00	8.282	1.299										
7/20/2015 1:00	8.282	1.3										
7/20/2015 2:00	8.282	1.301										
7/20/2015 3:00	8.282	1.3										
7/20/2015 4:00	8.282	1.302										
7/20/2015 5:00	8.282	1.307										
7/20/2015 6:00	8.282	1.307										
7/20/2015 7:00	8.282	1.309										
7/20/2015 8:00	8.282	1.311										
7/20/2015 9:00	8.282	1.312										
7/20/2015 10:00	8.282	1.316										
7/20/2015 11:00	8.282	1.316										
7/20/2015 12:00	8.282	1.318										
7/20/2015 13:00	8.282	1.32										
7/20/2015 14:00	8.282	1.324										
7/20/2015 15:00	8.282	1.329										
7/20/2015 16:00	8.282	1.329										
7/20/2015 17:00	8.282	1.334										
7/20/2015 18:00	8.282	1.335										
7/20/2015 19:00	8.282	1.335										
7/20/2015 20:00	8.282	1.339										
7/20/2015 21:00	8.282	1.34										
7/20/2015 22:00	8.282	1.341										
7/20/2015 23:00	8.282	1.342										
7/21/2015 0:00	8.282	1.345										
7/21/2015 1:00	8.282	1.348										
7/21/2015 2:00	8.282	1.352										
7/21/2015 3:00	8.282	1.351										
7/21/2015 4:00	8.282	1.349										
7/21/2015 5:00	8.282	1.351										
7/21/2015 6:00	8.282	1.353										
7/21/2015 7:00	8.382	1.355										
7/21/2015 8:00	8.382	1.354										
7/21/2015 9:00	8.382	1.36										
7/21/2015 10:00	8.382	1.356										
7/21/2015 11:00	8.382	1.363										
7/21/2015 12:00	8.382	1.359										
7/21/2015 13:00	8.382	1.364										
7/21/2015 14:00	8.382	1.365										
7/21/2015 15:00	8.382	1.363										
7/21/2015 16:00	8.382	1.365										
7/21/2015 17:00	8.382	1.366										
7/21/2015 18:00	8.382	1.365										
7/21/2015 19:00	8.382	1.369										
7/21/2015 20:00	8.382	1.367										
7/21/2015 21:00	8.382	1.368										

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/21/2015 22:00	8.382	1.371										
7/21/2015 23:00	8.382	1.369										
7/22/2015 0:00	8.382	1.374										
7/22/2015 1:00	8.382	1.373										
7/22/2015 2:00	8.382	1.374										
7/22/2015 3:00	8.382	1.374										
7/22/2015 4:00	8.382	1.374										
7/22/2015 5:00	8.382	1.373										
7/22/2015 6:00	8.382	1.374										
7/22/2015 7:00	8.382	1.375										
7/22/2015 8:00	8.382	1.372										
7/22/2015 9:00	8.382	1.374										
7/22/2015 10:00	8.382	1.373										
7/22/2015 11:00	8.382	1.375										
7/22/2015 12:00	8.382	1.376										
7/22/2015 13:00	8.382	1.379										
7/22/2015 14:00	8.382	1.381										
7/22/2015 15:00	8.382	1.377										
7/22/2015 16:00	8.382	1.378										
7/22/2015 17:00	8.382	1.379										
7/22/2015 18:00	8.382	1.378										
7/22/2015 19:00	8.382	1.382										
7/22/2015 20:00	8.382	1.383										
7/22/2015 21:00	8.382	1.384										
7/22/2015 22:00	8.382	1.383										
7/22/2015 23:00	8.382	1.384										
7/23/2015 0:00	8.382	1.386	11.041	1.08	9.176	0.368						
7/23/2015 1:00	8.382	1.385	11.041	1.079	9.176	0.382						
7/23/2015 2:00	8.382	1.386	11.041	1.077	9.176	0.392						
7/23/2015 3:00	8.382	1.387	11.041	1.076	9.176	0.405						
7/23/2015 4:00	8.382	1.383	11.041	1.075	9.176	0.418						
7/23/2015 5:00	8.382	1.383	11.041	1.073	9.176	0.428						
7/23/2015 6:00	8.382	1.385	11.041	1.072	9.176	0.44						
7/23/2015 7:00	8.382	1.384	11.041	1.071	9.176	0.453						
7/23/2015 8:00	8.382	1.386	11.041	1.072	9.176	0.465						
7/23/2015 9:00	8.481	1.387	11.041	1.07	9.176	0.479						
7/23/2015 10:00	8.481	1.388	11.041	1.069	9.176	0.49						
7/23/2015 11:00	8.481	1.387	11.041	1.068	9.176	0.499						
7/23/2015 12:00	8.481	1.387	11.041	1.069	9.176	0.511						
7/23/2015 13:00	8.481	1.388	11.041	1.067	9.176	0.521						
7/23/2015 14:00	8.481	1.388	11.041	1.065	9.176	0.532						
7/23/2015 15:00	8.481	1.388	11.041	1.065	9.176	0.542						
7/23/2015 16:00	8.481	1.389	11.041	1.067	9.176	0.556						
7/23/2015 17:00	8.481	1.387	11.041	1.066	9.176	0.563						
7/23/2015 18:00	8.481	1.391	11.041	1.067	9.176	0.576						
7/23/2015 19:00	8.481	1.391	11.041	1.067	9.176	0.587						
7/23/2015 20:00	8.481	1.389	11.041	1.064	9.176	0.595						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/23/2015 21:00	8.481	1.389	11.041	1.063	9.176	0.605						
7/23/2015 22:00	8.481	1.388	11.041	1.062	9.176	0.615						
7/23/2015 23:00	8.481	1.386	11.041	1.06	9.176	0.62						
7/24/2015 0:00	8.481	1.389	11.041	1.059	9.176	0.631						
7/24/2015 1:00	8.481	1.387	11.041	1.06	9.176	0.639						
7/24/2015 2:00	8.481	1.389	11.041	1.06	9.176	0.649						
7/24/2015 3:00	8.481	1.387	11.041	1.058	9.176	0.655						
7/24/2015 4:00	8.481	1.388	11.041	1.058	9.176	0.664						
7/24/2015 5:00	8.481	1.389	11.041	1.058	9.176	0.671						
7/24/2015 6:00	8.481	1.391	11.041	1.056	9.176	0.68						
7/24/2015 7:00	8.481	1.389	11.041	1.057	9.176	0.688						
7/24/2015 8:00	8.481	1.388	11.041	1.054	9.176	0.695						
7/24/2015 9:00	8.481	1.387	11.041	1.052	9.176	0.7						
7/24/2015 10:00	8.481	1.387	11.041	1.053	9.176	0.709						
7/24/2015 11:00	8.481	1.389	11.041	1.053	9.176	0.716						
7/24/2015 12:00	8.481	1.389	11.139	1.056	9.176	0.723						
7/24/2015 13:00	8.481	1.393	11.139	1.059	9.176	0.733						
7/24/2015 14:00	8.481	1.392	11.139	1.057	9.176	0.742						
7/24/2015 15:00	8.481	1.391	11.139	1.054	9.176	0.746						
7/24/2015 16:00	8.481	1.393	11.139	1.055	9.176	0.757						
7/24/2015 17:00	8.481	1.391	11.139	1.055	9.176	0.762						
7/24/2015 18:00	8.481	1.394	11.139	1.057	9.176	0.772						
7/24/2015 19:00	8.481	1.393	11.139	1.057	9.176	0.776						
7/24/2015 20:00	8.481	1.392	11.139	1.056	9.176	0.782						
7/24/2015 21:00	8.481	1.396	11.139	1.061	9.176	0.792						
7/24/2015 22:00	8.481	1.396	11.139	1.059	9.176	0.798						
7/24/2015 23:00	8.481	1.399	11.139	1.062	9.176	0.807						
7/25/2015 0:00	8.481	1.4	11.139	1.061	9.176	0.81						
7/25/2015 1:00	8.481	1.398	11.139	1.061	9.176	0.817						
7/25/2015 2:00	8.481	1.4	11.139	1.061	9.176	0.823						
7/25/2015 3:00	8.481	1.399	11.139	1.062	9.176	0.83						
7/25/2015 4:00	8.481	1.402	11.139	1.062	9.176	0.837						
7/25/2015 5:00	8.481	1.401	11.139	1.06	9.176	0.842						
7/25/2015 6:00	8.481	1.399	11.139	1.061	9.176	0.844						
7/25/2015 7:00	8.481	1.4	11.139	1.059	9.176	0.852						
7/25/2015 8:00	8.481	1.404	11.139	1.061	9.176	0.857						
7/25/2015 9:00	8.581	1.405	11.139	1.063	9.176	0.864						
7/25/2015 10:00	8.581	1.405	11.139	1.06	9.176	0.869						
7/25/2015 11:00	8.581	1.402	11.139	1.06	9.176	0.873						
7/25/2015 12:00	8.581	1.404	11.139	1.06	9.176	0.879						
7/25/2015 13:00	8.581	1.403	11.139	1.059	9.176	0.884						
7/25/2015 14:00	8.581	1.403	11.139	1.059	9.176	0.889						
7/25/2015 15:00	8.581	1.405	11.139	1.058	9.176	0.896						
7/25/2015 16:00	8.581	1.403	11.139	1.056	9.176	0.898						
7/25/2015 17:00	8.581	1.403	11.139	1.055	9.176	0.903						
7/25/2015 18:00	8.581	1.408	11.236	1.061	9.176	0.911						
7/25/2015 19:00	8.581	1.409	11.236	1.06	9.275	0.917						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/25/2015 20:00	8.581	1.404	11.236	1.057	9.275	0.918						
7/25/2015 21:00	8.581	1.408	11.236	1.059	9.275	0.924						
7/25/2015 22:00	8.581	1.407	11.236	1.057	9.275	0.928						
7/25/2015 23:00	8.581	1.409	11.236	1.059	9.275	0.934						
7/26/2015 0:00	8.581	1.41	11.236	1.058	9.275	0.939						
7/26/2015 1:00	8.581	1.408	11.236	1.058	9.275	0.945						
7/26/2015 2:00	8.581	1.406	11.236	1.056	9.275	0.947						
7/26/2015 3:00	8.581	1.41	11.236	1.056	9.275	0.953						
7/26/2015 4:00	8.581	1.41	11.236	1.056	9.275	0.955						
7/26/2015 5:00	8.581	1.411	11.236	1.056	9.275	0.962						
7/26/2015 6:00	8.581	1.412	11.236	1.057	9.275	0.966						
7/26/2015 7:00	8.581	1.409	11.236	1.054	9.275	0.97						
7/26/2015 8:00	8.581	1.408	11.236	1.053	9.275	0.973						
7/26/2015 9:00	8.581	1.409	11.236	1.054	9.275	0.976						
7/26/2015 10:00	8.581	1.409	11.236	1.053	9.275	0.98						
7/26/2015 11:00	8.581	1.411	11.236	1.056	9.275	0.986						
7/26/2015 12:00	8.581	1.41	11.236	1.052	9.275	0.985						
7/26/2015 13:00	8.581	1.409	11.236	1.053	9.275	0.99						
7/26/2015 14:00	8.581	1.41	11.236	1.053	9.275	0.993						
7/26/2015 15:00	8.581	1.41	11.236	1.054	9.275	0.997						
7/26/2015 16:00	8.581	1.414	11.236	1.056	9.275	1.003						
7/26/2015 17:00	8.581	1.412	11.236	1.054	9.275	1.006						
7/26/2015 18:00	8.581	1.411	11.236	1.052	9.275	1.009						
7/26/2015 19:00	8.581	1.411	11.236	1.055	9.275	1.013						
7/26/2015 20:00	8.581	1.414	11.236	1.056	9.275	1.015						
7/26/2015 21:00	8.581	1.412	11.236	1.051	9.275	1.018						
7/26/2015 22:00	8.581	1.41	11.236	1.052	9.275	1.019						
7/26/2015 23:00	8.581	1.412	11.236	1.051	9.275	1.023						
7/27/2015 0:00	8.581	1.411	11.236	1.053	9.275	1.028						
7/27/2015 1:00	8.581	1.414	11.334	1.055	9.275	1.033						
7/27/2015 2:00	8.581	1.412	11.334	1.051	9.275	1.034						
7/27/2015 3:00	8.581	1.418	11.334	1.056	9.275	1.038						
7/27/2015 4:00	8.581	1.417	11.334	1.055	9.275	1.04						
7/27/2015 5:00	8.581	1.416	11.334	1.055	9.275	1.046						
7/27/2015 6:00	8.581	1.416	11.334	1.057	9.275	1.05						
7/27/2015 7:00	8.581	1.418	11.334	1.056	9.275	1.05						
7/27/2015 8:00	8.68	1.416	11.334	1.056	9.275	1.053						
7/27/2015 9:00	8.68	1.42	11.334	1.056	9.275	1.056						
7/27/2015 10:00	8.68	1.419	11.334	1.056	9.275	1.062						
7/27/2015 11:00	8.68	1.419	11.334	1.055	9.275	1.061						
7/27/2015 12:00	8.68	1.42	11.334	1.055	9.275	1.067						
7/27/2015 13:00	8.68	1.421	11.334	1.056	9.275	1.067						
7/27/2015 14:00	8.68	1.421	11.334	1.056	9.275	1.071						
7/27/2015 15:00	8.68	1.419	11.334	1.052	9.275	1.072						
7/27/2015 16:00	8.68	1.421	11.334	1.056	9.275	1.076						
7/27/2015 17:00	8.68	1.422	11.334	1.053	9.275	1.077						
7/27/2015 18:00	8.68	1.421	11.334	1.053	9.275	1.078						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/27/2015 19:00	8.68	1.425	11.334	1.06	9.275	1.088						
7/27/2015 20:00	8.68	1.426	11.334	1.057	9.373	1.089						
7/27/2015 21:00	8.68	1.426	11.334	1.058	9.373	1.093						
7/27/2015 22:00	8.68	1.426	11.334	1.057	9.373	1.097						
7/27/2015 23:00	8.68	1.426	11.334	1.057	9.373	1.1						
7/28/2015 0:00	8.68	1.427	11.334	1.057	9.373	1.101						
7/28/2015 1:00	8.68	1.427	11.334	1.057	9.373	1.103						
7/28/2015 2:00	8.68	1.425	11.334	1.056	9.373	1.104						
7/28/2015 3:00	8.68	1.427	11.334	1.056	9.373	1.106						
7/28/2015 4:00	8.68	1.428	11.334	1.057	9.373	1.11						
7/28/2015 5:00	8.68	1.428	11.334	1.057	9.373	1.112						
7/28/2015 6:00	8.68	1.427	11.334	1.054	9.373	1.113						
7/28/2015 7:00	8.68	1.432	11.334	1.057	9.373	1.117						
7/28/2015 8:00	8.68	1.424	11.334	1.055	9.373	1.114						
7/28/2015 9:00	8.68	1.429	11.334	1.057	9.373	1.118						
7/28/2015 10:00	8.68	1.428	11.334	1.056	9.373	1.121						
7/28/2015 11:00	8.68	1.431	11.334	1.058	9.373	1.124						
7/28/2015 12:00	8.68	1.429	11.334	1.055	9.373	1.124						
7/28/2015 13:00	8.68	1.43	11.334	1.055	9.373	1.127						
7/28/2015 14:00	8.68	1.431	11.334	1.057	9.373	1.129						
7/28/2015 15:00	8.68	1.43	11.334	1.058	9.373	1.131						
7/28/2015 16:00	8.68	1.432	11.334	1.065	9.373	1.136						
7/28/2015 17:00	8.68	1.432	11.334	1.059	9.373	1.137						
7/28/2015 18:00	8.68	1.433	11.334	1.059	9.373	1.139						
7/28/2015 19:00	8.68	1.436	11.334	1.062	9.373	1.142						
7/28/2015 20:00	8.68	1.436	11.334	1.064	9.373	1.146						
7/28/2015 21:00	8.68	1.43	11.334	1.058	9.373	1.145						
7/28/2015 22:00	8.68	1.433	11.334	1.058	9.373	1.146						
7/28/2015 23:00	8.68	1.432	11.334	1.055	9.373	1.148						
7/29/2015 0:00	8.68	1.434	11.334	1.059	9.373	1.152						
7/29/2015 1:00	8.68	1.433	11.334	1.055	9.373	1.152						
7/29/2015 2:00	8.68	1.432	11.334	1.056	9.373	1.155						
7/29/2015 3:00	8.68	1.434	11.334	1.057	9.373	1.155						
7/29/2015 4:00	8.68	1.435	11.334	1.063	9.373	1.161						
7/29/2015 5:00	8.68	1.439	11.334	1.063	9.373	1.167						
7/29/2015 6:00	8.68	1.439	11.334	1.058	9.373	1.164						
7/29/2015 7:00	8.779	1.438	11.334	1.056	9.373	1.166						
7/29/2015 8:00	8.68	1.441	11.334	1.061	9.373	1.17						
7/29/2015 9:00	8.779	1.437	11.334	1.058	9.373	1.169						
7/29/2015 10:00	8.779	1.442	11.334	1.062	9.373	1.175						
7/29/2015 11:00	8.779	1.439	11.334	1.058	9.373	1.176						
7/29/2015 12:00	8.779	1.444	11.334	1.064	9.373	1.18						
7/29/2015 13:00	8.779	1.444	11.334	1.065	9.373	1.179						
7/29/2015 14:00	8.779	1.443	11.334	1.066	9.373	1.181						
7/29/2015 15:00	8.779	1.445	11.334	1.062	9.373	1.184						
7/29/2015 16:00	8.779	1.443	11.334	1.06	9.373	1.185						
7/29/2015 17:00	8.779	1.444	11.334	1.062	9.373	1.186						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/29/2015 18:00	8.779	1.446	11.334	1.069	9.472	1.187						
7/29/2015 19:00	8.779	1.444	11.431	1.071	9.373	1.19						
7/29/2015 20:00	8.779	1.448	11.431	1.071	9.373	1.191						
7/29/2015 21:00	8.779	1.446	11.431	1.068	9.373	1.192						
7/29/2015 22:00	8.779	1.446	11.431	1.067	9.472	1.195						
7/29/2015 23:00	8.779	1.446	11.431	1.064	9.472	1.195						
7/30/2015 0:00	8.779	1.451	11.431	1.067	9.472	1.2						
7/30/2015 1:00	8.779	1.449	11.431	1.068	9.472	1.202						
7/30/2015 2:00	8.779	1.449	11.431	1.067	9.472	1.201						
7/30/2015 3:00	8.779	1.449	11.431	1.067	9.472	1.204						
7/30/2015 4:00	8.779	1.448	11.431	1.066	9.472	1.204						
7/30/2015 5:00	8.779	1.446	11.431	1.066	9.472	1.204						
7/30/2015 6:00	8.779	1.447	11.431	1.065	9.472	1.207						
7/30/2015 7:00	8.779	1.445	11.431	1.06	9.472	1.205						
7/30/2015 8:00	8.779	1.446	11.431	1.064	9.472	1.208						
7/30/2015 9:00	8.779	1.447	11.431	1.063	9.472	1.209						
7/30/2015 10:00	8.779	1.446	11.431	1.063	9.472	1.209						
7/30/2015 11:00	8.779	1.445	11.431	1.068	9.472	1.212						
7/30/2015 12:00	8.779	1.447	11.431	1.068	9.472	1.212						
7/30/2015 13:00	8.779	1.446	11.431	1.062	9.472	1.21						
7/30/2015 14:00	8.779	1.447	11.431	1.07	9.472	1.214						
7/30/2015 15:00	8.779	1.446	11.431	1.065	9.472	1.211						
7/30/2015 16:00	8.779	1.447	11.431	1.069	9.472	1.215						
7/30/2015 17:00	8.779	1.449	11.431	1.075	9.472	1.219						
7/30/2015 18:00	8.779	1.446	11.431	1.069	9.472	1.216						
7/30/2015 19:00	8.779	1.444	11.431	1.068	9.472	1.215						
7/30/2015 20:00	8.779	1.447	11.431	1.062	9.472	1.217						
7/30/2015 21:00	8.779	1.444	11.431	1.06	9.472	1.218						
7/30/2015 22:00	8.779	1.445	11.431	1.061	9.472	1.219						
7/30/2015 23:00	8.779	1.445	11.431	1.062	9.472	1.218						
7/31/2015 0:00	8.779	1.445	11.431	1.063	9.472	1.22						
7/31/2015 1:00	8.779	1.446	11.431	1.063	9.472	1.221						
7/31/2015 2:00	8.779	1.443	11.431	1.063	9.472	1.22						
7/31/2015 3:00	8.779	1.441	11.431	1.059	9.472	1.219						
7/31/2015 4:00	8.779	1.441	11.431	1.06	9.472	1.218						
7/31/2015 5:00	8.779	1.442	11.431	1.059	9.472	1.221						
7/31/2015 6:00	8.779	1.438	11.528	1.058	9.472	1.219						
7/31/2015 7:00	8.779	1.439	11.528	1.058	9.472	1.218						
7/31/2015 8:00	8.779	1.438	11.528	1.055	9.472	1.219						
7/31/2015 9:00	8.779	1.44	11.528	1.058	9.472	1.221						
7/31/2015 10:00	8.779	1.442	11.528	1.061	9.472	1.224						
7/31/2015 11:00	8.779	1.442	11.528	1.058	9.472	1.222						
7/31/2015 12:00	8.879	1.443	11.528	1.057	9.472	1.225						
7/31/2015 13:00	8.879	1.443	11.528	1.059	9.472	1.225						
7/31/2015 14:00	8.879	1.441	11.528	1.058	9.472	1.225						
7/31/2015 15:00	8.879	1.442	11.528	1.059	9.472	1.229						
7/31/2015 16:00	8.879	1.441	11.528	1.056	9.472	1.228						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
7/31/2015 17:00	8.879	1.444	11.528	1.061	9.472	1.228						
7/31/2015 18:00	8.879	1.44	11.528	1.063	9.472	1.228						
7/31/2015 19:00	8.879	1.441	11.528	1.064	9.472	1.231						
7/31/2015 20:00	8.879	1.441	11.528	1.065	9.472	1.231						
7/31/2015 21:00	8.879	1.439	11.528	1.062	9.472	1.23						
7/31/2015 22:00	8.879	1.438	11.528	1.059	9.472	1.227						
7/31/2015 23:00	8.879	1.44	11.528	1.059	9.472	1.229						
8/1/2015 0:00	8.879	1.437	11.528	1.054	9.472	1.227						
8/1/2015 1:00	8.879	1.436	11.528	1.055	9.472	1.227						
8/1/2015 2:00	8.879	1.436	11.528	1.054	9.472	1.226						
8/1/2015 3:00	8.879	1.439	11.528	1.061	9.571	1.23						
8/1/2015 4:00	8.879	1.436	11.528	1.058	9.472	1.229						
8/1/2015 5:00	8.879	1.438	11.528	1.058	9.571	1.229						
8/1/2015 6:00	8.879	1.435	11.528	1.055	9.571	1.228						
8/1/2015 7:00	8.879	1.438	11.528	1.05	9.571	1.232						
8/1/2015 8:00	8.879	1.436	11.625	1.05	9.571	1.228						
8/1/2015 9:00	8.879	1.436	11.625	1.049	9.571	1.227						
8/1/2015 10:00	8.879	1.436	11.625	1.05	9.571	1.23						
8/1/2015 11:00	8.879	1.436	11.625	1.049	9.571	1.229						
8/1/2015 12:00	8.879	1.438	11.625	1.065	9.571	1.235						
8/1/2015 13:00	8.879	1.436	11.625	1.053	9.571	1.229						
8/1/2015 14:00	8.879	1.435	11.625	1.055	9.571	1.23						
8/1/2015 15:00	8.879	1.435	11.625	1.049	9.571	1.229						
8/1/2015 16:00	8.879	1.428	11.625	1.046	9.571	1.226						
8/1/2015 17:00	8.879	1.434	11.625	1.055	9.571	1.23						
8/1/2015 18:00	8.879	1.434	11.625	1.054	9.571	1.23						
8/1/2015 19:00	8.879	1.432	11.625	1.058	9.571	1.229						
8/1/2015 20:00	8.879	1.431	11.625	1.055	9.571	1.228						
8/1/2015 21:00	8.879	1.429	11.625	1.053	9.571	1.225						
8/1/2015 22:00	8.879	1.429	11.625	1.051	9.571	1.226						
8/1/2015 23:00	8.879	1.43	11.625	1.049	9.571	1.227						
8/2/2015 0:00	8.879	1.427	11.625	1.047	9.571	1.225						
8/2/2015 1:00	8.879	1.429	11.625	1.05	9.571	1.228						
8/2/2015 2:00	8.879	1.427	11.625	1.054	9.571	1.228						
8/2/2015 3:00	8.879	1.428	11.625	1.048	9.571	1.225						
8/2/2015 4:00	8.879	1.429	11.625	1.048	9.571	1.228						
8/2/2015 5:00	8.879	1.425	11.625	1.046	9.571	1.223						
8/2/2015 6:00	8.879	1.426	11.625	1.045	9.571	1.224						
8/2/2015 7:00	8.879	1.424	11.722	1.047	9.571	1.227						
8/2/2015 8:00	8.879	1.425	11.722	1.052	9.571	1.223						
8/2/2015 9:00	8.879	1.425	11.722	1.042	9.571	1.226						
8/2/2015 10:00	8.879	1.422	11.722	1.04	9.571	1.223						
8/2/2015 11:00	8.879	1.422	11.722	1.039	9.571	1.222						
8/2/2015 12:00	8.879	1.423	11.722	1.042	9.571	1.222						
8/2/2015 13:00	8.879	1.423	11.722	1.042	9.571	1.225						
8/2/2015 14:00	8.879	1.423	11.722	1.05	9.571	1.225						
8/2/2015 15:00	8.879	1.425	11.722	1.046	9.571	1.225						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/2/2015 16:00	8.879	1.423	11.722	1.048	9.571	1.226						
8/2/2015 17:00	8.879	1.427	11.722	1.048	9.571	1.223						
8/2/2015 18:00	8.879	1.422	11.722	1.05	9.571	1.222						
8/2/2015 19:00	8.978	1.424	11.722	1.051	9.571	1.225						
8/2/2015 20:00	8.978	1.423	11.722	1.046	9.571	1.224						
8/2/2015 21:00	8.978	1.421	11.722	1.046	9.571	1.222						
8/2/2015 22:00	8.978	1.422	11.722	1.045	9.571	1.222						
8/2/2015 23:00	8.978	1.421	11.722	1.04	9.571	1.22						
8/3/2015 0:00	8.978	1.418	11.722	1.04	9.571	1.219						
8/3/2015 1:00	8.978	1.418	11.722	1.045	9.571	1.219						
8/3/2015 2:00	8.978	1.418	11.722	1.045	9.571	1.219						
8/3/2015 3:00	8.978	1.417	11.819	1.042	9.571	1.22						
8/3/2015 4:00	8.978	1.418	11.819	1.038	9.571	1.22						
8/3/2015 5:00	8.978	1.416	11.819	1.038	9.571	1.219						
8/3/2015 6:00	8.978	1.416	11.819	1.038	9.571	1.217						
8/3/2015 7:00	8.978	1.414	11.819	1.034	9.571	1.217						
8/3/2015 8:00	8.978	1.412	11.819	1.033	9.571	1.212						
8/3/2015 9:00	8.978	1.413	11.819	1.034	9.571	1.215						
8/3/2015 10:00	8.978	1.412	11.819	1.032	9.571	1.215						
8/3/2015 11:00	8.978	1.414	11.819	1.035	9.571	1.218						
8/3/2015 12:00	8.978	1.414	11.819	1.036	9.669	1.218						
8/3/2015 13:00	8.978	1.414	11.819	1.037	9.669	1.215						
8/3/2015 14:00	8.978	1.416	11.819	1.042	9.669	1.22						
8/3/2015 15:00	8.978	1.413	11.819	1.037	9.669	1.213						
8/3/2015 16:00	8.978	1.414	11.819	1.042	9.669	1.219						
8/3/2015 17:00	8.978	1.417	11.819	1.039	9.669	1.219						
8/3/2015 18:00	8.978	1.416	11.819	1.044	9.669	1.217						
8/3/2015 19:00	8.978	1.415	11.819	1.042	9.669	1.218						
8/3/2015 20:00	8.978	1.416	11.819	1.04	9.669	1.217						
8/3/2015 21:00	8.978	1.414	11.819	1.039	9.669	1.215						
8/3/2015 22:00	8.978	1.412	11.819	1.034	9.669	1.211						
8/3/2015 23:00	8.978	1.41	11.819	1.034	9.669	1.213						
8/4/2015 0:00	8.978	1.405	11.916	1.028	9.669	1.206						
8/4/2015 1:00	8.978	1.406	11.916	1.033	9.669	1.208						
8/4/2015 2:00	8.978	1.407	11.916	1.034	9.669	1.208						
8/4/2015 3:00	8.978	1.405	11.916	1.031	9.669	1.206						
8/4/2015 4:00	8.978	1.41	11.916	1.039	9.669	1.211						
8/4/2015 5:00	8.978	1.409	11.916	1.036	9.669	1.21						
8/4/2015 6:00	8.978	1.406	11.916	1.031	9.669	1.207						
8/4/2015 7:00	8.978	1.408	11.916	1.029	9.669	1.208						
8/4/2015 8:00	8.978	1.405	11.916	1.028	9.669	1.204						
8/4/2015 9:00	8.978	1.405	11.916	1.03	9.669	1.205						
8/4/2015 10:00	8.978	1.405	11.916	1.034	9.669	1.207						
8/4/2015 11:00	8.978	1.406	11.916	1.032	9.669	1.206						
8/4/2015 12:00	8.978	1.402	11.916	1.027	9.669	1.201						
8/4/2015 13:00	8.978	1.406	11.916	1.028	9.669	1.204						
8/4/2015 14:00	8.978	1.401	11.916	1.027	9.669	1.202						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/4/2015 15:00	8.978	1.403	11.916	1.03	9.669	1.203						
8/4/2015 16:00	8.978	1.405	11.916	1.038	9.669	1.205						
8/4/2015 17:00	8.978	1.404	11.916	1.036	9.669	1.203						
8/4/2015 18:00	8.978	1.406	11.916	1.034	9.669	1.205						
8/4/2015 19:00	8.978	1.401	11.916	1.03	9.669	1.202						
8/4/2015 20:00	8.978	1.402	11.916	1.033	9.669	1.201						
8/4/2015 21:00	8.978	1.403	11.916	1.036	9.669	1.203						
8/4/2015 22:00	9.077	1.403	11.916	1.034	9.669	1.2						
8/4/2015 23:00	9.077	1.401	11.916	1.028	9.669	1.2						
8/5/2015 0:00	9.077	1.402	12.013	1.032	9.669	1.202						
8/5/2015 1:00	9.077	1.402	12.013	1.029	9.669	1.199						
8/5/2015 2:00	9.077	1.398	12.013	1.029	9.669	1.199						
8/5/2015 3:00	9.077	1.4	12.013	1.031	9.669	1.2						
8/5/2015 4:00	9.077	1.401	12.013	1.032	9.669	1.203						
8/5/2015 5:00	9.077	1.397	12.013	1.029	9.669	1.198						
8/5/2015 6:00	9.077	1.397	12.013	1.028	9.669	1.198						
8/5/2015 7:00	9.077	1.397	12.013	1.024	9.669	1.197						
8/5/2015 8:00	9.077	1.395	12.013	1.019	9.669	1.195						
8/5/2015 9:00	9.077	1.395	12.013	1.02	9.669	1.194						
8/5/2015 10:00	9.077	1.394	12.013	1.017	9.669	1.194						
8/5/2015 11:00	9.077	1.395	12.013	1.024	9.669	1.192						
8/5/2015 12:00	9.077	1.396	12.013	1.024	9.669	1.192						
8/5/2015 13:00	9.077	1.394	12.013	1.018	9.768	1.193						
8/5/2015 14:00	9.077	1.396	12.013	1.026	9.768	1.193						
8/5/2015 15:00	9.077	1.399	12.013	1.024	9.768	1.194						
8/5/2015 16:00	9.077	1.393	12.013	1.021	9.768	1.191						
8/5/2015 17:00	9.077	1.395	12.013	1.023	9.768	1.193						
8/5/2015 18:00	9.077	1.394	12.013	1.034	9.768	1.195						
8/5/2015 19:00	9.077	1.393	12.013	1.025	9.768	1.19						
8/5/2015 20:00	9.077	1.395	12.013	1.029	9.768	1.191						
8/5/2015 21:00	9.077	1.394	12.013	1.023	9.768	1.189						
8/5/2015 22:00	9.077	1.392	12.11	1.021	9.768	1.187						
8/5/2015 23:00	9.077	1.391	12.11	1.022	9.768	1.186						
8/6/2015 0:00	9.077	1.389	12.11	1.022	9.768	1.186						
8/6/2015 1:00	9.077	1.39	12.11	1.022	9.768	1.187						
8/6/2015 2:00	9.077	1.389	12.11	1.021	9.768	1.185						
8/6/2015 3:00	9.077	1.39	12.11	1.024	9.768	1.187						
8/6/2015 4:00	9.077	1.391	12.11	1.022	9.768	1.185						
8/6/2015 5:00	9.077	1.389	12.11	1.02	9.768	1.184						
8/6/2015 6:00	9.077	1.388	12.11	1.019	9.768	1.181						
8/6/2015 7:00	9.077	1.387	12.11	1.016	9.768	1.18						
8/6/2015 8:00	9.077	1.386	12.11	1.014	9.768	1.179						
8/6/2015 9:00	9.077	1.387	12.11	1.019	9.768	1.182						
8/6/2015 10:00	9.077	1.387	12.11	1.015	9.768	1.179						
8/6/2015 11:00	9.077	1.387	12.11	1.012	9.768	1.178						
8/6/2015 12:00	9.077	1.39	12.11	1.027	9.768	1.181						
8/6/2015 13:00	9.077	1.386	12.11	1.01	9.768	1.18						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/6/2015 14:00	9.077	1.385	12.11	1.015	9.768	1.178						
8/6/2015 15:00	9.077	1.387	12.11	1.023	9.768	1.182						
8/6/2015 16:00	9.077	1.384	12.11	1.02	9.768	1.177						
8/6/2015 17:00	9.077	1.386	12.11	1.019	9.768	1.179						
8/6/2015 18:00	9.077	1.385	12.11	1.016	9.768	1.178						
8/6/2015 19:00	9.077	1.385	12.11	1.017	9.768	1.177						
8/6/2015 20:00	9.077	1.387	12.11	1.022	9.768	1.178						
8/6/2015 21:00	9.176	1.387	12.11	1.02	9.768	1.176						
8/6/2015 22:00	9.176	1.385	12.11	1.016	9.768	1.176						
8/6/2015 23:00	9.176	1.386	12.207	1.016	9.768	1.174						
8/7/2015 0:00	9.176	1.385	12.207	1.014	9.768	1.173						
8/7/2015 1:00	9.176	1.383	12.207	1.017	9.768	1.174						
8/7/2015 2:00	9.176	1.384	12.207	1.017	9.768	1.174						
8/7/2015 3:00	9.176	1.384	12.207	1.016	9.768	1.172						
8/7/2015 4:00	9.176	1.383	12.207	1.018	9.768	1.172						
8/7/2015 5:00	9.176	1.383	12.207	1.016	9.768	1.173						
8/7/2015 6:00	9.176	1.38	12.207	1.014	9.768	1.168						
8/7/2015 7:00	9.176	1.383	12.207	1.011	9.768	1.171						
8/7/2015 8:00	9.176	1.382	12.207	1.012	9.768	1.169						
8/7/2015 9:00	9.176	1.383	12.207	1.012	9.768	1.168						
8/7/2015 10:00	9.176	1.383	12.207	1.011	9.768	1.168						
8/7/2015 11:00	9.176	1.384	12.207	1.01	9.768	1.169						
8/7/2015 12:00	9.176	1.383	12.207	1.009	9.768	1.167						
8/7/2015 13:00	9.176	1.384	12.207	1.012	9.768	1.168						
8/7/2015 14:00	9.176	1.382	12.207	1.007	9.768	1.167						
8/7/2015 15:00	9.176	1.382	12.207	1.012	9.866	1.168						
8/7/2015 16:00	9.176	1.382	12.207	1.012	9.866	1.166						
8/7/2015 17:00	9.176	1.387	12.207	1.019	9.866	1.17						
8/7/2015 18:00	9.176	1.382	12.207	1.017	9.866	1.168						
8/7/2015 19:00	9.176	1.384	12.207	1.02	9.866	1.169						
8/7/2015 20:00	9.176	1.383	12.207	1.02	9.866	1.166						
8/7/2015 21:00	9.176	1.382	12.207	1.017	9.866	1.165						
8/7/2015 22:00	9.176	1.382	12.207	1.015	9.866	1.164						
8/7/2015 23:00	9.176	1.383	12.207	1.016	9.866	1.165						
8/8/2015 0:00	9.176	1.382	12.207	1.017	9.866	1.164						
8/8/2015 1:00	9.176	1.384	12.207	1.017	9.866	1.168						
8/8/2015 2:00	9.176	1.384	12.207	1.017	9.866	1.164						
8/8/2015 3:00	9.176	1.382	12.207	1.016	9.866	1.166						
8/8/2015 4:00	9.176	1.382	12.207	1.016	9.866	1.163						
8/8/2015 5:00	9.176	1.383	12.207	1.016	9.866	1.166						
8/8/2015 6:00	9.176	1.382	12.207	1.014	9.866	1.163						
8/8/2015 7:00	9.176	1.381	12.207	1.011	9.866	1.164						
8/8/2015 8:00	9.176	1.38	12.304	1.009	9.866	1.159						
8/8/2015 9:00	9.176	1.377	12.207	1.006	9.866	1.157						
8/8/2015 10:00	9.176	1.377	12.304	1.005	9.866	1.158						
8/8/2015 11:00	9.176	1.377	12.304	1.005	9.866	1.156						
8/8/2015 12:00	9.176	1.377	12.304	1.008	9.866	1.156						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/8/2015 13:00	9.176	1.375	12.304	1.007	9.866	1.153						
8/8/2015 14:00	9.176	1.376	12.304	1.005	9.866	1.153						
8/8/2015 15:00	9.176	1.376	12.304	1.008	9.866	1.155						
8/8/2015 16:00	9.176	1.376	12.304	1.006	9.866	1.152						
8/8/2015 17:00	9.176	1.377	12.304	1.012	9.866	1.155						
8/8/2015 18:00	9.176	1.374	12.304	1.011	9.866	1.152						
8/8/2015 19:00	9.176	1.374	12.304	1.014	9.866	1.151						
8/8/2015 20:00	9.176	1.379	12.304	1.017	9.866	1.154						
8/8/2015 21:00	9.176	1.377	12.304	1.013	9.866	1.153						
8/8/2015 22:00	9.176	1.377	12.304	1.01	9.866	1.153						
8/8/2015 23:00	9.176	1.378	12.304	1.011	9.866	1.152						
8/9/2015 0:00	9.275	1.378	12.304	1.01	9.866	1.151						
8/9/2015 1:00	9.275	1.375	12.304	1.008	9.866	1.15						
8/9/2015 2:00	9.275	1.378	12.304	1.01	9.866	1.151						
8/9/2015 3:00	9.275	1.378	12.304	1.009	9.866	1.15						
8/9/2015 4:00	9.275	1.377	12.304	1.01	9.866	1.151						
8/9/2015 5:00	9.275	1.38	12.304	1.011	9.866	1.152						
8/9/2015 6:00	9.275	1.378	12.304	1.009	9.866	1.149						
8/9/2015 7:00	9.275	1.376	12.304	1.007	9.866	1.149						
8/9/2015 8:00	9.275	1.374	12.304	1.006	9.866	1.144						
8/9/2015 9:00	9.275	1.374	12.304	1.007	9.866	1.145						
8/9/2015 10:00	9.275	1.369	12.304	1.001	9.965	1.14						
8/9/2015 11:00	9.275	1.371	12.304	1.003	9.965	1.141						
8/9/2015 12:00	9.275	1.371	12.304	1.002	9.965	1.14						
8/9/2015 13:00	9.275	1.371	12.304	1.004	9.965	1.139						
8/9/2015 14:00	9.275	1.371	12.304	1.004	9.965	1.139						
8/9/2015 15:00	9.275	1.369	12.304	1.004	9.965	1.136						
8/9/2015 16:00	9.275	1.372	12.304	0.999	9.965	1.142						
8/9/2015 17:00	9.275	1.37	12.304	1.004	9.965	1.138						
8/9/2015 18:00	9.275	1.373	12.304	1.006	9.965	1.138						
8/9/2015 19:00	9.275	1.373	12.304	1.004	9.965	1.137						
8/9/2015 20:00	9.275	1.371	12.304	1.004	9.965	1.139						
8/9/2015 21:00	9.275	1.371	12.304	1.006	9.965	1.137						
8/9/2015 22:00	9.275	1.372	12.304	1.003	9.965	1.135						
8/9/2015 23:00	9.275	1.371	12.304	1.004	9.965	1.136						
8/10/2015 0:00	9.275	1.374	12.304	1.004	9.965	1.136						
8/10/2015 1:00	9.275	1.373	12.304	1.004	9.965	1.137						
8/10/2015 2:00	9.275	1.371	12.304	1.001	9.965	1.132						
8/10/2015 3:00	9.275	1.368	12.304	0.999	9.965	1.133						
8/10/2015 4:00	9.275	1.371	12.304	1.002	9.965	1.132						
8/10/2015 5:00	9.275	1.37	12.304	1.003	9.965	1.133						
8/10/2015 6:00	9.275	1.37	12.304	1.001	9.965	1.131						
8/10/2015 7:00	9.275	1.368	12.304	0.998	9.965	1.13						
8/10/2015 8:00	9.275	1.366	12.304	0.997	9.965	1.128						
8/10/2015 9:00	9.275	1.364	12.304	0.995	9.965	1.127						
8/10/2015 10:00	9.275	1.363	12.304	0.995	9.965	1.124						
8/10/2015 11:00	9.275	1.366	12.304	0.999	9.965	1.125						

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/10/2015 12:00	9.275	1.365	12.304	0.994	9.965	1.122						
8/10/2015 13:00	9.275	1.366	12.304	0.995	9.965	1.125						
8/10/2015 14:00	9.275	1.363	12.304	0.995	9.965	1.12						
8/10/2015 15:00	9.275	1.364	12.304	0.993	9.965	1.121						
8/10/2015 16:00	9.275	1.364	12.304	0.996	9.965	1.122						
8/10/2015 17:00	9.275	1.366	12.304	0.998	9.965	1.121						
8/10/2015 18:00	9.275	1.365	12.304	0.998	9.965	1.119						
8/10/2015 19:00	9.275	1.363	12.304	0.996	9.965	1.118						
8/10/2015 20:00	9.275	1.361	12.304	0.993	9.965	1.115						
8/10/2015 21:00	9.275	1.361	12.304	0.99	9.965	1.113						
8/10/2015 22:00	9.275	1.364	12.304	0.994	9.965	1.116						
8/10/2015 23:00	9.275	1.362	12.304	0.992	9.965	1.114						
8/11/2015 0:00	9.275	1.366	12.304	0.993	9.965	1.117	10.063	0.889	10.553	1.29	10.259	0.681
8/11/2015 1:00	9.275	1.363	12.304	0.993	9.965	1.114	10.063	0.884	10.553	1.291	10.259	0.697
8/11/2015 2:00	9.275	1.366	12.304	0.996	9.965	1.118	10.063	0.888	10.553	1.3	10.259	0.723
8/11/2015 3:00	9.275	1.368	12.304	0.997	9.965	1.119	10.063	0.886	10.553	1.3	10.259	0.742
8/11/2015 4:00	9.275	1.369	12.304	0.996	9.965	1.118	10.063	0.886	10.553	1.3	10.259	0.759
8/11/2015 5:00	9.373	1.366	12.304	0.994	9.965	1.115	10.063	0.881	10.553	1.298	10.259	0.774
8/11/2015 6:00	9.373	1.364	12.304	0.996	9.965	1.115	10.063	0.882	10.553	1.303	10.259	0.79
8/11/2015 7:00	9.373	1.363	12.304	0.992	9.965	1.111	10.063	0.879	10.553	1.301	10.259	0.8
8/11/2015 8:00	9.373	1.362	12.304	0.991	9.965	1.111	10.063	0.878	10.553	1.302	10.259	0.813
8/11/2015 9:00	9.373	1.366	12.304	0.995	9.965	1.114	10.063	0.88	10.553	1.309	10.259	0.83
8/11/2015 10:00	9.373	1.367	12.304	0.996	9.965	1.114	10.063	0.88	10.553	1.308	10.259	0.842
8/11/2015 11:00	9.373	1.364	12.304	0.995	9.965	1.113	10.063	0.88	10.553	1.308	10.259	0.852
8/11/2015 12:00	9.373	1.367	12.304	0.997	10.063	1.114	10.063	0.881	10.553	1.312	10.259	0.865
8/11/2015 13:00	9.373	1.366	12.304	0.999	10.063	1.115	10.063	0.881	10.553	1.311	10.259	0.874
8/11/2015 14:00	9.373	1.367	12.304	1	10.063	1.114	10.063	0.881	10.553	1.315	10.259	0.887
8/11/2015 15:00	9.373	1.365	12.304	0.997	10.063	1.113	10.063	0.88	10.553	1.312	10.259	0.894
8/11/2015 16:00	9.373	1.367	12.304	0.998	10.063	1.112	10.063	0.88	10.553	1.313	10.259	0.905
8/11/2015 17:00	9.373	1.364	12.304	0.996	10.063	1.11	10.063	0.879	10.553	1.314	10.259	0.911
8/11/2015 18:00	9.373	1.367	12.304	0.999	10.063	1.109	10.063	0.878	10.553	1.317	10.259	0.92
8/11/2015 19:00	9.373	1.37	12.401	0.999	10.063	1.11	10.063	0.879	10.553	1.317	10.259	0.928
8/11/2015 20:00	9.373	1.369	12.401	1	10.063	1.109	10.063	0.879	10.553	1.318	10.259	0.934
8/11/2015 21:00	9.373	1.365	12.401	1.003	10.063	1.115	10.063	0.894	10.553	1.329	10.259	0.944
8/11/2015 22:00	9.373	1.368	12.401	1.005	10.063	1.115	10.063	0.921	10.553	1.326	10.259	0.954
8/11/2015 23:00	9.373	1.371	12.401	1.007	10.063	1.119	10.063	0.954	10.553	1.331	10.259	0.965
8/12/2015 0:00	9.373	1.369	12.401	1.006	10.063	1.119	10.063	0.979	10.553	1.332	10.259	0.974
8/12/2015 1:00	9.373	1.379	12.401	1.011	10.063	1.123	10.063	1.003	10.553	1.338	10.259	0.985
8/12/2015 2:00	9.373	1.371	12.401	1.007	10.063	1.115	10.063	1.024	10.553	1.338	10.259	0.99
8/12/2015 3:00	9.373	1.371	12.401	1.006	10.063	1.113	10.063	1.043	10.553	1.338	10.259	0.995
8/12/2015 4:00	9.373	1.379	12.401	1.015	10.063	1.122	10.063	1.067	10.553	1.347	10.259	1.009
8/12/2015 5:00	9.373	1.376	12.401	1.011	10.063	1.123	10.063	1.079	10.553	1.346	10.259	1.014
8/12/2015 6:00	9.373	1.379	12.401	1.013	10.063	1.124	10.063	1.092	10.553	1.35	10.259	1.022
8/12/2015 7:00	9.373	1.381	12.401	1.014	10.063	1.13	10.063	1.103	10.553	1.354	10.259	1.031
8/12/2015 8:00	9.373	1.384	12.401	1.015	10.063	1.134	10.063	1.109	10.553	1.354	10.259	1.039
8/12/2015 9:00	9.373	1.383	12.401	1.018	10.063	1.135	10.063	1.116	10.553	1.359	10.259	1.045
8/12/2015 10:00	9.373	1.388	12.401	1.019	10.063	1.139	10.063	1.12	10.553	1.36	10.259	1.052

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/12/2015 11:00	9.373	1.389	12.401	1.018	10.063	1.141	10.063	1.124	10.553	1.361	10.259	1.056
8/12/2015 12:00	9.373	1.39	12.401	1.018	10.063	1.143	10.063	1.127	10.553	1.362	10.259	1.062
8/12/2015 13:00	9.373	1.391	12.401	1.019	10.063	1.148	10.063	1.131	10.553	1.362	10.259	1.069
8/12/2015 14:00	9.373	1.396	12.401	1.025	10.063	1.151	10.063	1.131	10.553	1.367	10.259	1.075
8/12/2015 15:00	9.373	1.395	12.401	1.023	10.063	1.15	10.063	1.132	10.553	1.366	10.259	1.08
8/12/2015 16:00	9.373	1.395	12.401	1.024	10.063	1.154	10.063	1.134	10.553	1.368	10.259	1.085
8/12/2015 17:00	9.373	1.399	12.401	1.031	10.063	1.159	10.063	1.135	10.553	1.373	10.259	1.091
8/12/2015 18:00	9.373	1.403	12.401	1.033	10.063	1.163	10.063	1.138	10.553	1.377	10.259	1.099
8/12/2015 19:00	9.373	1.405	12.401	1.033	10.063	1.167	10.063	1.137	10.553	1.377	10.259	1.103
8/12/2015 20:00	9.373	1.402	12.401	1.031	10.063	1.164	10.063	1.133	10.553	1.376	10.259	1.102
8/12/2015 21:00	9.373	1.406	12.401	1.03	10.063	1.171	10.161	1.135	10.553	1.377	10.259	1.107
8/12/2015 22:00	9.373	1.405	12.401	1.031	10.063	1.173	10.161	1.132	10.553	1.376	10.259	1.111
8/12/2015 23:00	9.373	1.41	12.401	1.037	10.063	1.177	10.161	1.134	10.553	1.381	10.259	1.119
8/13/2015 0:00	9.373	1.406	12.401	1.033	10.063	1.175	10.161	1.129	10.553	1.379	10.357	1.117
8/13/2015 1:00	9.373	1.409	12.401	1.038	10.063	1.179	10.161	1.131	10.553	1.382	10.259	1.123
8/13/2015 2:00	9.373	1.415	12.401	1.04	10.063	1.184	10.161	1.131	10.553	1.386	10.259	1.127
8/13/2015 3:00	9.472	1.413	12.401	1.038	10.063	1.183	10.161	1.129	10.553	1.384	10.357	1.129
8/13/2015 4:00	9.472	1.415	12.401	1.04	10.063	1.189	10.161	1.129	10.553	1.384	10.357	1.134
8/13/2015 5:00	9.472	1.417	12.401	1.041	10.063	1.191	10.161	1.13	10.553	1.386	10.357	1.138
8/13/2015 6:00	9.472	1.417	12.401	1.04	10.063	1.191	10.161	1.128	10.553	1.385	10.357	1.139
8/13/2015 7:00	9.472	1.419	12.401	1.042	10.063	1.194	10.161	1.127	10.651	1.387	10.357	1.144
8/13/2015 8:00	9.472	1.419	12.401	1.043	10.063	1.195	10.161	1.126	10.651	1.388	10.357	1.146
8/13/2015 9:00	9.472	1.417	12.401	1.043	10.063	1.197	10.161	1.126	10.553	1.387	10.357	1.149
8/13/2015 10:00	9.472	1.419	12.401	1.041	10.161	1.197	10.161	1.124	10.651	1.385	10.357	1.15
8/13/2015 11:00	9.472	1.42	12.401	1.04	10.161	1.198	10.161	1.123	10.651	1.387	10.357	1.154
8/13/2015 12:00	9.472	1.421	12.401	1.047	10.161	1.203	10.161	1.121	10.651	1.388	10.357	1.157
8/13/2015 13:00	9.472	1.424	12.401	1.049	10.161	1.206	10.161	1.122	10.651	1.39	10.357	1.161
8/13/2015 14:00	9.472	1.424	12.401	1.045	10.161	1.208	10.161	1.121	10.651	1.389	10.357	1.162
8/13/2015 15:00	9.472	1.423	12.401	1.047	10.161	1.209	10.161	1.119	10.651	1.389	10.357	1.165
8/13/2015 16:00	9.472	1.426	12.401	1.05	10.161	1.211	10.161	1.119	10.651	1.391	10.357	1.165
8/13/2015 17:00	9.472	1.425	12.401	1.05	10.161	1.211	10.161	1.115	10.651	1.387	10.357	1.166
8/13/2015 18:00	9.472	1.429	12.401	1.054	10.161	1.217	10.161	1.116	10.651	1.391	10.357	1.171
8/13/2015 19:00	9.472	1.429	12.401	1.053	10.161	1.216	10.161	1.113	10.651	1.391	10.357	1.173
8/13/2015 20:00	9.472	1.43	12.401	1.054	10.161	1.218	10.161	1.111	10.651	1.391	10.357	1.174
8/13/2015 21:00	9.472	1.431	12.401	1.054	10.161	1.22	10.161	1.11	10.651	1.392	10.357	1.176
8/13/2015 22:00	9.472	1.432	12.401	1.053	10.161	1.221	10.161	1.108	10.651	1.391	10.357	1.178
8/13/2015 23:00	9.472	1.432	12.401	1.055	10.161	1.223	10.161	1.11	10.651	1.392	10.357	1.18
8/14/2015 0:00	9.472	1.433	12.401	1.055	10.161	1.226	10.161	1.107	10.651	1.393	10.357	1.182
8/14/2015 1:00	9.472	1.435	12.401	1.056	10.161	1.224	10.161	1.107	10.651	1.39	10.357	1.183
8/14/2015 2:00	9.472	1.431	12.401	1.053	10.161	1.226	10.161	1.104	10.651	1.391	10.357	1.181
8/14/2015 3:00	9.472	1.435	12.401	1.056	10.161	1.229	10.161	1.105	10.651	1.392	10.357	1.185
8/14/2015 4:00	9.472	1.436	12.401	1.058	10.161	1.23	10.161	1.103	10.651	1.394	10.357	1.186
8/14/2015 5:00	9.472	1.439	12.401	1.061	10.161	1.233	10.161	1.104	10.651	1.395	10.357	1.19
8/14/2015 6:00	9.472	1.437	12.401	1.059	10.161	1.232	10.161	1.102	10.651	1.391	10.357	1.189
8/14/2015 7:00	9.472	1.437	12.401	1.058	10.161	1.235	10.161	1.1	10.651	1.393	10.357	1.19
8/14/2015 8:00	9.472	1.438	12.401	1.057	10.161	1.236	10.161	1.099	10.651	1.391	10.357	1.191
8/14/2015 9:00	9.472	1.435	12.401	1.055	10.161	1.233	10.161	1.098	10.651	1.389	10.357	1.19

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/14/2015 10:00	9.472	1.436	12.401	1.056	10.161	1.234	10.161	1.098	10.651	1.389	10.357	1.191
8/14/2015 11:00	9.472	1.438	12.401	1.058	10.161	1.239	10.161	1.098	10.651	1.392	10.357	1.194
8/14/2015 12:00	9.472	1.44	12.401	1.058	10.161	1.236	10.161	1.095	10.651	1.39	10.357	1.194
8/14/2015 13:00	9.472	1.44	12.401	1.061	10.161	1.238	10.161	1.098	10.651	1.392	10.357	1.197
8/14/2015 14:00	9.472	1.44	12.401	1.062	10.161	1.239	10.161	1.095	10.651	1.391	10.357	1.195
8/14/2015 15:00	9.472	1.44	12.401	1.059	10.161	1.24	10.161	1.092	10.651	1.389	10.357	1.194
8/14/2015 16:00	9.472	1.441	12.401	1.064	10.161	1.241	10.161	1.091	10.651	1.392	10.357	1.197
8/14/2015 17:00	9.472	1.44	12.401	1.065	10.161	1.241	10.161	1.086	10.651	1.392	10.357	1.198
8/14/2015 18:00	9.472	1.445	12.401	1.07	10.161	1.247	10.161	1.088	10.651	1.394	10.357	1.203
8/14/2015 19:00	9.472	1.444	12.401	1.069	10.161	1.246	10.161	1.085	10.651	1.392	10.357	1.202
8/14/2015 20:00	9.472	1.441	12.401	1.064	10.161	1.245	10.161	1.08	10.651	1.39	10.357	1.2
8/14/2015 21:00	9.472	1.444	12.401	1.065	10.161	1.246	10.161	1.079	10.651	1.389	10.357	1.2
8/14/2015 22:00	9.472	1.441	12.401	1.06	10.161	1.246	10.161	1.075	10.651	1.391	10.357	1.2
8/14/2015 23:00	9.472	1.442	12.401	1.063	10.161	1.245	10.161	1.076	10.651	1.388	10.357	1.2
8/15/2015 0:00	9.472	1.441	12.401	1.062	10.161	1.246	10.161	1.073	10.651	1.388	10.357	1.2
8/15/2015 1:00	9.472	1.443	12.401	1.064	10.161	1.247	10.161	1.074	10.651	1.388	10.357	1.204
8/15/2015 2:00	9.472	1.44	12.401	1.064	10.161	1.246	10.161	1.073	10.651	1.386	10.455	1.203
8/15/2015 3:00	9.472	1.444	12.401	1.068	10.161	1.249	10.161	1.074	10.651	1.39	10.357	1.206
8/15/2015 4:00	9.472	1.442	12.401	1.068	10.161	1.25	10.259	1.072	10.651	1.39	10.455	1.206
8/15/2015 5:00	9.472	1.444	12.401	1.069	10.161	1.252	10.259	1.072	10.651	1.39	10.455	1.206
8/15/2015 6:00	9.472	1.444	12.401	1.066	10.161	1.253	10.259	1.072	10.651	1.39	10.357	1.206
8/15/2015 7:00	9.472	1.443	12.401	1.066	10.161	1.253	10.259	1.07	10.651	1.391	10.455	1.206
8/15/2015 8:00	9.472	1.444	12.401	1.064	10.161	1.25	10.259	1.068	10.651	1.387	10.455	1.204
8/15/2015 9:00	9.472	1.444	12.401	1.069	10.161	1.252	10.259	1.067	10.651	1.386	10.455	1.208
8/15/2015 10:00	9.472	1.443	12.401	1.065	10.161	1.251	10.259	1.068	10.651	1.386	10.455	1.206
8/15/2015 11:00	9.571	1.444	12.401	1.066	10.161	1.252	10.259	1.067	10.651	1.387	10.455	1.206
8/15/2015 12:00	9.571	1.443	12.401	1.066	10.259	1.254	10.259	1.066	10.651	1.385	10.455	1.206
8/15/2015 13:00	9.571	1.441	12.401	1.064	10.161	1.25	10.259	1.062	10.651	1.385	10.455	1.204
8/15/2015 14:00	9.571	1.441	12.401	1.065	10.259	1.251	10.259	1.061	10.651	1.384	10.455	1.204
8/15/2015 15:00	9.571	1.441	12.401	1.065	10.161	1.252	10.259	1.061	10.651	1.384	10.455	1.204
8/15/2015 16:00	9.571	1.439	12.401	1.063	10.259	1.252	10.259	1.059	10.651	1.384	10.455	1.203
8/15/2015 17:00	9.571	1.441	12.401	1.069	10.259	1.253	10.259	1.056	10.748	1.382	10.455	1.206
8/15/2015 18:00	9.571	1.445	12.401	1.07	10.259	1.257	10.259	1.058	10.748	1.385	10.455	1.209
8/15/2015 19:00	9.571	1.443	12.401	1.067	10.259	1.256	10.259	1.055	10.748	1.384	10.455	1.208
8/15/2015 20:00	9.571	1.445	12.401	1.07	10.259	1.255	10.259	1.055	10.748	1.386	10.455	1.211
8/15/2015 21:00	9.571	1.446	12.401	1.069	10.259	1.259	10.259	1.053	10.748	1.385	10.455	1.211
8/15/2015 22:00	9.571	1.446	12.401	1.069	10.259	1.259	10.259	1.051	10.748	1.385	10.455	1.209
8/15/2015 23:00	9.571	1.444	12.401	1.068	10.259	1.259	10.259	1.05	10.748	1.384	10.455	1.209
8/16/2015 0:00	9.571	1.444	12.401	1.068	10.259	1.258	10.259	1.051	10.748	1.383	10.455	1.209
8/16/2015 1:00	9.571	1.442	12.401	1.068	10.259	1.256	10.259	1.047	10.748	1.379	10.455	1.208
8/16/2015 2:00	9.571	1.44	12.401	1.067	10.259	1.254	10.259	1.046	10.748	1.38	10.455	1.208
8/16/2015 3:00	9.571	1.443	12.401	1.068	10.259	1.257	10.259	1.047	10.748	1.381	10.455	1.211
8/16/2015 4:00	9.571	1.444	12.401	1.069	10.259	1.259	10.259	1.048	10.748	1.383	10.455	1.211
8/16/2015 5:00	9.571	1.442	12.401	1.066	10.259	1.258	10.259	1.043	10.748	1.38	10.455	1.208
8/16/2015 6:00	9.571	1.442	12.401	1.066	10.259	1.257	10.259	1.043	10.748	1.377	10.455	1.211
8/16/2015 7:00	9.571	1.441	12.401	1.065	10.259	1.257	10.259	1.044	10.748	1.377	10.455	1.21
8/16/2015 8:00	9.571	1.438	12.401	1.064	10.259	1.255	10.259	1.043	10.748	1.377	10.455	1.208

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/16/2015 9:00	9.571	1.437	12.401	1.062	10.259	1.254	10.259	1.04	10.748	1.376	10.455	1.206
8/16/2015 10:00	9.571	1.44	12.401	1.064	10.259	1.258	10.259	1.042	10.748	1.378	10.455	1.209
8/16/2015 11:00	9.571	1.437	12.401	1.061	10.259	1.255	10.259	1.04	10.748	1.375	10.455	1.206
8/16/2015 12:00	9.571	1.438	12.401	1.06	10.259	1.255	10.259	1.038	10.748	1.373	10.455	1.206
8/16/2015 13:00	9.571	1.438	12.401	1.065	10.259	1.256	10.259	1.041	10.748	1.376	10.455	1.208
8/16/2015 14:00	9.571	1.438	12.401	1.066	10.259	1.255	10.259	1.041	10.748	1.375	10.455	1.205
8/16/2015 15:00	9.571	1.437	12.401	1.062	10.259	1.255	10.259	1.037	10.748	1.375	10.455	1.207
8/16/2015 16:00	9.571	1.438	12.401	1.064	10.259	1.255	10.259	1.037	10.748	1.373	10.455	1.205
8/16/2015 17:00	9.571	1.437	12.401	1.065	10.259	1.255	10.259	1.036	10.748	1.373	10.455	1.206
8/16/2015 18:00	9.571	1.442	12.401	1.072	10.259	1.259	10.259	1.037	10.748	1.377	10.455	1.209
8/16/2015 19:00	9.571	1.438	12.497	1.066	10.259	1.254	10.259	1.032	10.748	1.372	10.455	1.205
8/16/2015 20:00	9.571	1.437	12.497	1.064	10.259	1.255	10.259	1.029	10.748	1.372	10.455	1.204
8/16/2015 21:00	9.571	1.441	12.497	1.068	10.259	1.256	10.259	1.029	10.748	1.374	10.455	1.206
8/16/2015 22:00	9.571	1.439	12.497	1.066	10.259	1.257	10.259	1.027	10.748	1.374	10.455	1.206
8/16/2015 23:00	9.571	1.439	12.497	1.065	10.259	1.257	10.259	1.027	10.748	1.372	10.455	1.205
8/17/2015 0:00	9.571	1.437	12.497	1.064	10.259	1.254	10.259	1.024	10.748	1.37	10.455	1.205
8/17/2015 1:00	9.571	1.435	12.497	1.059	10.259	1.255	10.259	1.021	10.748	1.369	10.455	1.204
8/17/2015 2:00	9.571	1.432	12.497	1.059	10.259	1.253	10.259	1.021	10.748	1.368	10.455	1.201
8/17/2015 3:00	9.571	1.436	12.497	1.064	10.259	1.254	10.259	1.024	10.748	1.367	10.455	1.205
8/17/2015 4:00	9.571	1.435	12.497	1.064	10.259	1.254	10.259	1.021	10.748	1.368	10.455	1.203
8/17/2015 5:00	9.571	1.437	12.497	1.064	10.259	1.256	10.259	1.022	10.748	1.369	10.455	1.206
8/17/2015 6:00	9.571	1.437	12.497	1.063	10.259	1.256	10.259	1.023	10.748	1.368	10.455	1.204
8/17/2015 7:00	9.571	1.436	12.497	1.061	10.259	1.256	10.259	1.022	10.748	1.367	10.553	1.205
8/17/2015 8:00	9.571	1.434	12.497	1.06	10.259	1.252	10.259	1.021	10.748	1.367	10.553	1.203
8/17/2015 9:00	9.571	1.435	12.497	1.06	10.259	1.253	10.259	1.02	10.748	1.364	10.553	1.204
8/17/2015 10:00	9.571	1.435	12.497	1.058	10.259	1.252	10.357	1.021	10.748	1.366	10.553	1.202
8/17/2015 11:00	9.571	1.435	12.497	1.059	10.259	1.253	10.357	1.02	10.748	1.367	10.553	1.203
8/17/2015 12:00	9.571	1.432	12.497	1.058	10.259	1.25	10.357	1.017	10.748	1.365	10.553	1.201
8/17/2015 13:00	9.571	1.432	12.497	1.058	10.259	1.252	10.357	1.017	10.748	1.364	10.553	1.203
8/17/2015 14:00	9.571	1.433	12.497	1.059	10.259	1.251	10.357	1.016	10.748	1.365	10.553	1.203
8/17/2015 15:00	9.571	1.434	12.497	1.061	10.259	1.253	10.357	1.018	10.748	1.365	10.553	1.204
8/17/2015 16:00	9.571	1.433	12.497	1.06	10.259	1.253	10.357	1.015	10.748	1.365	10.553	1.204
8/17/2015 17:00	9.571	1.432	12.497	1.059	10.259	1.249	10.357	1.014	10.748	1.362	10.553	1.202
8/17/2015 18:00	9.571	1.437	12.497	1.067	10.259	1.255	10.357	1.016	10.748	1.367	10.553	1.206
8/17/2015 19:00	9.571	1.431	12.497	1.06	10.259	1.252	10.357	1.01	10.748	1.362	10.553	1.2
8/17/2015 20:00	9.571	1.431	12.497	1.059	10.259	1.25	10.357	1.007	10.748	1.361	10.553	1.199
8/17/2015 21:00	9.571	1.431	12.497	1.062	10.259	1.25	10.357	1.007	10.748	1.361	10.553	1.201
8/17/2015 22:00	9.571	1.428	12.497	1.059	10.259	1.25	10.357	1.004	10.748	1.361	10.553	1.199
8/17/2015 23:00	9.571	1.429	12.497	1.061	10.259	1.25	10.357	1.001	10.748	1.361	10.553	1.198
8/18/2015 0:00	9.571	1.427	12.497	1.054	10.357	1.249	10.357	1.002	10.748	1.359	10.553	1.198
8/18/2015 1:00	9.571	1.431	12.497	1.059	10.259	1.25	10.357	1.001	10.748	1.36	10.553	1.199
8/18/2015 2:00	9.571	1.429	12.497	1.058	10.357	1.248	10.357	0.999	10.748	1.358	10.553	1.199
8/18/2015 3:00	9.571	1.43	12.497	1.062	10.357	1.249	10.357	1.001	10.748	1.361	10.553	1.199
8/18/2015 4:00	9.571	1.431	12.497	1.062	10.357	1.252	10.357	1.003	10.748	1.361	10.553	1.202
8/18/2015 5:00	9.571	1.429	12.497	1.062	10.357	1.252	10.357	1.001	10.748	1.36	10.553	1.199
8/18/2015 6:00	9.669	1.43	12.497	1.06	10.357	1.251	10.357	1.002	10.846	1.361	10.553	1.2
8/18/2015 7:00	9.669	1.43	12.497	1.058	10.357	1.252	10.357	1.001	10.846	1.358	10.553	1.199

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/18/2015 8:00	9.669	1.428	12.497	1.056	10.357	1.25	10.357	0.999	10.846	1.359	10.553	1.2
8/18/2015 9:00	9.669	1.429	12.497	1.057	10.357	1.249	10.357	1.001	10.846	1.361	10.553	1.199
8/18/2015 10:00	9.669	1.429	12.497	1.056	10.357	1.25	10.357	0.999	10.846	1.36	10.553	1.199
8/18/2015 11:00	9.669	1.427	12.594	1.055	10.357	1.245	10.357	0.998	10.846	1.356	10.553	1.196
8/18/2015 12:00	9.669	1.426	12.594	1.056	10.357	1.246	10.357	0.997	10.846	1.357	10.553	1.196
8/18/2015 13:00	9.669	1.427	12.594	1.055	10.357	1.249	10.357	0.995	10.846	1.355	10.553	1.196
8/18/2015 14:00	9.669	1.429	12.594	1.058	10.357	1.249	10.357	0.998	10.846	1.358	10.553	1.199
8/18/2015 15:00	9.669	1.426	12.594	1.06	10.357	1.248	10.357	0.995	10.846	1.355	10.553	1.197
8/18/2015 16:00	9.669	1.425	12.594	1.056	10.357	1.246	10.357	0.993	10.846	1.356	10.553	1.197
8/18/2015 17:00	9.669	1.425	12.594	1.057	10.357	1.249	10.357	0.992	10.846	1.356	10.553	1.198
8/18/2015 18:00	9.669	1.431	12.594	1.063	10.357	1.252	10.357	0.995	10.846	1.361	10.553	1.202
8/18/2015 19:00	9.669	1.426	12.594	1.061	10.357	1.247	10.357	0.99	10.846	1.36	10.553	1.198
8/18/2015 20:00	9.669	1.429	12.594	1.061	10.357	1.25	10.357	0.991	10.846	1.359	10.553	1.199
8/18/2015 21:00	9.669	1.428	12.594	1.061	10.357	1.251	10.357	0.989	10.846	1.358	10.553	1.202
8/18/2015 22:00	9.669	1.426	12.594	1.061	10.357	1.25	10.357	0.986	10.846	1.356	10.553	1.2
8/18/2015 23:00	9.669	1.425	12.594	1.057	10.357	1.248	10.357	0.985	10.846	1.356	10.553	1.201
8/19/2015 0:00	9.669	1.425	12.594	1.057	10.357	1.246	10.357	0.983	10.846	1.354	10.553	1.196
8/19/2015 1:00	9.669	1.425	12.594	1.053	10.357	1.248	10.357	0.982	10.846	1.355	10.553	1.197
8/19/2015 2:00	9.669	1.425	12.594	1.058	10.357	1.247	10.357	0.983	10.846	1.356	10.553	1.198
8/19/2015 3:00	9.669	1.423	12.594	1.054	10.357	1.246	10.357	0.981	10.846	1.355	10.553	1.196
8/19/2015 4:00	9.669	1.426	12.594	1.059	10.357	1.249	10.357	0.985	10.846	1.357	10.553	1.198
8/19/2015 5:00	9.669	1.424	12.594	1.057	10.357	1.246	10.357	0.983	10.846	1.355	10.553	1.197
8/19/2015 6:00	9.669	1.423	12.594	1.055	10.357	1.245	10.357	0.981	10.846	1.355	10.553	1.195
8/19/2015 7:00	9.669	1.424	12.594	1.056	10.357	1.25	10.357	0.984	10.846	1.357	10.553	1.197
8/19/2015 8:00	9.669	1.421	12.594	1.054	10.357	1.243	10.357	0.98	10.846	1.352	10.553	1.194
8/19/2015 9:00	9.669	1.42	12.594	1.052	10.357	1.244	10.357	0.978	10.846	1.349	10.553	1.193
8/19/2015 10:00	9.669	1.421	12.594	1.055	10.357	1.245	10.357	0.981	10.846	1.352	10.553	1.196
8/19/2015 11:00	9.669	1.42	12.594	1.052	10.357	1.244	10.357	0.98	10.846	1.352	10.651	1.194
8/19/2015 12:00	9.669	1.42	12.594	1.052	10.357	1.243	10.357	0.98	10.846	1.352	10.651	1.196
8/19/2015 13:00	9.669	1.419	12.594	1.057	10.357	1.241	10.357	0.978	10.846	1.349	10.651	1.192
8/19/2015 14:00	9.669	1.42	12.69	1.053	10.357	1.24	10.357	0.976	10.846	1.35	10.651	1.192
8/19/2015 15:00	9.669	1.417	12.69	1.054	10.357	1.242	10.357	0.976	10.846	1.348	10.651	1.192
8/19/2015 16:00	9.669	1.417	12.69	1.054	10.357	1.241	10.357	0.976	10.846	1.349	10.651	1.191
8/19/2015 17:00	9.669	1.417	12.69	1.05	10.357	1.239	10.357	0.976	10.846	1.348	10.651	1.19
8/19/2015 18:00	9.669	1.424	12.69	1.061	10.357	1.247	10.357	0.981	10.846	1.356	10.651	1.196
8/19/2015 19:00	9.669	1.421	12.69	1.057	10.357	1.245	10.455	0.977	10.846	1.352	10.651	1.196
8/19/2015 20:00	9.669	1.419	12.69	1.054	10.357	1.24	10.455	0.974	10.846	1.35	10.651	1.193
8/19/2015 21:00	9.669	1.419	12.69	1.054	10.357	1.24	10.455	0.974	10.846	1.35	10.651	1.193
8/19/2015 22:00	9.669	1.418	12.69	1.052	10.357	1.24	10.455	0.971	10.846	1.349	10.651	1.193
8/19/2015 23:00	9.669	1.418	12.69	1.052	10.357	1.237	10.455	0.972	10.846	1.35	10.651	1.191
8/20/2015 0:00	9.669	1.418	12.69	1.054	10.357	1.24	10.455	0.971	10.846	1.348	10.651	1.191
8/20/2015 1:00	9.669	1.416	12.69	1.049	10.357	1.236	10.455	0.968	10.846	1.347	10.651	1.19
8/20/2015 2:00	9.669	1.415	12.69	1.05	10.357	1.236	10.455	0.968	10.846	1.346	10.651	1.19
8/20/2015 3:00	9.669	1.413	12.69	1.051	10.357	1.235	10.455	0.967	10.846	1.345	10.651	1.188
8/20/2015 4:00	9.669	1.414	12.69	1.047	10.357	1.234	10.455	0.967	10.846	1.346	10.651	1.187
8/20/2015 5:00	9.669	1.414	12.69	1.048	10.357	1.234	10.455	0.966	10.846	1.344	10.651	1.186
8/20/2015 6:00	9.669	1.415	12.69	1.048	10.357	1.233	10.455	0.967	10.846	1.347	10.651	1.187

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/20/2015 7:00	9.669	1.416	12.69	1.05	10.357	1.236	10.455	0.967	10.846	1.347	10.651	1.188
8/20/2015 8:00	9.669	1.415	12.69	1.048	10.357	1.234	10.455	0.967	10.846	1.348	10.651	1.188
8/20/2015 9:00	9.669	1.414	12.69	1.049	10.357	1.236	10.455	0.967	10.846	1.347	10.651	1.189
8/20/2015 10:00	9.669	1.411	12.69	1.048	10.357	1.234	10.455	0.968	10.846	1.347	10.651	1.188
8/20/2015 11:00	9.669	1.412	12.69	1.045	10.357	1.231	10.455	0.965	10.846	1.344	10.651	1.185
8/20/2015 12:00	9.669	1.412	12.69	1.048	10.357	1.232	10.455	0.966	10.846	1.344	10.651	1.186
8/20/2015 13:00	9.669	1.41	12.69	1.046	10.357	1.231	10.455	0.965	10.846	1.344	10.651	1.186
8/20/2015 14:00	9.669	1.415	12.69	1.051	10.357	1.233	10.455	0.968	10.846	1.347	10.651	1.188
8/20/2015 15:00	9.669	1.414	12.69	1.047	10.455	1.235	10.455	0.969	10.846	1.348	10.651	1.188
8/20/2015 16:00	9.669	1.412	12.787	1.046	10.455	1.233	10.455	0.966	10.846	1.345	10.651	1.187
8/20/2015 17:00	9.669	1.408	12.787	1.047	10.455	1.227	10.455	0.963	10.846	1.341	10.651	1.18
8/20/2015 18:00	9.669	1.42	12.787	1.059	10.455	1.24	10.455	0.974	10.846	1.354	10.651	1.193
8/20/2015 19:00	9.669	1.414	12.787	1.053	10.455	1.234	10.455	0.968	10.846	1.347	10.651	1.188
8/20/2015 20:00	9.669	1.414	12.787	1.049	10.455	1.233	10.455	0.966	10.846	1.347	10.651	1.188
8/20/2015 21:00	9.669	1.413	12.787	1.05	10.455	1.233	10.455	0.968	10.846	1.346	10.651	1.187
8/20/2015 22:00	9.669	1.412	12.787	1.05	10.455	1.231	10.455	0.967	10.944	1.349	10.651	1.187
8/20/2015 23:00	9.669	1.411	12.787	1.048	10.455	1.23	10.455	0.967	10.944	1.345	10.651	1.186
8/21/2015 0:00	9.669	1.412	12.787	1.048	10.455	1.233	10.455	0.967	10.944	1.345	10.651	1.186
8/21/2015 1:00	9.669	1.412	12.787	1.05	10.455	1.232	10.455	0.968	10.944	1.347	10.651	1.187
8/21/2015 2:00	9.768	1.411	12.787	1.047	10.455	1.231	10.455	0.966	10.944	1.346	10.651	1.186
8/21/2015 3:00	9.768	1.412	12.787	1.051	10.455	1.231	10.455	0.968	10.944	1.348	10.651	1.188
8/21/2015 4:00	9.768	1.41	12.787	1.047	10.455	1.23	10.455	0.963	10.944	1.345	10.651	1.185
8/21/2015 5:00	9.768	1.409	12.787	1.048	10.455	1.228	10.455	0.964	10.944	1.345	10.651	1.185
8/21/2015 6:00	9.768	1.407	12.787	1.044	10.455	1.227	10.455	0.963	10.944	1.344	10.651	1.184
8/21/2015 7:00	9.768	1.406	12.787	1.044	10.455	1.225	10.455	0.961	10.944	1.343	10.651	1.181
8/21/2015 8:00	9.768	1.409	12.787	1.046	10.455	1.227	10.455	0.962	10.944	1.344	10.651	1.184
8/21/2015 9:00	9.768	1.406	12.787	1.044	10.455	1.225	10.455	0.961	10.944	1.342	10.651	1.181
8/21/2015 10:00	9.768	1.407	12.787	1.045	10.455	1.226	10.455	0.961	10.944	1.343	10.651	1.183
8/21/2015 11:00	9.768	1.408	12.787	1.043	10.455	1.225	10.455	0.961	10.944	1.342	10.651	1.181
8/21/2015 12:00	9.768	1.407	12.787	1.042	10.455	1.225	10.455	0.962	10.944	1.344	10.651	1.182
8/21/2015 13:00	9.768	1.41	12.787	1.044	10.455	1.227	10.455	0.964	10.944	1.346	10.651	1.183
8/21/2015 14:00	9.768	1.409	12.883	1.05	10.455	1.226	10.455	0.964	10.944	1.345	10.651	1.183
8/21/2015 15:00	9.768	1.409	12.883	1.043	10.455	1.227	10.455	0.964	10.944	1.343	10.651	1.183
8/21/2015 16:00	9.768	1.407	12.883	1.044	10.455	1.226	10.455	0.964	10.944	1.344	10.748	1.184
8/21/2015 17:00	9.768	1.408	12.883	1.047	10.455	1.226	10.455	0.966	10.944	1.343	10.748	1.183
8/21/2015 18:00	9.768	1.407	12.883	1.047	10.455	1.223	10.455	0.963	10.944	1.342	10.748	1.183
8/21/2015 19:00	9.768	1.407	12.883	1.048	10.455	1.223	10.455	0.964	10.944	1.343	10.748	1.184
8/21/2015 20:00	9.768	1.407	12.883	1.048	10.455	1.225	10.455	0.963	10.944	1.343	10.748	1.184
8/21/2015 21:00	9.768	1.406	12.883	1.047	10.455	1.222	10.455	0.963	10.944	1.342	10.748	1.182
8/21/2015 22:00	9.768	1.406	12.883	1.047	10.455	1.224	10.455	0.964	10.944	1.342	10.748	1.181
8/21/2015 23:00	9.768	1.403	12.883	1.047	10.455	1.222	10.455	0.961	10.944	1.34	10.748	1.179
8/22/2015 0:00	9.768	1.402	12.883	1.045	10.455	1.22	10.553	0.962	10.944	1.342	10.748	1.182
8/22/2015 1:00	9.768	1.404	12.883	1.044	10.455	1.22	10.553	0.962	10.944	1.342	10.748	1.182
8/22/2015 2:00	9.768	1.404	12.883	1.045	10.455	1.224	10.553	0.964	10.944	1.341	10.748	1.181
8/22/2015 3:00	9.768	1.403	12.883	1.042	10.455	1.219	10.553	0.96	10.944	1.338	10.748	1.177
8/22/2015 4:00	9.768	1.404	12.883	1.043	10.455	1.221	10.553	0.963	10.944	1.338	10.748	1.178
8/22/2015 5:00	9.768	1.403	12.883	1.044	10.455	1.221	10.553	0.963	10.944	1.339	10.748	1.181

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/22/2015 6:00	9.768	1.406	12.883	1.046	10.455	1.222	10.553	0.965	10.944	1.34	10.748	1.182
8/22/2015 7:00	9.768	1.408	12.883	1.045	10.455	1.225	10.553	0.967	10.944	1.34	10.748	1.181
8/22/2015 8:00	9.768	1.405	12.883	1.046	10.455	1.222	10.553	0.964	10.944	1.338	10.748	1.183
8/22/2015 9:00	9.768	1.408	12.883	1.047	10.455	1.222	10.553	0.967	10.944	1.342	10.748	1.183
8/22/2015 10:00	9.768	1.407	12.883	1.048	10.455	1.222	10.553	0.967	10.944	1.343	10.748	1.184
8/22/2015 11:00	9.768	1.405	12.883	1.045	10.455	1.223	10.553	0.963	10.944	1.34	10.748	1.185
8/22/2015 12:00	9.768	1.409	12.883	1.047	10.455	1.224	10.553	0.967	10.944	1.342	10.748	1.185
8/22/2015 13:00	9.768	1.405	12.883	1.044	10.455	1.219	10.553	0.963	10.944	1.34	10.748	1.181
8/22/2015 14:00	9.768	1.405	12.883	1.046	10.455	1.22	10.553	0.961	10.944	1.34	10.748	1.181
8/22/2015 15:00	9.768	1.403	12.883	1.041	10.455	1.219	10.553	0.961	10.944	1.34	10.748	1.181
8/22/2015 16:00	9.768	1.401	12.883	1.043	10.455	1.218	10.553	0.962	10.944	1.338	10.748	1.18
8/22/2015 17:00	9.768	1.402	12.883	1.041	10.455	1.218	10.553	0.962	10.944	1.336	10.748	1.179
8/22/2015 18:00	9.768	1.4	12.98	1.045	10.455	1.218	10.553	0.96	10.944	1.336	10.748	1.177
8/22/2015 19:00	9.768	1.403	12.98	1.045	10.455	1.218	10.553	0.962	10.944	1.338	10.748	1.18
8/22/2015 20:00	9.768	1.403	12.98	1.045	10.455	1.22	10.553	0.964	10.944	1.338	10.748	1.181
8/22/2015 21:00	9.768	1.406	12.98	1.045	10.455	1.219	10.553	0.965	10.944	1.338	10.748	1.18
8/22/2015 22:00	9.768	1.405	12.98	1.045	10.553	1.221	10.553	0.964	10.944	1.338	10.748	1.179
8/22/2015 23:00	9.768	1.402	12.98	1.042	10.553	1.219	10.553	0.961	10.944	1.335	10.748	1.178
8/23/2015 0:00	9.768	1.405	12.98	1.046	10.553	1.221	10.553	0.966	11.041	1.339	10.748	1.181
8/23/2015 1:00	9.768	1.405	12.98	1.045	10.553	1.223	10.553	0.963	11.041	1.339	10.748	1.18
8/23/2015 2:00	9.768	1.405	12.98	1.045	10.553	1.222	10.553	0.963	11.041	1.338	10.748	1.179
8/23/2015 3:00	9.768	1.406	12.98	1.045	10.553	1.222	10.553	0.964	11.041	1.339	10.748	1.178
8/23/2015 4:00	9.768	1.405	12.98	1.047	10.553	1.221	10.553	0.965	11.041	1.338	10.748	1.18
8/23/2015 5:00	9.768	1.404	12.98	1.044	10.553	1.221	10.553	0.962	11.041	1.339	10.748	1.179
8/23/2015 6:00	9.768	1.405	12.98	1.045	10.553	1.219	10.553	0.964	11.041	1.339	10.748	1.18
8/23/2015 7:00	9.768	1.403	12.98	1.044	10.553	1.221	10.553	0.964	11.041	1.339	10.748	1.18
8/23/2015 8:00	9.768	1.404	12.98	1.045	10.553	1.218	10.553	0.961	11.041	1.338	10.748	1.177
8/23/2015 9:00	9.768	1.403	12.98	1.043	10.553	1.217	10.553	0.963	11.041	1.338	10.748	1.179
8/23/2015 10:00	9.768	1.404	12.98	1.044	10.553	1.22	10.553	0.962	11.041	1.337	10.748	1.18
8/23/2015 11:00	9.768	1.402	12.98	1.039	10.553	1.216	10.553	0.959	11.041	1.334	10.748	1.176
8/23/2015 12:00	9.768	1.399	12.98	1.041	10.553	1.215	10.553	0.96	11.041	1.334	10.748	1.176
8/23/2015 13:00	9.768	1.4	12.98	1.04	10.553	1.214	10.553	0.961	11.041	1.336	10.748	1.175
8/23/2015 14:00	9.866	1.403	12.98	1.042	10.553	1.216	10.553	0.961	11.041	1.335	10.748	1.177
8/23/2015 15:00	9.866	1.404	12.98	1.051	10.553	1.218	10.553	0.963	11.041	1.339	10.748	1.18
8/23/2015 16:00	9.866	1.404	12.98	1.042	10.553	1.217	10.553	0.962	11.041	1.336	10.748	1.179
8/23/2015 17:00	9.866	1.404	12.98	1.044	10.553	1.217	10.553	0.963	11.041	1.341	10.748	1.179
8/23/2015 18:00	9.866	1.406	12.98	1.049	10.553	1.219	10.553	0.962	11.041	1.339	10.748	1.181
8/23/2015 19:00	9.866	1.407	12.98	1.046	10.553	1.22	10.553	0.961	11.041	1.339	10.748	1.182
8/23/2015 20:00	9.866	1.402	12.98	1.043	10.553	1.216	10.553	0.959	11.041	1.337	10.748	1.178
8/23/2015 21:00	9.866	1.403	12.98	1.042	10.553	1.217	10.553	0.958	11.041	1.337	10.748	1.179
8/23/2015 22:00	9.866	1.402	12.98	1.041	10.553	1.213	10.553	0.956	11.041	1.334	10.846	1.177
8/23/2015 23:00	9.866	1.404	13.076	1.043	10.553	1.216	10.553	0.958	11.041	1.337	10.846	1.178
8/24/2015 0:00	9.866	1.403	12.98	1.044	10.553	1.214	10.553	0.956	11.041	1.337	10.846	1.178
8/24/2015 1:00	9.866	1.405	13.076	1.044	10.553	1.217	10.553	0.958	11.041	1.336	10.846	1.178
8/24/2015 2:00	9.866	1.401	13.076	1.042	10.553	1.211	10.553	0.953	11.041	1.335	10.846	1.176
8/24/2015 3:00	9.866	1.401	13.076	1.042	10.553	1.215	10.651	0.954	11.041	1.335	10.846	1.177
8/24/2015 4:00	9.866	1.401	13.076	1.044	10.553	1.215	10.651	0.956	11.041	1.337	10.846	1.178

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/24/2015 5:00	9.866	1.401	13.076	1.043	10.553	1.215	10.651	0.955	11.041	1.337	10.846	1.179
8/24/2015 6:00	9.866	1.402	13.076	1.043	10.553	1.216	10.651	0.955	11.041	1.337	10.846	1.179
8/24/2015 7:00	9.866	1.401	13.076	1.043	10.553	1.215	10.651	0.955	11.041	1.336	10.846	1.177
8/24/2015 8:00	9.866	1.4	13.076	1.041	10.553	1.216	10.651	0.954	11.041	1.337	10.846	1.177
8/24/2015 9:00	9.866	1.401	13.076	1.039	10.553	1.212	10.651	0.951	11.041	1.332	10.846	1.176
8/24/2015 10:00	9.866	1.401	13.076	1.043	10.553	1.213	10.651	0.953	11.041	1.335	10.846	1.177
8/24/2015 11:00	9.866	1.401	13.076	1.041	10.553	1.212	10.651	0.951	11.041	1.334	10.846	1.176
8/24/2015 12:00	9.866	1.398	13.076	1.039	10.553	1.209	10.651	0.95	11.041	1.333	10.846	1.173
8/24/2015 13:00	9.866	1.397	13.076	1.037	10.553	1.209	10.651	0.951	11.041	1.333	10.846	1.173
8/24/2015 14:00	9.866	1.398	13.076	1.037	10.553	1.209	10.651	0.95	11.041	1.333	10.846	1.172
8/24/2015 15:00	9.866	1.4	13.076	1.046	10.553	1.21	10.651	0.951	11.041	1.334	10.846	1.174
8/24/2015 16:00	9.866	1.398	13.076	1.041	10.553	1.208	10.651	0.948	11.041	1.333	10.846	1.171
8/24/2015 17:00	9.866	1.393	13.076	1.037	10.553	1.204	10.651	0.944	11.041	1.331	10.846	1.17
8/24/2015 18:00	9.866	1.403	13.076	1.049	10.553	1.213	10.651	0.954	11.041	1.341	10.846	1.178
8/24/2015 19:00	9.866	1.401	13.076	1.045	10.553	1.209	10.651	0.95	11.041	1.337	10.846	1.175
8/24/2015 20:00	9.866	1.4	13.076	1.042	10.553	1.21	10.651	0.948	11.041	1.336	10.846	1.174
8/24/2015 21:00	9.866	1.399	13.076	1.043	10.553	1.209	10.651	0.948	11.041	1.336	10.846	1.174
8/24/2015 22:00	9.866	1.396	13.076	1.039	10.553	1.207	10.651	0.945	11.139	1.335	10.846	1.173
8/24/2015 23:00	9.866	1.398	13.076	1.041	10.553	1.208	10.651	0.949	11.139	1.336	10.846	1.174
8/25/2015 0:00	9.866	1.4	13.076	1.038	10.553	1.208	10.651	0.944	11.139	1.334	10.846	1.176
8/25/2015 1:00	9.866	1.4	13.076	1.044	10.651	1.21	10.651	0.947	11.139	1.337	10.846	1.174
8/25/2015 2:00	9.866	1.4	13.076	1.047	10.651	1.21	10.651	0.948	11.139	1.338	10.846	1.176
8/25/2015 3:00	9.866	1.399	13.076	1.043	10.651	1.21	10.651	0.947	11.139	1.338	10.846	1.176
8/25/2015 4:00	9.866	1.4	13.076	1.04	10.651	1.211	10.651	0.946	11.139	1.341	10.846	1.178
8/25/2015 5:00	9.866	1.398	13.076	1.04	10.651	1.211	10.651	0.946	11.139	1.342	10.846	1.177
8/25/2015 6:00	9.866	1.397	13.076	1.039	10.651	1.209	10.651	0.944	11.139	1.337	10.846	1.175
8/25/2015 7:00	9.866	1.399	13.076	1.041	10.651	1.21	10.651	0.945	11.139	1.339	10.846	1.176
8/25/2015 8:00	9.866	1.395	13.076	1.037	10.651	1.207	10.651	0.94	11.139	1.337	10.846	1.172
8/25/2015 9:00	9.866	1.397	13.076	1.039	10.651	1.209	10.651	0.94	11.139	1.339	10.846	1.174
8/25/2015 10:00	9.866	1.396	13.076	1.036	10.651	1.207	10.651	0.942	11.139	1.337	10.846	1.174
8/25/2015 11:00	9.866	1.399	13.076	1.039	10.651	1.209	10.651	0.939	11.139	1.337	10.846	1.174
8/25/2015 12:00	9.866	1.398	13.173	1.036	10.651	1.209	10.651	0.94	11.139	1.34	10.846	1.174
8/25/2015 13:00	9.866	1.399	13.173	1.046	10.651	1.21	10.651	0.941	11.139	1.342	10.846	1.178
8/25/2015 14:00	9.866	1.396	13.173	1.034	10.651	1.207	10.651	0.938	11.139	1.34	10.846	1.174
8/25/2015 15:00	9.866	1.399	13.173	1.044	10.651	1.21	10.651	0.941	11.139	1.343	10.846	1.175
8/25/2015 16:00	9.866	1.4	13.173	1.046	10.651	1.211	10.651	0.939	11.139	1.345	10.846	1.176
8/25/2015 17:00	9.866	1.395	13.173	1.04	10.651	1.206	10.651	0.934	11.139	1.338	10.846	1.172
8/25/2015 18:00	9.866	1.399	13.173	1.044	10.651	1.21	10.651	0.937	11.139	1.341	10.846	1.174
8/25/2015 19:00	9.866	1.398	13.173	1.041	10.651	1.206	10.651	0.936	11.139	1.339	10.846	1.172
8/25/2015 20:00	9.866	1.397	13.173	1.039	10.651	1.205	10.651	0.933	11.139	1.34	10.846	1.172
8/25/2015 21:00	9.866	1.397	13.173	1.04	10.651	1.206	10.651	0.935	11.139	1.341	10.944	1.174
8/25/2015 22:00	9.866	1.399	13.173	1.042	10.651	1.207	10.651	0.935	11.139	1.341	10.944	1.175
8/25/2015 23:00	9.965	1.4	13.173	1.044	10.651	1.211	10.651	0.937	11.139	1.346	10.944	1.177
8/26/2015 0:00	9.965	1.399	13.173	1.042	10.651	1.207	10.651	0.933	11.139	1.341	10.944	1.174
8/26/2015 1:00	9.965	1.401	13.173	1.044	10.651	1.208	10.651	0.933	11.139	1.343	10.944	1.176
8/26/2015 2:00	9.965	1.399	13.173	1.042	10.651	1.207	10.651	0.933	11.139	1.342	10.944	1.174
8/26/2015 3:00	9.965	1.4	13.173	1.043	10.651	1.207	10.651	0.933	11.139	1.343	10.944	1.175

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/26/2015 4:00	9.965	1.4	13.173	1.043	10.651	1.207	10.651	0.934	11.139	1.341	10.944	1.174
8/26/2015 5:00	9.965	1.398	13.173	1.04	10.651	1.205	10.651	0.936	11.139	1.342	10.944	1.173
8/26/2015 6:00	9.965	1.401	13.173	1.043	10.651	1.208	10.748	0.938	11.139	1.345	10.944	1.174
8/26/2015 7:00	9.965	1.398	13.173	1.038	10.651	1.205	10.748	0.939	11.139	1.342	10.944	1.172
8/26/2015 8:00	9.965	1.399	13.173	1.039	10.651	1.206	10.748	0.942	11.139	1.344	10.944	1.172
8/26/2015 9:00	9.965	1.4	13.173	1.042	10.651	1.205	10.748	0.949	11.139	1.345	10.944	1.174
8/26/2015 10:00	9.965	1.4	13.173	1.041	10.651	1.207	10.748	0.952	11.139	1.344	10.944	1.174
8/26/2015 11:00	9.965	1.402	13.173	1.042	10.651	1.207	10.748	0.958	11.139	1.345	10.944	1.176
8/26/2015 12:00	9.965	1.403	13.173	1.045	10.651	1.209	10.748	0.964	11.139	1.35	10.944	1.176
8/26/2015 13:00	9.965	1.405	13.173	1.044	10.651	1.211	10.748	0.969	11.139	1.351	10.944	1.179
8/26/2015 14:00	9.965	1.403	13.173	1.044	10.651	1.206	10.748	0.974	11.139	1.348	10.944	1.175
8/26/2015 15:00	9.965	1.404	13.173	1.046	10.651	1.21	10.748	0.978	11.139	1.35	10.944	1.176
8/26/2015 16:00	9.965	1.406	13.173	1.043	10.651	1.208	10.748	0.984	11.139	1.35	10.944	1.175
8/26/2015 17:00	9.965	1.409	13.173	1.048	10.651	1.212	10.748	0.988	11.236	1.354	10.944	1.177
8/26/2015 18:00	9.965	1.411	13.173	1.046	10.651	1.213	10.748	0.995	11.236	1.354	10.944	1.18
8/26/2015 19:00	9.965	1.41	13.173	1.045	10.651	1.212	10.748	0.996	11.236	1.357	10.944	1.179
8/26/2015 20:00	9.965	1.413	13.173	1.046	10.651	1.215	10.748	1.003	11.236	1.358	10.944	1.179
8/26/2015 21:00	9.965	1.411	13.269	1.044	10.651	1.211	10.748	1.004	11.236	1.356	10.944	1.178
8/26/2015 22:00	9.965	1.412	13.173	1.045	10.651	1.213	10.748	1.007	11.236	1.358	10.944	1.18
8/26/2015 23:00	9.965	1.409	13.269	1.043	10.651	1.212	10.748	1.006	11.236	1.358	10.944	1.175
8/27/2015 0:00	9.965	1.409	13.269	1.044	10.651	1.213	10.748	1.009	11.236	1.354	10.944	1.177
8/27/2015 1:00	9.965	1.412	13.269	1.045	10.651	1.212	10.748	1.013	11.236	1.358	10.944	1.178
8/27/2015 2:00	9.965	1.411	13.269	1.045	10.748	1.214	10.748	1.016	11.236	1.359	10.944	1.178
8/27/2015 3:00	9.965	1.414	13.269	1.045	10.748	1.215	10.748	1.019	11.236	1.361	10.944	1.177
8/27/2015 4:00	9.965	1.416	13.269	1.046	10.748	1.215	10.748	1.021	11.236	1.362	10.944	1.181
8/27/2015 5:00	9.965	1.415	13.269	1.047	10.748	1.216	10.748	1.026	11.236	1.361	10.944	1.18
8/27/2015 6:00	9.965	1.416	13.269	1.047	10.748	1.217	10.748	1.026	11.236	1.362	10.944	1.181
8/27/2015 7:00	9.965	1.416	13.269	1.044	10.748	1.218	10.748	1.028	11.236	1.361	10.944	1.181
8/27/2015 8:00	9.965	1.415	13.269	1.043	10.748	1.218	10.748	1.028	11.236	1.36	10.944	1.18
8/27/2015 9:00	9.965	1.416	13.269	1.043	10.748	1.215	10.748	1.03	11.236	1.361	10.944	1.18
8/27/2015 10:00	9.965	1.418	13.269	1.044	10.748	1.217	10.748	1.032	11.236	1.362	10.944	1.182
8/27/2015 11:00	9.965	1.416	13.269	1.042	10.748	1.217	10.748	1.031	11.236	1.361	10.944	1.181
8/27/2015 12:00	9.965	1.418	13.269	1.043	10.748	1.219	10.748	1.033	11.236	1.363	10.944	1.182
8/27/2015 13:00	9.965	1.418	13.269	1.049	10.748	1.218	10.748	1.034	11.236	1.364	10.944	1.181
8/27/2015 14:00	9.965	1.421	13.269	1.044	10.748	1.22	10.748	1.034	11.236	1.364	10.944	1.181
8/27/2015 15:00	9.965	1.423	13.269	1.045	10.748	1.222	10.748	1.035	11.236	1.366	10.944	1.186
8/27/2015 16:00	9.965	1.425	13.269	1.047	10.748	1.221	10.748	1.033	11.236	1.365	10.944	1.184
8/27/2015 17:00	9.965	1.418	13.269	1.042	10.748	1.218	10.748	1.026	11.236	1.36	10.944	1.179
8/27/2015 18:00	9.965	1.428	13.269	1.056	10.748	1.227	10.748	1.033	11.236	1.369	10.944	1.19
8/27/2015 19:00	9.965	1.425	13.269	1.052	10.748	1.224	10.748	1.029	11.236	1.366	10.944	1.187
8/27/2015 20:00	9.965	1.424	13.269	1.043	10.748	1.221	10.748	1.025	11.236	1.364	10.944	1.183
8/27/2015 21:00	9.965	1.425	13.269	1.047	10.748	1.222	10.748	1.02	11.236	1.365	11.041	1.185
8/27/2015 22:00	9.965	1.425	13.269	1.048	10.748	1.225	10.748	1.023	11.236	1.368	10.944	1.185
8/27/2015 23:00	9.965	1.425	13.269	1.047	10.748	1.225	10.748	1.019	11.236	1.367	11.041	1.185
8/28/2015 0:00	9.965	1.424	13.269	1.047	10.748	1.223	10.748	1.017	11.236	1.365	11.041	1.186
8/28/2015 1:00	9.965	1.425	13.269	1.047	10.748	1.225	10.748	1.017	11.236	1.365	11.041	1.186
8/28/2015 2:00	9.965	1.426	13.269	1.048	10.748	1.225	10.748	1.015	11.236	1.366	11.041	1.186

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/28/2015 3:00	9.965	1.426	13.269	1.048	10.748	1.224	10.846	1.014	11.236	1.367	11.041	1.185
8/28/2015 4:00	9.965	1.426	13.269	1.046	10.748	1.226	10.846	1.014	11.236	1.365	11.041	1.185
8/28/2015 5:00	9.965	1.429	13.269	1.05	10.748	1.227	10.846	1.015	11.236	1.37	11.041	1.185
8/28/2015 6:00	9.965	1.426	13.269	1.049	10.748	1.224	10.846	1.012	11.236	1.367	11.041	1.183
8/28/2015 7:00	9.965	1.428	13.269	1.045	10.748	1.227	10.846	1.015	11.236	1.368	11.041	1.187
8/28/2015 8:00	9.965	1.428	13.269	1.048	10.748	1.225	10.846	1.013	11.236	1.366	11.041	1.185
8/28/2015 9:00	9.965	1.428	13.269	1.045	10.748	1.225	10.846	1.009	11.236	1.367	11.041	1.187
8/28/2015 10:00	10.063	1.427	13.269	1.044	10.748	1.224	10.846	1.008	11.236	1.367	11.041	1.183
8/28/2015 11:00	10.063	1.426	13.269	1.043	10.748	1.224	10.846	1.005	11.236	1.365	11.041	1.182
8/28/2015 12:00	10.063	1.428	13.269	1.048	10.748	1.225	10.846	1.007	11.334	1.366	11.041	1.184
8/28/2015 13:00	10.063	1.427	13.269	1.043	10.748	1.223	10.846	1.005	11.334	1.366	11.041	1.184
8/28/2015 14:00	10.063	1.429	13.269	1.047	10.748	1.224	10.846	1.003	11.334	1.368	11.041	1.184
8/28/2015 15:00	10.063	1.427	13.269	1.046	10.748	1.226	10.846	1	11.334	1.366	11.041	1.185
8/28/2015 16:00	10.063	1.428	13.269	1.048	10.748	1.225	10.846	0.998	11.334	1.367	11.041	1.183
8/28/2015 17:00	10.063	1.426	13.269	1.05	10.748	1.225	10.846	0.996	11.334	1.367	11.041	1.185
8/28/2015 18:00	10.063	1.432	13.269	1.057	10.748	1.23	10.846	0.998	11.334	1.37	11.041	1.188
8/28/2015 19:00	10.063	1.43	13.365	1.052	10.748	1.226	10.846	0.992	11.334	1.367	11.041	1.185
8/28/2015 20:00	10.063	1.43	13.365	1.049	10.748	1.227	10.846	0.988	11.334	1.369	11.041	1.184
8/28/2015 21:00	10.063	1.43	13.365	1.048	10.748	1.224	10.846	0.984	11.334	1.367	11.041	1.184
8/28/2015 22:00	10.063	1.428	13.365	1.045	10.748	1.224	10.846	0.981	11.334	1.366	11.041	1.183
8/28/2015 23:00	10.063	1.427	13.365	1.045	10.748	1.222	10.846	0.977	11.334	1.363	11.041	1.183
8/29/2015 0:00	10.063	1.43	13.365	1.046	10.748	1.224	10.846	0.977	11.334	1.365	11.041	1.182
8/29/2015 1:00	10.063	1.429	13.365	1.047	10.748	1.225	10.846	0.976	11.334	1.364	11.041	1.184
8/29/2015 2:00	10.063	1.427	13.365	1.046	10.846	1.223	10.846	0.975	11.334	1.365	11.041	1.183
8/29/2015 3:00	10.063	1.43	13.365	1.051	10.846	1.227	10.846	0.977	11.334	1.367	11.041	1.188
8/29/2015 4:00	10.063	1.43	13.365	1.049	10.846	1.226	10.846	0.976	11.334	1.364	11.041	1.186
8/29/2015 5:00	10.063	1.431	13.365	1.051	10.846	1.225	10.846	0.975	11.334	1.367	11.041	1.187
8/29/2015 6:00	10.063	1.434	13.365	1.051	10.846	1.23	10.846	0.978	11.334	1.368	11.041	1.187
8/29/2015 7:00	10.063	1.43	13.365	1.045	10.846	1.226	10.846	0.974	11.334	1.366	11.041	1.185
8/29/2015 8:00	10.063	1.43	13.365	1.047	10.846	1.227	10.846	0.976	11.334	1.365	11.041	1.183
8/29/2015 9:00	10.063	1.429	13.365	1.047	10.846	1.226	10.846	0.974	11.334	1.365	11.041	1.184
8/29/2015 10:00	10.063	1.428	13.365	1.047	10.846	1.225	10.846	0.971	11.334	1.364	11.041	1.183
8/29/2015 11:00	10.063	1.431	13.365	1.047	10.846	1.227	10.846	0.972	11.334	1.366	11.041	1.185
8/29/2015 12:00	10.063	1.43	13.365	1.052	10.846	1.228	10.846	0.973	11.334	1.366	11.041	1.186
8/29/2015 13:00	10.063	1.432	13.365	1.053	10.846	1.226	10.846	0.97	11.334	1.364	11.041	1.184
8/29/2015 14:00	10.063	1.43	13.365	1.048	10.846	1.226	10.846	0.971	11.334	1.365	11.041	1.184
8/29/2015 15:00	10.063	1.432	13.365	1.054	10.846	1.228	10.846	0.97	11.334	1.368	11.041	1.185
8/29/2015 16:00	10.063	1.433	13.365	1.056	10.846	1.229	10.846	0.97	11.334	1.37	11.041	1.187
8/29/2015 17:00	10.063	1.43	13.365	1.047	10.846	1.226	10.846	0.965	11.334	1.367	11.041	1.185
8/29/2015 18:00	10.063	1.435	13.365	1.059	10.846	1.231	10.846	0.968	11.334	1.37	11.041	1.186
8/29/2015 19:00	10.063	1.435	13.365	1.06	10.846	1.231	10.846	0.965	11.334	1.371	11.041	1.189
8/29/2015 20:00	10.063	1.431	13.365	1.054	10.846	1.228	10.846	0.96	11.334	1.369	11.139	1.188
8/29/2015 21:00	10.063	1.431	13.365	1.049	10.846	1.228	10.846	0.96	11.334	1.367	11.041	1.185
8/29/2015 22:00	10.063	1.429	13.365	1.052	10.846	1.225	10.846	0.956	11.334	1.363	11.041	1.182
8/29/2015 23:00	10.063	1.429	13.365	1.049	10.846	1.227	10.846	0.954	11.334	1.366	11.139	1.184
8/30/2015 0:00	10.063	1.428	13.365	1.05	10.846	1.227	10.846	0.954	11.334	1.365	11.139	1.183
8/30/2015 1:00	10.063	1.428	13.365	1.052	10.846	1.224	10.846	0.953	11.334	1.365	11.139	1.182

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
8/30/2015 2:00	10.063	1.428	13.365	1.051	10.846	1.226	10.846	0.951	11.334	1.365	11.139	1.184
8/30/2015 3:00	10.063	1.426	13.365	1.047	10.846	1.223	10.846	0.948	11.334	1.364	11.139	1.181
8/30/2015 4:00	10.063	1.428	13.365	1.054	10.846	1.226	10.944	0.952	11.334	1.365	11.139	1.184
8/30/2015 5:00	10.063	1.428	13.365	1.053	10.846	1.225	10.944	0.952	11.334	1.366	11.139	1.185
8/30/2015 6:00	10.063	1.427	13.365	1.053	10.846	1.224	10.944	0.951	11.431	1.368	11.139	1.184
8/30/2015 7:00	10.063	1.426	13.365	1.05	10.846	1.225	10.944	0.953	11.431	1.367	11.139	1.185
8/30/2015 8:00	10.063	1.427	13.365	1.046	10.846	1.225	10.944	0.951	11.431	1.366	11.139	1.183
8/30/2015 9:00	10.063	1.424	13.365	1.043	10.846	1.221	10.944	0.949	11.431	1.362	11.139	1.181
8/30/2015 10:00	10.063	1.424	13.365	1.043	10.846	1.222	10.944	0.95	11.431	1.363	11.139	1.183
8/30/2015 11:00	10.063	1.424	13.365	1.044	10.846	1.222	10.944	0.949	11.431	1.363	11.139	1.181
8/30/2015 12:00	10.063	1.425	13.365	1.048	10.846	1.223	10.944	0.95	11.431	1.364	11.139	1.184
8/30/2015 13:00	10.161	1.425	13.365	1.047	10.846	1.222	10.944	0.949	11.431	1.365	11.139	1.182
8/30/2015 14:00	10.161	1.424	13.365	1.047	10.846	1.222	10.944	0.946	11.431	1.364	11.139	1.183
8/30/2015 15:00	10.161	1.425	13.365	1.049	10.846	1.223	10.944	0.946	11.431	1.365	11.139	1.184
8/30/2015 16:00	10.161	1.423	13.365	1.051	10.846	1.223	10.944	0.943	11.431	1.364	11.139	1.182
8/30/2015 17:00	10.161	1.422	13.365	1.044	10.846	1.221	10.944	0.938	11.431	1.36	11.139	1.181
8/30/2015 18:00	10.161	1.428	13.365	1.055	10.846	1.225	10.944	0.941	11.431	1.365	11.139	1.185
8/30/2015 19:00	10.161	1.424	13.365	1.051	10.846	1.221	10.944	0.937	11.431	1.36	11.139	1.179
8/30/2015 20:00	10.161	1.424	13.365	1.05	10.846	1.221	10.944	0.934	11.431	1.361	11.139	1.181
8/30/2015 21:00	10.161	1.425	13.365	1.051	10.846	1.221	10.944	0.933	11.431	1.363	11.139	1.18
8/30/2015 22:00	10.161	1.424	13.365	1.05	10.846	1.221	10.944	0.931	11.431	1.361	11.139	1.181
8/30/2015 23:00	10.161	1.419	13.365	1.045	10.846	1.219	10.944	0.929	11.431	1.361	11.139	1.178
8/31/2015 0:00	10.161	1.422	13.365	1.048	10.846	1.22	10.944	0.928	11.431	1.361	11.139	1.178
8/31/2015 1:00	10.161	1.421	13.365	1.047	10.846	1.218	10.944	0.925	11.431	1.361	11.139	1.177
8/31/2015 2:00	10.161	1.422	13.365	1.048	10.846	1.22	10.944	0.925	11.431	1.363	11.139	1.183
8/31/2015 3:00	10.161	1.42	13.365	1.042	10.846	1.217	10.944	0.925	11.431	1.363	11.139	1.179
8/31/2015 4:00	10.161	1.42	13.365	1.043	10.846	1.217	10.944	0.924	11.431	1.363	11.139	1.178
8/31/2015 5:00	10.161	1.421	13.365	1.049	10.846	1.217	10.944	0.925	11.431	1.363	11.139	1.179
8/31/2015 6:00	10.161	1.421	13.365	1.044	10.846	1.218	10.944	0.924	11.431	1.362	11.139	1.18
8/31/2015 7:00	10.161	1.419	13.365	1.044	10.846	1.216	10.944	0.923	11.431	1.361	11.139	1.179
8/31/2015 8:00	10.161	1.417	13.365	1.04	10.944	1.213	10.944	0.921	11.431	1.359	11.139	1.175
8/31/2015 9:00	10.161	1.418	13.365	1.042	10.944	1.216	10.944	0.923	11.431	1.361	11.139	1.176
8/31/2015 10:00	10.161	1.419	13.365	1.045	10.944	1.215	10.944	0.922	11.431	1.361	11.139	1.178
8/31/2015 11:00	10.161	1.417	13.365	1.043	10.944	1.216	10.944	0.92	11.431	1.361	11.139	1.177
8/31/2015 12:00	10.161	1.418	13.365	1.044	10.944	1.217	10.944	0.922	11.431	1.361	11.139	1.177
8/31/2015 13:00	10.161	1.417	13.365	1.046	10.944	1.214	10.944	0.92	11.431	1.361	11.139	1.177
8/31/2015 14:00	10.161	1.42	13.365	1.047	10.944	1.217	10.944	0.922	11.431	1.364	11.139	1.18
8/31/2015 15:00	10.161	1.42	13.365	1.047	10.944	1.214	10.944	0.919	11.431	1.362	11.139	1.178
8/31/2015 16:00	10.161	1.42	13.365	1.049	10.944	1.218	10.944	0.92	11.431	1.363	11.139	1.18
8/31/2015 17:00	10.161	1.418	13.365	1.046	10.944	1.216	10.944	0.914	11.431	1.361	11.139	1.179
8/31/2015 18:00	10.161	1.418	13.365	1.049	10.944	1.216	10.944	0.915	11.431	1.362	11.139	1.178
8/31/2015 19:00	10.161	1.42	13.365	1.045	10.944	1.214	10.944	0.913	11.431	1.362	11.139	1.178
8/31/2015 20:00	10.161	1.416	13.461	1.043	10.944	1.213	10.944	0.911	11.431	1.359	11.139	1.178
8/31/2015 21:00	10.161	1.418	13.461	1.044	10.944	1.212	10.944	0.908	11.431	1.358	11.139	1.179
8/31/2015 22:00	10.161	1.417	13.461	1.044	10.944	1.212	10.944	0.907	11.431	1.358	11.236	1.18
8/31/2015 23:00	10.161	1.416	13.461	1.041	10.944	1.211	10.944	0.903	11.431	1.357	11.236	1.177
9/1/2015 0:00	10.161	1.414	13.461	1.044	10.944	1.211	10.944	0.904	11.528	1.358	11.236	1.176

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/1/2015 1:00	10.161	1.416	13.461	1.046	10.944	1.213	10.944	0.904	11.528	1.36	11.236	1.179
9/1/2015 2:00	10.161	1.413	13.461	1.041	10.944	1.207	10.944	0.902	11.528	1.356	11.236	1.175
9/1/2015 3:00	10.161	1.41	13.461	1.042	10.944	1.208	10.944	0.899	11.528	1.355	11.236	1.173
9/1/2015 4:00	10.161	1.416	13.461	1.043	10.944	1.211	10.944	0.904	11.528	1.357	11.236	1.177
9/1/2015 5:00	10.161	1.416	13.461	1.042	10.944	1.212	10.944	0.903	11.528	1.359	11.236	1.178
9/1/2015 6:00	10.161	1.415	13.461	1.043	10.944	1.209	11.041	0.903	11.528	1.356	11.236	1.177
9/1/2015 7:00	10.161	1.416	13.461	1.039	10.944	1.208	10.944	0.903	11.528	1.356	11.236	1.176
9/1/2015 8:00	10.161	1.415	13.461	1.041	10.944	1.208	10.944	0.902	11.528	1.357	11.236	1.176
9/1/2015 9:00	10.161	1.413	13.461	1.04	10.944	1.206	11.041	0.901	11.528	1.354	11.236	1.176
9/1/2015 10:00	10.161	1.412	13.461	1.039	10.944	1.207	11.041	0.899	11.528	1.356	11.236	1.174
9/1/2015 11:00	10.161	1.412	13.461	1.037	10.944	1.204	11.041	0.897	11.528	1.354	11.236	1.173
9/1/2015 12:00	10.161	1.412	13.461	1.038	10.944	1.205	11.041	0.896	11.528	1.356	11.236	1.173
9/1/2015 13:00	10.161	1.411	13.461	1.038	10.944	1.205	11.041	0.896	11.528	1.353	11.236	1.172
9/1/2015 14:00	10.161	1.41	13.461	1.04	10.944	1.204	11.041	0.896	11.528	1.353	11.236	1.171
9/1/2015 15:00	10.161	1.409	13.461	1.04	10.944	1.203	11.041	0.892	11.528	1.353	11.236	1.171
9/1/2015 16:00	10.161	1.409	13.461	1.04	10.944	1.204	11.041	0.891	11.528	1.353	11.236	1.171
9/1/2015 17:00	10.161	1.409	13.461	1.043	10.944	1.202	11.041	0.888	11.528	1.352	11.236	1.172
9/1/2015 18:00	10.259	1.413	13.461	1.051	10.944	1.207	11.041	0.893	11.528	1.358	11.236	1.176
9/1/2015 19:00	10.259	1.412	13.461	1.03	10.944	1.203	11.041	0.889	11.528	1.356	11.236	1.175
9/1/2015 20:00	10.259	1.41	13.461	1.034	10.944	1.2	11.041	0.883	11.528	1.353	11.236	1.172
9/1/2015 21:00	10.259	1.41	13.461	1.037	10.944	1.201	11.041	0.881	11.528	1.355	11.236	1.171
9/1/2015 22:00	10.259	1.409	13.461	1.037	10.944	1.203	11.041	0.885	11.528	1.354	11.236	1.173
9/1/2015 23:00	10.259	1.41	13.461	1.04	10.944	1.202	11.041	0.882	11.528	1.356	11.236	1.173
9/2/2015 0:00	10.259	1.408	13.461	1.039	10.944	1.2	11.041	0.88	11.528	1.354	11.236	1.172
9/2/2015 1:00	10.259	1.408	13.461	1.041	10.944	1.2	11.041	0.88	11.528	1.353	11.236	1.172
9/2/2015 2:00	10.259	1.407	13.461	1.038	10.944	1.199	11.041	0.879	11.528	1.353	11.236	1.17
9/2/2015 3:00	10.259	1.406	13.461	1.034	10.944	1.195	11.041	0.877	11.528	1.353	11.236	1.171
9/2/2015 4:00	10.259	1.406	13.461	1.031	10.944	1.195	11.041	0.876	11.528	1.353	11.236	1.17
9/2/2015 5:00	10.259	1.405	13.461	1.034	10.944	1.194	11.041	0.877	11.528	1.354	11.236	1.169
9/2/2015 6:00	10.259	1.404	13.461	1.032	10.944	1.194	11.041	0.876	11.528	1.351	11.236	1.168
9/2/2015 7:00	10.259	1.403	13.461	1.033	10.944	1.193	11.041	0.877	11.528	1.351	11.236	1.168
9/2/2015 8:00	10.259	1.403	13.461	1.033	10.944	1.193	11.041	0.875	11.528	1.351	11.236	1.168
9/2/2015 9:00	10.259	1.401	13.461	1.032	10.944	1.191	11.041	0.875	11.528	1.349	11.236	1.167
9/2/2015 10:00	10.259	1.401	13.461	1.03	10.944	1.189	11.041	0.877	11.528	1.35	11.236	1.167
9/2/2015 11:00	10.259	1.401	13.461	1.031	11.041	1.19	11.041	0.877	11.528	1.349	11.236	1.166
9/2/2015 12:00	10.259	1.403	13.461	1.032	11.041	1.19	11.041	0.878	11.528	1.352	11.236	1.166
9/2/2015 13:00	10.259	1.399	13.461	1.03	11.041	1.187	11.041	0.876	11.528	1.351	11.236	1.165
9/2/2015 14:00	10.259	1.399	13.461	1.031	11.041	1.188	11.041	0.876	11.528	1.351	11.236	1.164
9/2/2015 15:00	10.259	1.399	13.461	1.031	11.041	1.188	11.041	0.875	11.528	1.353	11.236	1.166
9/2/2015 16:00	10.259	1.399	13.461	1.033	11.041	1.188	11.041	0.874	11.528	1.352	11.236	1.164
9/2/2015 17:00	10.259	1.397	13.461	1.032	11.041	1.184	11.041	0.87	11.528	1.349	11.236	1.164
9/2/2015 18:00	10.259	1.397	13.461	1.036	11.041	1.186	11.041	0.872	11.528	1.351	11.236	1.165
9/2/2015 19:00	10.259	1.396	13.461	1.032	11.041	1.186	11.041	0.87	11.528	1.349	11.236	1.164
9/2/2015 20:00	10.259	1.397	13.461	1.032	11.041	1.184	11.041	0.868	11.528	1.35	11.236	1.165
9/2/2015 21:00	10.259	1.396	13.461	1.031	11.041	1.183	11.041	0.868	11.528	1.35	11.236	1.164
9/2/2015 22:00	10.259	1.394	13.461	1.031	11.041	1.18	11.041	0.866	11.528	1.348	11.236	1.163
9/2/2015 23:00	10.259	1.392	13.461	1.024	11.041	1.179	11.041	0.864	11.528	1.346	11.236	1.162

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/3/2015 0:00	10.259	1.395	13.461	1.033	11.041	1.184	11.041	0.868	11.528	1.349	11.236	1.164
9/3/2015 1:00	10.259	1.395	13.461	1.02	11.041	1.18	11.041	0.866	11.528	1.348	11.334	1.164
9/3/2015 2:00	10.259	1.395	13.461	1.029	11.041	1.179	11.041	0.867	11.528	1.352	11.236	1.164
9/3/2015 3:00	10.259	1.392	13.461	1.021	11.041	1.179	11.041	0.867	11.528	1.35	11.334	1.164
9/3/2015 4:00	10.259	1.392	13.461	1.026	11.041	1.179	11.041	0.866	11.528	1.351	11.334	1.163
9/3/2015 5:00	10.259	1.392	13.461	1.029	11.041	1.178	11.041	0.864	11.528	1.351	11.334	1.163
9/3/2015 6:00	10.259	1.393	13.461	1.027	11.041	1.177	11.041	0.862	11.528	1.351	11.334	1.163
9/3/2015 7:00	10.259	1.392	13.461	1.024	11.041	1.178	11.041	0.864	11.528	1.351	11.334	1.163
9/3/2015 8:00	10.259	1.391	13.461	1.024	11.041	1.176	11.041	0.864	11.528	1.35	11.334	1.163
9/3/2015 9:00	10.259	1.393	13.461	1.026	11.041	1.176	11.041	0.866	11.528	1.349	11.334	1.164
9/3/2015 10:00	10.259	1.391	13.461	1.027	11.041	1.174	11.041	0.865	11.528	1.347	11.334	1.163
9/3/2015 11:00	10.259	1.39	13.461	1.025	11.041	1.173	11.041	0.863	11.528	1.349	11.334	1.162
9/3/2015 12:00	10.259	1.389	13.461	1.027	11.041	1.172	11.139	0.862	11.625	1.347	11.334	1.162
9/3/2015 13:00	10.259	1.389	13.461	1.023	11.041	1.172	11.139	0.862	11.625	1.348	11.334	1.163
9/3/2015 14:00	10.259	1.391	13.461	1.026	11.041	1.172	11.139	0.862	11.625	1.349	11.334	1.162
9/3/2015 15:00	10.259	1.391	13.461	1.028	11.041	1.173	11.139	0.863	11.625	1.347	11.334	1.163
9/3/2015 16:00	10.259	1.392	13.461	1.031	11.041	1.173	11.139	0.862	11.625	1.351	11.334	1.162
9/3/2015 17:00	10.259	1.387	13.461	1.022	11.041	1.169	11.139	0.859	11.625	1.346	11.334	1.161
9/3/2015 18:00	10.259	1.392	13.461	1.029	11.041	1.172	11.139	0.862	11.625	1.351	11.334	1.164
9/3/2015 19:00	10.259	1.391	13.461	1.023	11.041	1.17	11.139	0.86	11.625	1.351	11.334	1.163
9/3/2015 20:00	10.259	1.39	13.461	1.026	11.041	1.172	11.139	0.859	11.625	1.351	11.334	1.162
9/3/2015 21:00	10.259	1.392	13.461	1.028	11.041	1.173	11.139	0.857	11.625	1.349	11.334	1.164
9/3/2015 22:00	10.259	1.395	13.461	1.03	11.041	1.175	11.139	0.861	11.625	1.352	11.334	1.169
9/3/2015 23:00	10.357	1.395	13.461	1.035	11.041	1.177	11.139	0.863	11.625	1.354	11.334	1.167
9/4/2015 0:00	10.357	1.396	13.461	1.032	11.041	1.175	11.139	0.859	11.625	1.354	11.334	1.168
9/4/2015 1:00	10.357	1.394	13.461	1.031	11.041	1.173	11.139	0.86	11.625	1.353	11.334	1.168
9/4/2015 2:00	10.357	1.396	13.461	1.032	11.041	1.172	11.139	0.86	11.625	1.353	11.334	1.168
9/4/2015 3:00	10.357	1.396	13.461	1.035	11.041	1.173	11.139	0.86	11.625	1.354	11.334	1.169
9/4/2015 4:00	10.357	1.395	13.461	1.031	11.041	1.168	11.139	0.857	11.625	1.352	11.334	1.167
9/4/2015 5:00	10.357	1.392	13.461	1.033	11.041	1.17	11.139	0.859	11.625	1.351	11.334	1.167
9/4/2015 6:00	10.357	1.392	13.461	1.031	11.041	1.168	11.139	0.859	11.625	1.351	11.334	1.167
9/4/2015 7:00	10.357	1.394	13.461	1.025	11.041	1.168	11.139	0.857	11.625	1.351	11.334	1.164
9/4/2015 8:00	10.357	1.39	13.461	1.022	11.041	1.166	11.139	0.856	11.625	1.347	11.334	1.164
9/4/2015 9:00	10.357	1.391	13.461	1.026	11.041	1.164	11.139	0.856	11.625	1.347	11.334	1.164
9/4/2015 10:00	10.357	1.39	13.461	1.019	11.041	1.163	11.139	0.853	11.625	1.347	11.334	1.161
9/4/2015 11:00	10.357	1.389	13.461	1.019	11.041	1.161	11.139	0.851	11.625	1.345	11.334	1.16
9/4/2015 12:00	10.357	1.385	13.461	1.019	11.041	1.159	11.139	0.85	11.625	1.345	11.334	1.158
9/4/2015 13:00	10.357	1.386	13.461	1.02	11.041	1.158	11.139	0.851	11.625	1.344	11.334	1.159
9/4/2015 14:00	10.357	1.387	13.461	1.024	11.041	1.159	11.139	0.851	11.625	1.347	11.334	1.16
9/4/2015 15:00	10.357	1.386	13.461	1.026	11.041	1.158	11.139	0.851	11.625	1.347	11.334	1.159
9/4/2015 16:00	10.357	1.386	13.461	1.029	11.041	1.157	11.139	0.852	11.625	1.349	11.334	1.159
9/4/2015 17:00	10.357	1.386	13.461	1.028	11.041	1.156	11.139	0.848	11.625	1.345	11.334	1.157
9/4/2015 18:00	10.357	1.393	13.461	1.034	11.041	1.161	11.139	0.854	11.625	1.352	11.334	1.165
9/4/2015 19:00	10.357	1.387	13.461	1.027	11.041	1.157	11.139	0.852	11.625	1.349	11.334	1.161
9/4/2015 20:00	10.357	1.389	13.461	1.028	11.041	1.159	11.139	0.851	11.625	1.351	11.334	1.163
9/4/2015 21:00	10.357	1.388	13.461	1.018	11.041	1.159	11.139	0.849	11.625	1.348	11.334	1.162
9/4/2015 22:00	10.357	1.387	13.461	1.022	11.041	1.159	11.139	0.847	11.625	1.351	11.334	1.162

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/4/2015 23:00	10.357	1.386	13.461	1.026	11.139	1.155	11.139	0.846	11.625	1.349	11.334	1.16
9/5/2015 0:00	10.357	1.388	13.461	1.026	11.139	1.158	11.139	0.846	11.625	1.351	11.334	1.163
9/5/2015 1:00	10.357	1.387	13.461	1.029	11.139	1.156	11.139	0.845	11.625	1.35	11.334	1.162
9/5/2015 2:00	10.357	1.388	13.461	1.026	11.139	1.157	11.139	0.846	11.625	1.35	11.334	1.162
9/5/2015 3:00	10.357	1.386	13.461	1.023	11.139	1.155	11.139	0.844	11.625	1.35	11.334	1.162
9/5/2015 4:00	10.357	1.385	13.461	1.023	11.139	1.155	11.139	0.843	11.625	1.351	11.334	1.161
9/5/2015 5:00	10.357	1.385	13.461	1.024	11.139	1.153	11.139	0.846	11.625	1.35	11.334	1.161
9/5/2015 6:00	10.357	1.384	13.461	1.024	11.139	1.152	11.139	0.842	11.625	1.35	11.334	1.16
9/5/2015 7:00	10.357	1.383	13.461	1.017	11.139	1.149	11.139	0.841	11.625	1.349	11.431	1.158
9/5/2015 8:00	10.357	1.381	13.461	1.017	11.139	1.148	11.139	0.841	11.625	1.347	11.431	1.16
9/5/2015 9:00	10.357	1.378	13.461	1.013	11.139	1.147	11.139	0.838	11.625	1.343	11.431	1.155
9/5/2015 10:00	10.357	1.378	13.461	1.012	11.139	1.144	11.139	0.838	11.625	1.344	11.431	1.155
9/5/2015 11:00	10.357	1.378	13.461	1.008	11.139	1.143	11.139	0.838	11.625	1.346	11.431	1.155
9/5/2015 12:00	10.357	1.378	13.461	1.011	11.139	1.143	11.139	0.837	11.625	1.348	11.431	1.154
9/5/2015 13:00	10.357	1.377	13.461	1.013	11.139	1.14	11.139	0.837	11.625	1.345	11.431	1.154
9/5/2015 14:00	10.357	1.374	13.461	1.014	11.139	1.139	11.139	0.838	11.625	1.345	11.431	1.153
9/5/2015 15:00	10.357	1.376	13.461	1.016	11.139	1.14	11.139	0.837	11.625	1.345	11.431	1.155
9/5/2015 16:00	10.357	1.376	13.461	1.009	11.139	1.141	11.139	0.835	11.625	1.343	11.431	1.152
9/5/2015 17:00	10.357	1.373	13.461	1.015	11.139	1.137	11.139	0.836	11.625	1.345	11.431	1.152
9/5/2015 18:00	10.357	1.378	13.461	1.018	11.139	1.14	11.139	0.838	11.625	1.347	11.431	1.155
9/5/2015 19:00	10.357	1.376	13.461	1.018	11.139	1.139	11.139	0.835	11.625	1.348	11.431	1.153
9/5/2015 20:00	10.357	1.374	13.461	1.013	11.139	1.136	11.139	0.835	11.625	1.345	11.431	1.151
9/5/2015 21:00	10.357	1.373	13.461	1.013	11.139	1.134	11.139	0.831	11.625	1.343	11.431	1.152
9/5/2015 22:00	10.357	1.372	13.461	1.011	11.139	1.132	11.139	0.833	11.625	1.343	11.431	1.151
9/5/2015 23:00	10.357	1.374	13.461	1.013	11.139	1.133	11.236	0.831	11.625	1.344	11.431	1.151
9/6/2015 0:00	10.357	1.372	13.461	1.014	11.139	1.132	11.139	0.831	11.625	1.343	11.431	1.151
9/6/2015 1:00	10.357	1.37	13.461	1.011	11.139	1.13	11.236	0.829	11.625	1.342	11.431	1.149
9/6/2015 2:00	10.357	1.372	13.461	1.013	11.139	1.129	11.236	0.831	11.625	1.343	11.431	1.15
9/6/2015 3:00	10.357	1.373	13.461	1.015	11.139	1.13	11.236	0.83	11.625	1.343	11.431	1.152
9/6/2015 4:00	10.357	1.373	13.461	1.009	11.139	1.132	11.236	0.833	11.625	1.347	11.431	1.155
9/6/2015 5:00	10.357	1.374	13.461	1.013	11.139	1.132	11.236	0.833	11.625	1.349	11.431	1.154
9/6/2015 6:00	10.357	1.376	13.461	1.015	11.139	1.131	11.236	0.833	11.625	1.347	11.431	1.155
9/6/2015 7:00	10.357	1.373	13.461	1.011	11.139	1.13	11.236	0.832	11.625	1.346	11.431	1.152
9/6/2015 8:00	10.357	1.373	13.461	1.007	11.139	1.127	11.236	0.831	11.625	1.346	11.431	1.153
9/6/2015 9:00	10.357	1.371	13.461	1.005	11.139	1.124	11.236	0.829	11.625	1.341	11.431	1.149
9/6/2015 10:00	10.357	1.372	13.461	1.006	11.139	1.125	11.236	0.828	11.625	1.343	11.431	1.15
9/6/2015 11:00	10.357	1.373	13.461	1.007	11.139	1.128	11.236	0.829	11.625	1.343	11.431	1.154
9/6/2015 12:00	10.455	1.371	13.461	1.007	11.139	1.122	11.236	0.827	11.625	1.342	11.431	1.151
9/6/2015 13:00	10.455	1.372	13.461	1.006	11.139	1.121	11.236	0.826	11.625	1.341	11.431	1.15
9/6/2015 14:00	10.455	1.37	13.461	1.009	11.139	1.123	11.236	0.825	11.722	1.343	11.431	1.148
9/6/2015 15:00	10.455	1.37	13.461	1.009	11.139	1.12	11.236	0.824	11.722	1.344	11.431	1.151
9/6/2015 16:00	10.455	1.375	13.461	1.013	11.139	1.124	11.236	0.828	11.722	1.345	11.431	1.152
9/6/2015 17:00	10.455	1.368	13.461	1.007	11.139	1.119	11.236	0.824	11.722	1.338	11.431	1.148
9/6/2015 18:00	10.455	1.371	13.461	1.012	11.139	1.12	11.236	0.824	11.722	1.343	11.431	1.15
9/6/2015 19:00	10.455	1.37	13.461	1.008	11.139	1.119	11.236	0.824	11.722	1.343	11.431	1.148
9/6/2015 20:00	10.455	1.368	13.461	1.007	11.139	1.119	11.236	0.824	11.722	1.341	11.431	1.146
9/6/2015 21:00	10.455	1.369	13.461	1.007	11.139	1.116	11.236	0.821	11.722	1.34	11.431	1.146

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/6/2015 22:00	10.455	1.368	13.461	1.007	11.139	1.114	11.236	0.823	11.722	1.338	11.431	1.145
9/6/2015 23:00	10.455	1.366	13.461	1.003	11.139	1.113	11.236	0.82	11.722	1.339	11.431	1.146
9/7/2015 0:00	10.455	1.369	13.461	1.006	11.139	1.113	11.236	0.822	11.722	1.341	11.431	1.145
9/7/2015 1:00	10.455	1.369	13.461	1.007	11.139	1.113	11.236	0.821	11.722	1.34	11.431	1.147
9/7/2015 2:00	10.455	1.368	13.461	1.009	11.139	1.114	11.236	0.821	11.722	1.343	11.431	1.15
9/7/2015 3:00	10.455	1.369	13.461	1.004	11.139	1.115	11.236	0.821	11.722	1.341	11.431	1.148
9/7/2015 4:00	10.455	1.368	13.461	1.007	11.139	1.11	11.236	0.819	11.722	1.34	11.431	1.146
9/7/2015 5:00	10.455	1.367	13.461	1.006	11.139	1.109	11.236	0.82	11.722	1.343	11.431	1.147
9/7/2015 6:00	10.455	1.366	13.461	1.007	11.139	1.111	11.236	0.818	11.722	1.341	11.431	1.147
9/7/2015 7:00	10.455	1.362	13.461	1.003	11.139	1.108	11.236	0.817	11.722	1.338	11.431	1.142
9/7/2015 8:00	10.455	1.363	13.461	1.003	11.139	1.103	11.236	0.813	11.722	1.336	11.431	1.142
9/7/2015 9:00	10.455	1.362	13.461	1.001	11.139	1.103	11.236	0.815	11.722	1.338	11.431	1.143
9/7/2015 10:00	10.455	1.363	13.461	1.001	11.139	1.103	11.236	0.815	11.722	1.338	11.431	1.145
9/7/2015 11:00	10.455	1.362	13.461	0.999	11.139	1.103	11.236	0.812	11.722	1.335	11.431	1.142
9/7/2015 12:00	10.455	1.364	13.461	1.001	11.139	1.103	11.236	0.816	11.722	1.336	11.431	1.143
9/7/2015 13:00	10.455	1.366	13.461	1.003	11.139	1.103	11.236	0.815	11.722	1.338	11.431	1.143
9/7/2015 14:00	10.455	1.364	13.461	1.004	11.236	1.103	11.236	0.812	11.722	1.338	11.528	1.144
9/7/2015 15:00	10.455	1.362	13.461	0.997	11.236	1.101	11.236	0.812	11.722	1.338	11.528	1.144
9/7/2015 16:00	10.455	1.362	13.461	1.001	11.236	1.101	11.236	0.81	11.722	1.337	11.528	1.143
9/7/2015 17:00	10.455	1.364	13.461	1.003	11.236	1.101	11.236	0.81	11.722	1.337	11.528	1.142
9/7/2015 18:00	10.455	1.365	13.461	1.003	11.236	1.101	11.236	0.813	11.722	1.34	11.528	1.145
9/7/2015 19:00	10.455	1.363	13.461	1.004	11.236	1.099	11.236	0.81	11.722	1.34	11.528	1.144
9/7/2015 20:00	10.455	1.362	13.461	0.999	11.236	1.098	11.236	0.807	11.722	1.338	11.528	1.143
9/7/2015 21:00	10.455	1.361	13.461	0.994	11.236	1.097	11.236	0.807	11.722	1.337	11.528	1.142
9/7/2015 22:00	10.455	1.361	13.461	0.997	11.236	1.095	11.236	0.807	11.722	1.336	11.528	1.141
9/7/2015 23:00	10.455	1.357	13.461	0.995	11.236	1.093	11.236	0.804	11.722	1.337	11.528	1.14
9/8/2015 0:00	10.455	1.359	13.461	0.997	11.236	1.094	11.236	0.805	11.722	1.335	11.528	1.14
9/8/2015 1:00	10.455	1.357	13.461	0.994	11.236	1.092	11.236	0.801	11.722	1.334	11.528	1.138
9/8/2015 2:00	10.455	1.358	13.461	0.997	11.236	1.093	11.236	0.803	11.722	1.336	11.528	1.139
9/8/2015 3:00	10.455	1.359	13.461	0.995	11.236	1.093	11.236	0.805	11.722	1.337	11.528	1.14
9/8/2015 4:00	10.455	1.356	13.461	0.989	11.236	1.09	11.236	0.8	11.722	1.334	11.528	1.138
9/8/2015 5:00	10.455	1.358	13.461	0.985	11.236	1.089	11.236	0.8	11.722	1.337	11.528	1.14
9/8/2015 6:00	10.455	1.357	13.461	0.988	11.236	1.088	11.236	0.8	11.722	1.334	11.528	1.138
9/8/2015 7:00	10.455	1.355	13.461	0.988	11.236	1.088	11.236	0.802	11.722	1.335	11.528	1.138
9/8/2015 8:00	10.455	1.355	13.461	0.988	11.236	1.087	11.236	0.798	11.722	1.333	11.528	1.137
9/8/2015 9:00	10.455	1.356	13.461	0.987	11.236	1.084	11.236	0.798	11.722	1.333	11.528	1.138
9/8/2015 10:00	10.455	1.355	13.461	0.976	11.236	1.086	11.236	0.799	11.722	1.333	11.528	1.138
9/8/2015 11:00	10.455	1.356	13.461	0.981	11.236	1.085	11.236	0.797	11.722	1.334	11.528	1.138
9/8/2015 12:00	10.455	1.357	13.461	0.991	11.236	1.086	11.236	0.797	11.722	1.334	11.528	1.141
9/8/2015 13:00	10.455	1.356	13.461	0.974	11.236	1.084	11.334	0.797	11.722	1.334	11.528	1.139
9/8/2015 14:00	10.455	1.356	13.461	0.989	11.236	1.083	11.236	0.796	11.722	1.334	11.528	1.138
9/8/2015 15:00	10.455	1.354	13.461	0.993	11.236	1.081	11.334	0.795	11.722	1.334	11.528	1.138
9/8/2015 16:00	10.455	1.355	13.461	0.99	11.236	1.08	11.334	0.793	11.722	1.335	11.528	1.137
9/8/2015 17:00	10.455	1.355	13.461	0.987	11.236	1.08	11.334	0.794	11.722	1.335	11.528	1.138
9/8/2015 18:00	10.455	1.357	13.461	0.99	11.236	1.081	11.334	0.795	11.722	1.336	11.528	1.139
9/8/2015 19:00	10.455	1.356	13.461	0.986	11.236	1.08	11.334	0.794	11.722	1.335	11.528	1.137
9/8/2015 20:00	10.455	1.361	13.461	0.993	11.236	1.083	11.334	0.796	11.722	1.338	11.528	1.142

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/8/2015 21:00	10.455	1.363	13.461	0.994	11.236	1.089	11.334	0.799	11.722	1.343	11.528	1.144
9/8/2015 22:00	10.455	1.362	13.461	0.995	11.236	1.084	11.334	0.796	11.722	1.341	11.528	1.143
9/8/2015 23:00	10.455	1.362	13.461	0.996	11.236	1.084	11.334	0.798	11.722	1.339	11.528	1.144
9/9/2015 0:00	10.455	1.363	13.461	0.998	11.236	1.084	11.334	0.801	11.722	1.342	11.528	1.145
9/9/2015 1:00	10.455	1.359	13.461	0.996	11.236	1.083	11.334	0.796	11.722	1.341	11.528	1.143
9/9/2015 2:00	10.455	1.362	13.461	0.982	11.236	1.084	11.334	0.797	11.722	1.341	11.528	1.146
9/9/2015 3:00	10.455	1.36	13.461	0.981	11.236	1.082	11.334	0.796	11.722	1.339	11.528	1.141
9/9/2015 4:00	10.455	1.358	13.461	0.987	11.236	1.074	11.334	0.793	11.722	1.337	11.528	1.141
9/9/2015 5:00	10.553	1.357	13.461	0.985	11.236	1.077	11.334	0.791	11.722	1.337	11.528	1.14
9/9/2015 6:00	10.455	1.352	13.461	0.975	11.236	1.07	11.334	0.786	11.722	1.332	11.528	1.133
9/9/2015 7:00	10.553	1.356	13.461	0.985	11.236	1.072	11.334	0.792	11.722	1.335	11.528	1.137
9/9/2015 8:00	10.553	1.355	13.461	0.985	11.236	1.07	11.334	0.79	11.722	1.333	11.528	1.133
9/9/2015 9:00	10.553	1.354	13.461	0.984	11.236	1.073	11.334	0.789	11.722	1.337	11.528	1.135
9/9/2015 10:00	10.553	1.354	13.461	0.986	11.236	1.071	11.334	0.791	11.722	1.334	11.528	1.135
9/9/2015 11:00	10.553	1.356	13.461	0.983	11.236	1.071	11.334	0.792	11.722	1.334	11.528	1.135
9/9/2015 12:00	10.553	1.355	13.461	0.981	11.236	1.07	11.334	0.792	11.722	1.335	11.528	1.136
9/9/2015 13:00	10.553	1.353	13.461	0.971	11.236	1.067	11.334	0.788	11.722	1.334	11.528	1.133
9/9/2015 14:00	10.553	1.352	13.461	0.979	11.236	1.068	11.334	0.791	11.722	1.336	11.528	1.135
9/9/2015 15:00	10.553	1.353	13.461	0.982	11.236	1.063	11.334	0.789	11.722	1.333	11.528	1.134
9/9/2015 16:00	10.553	1.354	13.461	0.987	11.236	1.067	11.334	0.792	11.722	1.337	11.528	1.135
9/9/2015 17:00	10.553	1.354	13.461	0.988	11.236	1.066	11.334	0.791	11.722	1.334	11.528	1.134
9/9/2015 18:00	10.553	1.358	13.461	0.978	11.236	1.066	11.334	0.795	11.722	1.337	11.528	1.138
9/9/2015 19:00	10.553	1.359	13.461	0.982	11.236	1.069	11.334	0.792	11.722	1.339	11.528	1.138
9/9/2015 20:00	10.553	1.355	13.461	0.983	11.236	1.068	11.334	0.791	11.722	1.336	11.528	1.137
9/9/2015 21:00	10.553	1.355	13.461	0.981	11.236	1.062	11.334	0.787	11.722	1.335	11.528	1.135
9/9/2015 22:00	10.553	1.355	13.461	0.984	11.236	1.066	11.334	0.79	11.722	1.336	11.528	1.136
9/9/2015 23:00	10.553	1.355	13.461	0.986	11.236	1.064	11.334	0.788	11.722	1.337	11.528	1.137
9/10/2015 0:00	10.553	1.351	13.461	0.984	11.236	1.058	11.334	0.786	11.722	1.33	11.528	1.131
9/10/2015 1:00	10.553	1.351	13.461	0.984	11.236	1.061	11.334	0.788	11.722	1.333	11.528	1.133
9/10/2015 2:00	10.553	1.352	13.461	0.983	11.236	1.059	11.334	0.785	11.722	1.332	11.528	1.132
9/10/2015 3:00	10.553	1.352	13.461	0.983	11.236	1.059	11.334	0.788	11.722	1.333	11.528	1.134
9/10/2015 4:00	10.553	1.354	13.461	0.981	11.236	1.059	11.334	0.788	11.722	1.332	11.528	1.135
9/10/2015 5:00	10.553	1.355	13.461	0.983	11.236	1.059	11.334	0.788	11.722	1.334	11.528	1.135
9/10/2015 6:00	10.553	1.355	13.461	0.98	11.236	1.06	11.334	0.787	11.722	1.334	11.625	1.135
9/10/2015 7:00	10.553	1.355	13.461	0.978	11.236	1.06	11.334	0.788	11.722	1.336	11.625	1.135
9/10/2015 8:00	10.553	1.356	13.461	0.979	11.236	1.059	11.334	0.786	11.722	1.334	11.625	1.135
9/10/2015 9:00	10.553	1.356	13.461	0.981	11.236	1.058	11.334	0.787	11.722	1.334	11.625	1.134
9/10/2015 10:00	10.553	1.357	13.461	0.982	11.236	1.058	11.334	0.786	11.722	1.336	11.625	1.135
9/10/2015 11:00	10.553	1.352	13.461	0.977	11.236	1.054	11.334	0.782	11.722	1.334	11.625	1.133
9/10/2015 12:00	10.553	1.354	13.461	0.985	11.236	1.054	11.334	0.784	11.722	1.336	11.625	1.134
9/10/2015 13:00	10.553	1.357	13.461	0.983	11.236	1.056	11.334	0.784	11.722	1.335	11.625	1.137
9/10/2015 14:00	10.553	1.357	13.461	0.987	11.236	1.056	11.334	0.786	11.722	1.336	11.625	1.135
9/10/2015 15:00	10.553	1.355	13.461	0.98	11.236	1.053	11.334	0.783	11.722	1.333	11.625	1.131
9/10/2015 16:00	10.553	1.356	13.461	0.984	11.236	1.052	11.334	0.783	11.819	1.336	11.625	1.134
9/10/2015 17:00	10.553	1.357	13.461	0.98	11.236	1.052	11.334	0.782	11.722	1.336	11.625	1.134
9/10/2015 18:00	10.553	1.357	13.461	0.984	11.236	1.053	11.334	0.78	11.819	1.336	11.625	1.136
9/10/2015 19:00	10.553	1.359	13.461	0.986	11.236	1.053	11.334	0.783	11.819	1.336	11.625	1.135

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/10/2015 20:00	10.553	1.357	13.558	0.982	11.236	1.052	11.334	0.781	11.819	1.336	11.625	1.136
9/10/2015 21:00	10.553	1.357	13.558	0.971	11.334	1.052	11.334	0.779	11.819	1.337	11.625	1.135
9/10/2015 22:00	10.553	1.356	13.558	0.969	11.334	1.052	11.334	0.779	11.819	1.335	11.625	1.133
9/10/2015 23:00	10.553	1.358	13.558	0.979	11.236	1.052	11.334	0.778	11.819	1.336	11.625	1.134
9/11/2015 0:00	10.553	1.358	13.558	0.982	11.334	1.053	11.334	0.78	11.819	1.336	11.625	1.135
9/11/2015 1:00	10.553	1.362	13.558	0.988	11.334	1.053	11.334	0.782	11.819	1.34	11.625	1.138
9/11/2015 2:00	10.553	1.362	13.558	0.974	11.334	1.053	11.334	0.784	11.819	1.341	11.625	1.137
9/11/2015 3:00	10.553	1.362	13.558	0.988	11.334	1.055	11.334	0.786	11.819	1.343	11.625	1.139
9/11/2015 4:00	10.553	1.362	13.558	0.99	11.334	1.052	11.334	0.785	11.819	1.341	11.625	1.137
9/11/2015 5:00	10.553	1.367	13.558	0.997	11.334	1.057	11.334	0.792	11.819	1.346	11.625	1.143
9/11/2015 6:00	10.553	1.366	13.558	0.997	11.334	1.056	11.334	0.794	11.819	1.346	11.625	1.143
9/11/2015 7:00	10.553	1.362	13.558	0.995	11.334	1.053	11.334	0.8	11.819	1.341	11.625	1.138
9/11/2015 8:00	10.553	1.362	13.558	0.996	11.334	1.051	11.334	0.809	11.819	1.34	11.625	1.138
9/11/2015 9:00	10.553	1.364	13.558	0.996	11.334	1.053	11.334	0.83	11.819	1.344	11.625	1.14
9/11/2015 10:00	10.553	1.367	13.558	1.004	11.334	1.054	11.431	0.869	11.819	1.346	11.625	1.142
9/11/2015 11:00	10.553	1.37	13.558	1.011	11.334	1.058	11.431	0.908	11.819	1.352	11.625	1.148
9/11/2015 12:00	10.553	1.369	13.558	1.001	11.334	1.057	11.431	0.941	11.819	1.355	11.625	1.148
9/11/2015 13:00	10.553	1.374	13.558	1.003	11.334	1.063	11.431	0.979	11.819	1.357	11.625	1.157
9/11/2015 14:00	10.553	1.37	13.558	0.998	11.334	1.061	11.431	1	11.819	1.357	11.625	1.154
9/11/2015 15:00	10.553	1.373	13.558	1.001	11.334	1.063	11.431	1.019	11.819	1.359	11.625	1.158
9/11/2015 16:00	10.553	1.377	13.558	1.007	11.334	1.068	11.431	1.037	11.819	1.365	11.625	1.164
9/11/2015 17:00	10.553	1.377	13.558	1.01	11.334	1.067	11.431	1.045	11.819	1.368	11.625	1.164
9/11/2015 18:00	10.553	1.378	13.558	1.015	11.334	1.074	11.431	1.056	11.819	1.372	11.625	1.169
9/11/2015 19:00	10.553	1.381	13.558	1.019	11.334	1.077	11.431	1.062	11.819	1.375	11.625	1.172
9/11/2015 20:00	10.553	1.384	13.558	1.021	11.334	1.078	11.431	1.063	11.819	1.376	11.625	1.176
9/11/2015 21:00	10.553	1.385	13.558	1.023	11.334	1.081	11.431	1.065	11.819	1.379	11.625	1.179
9/11/2015 22:00	10.553	1.39	13.558	1.024	11.334	1.086	11.431	1.069	11.819	1.383	11.625	1.182
9/11/2015 23:00	10.553	1.388	13.558	1.025	11.334	1.089	11.431	1.066	11.819	1.385	11.625	1.181
9/12/2015 0:00	10.553	1.39	13.558	1.025	11.334	1.088	11.431	1.065	11.819	1.387	11.625	1.183
9/12/2015 1:00	10.553	1.393	13.558	1.028	11.334	1.092	11.431	1.066	11.819	1.392	11.625	1.185
9/12/2015 2:00	10.553	1.392	13.558	1.031	11.334	1.096	11.431	1.067	11.819	1.391	11.625	1.184
9/12/2015 3:00	10.553	1.395	13.558	1.027	11.334	1.096	11.431	1.065	11.819	1.395	11.625	1.188
9/12/2015 4:00	10.553	1.397	13.558	1.033	11.334	1.102	11.431	1.065	11.819	1.398	11.625	1.19
9/12/2015 5:00	10.553	1.401	13.558	1.035	11.334	1.103	11.431	1.067	11.819	1.402	11.625	1.192
9/12/2015 6:00	10.553	1.397	13.558	1.034	11.334	1.103	11.431	1.063	11.819	1.399	11.625	1.191
9/12/2015 7:00	10.553	1.404	13.558	1.037	11.334	1.109	11.431	1.066	11.819	1.405	11.625	1.196
9/12/2015 8:00	10.553	1.402	13.558	1.036	11.334	1.109	11.431	1.065	11.819	1.405	11.625	1.195
9/12/2015 9:00	10.553	1.404	13.558	1.035	11.334	1.114	11.431	1.063	11.819	1.409	11.625	1.197
9/12/2015 10:00	10.553	1.406	13.558	1.041	11.334	1.115	11.431	1.063	11.819	1.411	11.625	1.198
9/12/2015 11:00	10.553	1.41	13.558	1.041	11.334	1.118	11.431	1.064	11.819	1.413	11.625	1.201
9/12/2015 12:00	10.553	1.408	13.654	1.038	11.334	1.119	11.431	1.061	11.819	1.414	11.625	1.2
9/12/2015 13:00	10.553	1.409	13.558	1.042	11.334	1.12	11.431	1.058	11.819	1.415	11.625	1.199
9/12/2015 14:00	10.553	1.409	13.654	1.041	11.334	1.122	11.431	1.056	11.819	1.415	11.625	1.201
9/12/2015 15:00	10.553	1.409	13.654	1.052	11.334	1.123	11.431	1.053	11.819	1.415	11.625	1.2
9/12/2015 16:00	10.651	1.408	13.654	1.043	11.334	1.123	11.431	1.05	11.819	1.416	11.722	1.201
9/12/2015 17:00	10.651	1.417	13.654	1.055	11.334	1.131	11.431	1.057	11.819	1.422	11.722	1.208
9/12/2015 18:00	10.651	1.416	13.654	1.016	11.334	1.133	11.431	1.053	11.819	1.422	11.722	1.208

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/12/2015 19:00	10.651	1.417	13.654	1.03	11.334	1.137	11.431	1.052	11.819	1.424	11.722	1.208
9/12/2015 20:00	10.651	1.421	13.654	1.039	11.334	1.141	11.431	1.05	11.819	1.425	11.722	1.21
9/12/2015 21:00	10.651	1.424	13.654	1.043	11.334	1.142	11.431	1.052	11.819	1.428	11.722	1.213
9/12/2015 22:00	10.651	1.422	13.654	1.047	11.334	1.144	11.431	1.05	11.819	1.426	11.722	1.212
9/12/2015 23:00	10.651	1.423	13.654	1.059	11.334	1.145	11.431	1.05	11.819	1.43	11.722	1.215
9/13/2015 0:00	10.651	1.422	13.654	1.042	11.334	1.143	11.431	1.045	11.819	1.424	11.722	1.211
9/13/2015 1:00	10.651	1.424	13.654	1.05	11.334	1.15	11.431	1.047	11.819	1.428	11.722	1.214
9/13/2015 2:00	10.651	1.425	13.654	1.053	11.334	1.151	11.431	1.045	11.819	1.427	11.722	1.211
9/13/2015 3:00	10.651	1.427	13.654	1.057	11.334	1.154	11.431	1.046	11.819	1.429	11.722	1.216
9/13/2015 4:00	10.651	1.427	13.654	1.059	11.334	1.157	11.431	1.048	11.819	1.432	11.722	1.218
9/13/2015 5:00	10.651	1.43	13.654	1.049	11.334	1.156	11.431	1.046	11.819	1.432	11.722	1.217
9/13/2015 6:00	10.651	1.429	13.654	1.06	11.334	1.16	11.431	1.047	11.819	1.432	11.722	1.218
9/13/2015 7:00	10.651	1.429	13.654	1.06	11.334	1.16	11.431	1.045	11.819	1.431	11.722	1.218
9/13/2015 8:00	10.651	1.432	13.654	1.062	11.334	1.164	11.431	1.048	11.819	1.432	11.722	1.22
9/13/2015 9:00	10.651	1.432	13.654	1.058	11.334	1.165	11.431	1.046	11.819	1.431	11.722	1.219
9/13/2015 10:00	10.651	1.432	13.654	1.062	11.334	1.167	11.431	1.046	11.819	1.433	11.722	1.22
9/13/2015 11:00	10.651	1.433	13.654	1.065	11.334	1.17	11.431	1.046	11.819	1.432	11.722	1.221
9/13/2015 12:00	10.651	1.433	13.654	1.061	11.334	1.17	11.431	1.044	11.819	1.432	11.722	1.221
9/13/2015 13:00	10.651	1.436	13.654	1.066	11.334	1.17	11.431	1.045	11.819	1.432	11.722	1.221
9/13/2015 14:00	10.651	1.437	13.654	1.071	11.334	1.174	11.431	1.046	11.819	1.433	11.722	1.221
9/13/2015 15:00	10.651	1.433	13.654	1.066	11.334	1.174	11.431	1.043	11.819	1.43	11.722	1.219
9/13/2015 16:00	10.651	1.434	13.654	1.067	11.431	1.174	11.431	1.042	11.819	1.429	11.722	1.219
9/13/2015 17:00	10.651	1.436	13.654	1.069	11.334	1.176	11.431	1.044	11.819	1.432	11.722	1.22
9/13/2015 18:00	10.651	1.438	13.654	1.071	11.334	1.179	11.431	1.045	11.819	1.435	11.722	1.224
9/13/2015 19:00	10.651	1.439	13.654	1.072	11.431	1.181	11.528	1.047	11.819	1.434	11.722	1.224
9/13/2015 20:00	10.651	1.437	13.654	1.069	11.431	1.183	11.528	1.045	11.819	1.434	11.722	1.221
9/13/2015 21:00	10.651	1.439	13.654	1.066	11.431	1.185	11.528	1.043	11.819	1.434	11.722	1.221
9/13/2015 22:00	10.651	1.443	13.654	1.077	11.431	1.19	11.528	1.047	11.819	1.437	11.722	1.225
9/13/2015 23:00	10.651	1.44	13.654	1.077	11.431	1.188	11.528	1.045	11.819	1.432	11.722	1.223
9/14/2015 0:00	10.651	1.445	13.654	1.081	11.431	1.192	11.528	1.051	11.819	1.436	11.722	1.229
9/14/2015 1:00	10.651	1.442	13.654	1.078	11.431	1.19	11.528	1.058	11.819	1.434	11.722	1.226
9/14/2015 2:00	10.651	1.442	13.654	1.081	11.431	1.192	11.528	1.076	11.819	1.434	11.722	1.223
9/14/2015 3:00	10.651	1.442	13.654	1.076	11.431	1.19	11.528	1.1	11.819	1.434	11.722	1.224
9/14/2015 4:00	10.651	1.439	13.654	1.08	11.431	1.192	11.528	1.126	11.819	1.432	11.722	1.224
9/14/2015 5:00	10.651	1.443	13.654	1.084	11.431	1.194	11.528	1.148	11.819	1.434	11.722	1.227
9/14/2015 6:00	10.651	1.445	13.654	1.082	11.431	1.199	11.528	1.163	11.819	1.438	11.722	1.229
9/14/2015 7:00	10.651	1.447	13.654	1.085	11.431	1.201	11.528	1.171	11.819	1.44	11.722	1.23
9/14/2015 8:00	10.651	1.447	13.654	1.074	11.431	1.203	11.528	1.177	11.819	1.444	11.722	1.231
9/14/2015 9:00	10.651	1.447	13.654	1.075	11.431	1.205	11.528	1.18	11.819	1.444	11.722	1.232
9/14/2015 10:00	10.651	1.452	13.654	1.079	11.431	1.209	11.528	1.184	11.819	1.448	11.722	1.237
9/14/2015 11:00	10.651	1.454	13.654	1.084	11.431	1.212	11.528	1.184	11.819	1.451	11.722	1.239
9/14/2015 12:00	10.651	1.455	13.654	1.085	11.431	1.214	11.528	1.183	11.819	1.451	11.722	1.24
9/14/2015 13:00	10.651	1.459	13.654	1.086	11.431	1.217	11.528	1.184	11.819	1.456	11.722	1.243
9/14/2015 14:00	10.651	1.456	13.654	1.086	11.431	1.215	11.528	1.177	11.916	1.454	11.722	1.24
9/14/2015 15:00	10.651	1.459	13.654	1.092	11.431	1.217	11.528	1.175	11.916	1.455	11.722	1.24
9/14/2015 16:00	10.651	1.462	13.654	1.092	11.431	1.223	11.528	1.174	11.916	1.459	11.722	1.242
9/14/2015 17:00	10.651	1.467	13.558	1.098	11.431	1.228	11.528	1.176	11.916	1.465	11.722	1.25

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/14/2015 18:00	10.651	1.469	13.558	1.098	11.431	1.23	11.528	1.172	11.916	1.467	11.722	1.251
9/14/2015 19:00	10.651	1.467	13.558	1.097	11.431	1.231	11.528	1.168	11.916	1.466	11.722	1.246
9/14/2015 20:00	10.651	1.469	13.558	1.089	11.431	1.232	11.528	1.166	11.916	1.466	11.722	1.248
9/14/2015 21:00	10.651	1.469	13.558	1.094	11.431	1.233	11.528	1.163	11.916	1.466	11.722	1.249
9/14/2015 22:00	10.651	1.47	13.558	1.096	11.431	1.236	11.528	1.162	11.916	1.468	11.819	1.251
9/14/2015 23:00	10.651	1.472	13.558	1.095	11.431	1.238	11.528	1.16	11.916	1.468	11.722	1.25
9/15/2015 0:00	10.651	1.47	13.558	1.095	11.431	1.237	11.528	1.155	11.916	1.468	11.819	1.25
9/15/2015 1:00	10.651	1.477	13.558	1.094	11.431	1.242	11.528	1.157	11.916	1.471	11.819	1.254
9/15/2015 2:00	10.651	1.477	13.558	1.098	11.431	1.245	11.528	1.157	11.916	1.473	11.819	1.257
9/15/2015 3:00	10.651	1.477	13.558	1.096	11.431	1.246	11.528	1.153	11.916	1.469	11.819	1.254
9/15/2015 4:00	10.651	1.476	13.558	1.098	11.431	1.248	11.528	1.15	11.916	1.47	11.819	1.257
9/15/2015 5:00	10.651	1.479	13.558	1.073	11.431	1.251	11.528	1.149	11.916	1.472	11.819	1.258
9/15/2015 6:00	10.651	1.48	13.558	1.083	11.431	1.253	11.528	1.148	11.916	1.473	11.819	1.258
9/15/2015 7:00	10.651	1.477	13.558	1.069	11.431	1.252	11.528	1.143	11.916	1.472	11.819	1.259
9/15/2015 8:00	10.651	1.479	13.558	1.087	11.431	1.253	11.528	1.142	11.916	1.472	11.819	1.258
9/15/2015 9:00	10.651	1.479	13.558	1.091	11.431	1.253	11.528	1.142	11.916	1.473	11.819	1.261
9/15/2015 10:00	10.651	1.48	13.558	1.093	11.431	1.257	11.528	1.143	11.916	1.473	11.819	1.261
9/15/2015 11:00	10.651	1.481	13.558	1.098	11.431	1.259	11.528	1.139	11.916	1.472	11.819	1.261
9/15/2015 12:00	10.651	1.481	13.558	1.091	11.431	1.26	11.528	1.137	11.916	1.473	11.819	1.262
9/15/2015 13:00	10.651	1.483	13.558	1.092	11.431	1.263	11.528	1.138	11.916	1.474	11.819	1.263
9/15/2015 14:00	10.651	1.483	13.558	1.097	11.431	1.262	11.528	1.136	11.916	1.472	11.819	1.261
9/15/2015 15:00	10.651	1.481	13.558	1.101	11.431	1.264	11.528	1.131	11.916	1.471	11.819	1.261
9/15/2015 16:00	10.651	1.485	13.558	1.098	11.431	1.266	11.528	1.129	11.916	1.473	11.819	1.264
9/15/2015 17:00	10.651	1.488	13.558	1.113	11.431	1.272	11.528	1.132	11.916	1.476	11.819	1.267
9/15/2015 18:00	10.651	1.487	13.558	1.112	11.431	1.273	11.528	1.128	11.916	1.475	11.819	1.267
9/15/2015 19:00	10.651	1.488	13.558	1.111	11.431	1.272	11.528	1.126	11.916	1.474	11.819	1.268
9/15/2015 20:00	10.651	1.487	13.558	1.109	11.431	1.272	11.528	1.122	11.916	1.473	11.819	1.267
9/15/2015 21:00	10.651	1.488	13.558	1.106	11.431	1.277	11.528	1.121	11.916	1.473	11.819	1.268
9/15/2015 22:00	10.651	1.49	13.558	1.105	11.431	1.274	11.528	1.119	11.916	1.472	11.819	1.268
9/15/2015 23:00	10.651	1.489	13.558	1.105	11.431	1.276	11.528	1.117	11.916	1.468	11.819	1.265
9/16/2015 0:00	10.651	1.488	13.558	1.107	11.431	1.277	11.528	1.117	11.916	1.469	11.819	1.267
9/16/2015 1:00	10.651	1.488	13.558	1.109	11.431	1.278	11.528	1.115	11.916	1.47	11.819	1.266
9/16/2015 2:00	10.651	1.486	13.558	1.108	11.431	1.28	11.528	1.112	11.916	1.469	11.819	1.266
9/16/2015 3:00	10.651	1.489	13.558	1.108	11.431	1.279	11.528	1.113	11.916	1.468	11.819	1.265
9/16/2015 4:00	10.651	1.489	13.558	1.109	11.431	1.283	11.625	1.114	11.916	1.469	11.819	1.268
9/16/2015 5:00	10.651	1.488	13.558	1.109	11.431	1.281	11.625	1.113	11.916	1.467	11.819	1.269
9/16/2015 6:00	10.651	1.491	13.558	1.111	11.431	1.284	11.625	1.112	11.916	1.469	11.819	1.268
9/16/2015 7:00	10.748	1.491	13.558	1.109	11.431	1.288	11.625	1.113	11.916	1.469	11.819	1.267
9/16/2015 8:00	10.651	1.489	13.558	1.106	11.431	1.285	11.625	1.111	11.916	1.467	11.819	1.266
9/16/2015 9:00	10.748	1.489	13.558	1.106	11.431	1.285	11.625	1.108	11.916	1.464	11.819	1.265
9/16/2015 10:00	10.748	1.489	13.558	1.102	11.528	1.287	11.625	1.106	11.916	1.466	11.819	1.265
9/16/2015 11:00	10.748	1.488	13.558	1.106	11.528	1.288	11.625	1.106	11.916	1.464	11.819	1.267
9/16/2015 12:00	10.748	1.489	13.558	1.105	11.528	1.287	11.625	1.104	11.916	1.464	11.819	1.265
9/16/2015 13:00	10.748	1.487	13.558	1.105	11.528	1.285	11.625	1.101	11.916	1.462	11.819	1.264
9/16/2015 14:00	10.748	1.488	13.558	1.111	11.528	1.29	11.625	1.1	11.916	1.462	11.819	1.264
9/16/2015 15:00	10.748	1.491	13.558	1.112	11.528	1.292	11.625	1.098	11.916	1.464	11.819	1.267
9/16/2015 16:00	10.748	1.488	13.558	1.11	11.528	1.291	11.625	1.093	11.916	1.461	11.819	1.264

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/16/2015 17:00	10.748	1.493	13.558	1.118	11.528	1.295	11.625	1.095	11.916	1.464	11.819	1.269
9/16/2015 18:00	10.748	1.492	13.558	1.121	11.528	1.297	11.625	1.091	11.916	1.464	11.819	1.267
9/16/2015 19:00	10.748	1.489	13.558	1.113	11.528	1.292	11.625	1.087	11.916	1.461	11.819	1.265
9/16/2015 20:00	10.748	1.489	13.558	1.095	11.528	1.293	11.625	1.084	11.916	1.457	11.819	1.264
9/16/2015 21:00	10.748	1.489	13.558	1.101	11.528	1.295	11.625	1.085	11.916	1.46	11.819	1.265
9/16/2015 22:00	10.748	1.489	13.558	1.108	11.528	1.296	11.625	1.082	11.916	1.458	11.819	1.266
9/16/2015 23:00	10.748	1.49	13.558	1.109	11.528	1.297	11.625	1.083	11.916	1.458	11.819	1.264
9/17/2015 0:00	10.748	1.49	13.558	1.11	11.528	1.298	11.625	1.082	11.916	1.457	11.819	1.264
9/17/2015 1:00	10.748	1.492	13.558	1.113	11.528	1.299	11.625	1.083	11.916	1.459	11.819	1.267
9/17/2015 2:00	10.748	1.49	13.558	1.105	11.528	1.298	11.625	1.081	11.916	1.454	11.819	1.263
9/17/2015 3:00	10.748	1.49	13.558	1.111	11.528	1.299	11.625	1.08	11.916	1.456	11.819	1.265
9/17/2015 4:00	10.748	1.489	13.558	1.112	11.528	1.299	11.625	1.078	11.916	1.455	11.819	1.265
9/17/2015 5:00	10.748	1.488	13.558	1.111	11.528	1.297	11.625	1.077	11.916	1.454	11.819	1.263
9/17/2015 6:00	10.748	1.491	13.558	1.113	11.528	1.299	11.625	1.08	11.916	1.458	11.819	1.263
9/17/2015 7:00	10.748	1.49	13.558	1.109	11.528	1.3	11.625	1.078	11.916	1.453	11.819	1.263
9/17/2015 8:00	10.748	1.492	13.558	1.106	11.528	1.303	11.625	1.079	11.916	1.457	11.819	1.267
9/17/2015 9:00	10.748	1.488	13.558	1.106	11.528	1.3	11.625	1.076	11.916	1.452	11.819	1.262
9/17/2015 10:00	10.748	1.486	13.558	1.103	11.528	1.296	11.625	1.074	11.916	1.449	11.819	1.259
9/17/2015 11:00	10.748	1.488	13.558	1.1	11.528	1.302	11.625	1.074	11.916	1.449	11.819	1.26
9/17/2015 12:00	10.748	1.487	13.461	1.103	11.528	1.299	11.625	1.071	11.916	1.45	11.916	1.26
9/17/2015 13:00	10.748	1.485	13.461	1.101	11.528	1.299	11.625	1.071	11.916	1.449	11.916	1.259
9/17/2015 14:00	10.748	1.489	13.461	1.115	11.528	1.3	11.625	1.071	11.916	1.452	11.916	1.262
9/17/2015 15:00	10.748	1.487	13.461	1.115	11.528	1.302	11.625	1.069	11.916	1.451	11.916	1.259
9/17/2015 16:00	10.748	1.488	13.461	1.116	11.528	1.301	11.625	1.067	11.916	1.448	11.916	1.261
9/17/2015 17:00	10.748	1.489	13.461	1.124	11.528	1.305	11.625	1.068	11.916	1.451	11.916	1.264
9/17/2015 18:00	10.748	1.487	13.461	1.104	11.528	1.3	11.625	1.064	11.916	1.45	11.916	1.261
9/17/2015 19:00	10.748	1.486	13.461	1.108	11.528	1.304	11.625	1.061	11.916	1.447	11.916	1.26
9/17/2015 20:00	10.748	1.486	13.461	1.111	11.528	1.302	11.625	1.058	11.916	1.446	11.916	1.258
9/17/2015 21:00	10.748	1.486	13.461	1.109	11.528	1.303	11.625	1.056	11.916	1.444	11.916	1.256
9/17/2015 22:00	10.748	1.484	13.461	1.105	11.528	1.301	11.625	1.053	11.916	1.441	11.916	1.255
9/17/2015 23:00	10.748	1.486	13.461	1.109	11.528	1.302	11.625	1.056	11.916	1.446	11.916	1.258
9/18/2015 0:00	10.748	1.483	13.461	1.112	11.528	1.301	11.625	1.053	11.916	1.444	11.916	1.255
9/18/2015 1:00	10.748	1.486	13.461	1.11	11.528	1.303	11.625	1.054	11.916	1.446	11.916	1.26
9/18/2015 2:00	10.748	1.482	13.461	1.105	11.528	1.299	11.625	1.05	11.916	1.44	11.916	1.254
9/18/2015 3:00	10.748	1.486	13.461	1.111	11.528	1.305	11.625	1.054	11.916	1.444	11.916	1.258
9/18/2015 4:00	10.748	1.484	13.461	1.11	11.528	1.302	11.625	1.051	11.916	1.444	11.916	1.256
9/18/2015 5:00	10.748	1.486	13.461	1.107	11.528	1.304	11.625	1.053	11.916	1.445	11.916	1.256
9/18/2015 6:00	10.748	1.485	13.461	1.105	11.528	1.304	11.625	1.052	11.916	1.444	11.916	1.257
9/18/2015 7:00	10.748	1.483	13.461	1.1	11.528	1.303	11.625	1.051	11.916	1.442	11.916	1.257
9/18/2015 8:00	10.748	1.485	13.461	1.099	11.528	1.303	11.625	1.051	11.916	1.443	11.916	1.256
9/18/2015 9:00	10.748	1.482	13.461	1.097	11.528	1.3	11.625	1.048	11.916	1.439	11.916	1.253
9/18/2015 10:00	10.748	1.482	13.461	1.1	11.528	1.301	11.625	1.049	11.916	1.439	11.916	1.253
9/18/2015 11:00	10.748	1.48	13.461	1.098	11.528	1.3	11.625	1.046	11.916	1.439	11.916	1.251
9/18/2015 12:00	10.748	1.481	13.461	1.101	11.528	1.298	11.625	1.044	11.916	1.438	11.916	1.251
9/18/2015 13:00	10.748	1.478	13.461	1.095	11.528	1.3	11.625	1.045	12.013	1.438	11.916	1.25
9/18/2015 14:00	10.748	1.48	13.461	1.086	11.528	1.299	11.625	1.043	12.013	1.438	11.916	1.25
9/18/2015 15:00	10.748	1.482	13.461	1.098	11.528	1.301	11.625	1.042	12.013	1.439	11.916	1.252

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/18/2015 16:00	10.748	1.48	13.461	1.1	11.528	1.3	11.625	1.039	12.013	1.438	11.916	1.25
9/18/2015 17:00	10.748	1.485	13.461	1.112	11.528	1.305	11.625	1.043	12.013	1.442	11.916	1.254
9/18/2015 18:00	10.748	1.486	13.461	1.112	11.528	1.303	11.625	1.04	12.013	1.443	11.916	1.253
9/18/2015 19:00	10.748	1.484	13.461	1.106	11.528	1.3	11.625	1.037	12.013	1.44	11.916	1.252
9/18/2015 20:00	10.748	1.482	13.461	1.105	11.528	1.302	11.625	1.035	12.013	1.438	11.916	1.25
9/18/2015 21:00	10.748	1.481	13.461	1.104	11.528	1.299	11.625	1.031	12.013	1.437	11.916	1.249
9/18/2015 22:00	10.748	1.482	13.461	1.087	11.528	1.302	11.625	1.032	12.013	1.439	11.916	1.249
9/18/2015 23:00	10.748	1.479	13.461	1.098	11.528	1.299	11.625	1.029	12.013	1.435	11.916	1.247
9/19/2015 0:00	10.748	1.478	13.461	1.102	11.528	1.296	11.625	1.028	11.916	1.435	11.916	1.247
9/19/2015 1:00	10.748	1.477	13.461	1.102	11.528	1.3	11.625	1.029	12.013	1.435	11.916	1.247
9/19/2015 2:00	10.748	1.478	13.461	1.096	11.528	1.297	11.625	1.029	12.013	1.436	11.916	1.247
9/19/2015 3:00	10.748	1.478	13.461	1.104	11.528	1.3	11.625	1.027	12.013	1.435	11.916	1.247
9/19/2015 4:00	10.748	1.48	13.461	1.106	11.528	1.301	11.625	1.031	12.013	1.44	11.916	1.249
9/19/2015 5:00	10.748	1.478	13.461	1.106	11.528	1.299	11.625	1.029	12.013	1.438	11.916	1.248
9/19/2015 6:00	10.748	1.478	13.461	1.102	11.528	1.298	11.625	1.026	12.013	1.435	11.916	1.245
9/19/2015 7:00	10.748	1.476	13.461	1.098	11.528	1.298	11.625	1.027	12.013	1.435	11.916	1.247
9/19/2015 8:00	10.748	1.474	13.461	1.096	11.528	1.295	11.625	1.022	12.013	1.431	11.916	1.243
9/19/2015 9:00	10.748	1.472	13.461	1.097	11.528	1.294	11.625	1.022	12.013	1.431	11.916	1.243
9/19/2015 10:00	10.748	1.477	13.461	1.097	11.528	1.296	11.625	1.025	12.013	1.434	11.916	1.246
9/19/2015 11:00	10.748	1.476	13.461	1.095	11.528	1.295	11.722	1.022	12.013	1.431	11.916	1.242
9/19/2015 12:00	10.748	1.473	13.461	1.097	11.528	1.295	11.625	1.019	12.013	1.431	11.916	1.243
9/19/2015 13:00	10.748	1.473	13.461	1.098	11.528	1.295	11.625	1.019	12.013	1.431	11.916	1.244
9/19/2015 14:00	10.748	1.475	13.461	1.102	11.528	1.296	11.625	1.021	12.013	1.432	11.916	1.246
9/19/2015 15:00	10.748	1.476	13.461	1.111	11.528	1.3	11.722	1.023	12.013	1.434	11.916	1.244
9/19/2015 16:00	10.748	1.475	13.461	1.106	11.528	1.298	11.722	1.021	12.013	1.434	11.916	1.244
9/19/2015 17:00	10.748	1.478	13.461	1.108	11.528	1.3	11.722	1.022	12.013	1.437	11.916	1.247
9/19/2015 18:00	10.748	1.477	13.461	1.112	11.528	1.299	11.722	1.021	12.013	1.437	11.916	1.247
9/19/2015 19:00	10.748	1.476	13.461	1.097	11.528	1.298	11.722	1.02	12.013	1.434	11.916	1.244
9/19/2015 20:00	10.748	1.476	13.461	1.095	11.528	1.298	11.722	1.019	12.013	1.433	11.916	1.246
9/19/2015 21:00	10.748	1.477	13.461	1.104	11.528	1.3	11.722	1.02	12.013	1.433	11.916	1.245
9/19/2015 22:00	10.748	1.477	13.461	1.109	11.528	1.3	11.722	1.019	12.013	1.433	11.916	1.244
9/19/2015 23:00	10.748	1.475	13.461	1.11	11.528	1.299	11.722	1.017	12.013	1.434	11.916	1.245
9/20/2015 0:00	10.748	1.474	13.461	1.107	11.528	1.298	11.722	1.016	12.013	1.431	11.916	1.242
9/20/2015 1:00	10.748	1.476	13.461	1.108	11.528	1.299	11.722	1.018	12.013	1.43	11.916	1.242
9/20/2015 2:00	10.748	1.473	13.461	1.106	11.528	1.296	11.722	1.015	12.013	1.427	11.916	1.24
9/20/2015 3:00	10.748	1.473	13.461	1.107	11.528	1.299	11.722	1.016	12.013	1.43	11.916	1.243
9/20/2015 4:00	10.748	1.476	13.461	1.109	11.528	1.298	11.722	1.019	12.013	1.432	11.916	1.241
9/20/2015 5:00	10.748	1.472	13.461	1.107	11.528	1.296	11.722	1.017	12.013	1.43	11.916	1.241
9/20/2015 6:00	10.748	1.472	13.461	1.079	11.528	1.297	11.722	1.017	12.013	1.427	11.916	1.241
9/20/2015 7:00	10.748	1.471	13.461	1.08	11.528	1.297	11.722	1.017	12.013	1.427	11.916	1.239
9/20/2015 8:00	10.748	1.471	13.461	1.084	11.528	1.295	11.722	1.015	12.013	1.427	11.916	1.238
9/20/2015 9:00	10.748	1.467	13.461	1.08	11.528	1.29	11.722	1.011	12.013	1.423	11.916	1.235
9/20/2015 10:00	10.748	1.467	13.461	1.084	11.528	1.292	11.722	1.01	12.013	1.426	11.916	1.235
9/20/2015 11:00	10.748	1.467	13.461	1.081	11.528	1.291	11.722	1.011	12.013	1.425	11.916	1.233
9/20/2015 12:00	10.748	1.466	13.461	1.092	11.528	1.292	11.722	1.015	12.013	1.426	11.916	1.237
9/20/2015 13:00	10.748	1.468	13.461	1.088	11.528	1.291	11.722	1.016	12.013	1.425	11.916	1.236
9/20/2015 14:00	10.748	1.465	13.461	1.09	11.528	1.288	11.722	1.013	12.013	1.423	11.916	1.234

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/20/2015 15:00	10.846	1.467	13.461	1.093	11.528	1.29	11.722	1.012	12.013	1.424	12.013	1.236
9/20/2015 16:00	10.748	1.464	13.461	1.095	11.528	1.292	11.722	1.01	12.013	1.424	11.916	1.234
9/20/2015 17:00	10.748	1.467	13.461	1.101	11.528	1.293	11.722	1.011	12.013	1.426	12.013	1.237
9/20/2015 18:00	10.846	1.467	13.461	1.098	11.625	1.294	11.722	1.012	12.013	1.427	11.916	1.237
9/20/2015 19:00	10.748	1.468	13.461	1.095	11.528	1.291	11.722	1.008	12.013	1.424	11.916	1.235
9/20/2015 20:00	10.846	1.47	13.461	1.094	11.528	1.293	11.722	1.008	12.013	1.429	12.013	1.238
9/20/2015 21:00	10.846	1.466	13.461	1.095	11.625	1.292	11.722	1.005	12.013	1.425	12.013	1.235
9/20/2015 22:00	10.846	1.467	13.461	1.094	11.625	1.293	11.722	1.005	12.013	1.426	12.013	1.237
9/20/2015 23:00	10.846	1.468	13.461	1.091	11.625	1.295	11.722	1.007	12.013	1.427	12.013	1.237
9/21/2015 0:00	10.846	1.47	13.461	1.096	11.625	1.296	11.722	1.007	12.013	1.428	12.013	1.24
9/21/2015 1:00	10.846	1.469	13.461	1.087	11.625	1.295	11.722	1.005	12.013	1.425	12.013	1.237
9/21/2015 2:00	10.846	1.467	13.558	1.095	11.625	1.295	11.722	1.002	12.013	1.428	12.013	1.237
9/21/2015 3:00	10.846	1.47	13.558	1.098	11.625	1.296	11.722	1.006	12.013	1.43	12.013	1.239
9/21/2015 4:00	10.846	1.469	13.461	1.101	11.625	1.295	11.722	1.002	12.013	1.429	12.013	1.239
9/21/2015 5:00	10.846	1.468	13.558	1.094	11.625	1.296	11.722	1.003	12.013	1.43	12.013	1.238
9/21/2015 6:00	10.846	1.468	13.461	1.094	11.625	1.295	11.722	1.003	12.013	1.429	12.013	1.238
9/21/2015 7:00	10.846	1.466	13.461	1.094	11.625	1.295	11.722	1.001	12.013	1.426	12.013	1.237
9/21/2015 8:00	10.846	1.463	13.558	1.091	11.625	1.29	11.722	0.996	12.013	1.422	12.013	1.233
9/21/2015 9:00	10.846	1.464	13.558	1.09	11.625	1.293	11.722	0.999	12.013	1.425	12.013	1.235
9/21/2015 10:00	10.846	1.463	13.558	1.087	11.625	1.29	11.722	0.997	12.013	1.422	12.013	1.232
9/21/2015 11:00	10.846	1.462	13.558	1.087	11.625	1.289	11.722	0.992	12.013	1.421	12.013	1.231
9/21/2015 12:00	10.846	1.458	13.558	1.089	11.625	1.287	11.722	0.991	12.013	1.419	12.013	1.228
9/21/2015 13:00	10.846	1.458	13.558	1.092	11.625	1.286	11.722	0.989	12.013	1.418	12.013	1.228
9/21/2015 14:00	10.846	1.456	13.558	1.088	11.625	1.284	11.722	0.988	12.013	1.415	12.013	1.226
9/21/2015 15:00	10.846	1.456	13.558	1.09	11.625	1.282	11.722	0.985	12.013	1.414	12.013	1.225
9/21/2015 16:00	10.846	1.455	13.558	1.094	11.625	1.282	11.722	0.982	12.013	1.416	12.013	1.224
9/21/2015 17:00	10.846	1.461	13.558	1.103	11.625	1.288	11.722	0.988	12.013	1.42	12.013	1.23
9/21/2015 18:00	10.846	1.46	13.558	1.1	11.625	1.287	11.722	0.984	12.013	1.42	12.013	1.228
9/21/2015 19:00	10.846	1.458	13.558	1.096	11.625	1.285	11.722	0.983	12.013	1.417	12.013	1.228
9/21/2015 20:00	10.846	1.46	13.558	1.079	11.625	1.286	11.722	0.982	12.013	1.418	12.013	1.228
9/21/2015 21:00	10.846	1.46	13.558	1.09	11.625	1.287	11.722	0.982	12.013	1.419	12.013	1.229
9/21/2015 22:00	10.846	1.459	13.558	1.097	11.625	1.289	11.722	0.98	12.013	1.419	12.013	1.229
9/21/2015 23:00	10.846	1.458	13.558	1.097	11.625	1.289	11.722	0.981	12.013	1.419	12.013	1.229
9/22/2015 0:00	10.846	1.458	13.558	1.093	11.625	1.288	11.722	0.98	12.013	1.419	12.013	1.228
9/22/2015 1:00	10.846	1.458	13.558	1.095	11.625	1.288	11.722	0.98	12.013	1.418	12.013	1.229
9/22/2015 2:00	10.846	1.457	13.558	1.093	11.625	1.285	11.722	0.981	12.013	1.418	12.013	1.227
9/22/2015 3:00	10.846	1.459	13.558	1.096	11.625	1.287	11.722	0.981	12.013	1.42	12.013	1.228
9/22/2015 4:00	10.846	1.457	13.558	1.092	11.625	1.286	11.722	0.978	12.013	1.417	12.013	1.224
9/22/2015 5:00	10.846	1.456	13.558	1.093	11.625	1.284	11.722	0.978	12.013	1.416	12.013	1.224
9/22/2015 6:00	10.846	1.454	13.558	1.092	11.625	1.284	11.722	0.978	12.013	1.416	12.013	1.225
9/22/2015 7:00	10.846	1.456	13.558	1.088	11.625	1.283	11.722	0.979	12.013	1.415	12.013	1.226
9/22/2015 8:00	10.846	1.456	13.558	1.087	11.625	1.285	11.722	0.979	12.013	1.415	12.013	1.225
9/22/2015 9:00	10.846	1.453	13.558	1.086	11.625	1.283	11.722	0.976	12.013	1.413	12.013	1.222
9/22/2015 10:00	10.846	1.454	13.558	1.082	11.625	1.282	11.722	0.975	12.013	1.413	12.013	1.224
9/22/2015 11:00	10.846	1.452	13.558	1.086	11.625	1.282	11.722	0.975	12.013	1.412	12.013	1.221
9/22/2015 12:00	10.846	1.452	13.558	1.091	11.625	1.281	11.722	0.975	12.013	1.412	12.013	1.221
9/22/2015 13:00	10.846	1.451	13.558	1.092	11.625	1.279	11.722	0.975	12.013	1.414	12.013	1.222

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/22/2015 14:00	10.846	1.451	13.558	1.094	11.625	1.278	11.722	0.976	12.013	1.411	12.013	1.221
9/22/2015 15:00	10.846	1.451	13.558	1.089	11.625	1.278	11.722	0.975	12.013	1.412	12.013	1.22
9/22/2015 16:00	10.846	1.451	13.558	1.081	11.625	1.281	11.722	0.976	12.013	1.414	12.013	1.222
9/22/2015 17:00	10.846	1.452	13.558	1.098	11.625	1.278	11.722	0.975	12.013	1.412	12.013	1.222
9/22/2015 18:00	10.846	1.45	13.558	1.09	11.625	1.276	11.722	0.972	12.013	1.412	12.013	1.221
9/22/2015 19:00	10.846	1.452	13.558	1.094	11.625	1.279	11.722	0.973	12.013	1.414	12.013	1.221
9/22/2015 20:00	10.846	1.452	13.558	1.092	11.625	1.278	11.722	0.972	12.013	1.413	12.013	1.22
9/22/2015 21:00	10.846	1.449	13.558	1.094	11.625	1.279	11.722	0.969	12.013	1.413	12.013	1.22
9/22/2015 22:00	10.846	1.448	13.558	1.085	11.625	1.277	11.722	0.968	12.013	1.411	12.013	1.22
9/22/2015 23:00	10.846	1.448	13.558	1.093	11.625	1.277	11.722	0.968	12.013	1.413	12.013	1.22
9/23/2015 0:00	10.846	1.453	13.558	1.095	11.625	1.28	11.722	0.97	12.013	1.415	12.013	1.222
9/23/2015 1:00	10.846	1.449	13.558	1.094	11.625	1.278	11.722	0.967	12.013	1.413	12.013	1.22
9/23/2015 2:00	10.846	1.447	13.558	1.094	11.625	1.275	11.722	0.967	12.013	1.412	12.013	1.218
9/23/2015 3:00	10.846	1.447	13.558	1.096	11.625	1.278	11.722	0.968	12.013	1.413	12.013	1.219
9/23/2015 4:00	10.846	1.447	13.558	1.065	11.625	1.275	11.722	0.968	12.013	1.411	12.013	1.218
9/23/2015 5:00	10.846	1.445	13.558	1.077	11.625	1.274	11.722	0.969	12.013	1.41	12.013	1.218
9/23/2015 6:00	10.846	1.447	13.558	1.088	11.625	1.277	11.722	0.969	12.013	1.412	12.013	1.219
9/23/2015 7:00	10.846	1.446	13.558	1.085	11.625	1.274	11.722	0.967	12.013	1.411	12.013	1.217
9/23/2015 8:00	10.846	1.445	13.558	1.083	11.625	1.272	11.722	0.966	12.013	1.409	12.013	1.215
9/23/2015 9:00	10.846	1.441	13.461	1.075	11.625	1.27	11.722	0.966	12.013	1.407	12.013	1.213
9/23/2015 10:00	10.846	1.444	13.558	1.08	11.625	1.271	11.722	0.967	12.013	1.408	12.013	1.215
9/23/2015 11:00	10.846	1.441	13.558	1.079	11.625	1.27	11.722	0.965	12.013	1.406	12.013	1.212
9/23/2015 12:00	10.846	1.444	13.461	1.052	11.625	1.271	11.722	0.965	12.013	1.406	12.013	1.216
9/23/2015 13:00	10.846	1.442	13.461	1.063	11.625	1.27	11.722	0.963	12.013	1.408	12.013	1.212
9/23/2015 14:00	10.846	1.441	13.461	1.078	11.625	1.27	11.722	0.962	12.013	1.406	12.013	1.213
9/23/2015 15:00	10.846	1.441	13.461	1.063	11.625	1.271	11.722	0.962	12.013	1.407	12.013	1.212
9/23/2015 16:00	10.846	1.439	13.461	1.077	11.625	1.266	11.722	0.958	12.013	1.403	12.013	1.213
9/23/2015 17:00	10.846	1.442	13.461	1.086	11.625	1.27	11.722	0.962	12.013	1.406	12.013	1.214
9/23/2015 18:00	10.846	1.44	13.461	1.093	11.625	1.27	11.722	0.961	12.013	1.406	12.013	1.212
9/23/2015 19:00	10.846	1.44	13.461	1.086	11.625	1.268	11.722	0.959	12.013	1.407	12.013	1.212
9/23/2015 20:00	10.846	1.439	13.461	1.084	11.625	1.267	11.722	0.956	12.013	1.406	12.013	1.21
9/23/2015 21:00	10.846	1.441	13.461	1.086	11.625	1.266	11.722	0.956	12.013	1.405	12.013	1.211
9/23/2015 22:00	10.846	1.438	13.461	1.084	11.625	1.266	11.722	0.955	12.013	1.404	12.013	1.21
9/23/2015 23:00	10.846	1.436	13.461	1.076	11.625	1.266	11.819	0.953	12.013	1.404	12.013	1.21
9/24/2015 0:00	10.846	1.438	13.461	1.085	11.625	1.266	11.819	0.952	12.013	1.404	12.013	1.21
9/24/2015 1:00	10.846	1.437	13.461	1.083	11.625	1.268	11.819	0.953	12.013	1.406	12.013	1.21
9/24/2015 2:00	10.846	1.438	13.461	1.086	11.625	1.269	11.819	0.957	12.013	1.408	12.013	1.213
9/24/2015 3:00	10.846	1.439	13.461	1.087	11.625	1.269	11.819	0.959	12.013	1.408	12.013	1.214
9/24/2015 4:00	10.846	1.439	13.461	1.086	11.625	1.272	11.819	0.958	12.013	1.409	12.013	1.214
9/24/2015 5:00	10.846	1.442	13.461	1.09	11.625	1.27	11.819	0.959	12.013	1.409	12.013	1.217
9/24/2015 6:00	10.846	1.442	13.461	1.089	11.625	1.27	11.819	0.956	12.013	1.409	12.013	1.217
9/24/2015 7:00	10.846	1.439	13.461	1.079	11.625	1.269	11.819	0.953	12.013	1.406	12.013	1.214
9/24/2015 8:00	10.846	1.438	13.461	1.079	11.625	1.267	11.819	0.954	12.013	1.406	12.013	1.213
9/24/2015 9:00	10.846	1.438	13.461	1.08	11.625	1.268	11.819	0.952	12.013	1.406	12.013	1.212
9/24/2015 10:00	10.846	1.438	13.461	1.077	11.625	1.268	11.819	0.95	12.013	1.406	12.013	1.212
9/24/2015 11:00	10.846	1.435	13.461	1.078	11.625	1.266	11.819	0.949	12.013	1.404	12.013	1.211
9/24/2015 12:00	10.846	1.435	13.461	1.076	11.625	1.266	11.819	0.946	12.013	1.404	12.013	1.21

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/24/2015 13:00	10.846	1.436	13.461	1.08	11.625	1.266	11.819	0.945	12.013	1.406	12.013	1.212
9/24/2015 14:00	10.846	1.434	13.461	1.059	11.625	1.263	11.819	0.945	12.013	1.406	12.013	1.211
9/24/2015 15:00	10.846	1.433	13.461	1.063	11.625	1.262	11.819	0.943	12.013	1.406	12.013	1.208
9/24/2015 16:00	10.846	1.434	13.461	1.057	11.625	1.264	11.819	0.942	12.013	1.404	12.11	1.21
9/24/2015 17:00	10.846	1.437	13.461	1.07	11.625	1.266	11.819	0.943	12.013	1.41	12.013	1.211
9/24/2015 18:00	10.846	1.435	13.461	1.068	11.625	1.265	11.819	0.939	12.013	1.408	12.013	1.211
9/24/2015 19:00	10.846	1.435	13.461	1.055	11.625	1.265	11.819	0.937	12.013	1.406	12.11	1.213
9/24/2015 20:00	10.846	1.436	13.461	1.073	11.625	1.267	11.819	0.936	12.013	1.409	12.11	1.213
9/24/2015 21:00	10.846	1.438	13.461	1.077	11.625	1.267	11.819	0.936	12.013	1.409	12.11	1.213
9/24/2015 22:00	10.846	1.437	13.461	1.081	11.625	1.268	11.819	0.936	12.013	1.407	12.11	1.211
9/24/2015 23:00	10.846	1.439	13.461	1.046	11.625	1.269	11.819	0.938	12.013	1.407	12.11	1.216
9/25/2015 0:00	10.846	1.437	13.461	1.057	11.625	1.268	11.819	0.935	12.013	1.41	12.11	1.214
9/25/2015 1:00	10.846	1.439	13.365	1.065	11.625	1.268	11.819	0.937	12.013	1.411	12.11	1.217
9/25/2015 2:00	10.846	1.437	13.365	1.081	11.625	1.268	11.819	0.937	12.013	1.411	12.11	1.217
9/25/2015 3:00	10.846	1.44	13.365	1.085	11.625	1.27	11.819	0.937	12.013	1.413	12.11	1.218
9/25/2015 4:00	10.846	1.438	13.365	1.078	11.625	1.268	11.819	0.938	12.013	1.412	12.11	1.216
9/25/2015 5:00	10.846	1.437	13.365	1.08	11.625	1.266	11.819	0.933	12.013	1.41	12.11	1.214
9/25/2015 6:00	10.846	1.434	13.365	1.06	11.625	1.266	11.819	0.933	12.013	1.408	12.11	1.212
9/25/2015 7:00	10.846	1.436	13.365	1.075	11.625	1.265	11.819	0.932	12.013	1.408	12.11	1.211
9/25/2015 8:00	10.846	1.434	13.365	1.065	11.722	1.261	11.819	0.928	12.013	1.405	12.11	1.208
9/25/2015 9:00	10.846	1.433	13.365	1.07	11.625	1.26	11.819	0.929	12.013	1.405	12.11	1.209
9/25/2015 10:00	10.846	1.429	13.365	1.068	11.722	1.259	11.819	0.926	12.013	1.402	12.11	1.207
9/25/2015 11:00	10.846	1.426	13.365	1.061	11.625	1.257	11.819	0.923	12.013	1.4	12.11	1.203
9/25/2015 12:00	10.846	1.427	13.365	1.073	11.722	1.258	11.819	0.925	12.013	1.401	12.11	1.205
9/25/2015 13:00	10.846	1.429	13.365	1.078	11.722	1.26	11.819	0.928	12.013	1.404	12.11	1.207
9/25/2015 14:00	10.846	1.428	13.365	1.076	11.722	1.259	11.819	0.926	12.013	1.402	12.11	1.207
9/25/2015 15:00	10.944	1.426	13.365	1.075	11.722	1.257	11.819	0.922	12.013	1.399	12.11	1.206
9/25/2015 16:00	10.846	1.431	13.365	1.054	11.722	1.26	11.819	0.926	12.013	1.404	12.11	1.208
9/25/2015 17:00	10.944	1.431	13.365	1.07	11.722	1.259	11.819	0.925	12.013	1.404	12.11	1.206
9/25/2015 18:00	10.944	1.43	13.365	1.061	11.722	1.259	11.819	0.924	12.013	1.404	12.11	1.21
9/25/2015 19:00	10.944	1.429	13.365	1.071	11.722	1.258	11.819	0.922	12.013	1.401	12.11	1.207
9/25/2015 20:00	10.944	1.43	13.365	1.073	11.722	1.257	11.819	0.921	12.013	1.403	12.11	1.207
9/25/2015 21:00	10.944	1.428	13.365	1.077	11.722	1.256	11.819	0.92	12.013	1.403	12.11	1.207
9/25/2015 22:00	10.944	1.43	13.365	1.081	11.722	1.258	11.819	0.92	12.013	1.404	12.11	1.208
9/25/2015 23:00	10.944	1.43	13.365	1.085	11.722	1.259	11.819	0.921	12.013	1.402	12.11	1.208
9/26/2015 0:00	10.944	1.427	13.365	1.082	11.722	1.257	11.819	0.92	12.013	1.401	12.11	1.207
9/26/2015 1:00	10.944	1.426	13.365	1.083	11.722	1.257	11.819	0.921	12.013	1.403	12.11	1.207
9/26/2015 2:00	10.944	1.428	13.365	1.082	11.722	1.255	11.819	0.92	12.013	1.403	12.11	1.208
9/26/2015 3:00	10.944	1.426	13.365	1.079	11.722	1.256	11.819	0.92	12.013	1.402	12.11	1.206
9/26/2015 4:00	10.944	1.426	13.365	1.078	11.722	1.255	11.819	0.921	12.013	1.403	12.11	1.207
9/26/2015 5:00	10.944	1.429	13.365	1.08	11.722	1.256	11.819	0.92	12.013	1.404	12.11	1.208
9/26/2015 6:00	10.944	1.429	13.269	1.079	11.722	1.256	11.819	0.922	12.013	1.406	12.11	1.209
9/26/2015 7:00	10.944	1.426	13.269	1.074	11.722	1.255	11.819	0.92	12.013	1.403	12.11	1.207
9/26/2015 8:00	10.944	1.425	13.269	1.07	11.722	1.254	11.819	0.917	12.013	1.401	12.11	1.206
9/26/2015 9:00	10.944	1.427	13.269	1.074	11.722	1.254	11.819	0.918	12.013	1.403	12.11	1.206
9/26/2015 10:00	10.944	1.426	13.269	1.068	11.722	1.253	11.819	0.917	12.013	1.402	12.11	1.206
9/26/2015 11:00	10.944	1.422	13.269	1.06	11.722	1.248	11.819	0.912	12.013	1.398	12.11	1.2

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/26/2015 12:00	10.944	1.422	13.269	1.068	11.722	1.25	11.819	0.915	12.013	1.399	12.11	1.203
9/26/2015 13:00	10.944	1.42	13.269	1.065	11.722	1.249	11.819	0.911	12.013	1.396	12.11	1.199
9/26/2015 14:00	10.944	1.419	13.269	1.07	11.722	1.246	11.819	0.911	12.013	1.396	12.11	1.201
9/26/2015 15:00	10.944	1.423	13.269	1.076	11.722	1.249	11.819	0.91	12.013	1.4	12.11	1.202
9/26/2015 16:00	10.944	1.423	13.269	1.079	11.722	1.25	11.819	0.911	12.013	1.399	12.11	1.203
9/26/2015 17:00	10.944	1.422	13.269	1.081	11.722	1.248	11.819	0.909	12.013	1.398	12.11	1.204
9/26/2015 18:00	10.944	1.42	13.269	1.077	11.722	1.246	11.819	0.906	12.013	1.396	12.11	1.202
9/26/2015 19:00	10.944	1.421	13.269	1.079	11.722	1.249	11.819	0.907	12.013	1.398	12.11	1.202
9/26/2015 20:00	10.944	1.418	13.269	1.066	11.722	1.247	11.819	0.904	12.013	1.397	12.11	1.201
9/26/2015 21:00	10.944	1.421	13.269	1.073	11.722	1.246	11.819	0.905	12.013	1.398	12.11	1.201
9/26/2015 22:00	10.944	1.42	13.269	1.073	11.722	1.247	11.819	0.904	12.013	1.398	12.11	1.201
9/26/2015 23:00	10.944	1.421	13.269	1.079	11.722	1.249	11.819	0.908	12.013	1.398	12.11	1.203
9/27/2015 0:00	10.944	1.421	13.269	1.078	11.722	1.248	11.819	0.906	12.013	1.398	12.11	1.203
9/27/2015 1:00	10.944	1.42	13.269	1.079	11.722	1.248	11.819	0.903	12.013	1.397	12.11	1.202
9/27/2015 2:00	10.944	1.418	13.269	1.08	11.722	1.247	11.819	0.9	12.013	1.394	12.11	1.202
9/27/2015 3:00	10.944	1.42	13.269	1.082	11.722	1.247	11.819	0.902	12.013	1.398	12.11	1.201
9/27/2015 4:00	10.944	1.418	13.173	1.08	11.722	1.244	11.819	0.899	12.013	1.392	12.11	1.2
9/27/2015 5:00	10.944	1.416	13.173	1.077	11.722	1.243	11.819	0.899	12.013	1.39	12.11	1.201
9/27/2015 6:00	10.944	1.418	13.173	1.069	11.722	1.244	11.819	0.9	12.013	1.394	12.11	1.201
9/27/2015 7:00	10.944	1.416	13.173	1.073	11.722	1.244	11.819	0.898	12.013	1.392	12.11	1.198
9/27/2015 8:00	10.944	1.416	13.173	1.07	11.722	1.244	11.819	0.898	12.013	1.391	12.11	1.198
9/27/2015 9:00	10.944	1.416	13.173	1.071	11.722	1.241	11.819	0.897	12.013	1.39	12.11	1.195
9/27/2015 10:00	10.944	1.415	13.173	1.067	11.722	1.241	11.819	0.9	12.013	1.392	12.11	1.196
9/27/2015 11:00	10.944	1.414	13.173	1.072	11.722	1.24	11.819	0.898	12.013	1.392	12.11	1.197
9/27/2015 12:00	10.944	1.415	13.173	1.076	11.722	1.244	11.819	0.901	12.013	1.391	12.11	1.197
9/27/2015 13:00	10.944	1.415	13.173	1.075	11.722	1.241	11.819	0.896	12.013	1.39	12.11	1.196
9/27/2015 14:00	10.944	1.417	13.173	1.08	11.722	1.241	11.819	0.899	12.013	1.393	12.11	1.199
9/27/2015 15:00	10.944	1.415	13.173	1.083	11.722	1.241	11.819	0.897	12.013	1.392	12.11	1.197
9/27/2015 16:00	10.944	1.413	13.173	1.08	11.722	1.239	11.819	0.894	12.013	1.388	12.11	1.196
9/27/2015 17:00	10.944	1.415	13.173	1.085	11.722	1.24	11.819	0.896	12.013	1.388	12.11	1.197
9/27/2015 18:00	10.944	1.414	13.173	1.079	11.722	1.24	11.819	0.895	12.013	1.391	12.11	1.197
9/27/2015 19:00	10.944	1.415	13.173	1.078	11.722	1.239	11.819	0.895	12.013	1.39	12.11	1.198
9/27/2015 20:00	10.944	1.415	13.173	1.059	11.722	1.242	11.819	0.893	12.013	1.389	12.11	1.199
9/27/2015 21:00	10.944	1.413	13.173	1.066	11.722	1.24	11.819	0.89	12.013	1.388	12.11	1.196
9/27/2015 22:00	10.944	1.415	13.076	1.071	11.722	1.239	11.819	0.891	12.013	1.39	12.11	1.198
9/27/2015 23:00	10.944	1.412	13.076	1.075	11.722	1.238	11.819	0.889	12.013	1.388	12.11	1.196
9/28/2015 0:00	10.944	1.413	13.076	1.073	11.722	1.24	11.819	0.89	12.013	1.388	12.11	1.195
9/28/2015 1:00	10.944	1.411	13.076	1.075	11.722	1.238	11.819	0.889	12.013	1.388	12.11	1.194
9/28/2015 2:00	10.944	1.411	13.076	1.07	11.722	1.235	11.819	0.888	12.013	1.387	12.11	1.194
9/28/2015 3:00	10.944	1.411	13.076	1.074	11.722	1.236	11.819	0.886	12.013	1.385	12.11	1.194
9/28/2015 4:00	10.944	1.41	13.076	1.076	11.722	1.236	11.819	0.887	12.013	1.387	12.11	1.196
9/28/2015 5:00	10.944	1.413	13.076	1.079	11.722	1.239	11.819	0.891	12.013	1.388	12.11	1.198
9/28/2015 6:00	10.944	1.414	13.076	1.06	11.722	1.239	11.819	0.89	12.013	1.39	12.11	1.197
9/28/2015 7:00	10.944	1.412	13.076	1.066	11.722	1.236	11.819	0.889	12.013	1.389	12.11	1.196
9/28/2015 8:00	10.944	1.411	13.076	1.049	11.722	1.237	11.819	0.885	12.013	1.388	12.11	1.194
9/28/2015 9:00	10.944	1.408	13.076	1.058	11.722	1.234	11.819	0.884	12.013	1.386	12.11	1.193
9/28/2015 10:00	10.944	1.41	13.076	1.053	11.722	1.235	11.819	0.885	12.013	1.386	12.11	1.192

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/28/2015 11:00	10.944	1.407	13.076	1.045	11.722	1.237	11.819	0.884	12.013	1.388	12.11	1.194
9/28/2015 12:00	10.944	1.409	13.076	1.052	11.722	1.236	11.819	0.885	12.013	1.384	12.11	1.194
9/28/2015 13:00	10.944	1.409	13.076	1.06	11.722	1.235	11.819	0.884	12.013	1.384	12.11	1.195
9/28/2015 14:00	10.944	1.407	13.076	1.069	11.722	1.236	11.819	0.885	12.013	1.387	12.11	1.197
9/28/2015 15:00	10.944	1.408	13.076	1.074	11.722	1.236	11.819	0.886	12.013	1.386	12.11	1.197
9/28/2015 16:00	10.944	1.41	13.076	1.056	11.722	1.235	11.819	0.885	12.013	1.387	12.11	1.195
9/28/2015 17:00	10.944	1.408	12.98	1.068	11.722	1.236	11.819	0.885	12.013	1.385	12.11	1.195
9/28/2015 18:00	10.944	1.407	12.98	1.071	11.722	1.235	11.819	0.883	12.013	1.387	12.11	1.197
9/28/2015 19:00	10.944	1.406	12.98	1.058	11.722	1.234	11.819	0.881	12.013	1.384	12.11	1.195
9/28/2015 20:00	10.944	1.405	12.98	1.062	11.722	1.233	11.819	0.878	12.013	1.38	12.11	1.192
9/28/2015 21:00	10.944	1.407	12.98	1.067	11.722	1.234	11.819	0.879	12.013	1.384	12.11	1.194
9/28/2015 22:00	10.944	1.407	12.98	1.069	11.722	1.235	11.819	0.881	12.013	1.386	12.11	1.197
9/28/2015 23:00	10.944	1.404	12.98	1.071	11.722	1.235	11.819	0.88	12.013	1.384	12.11	1.196
9/29/2015 0:00	10.944	1.407	12.98	1.071	11.722	1.232	11.819	0.877	12.013	1.384	12.11	1.195
9/29/2015 1:00	10.944	1.408	12.98	1.071	11.722	1.232	11.819	0.878	12.013	1.386	12.11	1.196
9/29/2015 2:00	10.944	1.406	12.98	1.07	11.722	1.231	11.819	0.876	12.013	1.383	12.11	1.193
9/29/2015 3:00	10.944	1.404	12.98	1.068	11.722	1.231	11.819	0.874	12.013	1.382	12.11	1.193
9/29/2015 4:00	10.944	1.406	12.98	1.068	11.722	1.23	11.819	0.875	12.013	1.384	12.11	1.192
9/29/2015 5:00	10.944	1.404	12.98	1.068	11.722	1.23	11.819	0.876	11.916	1.384	12.11	1.194
9/29/2015 6:00	10.944	1.405	12.98	1.062	11.722	1.228	11.819	0.874	11.916	1.381	12.11	1.193
9/29/2015 7:00	10.944	1.403	12.98	1.06	11.722	1.227	11.819	0.872	11.916	1.381	12.11	1.189
9/29/2015 8:00	10.944	1.402	12.98	1.062	11.722	1.226	11.819	0.873	11.916	1.378	12.11	1.191
9/29/2015 9:00	10.944	1.401	12.98	1.046	11.722	1.226	11.819	0.87	11.916	1.379	12.11	1.191
9/29/2015 10:00	10.944	1.402	12.98	1.057	11.722	1.229	11.819	0.873	11.916	1.381	12.11	1.192
9/29/2015 11:00	10.944	1.402	12.98	1.056	11.722	1.228	11.819	0.872	11.916	1.38	12.11	1.192
9/29/2015 12:00	10.944	1.404	12.883	1.064	11.722	1.228	11.819	0.873	11.916	1.384	12.11	1.195
9/29/2015 13:00	10.944	1.404	12.883	1.058	11.722	1.228	11.819	0.87	11.916	1.382	12.11	1.193
9/29/2015 14:00	10.944	1.405	12.883	1.067	11.722	1.227	11.819	0.871	11.916	1.382	12.11	1.193
9/29/2015 15:00	10.944	1.401	12.883	1.065	11.722	1.227	11.819	0.868	11.916	1.381	12.11	1.19
9/29/2015 16:00	10.944	1.401	12.883	1.068	11.722	1.226	11.819	0.868	11.916	1.379	12.11	1.191
9/29/2015 17:00	10.944	1.401	12.883	1.064	11.722	1.225	11.819	0.867	11.916	1.377	12.11	1.191
9/29/2015 18:00	10.944	1.401	12.883	1.066	11.722	1.226	11.819	0.868	11.916	1.381	12.11	1.192
9/29/2015 19:00	10.944	1.403	12.883	1.067	11.722	1.228	11.819	0.87	11.916	1.382	12.11	1.194
9/29/2015 20:00	10.944	1.402	12.883	1.065	11.722	1.227	11.819	0.868	11.916	1.381	12.11	1.192
9/29/2015 21:00	10.944	1.405	12.883	1.07	11.722	1.23	11.819	0.871	11.916	1.383	12.11	1.194
9/29/2015 22:00	10.944	1.4	12.883	1.065	11.722	1.227	11.819	0.868	11.916	1.38	12.11	1.192
9/29/2015 23:00	10.944	1.401	12.883	1.067	11.722	1.226	11.819	0.867	11.916	1.379	12.11	1.191
9/30/2015 0:00	10.944	1.4	12.883	1.067	11.722	1.227	11.819	0.868	11.916	1.381	12.207	1.192
9/30/2015 1:00	10.944	1.403	12.883	1.069	11.722	1.228	11.819	0.87	11.916	1.382	12.11	1.194
9/30/2015 2:00	10.944	1.402	12.883	1.067	11.722	1.223	11.819	0.866	11.916	1.38	12.11	1.191
9/30/2015 3:00	10.944	1.4	12.883	1.069	11.722	1.226	11.819	0.869	11.916	1.38	12.207	1.194
9/30/2015 4:00	10.944	1.399	12.883	1.067	11.722	1.223	11.819	0.865	11.916	1.38	12.207	1.19
9/30/2015 5:00	10.944	1.401	12.883	1.064	11.722	1.225	11.819	0.867	11.916	1.379	12.11	1.19
9/30/2015 6:00	10.944	1.397	12.883	1.065	11.722	1.222	11.819	0.869	11.916	1.377	12.11	1.188
9/30/2015 7:00	10.944	1.398	12.883	1.068	11.722	1.224	11.819	0.891	11.916	1.378	12.11	1.19
9/30/2015 8:00	10.944	1.403	12.883	1.069	11.722	1.226	11.819	0.92	11.916	1.381	12.207	1.193
9/30/2015 9:00	10.944	1.402	12.883	1.069	11.722	1.224	11.819	0.94	11.916	1.383	12.207	1.194

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
9/30/2015 10:00	10.944	1.402	12.883	1.071	11.722	1.225	11.819	0.956	11.916	1.383	12.207	1.195
9/30/2015 11:00	10.944	1.403	12.883	1.074	11.722	1.226	11.819	0.976	11.916	1.384	12.207	1.196
9/30/2015 12:00	10.944	1.403	12.787	1.073	11.722	1.228	11.819	0.991	11.916	1.383	12.207	1.197
9/30/2015 13:00	10.944	1.405	12.787	1.055	11.722	1.227	11.819	1.008	11.916	1.385	12.207	1.197
9/30/2015 14:00	10.944	1.407	12.787	1.081	11.722	1.226	11.819	1.037	11.916	1.385	12.207	1.196
9/30/2015 15:00	10.944	1.406	12.787	1.063	11.722	1.23	11.819	1.086	11.916	1.386	12.207	1.2
9/30/2015 16:00	10.944	1.413	12.787	1.082	11.722	1.24	11.819	1.141	11.916	1.398	12.207	1.21
9/30/2015 17:00	10.944	1.415	12.787	1.089	11.722	1.241	11.819	1.18	11.916	1.404	12.207	1.214
9/30/2015 18:00	10.944	1.422	12.787	1.092	11.722	1.247	11.916	1.213	11.916	1.412	12.207	1.22
9/30/2015 19:00	10.944	1.424	12.787	1.096	11.722	1.248	11.916	1.246	11.916	1.419	12.207	1.223
9/30/2015 20:00	10.944	1.434	12.787	1.101	11.722	1.256	11.916	1.284	11.916	1.433	12.207	1.232
9/30/2015 21:00	10.944	1.44	12.787	1.103	11.722	1.258	11.916	1.308	11.916	1.443	12.207	1.236
9/30/2015 22:00	10.944	1.44	12.787	1.106	11.722	1.263	11.916	1.32	11.916	1.451	12.207	1.241
9/30/2015 23:00	10.944	1.451	12.787	1.115	11.722	1.27	11.916	1.335	11.916	1.463	12.207	1.248
10/1/2015 0:00	10.944	1.452	12.787	1.117	11.722	1.269	11.916	1.339	11.916	1.469	12.207	1.251
10/1/2015 1:00	10.944	1.459	12.787	1.123	11.722	1.276	11.916	1.348	11.916	1.482	12.207	1.261
10/1/2015 2:00	10.944	1.463	12.787	1.13	11.722	1.28	11.916	1.351	11.916	1.489	12.207	1.264
10/1/2015 3:00	10.944	1.467	12.787	1.136	11.722	1.284	11.916	1.352	11.916	1.498	12.207	1.27
10/1/2015 4:00	10.944	1.471	12.787	1.14	11.722	1.289	11.916	1.353	11.916	1.505	12.207	1.277
10/1/2015 5:00	10.944	1.479	12.787	1.149	11.722	1.296	11.916	1.359	11.916	1.516	12.207	1.285
10/1/2015 6:00	10.944	1.48	12.787	1.143	11.722	1.297	11.916	1.353	11.916	1.517	12.207	1.289
10/1/2015 7:00	10.944	1.485	12.787	1.145	11.722	1.3	11.916	1.352	11.916	1.523	12.207	1.292
10/1/2015 8:00	10.944	1.488	12.787	1.149	11.722	1.304	11.916	1.351	11.916	1.529	12.207	1.299
10/1/2015 9:00	10.944	1.493	12.787	1.158	11.722	1.31	11.916	1.353	11.916	1.534	12.207	1.306
10/1/2015 10:00	10.944	1.495	12.787	1.156	11.722	1.314	11.916	1.351	11.916	1.537	12.207	1.308
10/1/2015 11:00	10.944	1.501	12.787	1.16	11.722	1.318	11.916	1.352	11.916	1.539	12.207	1.312
10/1/2015 12:00	10.944	1.5	12.787	1.16	11.722	1.32	11.916	1.348	11.916	1.54	12.207	1.315
10/1/2015 13:00	10.944	1.501	12.787	1.157	11.722	1.323	11.916	1.346	11.916	1.542	12.207	1.319
10/1/2015 14:00	10.944	1.505	12.787	1.162	11.722	1.326	11.916	1.344	11.916	1.542	12.207	1.319
10/1/2015 15:00	10.944	1.507	12.787	1.165	11.722	1.331	11.916	1.345	11.916	1.545	12.207	1.322
10/1/2015 16:00	10.944	1.507	12.787	1.163	11.722	1.331	11.916	1.343	11.916	1.543	12.207	1.324
10/1/2015 17:00	10.944	1.512	12.787	1.166	11.722	1.337	11.916	1.344	11.819	1.543	12.207	1.329
10/1/2015 18:00	10.944	1.514	12.787	1.168	11.722	1.339	11.916	1.344	11.819	1.545	12.207	1.331
10/1/2015 19:00	10.944	1.516	12.787	1.167	11.722	1.343	11.916	1.344	11.819	1.546	12.207	1.333
10/1/2015 20:00	10.944	1.516	12.787	1.167	11.722	1.342	11.916	1.339	11.819	1.542	12.207	1.332
10/1/2015 21:00	10.944	1.52	12.787	1.17	11.722	1.348	11.916	1.34	11.819	1.544	12.207	1.336
10/1/2015 22:00	10.944	1.521	12.787	1.167	11.722	1.349	11.916	1.338	11.819	1.544	12.207	1.335
10/1/2015 23:00	10.944	1.522	12.787	1.169	11.722	1.353	11.916	1.336	11.819	1.543	12.207	1.339
10/2/2015 0:00	10.944	1.527	12.787	1.171	11.722	1.358	11.916	1.336	11.819	1.544	12.207	1.341
10/2/2015 1:00	10.944	1.527	12.787	1.174	11.722	1.361	11.916	1.329	11.819	1.541	12.207	1.34
10/2/2015 2:00	10.944	1.527	12.787	1.172	11.722	1.363	11.916	1.327	11.819	1.54	12.207	1.343
10/2/2015 3:00	10.944	1.531	12.787	1.174	11.722	1.366	11.916	1.327	11.819	1.541	12.207	1.345
10/2/2015 4:00	10.944	1.528	12.787	1.168	11.722	1.366	11.916	1.323	11.819	1.536	12.207	1.34
10/2/2015 5:00	10.944	1.529	12.787	1.16	11.722	1.371	11.916	1.324	11.819	1.54	12.207	1.345
10/2/2015 6:00	10.944	1.529	12.787	1.167	11.722	1.369	11.916	1.317	11.819	1.535	12.207	1.341
10/2/2015 7:00	10.944	1.535	12.787	1.157	11.722	1.375	11.916	1.317	11.819	1.538	12.207	1.347
10/2/2015 8:00	10.944	1.532	12.787	1.163	11.722	1.375	11.916	1.31	11.819	1.532	12.207	1.344

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/2/2015 9:00	10.944	1.531	12.787	1.164	11.722	1.373	11.916	1.302	11.819	1.528	12.207	1.345
10/2/2015 10:00	10.944	1.531	12.787	1.169	11.722	1.378	11.916	1.296	11.819	1.53	12.207	1.345
10/2/2015 11:00	10.944	1.531	12.787	1.169	11.722	1.376	11.916	1.287	11.819	1.526	12.207	1.342
10/2/2015 12:00	10.944	1.533	12.787	1.166	11.722	1.378	11.916	1.28	11.819	1.522	12.207	1.341
10/2/2015 13:00	10.944	1.534	12.787	1.164	11.722	1.383	11.916	1.273	11.819	1.523	12.207	1.344
10/2/2015 14:00	10.944	1.535	12.787	1.16	11.722	1.383	11.916	1.266	11.819	1.522	12.207	1.343
10/2/2015 15:00	10.944	1.536	12.787	1.149	11.722	1.382	11.916	1.26	11.819	1.52	12.207	1.342
10/2/2015 16:00	10.944	1.536	12.787	1.161	11.722	1.386	11.916	1.254	11.819	1.519	12.207	1.345
10/2/2015 17:00	10.944	1.535	12.787	1.163	11.722	1.387	11.916	1.249	11.819	1.517	12.207	1.343
10/2/2015 18:00	10.944	1.535	12.787	1.152	11.722	1.386	11.916	1.242	11.819	1.513	12.207	1.342
10/2/2015 19:00	10.944	1.536	12.787	1.162	11.722	1.389	11.916	1.237	11.819	1.515	12.207	1.343
10/2/2015 20:00	10.944	1.536	12.787	1.161	11.722	1.389	11.916	1.234	11.819	1.509	12.207	1.341
10/2/2015 21:00	10.944	1.539	12.787	1.167	11.722	1.393	11.916	1.232	11.819	1.512	12.207	1.344
10/2/2015 22:00	10.944	1.539	12.787	1.162	11.722	1.393	11.916	1.227	11.819	1.509	12.207	1.343
10/2/2015 23:00	10.944	1.538	12.787	1.161	11.722	1.394	11.916	1.226	11.819	1.506	12.207	1.343
10/3/2015 0:00	10.944	1.538	12.787	1.157	11.722	1.394	11.916	1.224	11.819	1.506	12.207	1.344
10/3/2015 1:00	10.944	1.541	12.787	1.164	11.722	1.4	11.916	1.222	11.819	1.506	12.207	1.344
10/3/2015 2:00	10.944	1.539	12.787	1.15	11.722	1.399	11.916	1.219	11.819	1.501	12.207	1.343
10/3/2015 3:00	10.944	1.54	12.787	1.156	11.722	1.4	11.916	1.215	11.819	1.502	12.207	1.345
10/3/2015 4:00	10.944	1.54	12.787	1.158	11.722	1.402	11.916	1.213	11.819	1.499	12.207	1.344
10/3/2015 5:00	10.944	1.539	12.787	1.152	11.722	1.399	11.916	1.207	11.819	1.496	12.207	1.34
10/3/2015 6:00	10.944	1.541	12.787	1.155	11.722	1.406	11.916	1.209	11.819	1.5	12.207	1.345
10/3/2015 7:00	10.944	1.539	12.787	1.15	11.722	1.403	11.916	1.205	11.819	1.495	12.207	1.342
10/3/2015 8:00	10.944	1.537	12.787	1.147	11.722	1.4	11.916	1.2	11.819	1.491	12.207	1.34
10/3/2015 9:00	10.944	1.537	12.787	1.146	11.722	1.404	11.916	1.2	11.819	1.489	12.207	1.34
10/3/2015 10:00	10.944	1.535	12.787	1.141	11.722	1.4	11.916	1.195	11.819	1.486	12.207	1.336
10/3/2015 11:00	10.944	1.536	12.787	1.145	11.722	1.403	11.916	1.194	11.819	1.485	12.207	1.337
10/3/2015 12:00	10.944	1.535	12.787	1.143	11.722	1.403	11.916	1.191	11.819	1.483	12.207	1.336
10/3/2015 13:00	10.944	1.534	12.787	1.129	11.722	1.403	11.916	1.187	11.819	1.48	12.207	1.335
10/3/2015 14:00	10.944	1.536	12.787	1.133	11.722	1.403	11.916	1.187	11.819	1.482	12.207	1.337
10/3/2015 15:00	10.944	1.537	12.787	1.135	11.722	1.403	11.916	1.186	11.819	1.481	12.207	1.338
10/3/2015 16:00	10.944	1.536	12.787	1.138	11.722	1.405	11.916	1.184	11.819	1.48	12.207	1.337
10/3/2015 17:00	10.944	1.534	12.787	1.138	11.722	1.404	11.916	1.179	11.819	1.477	12.207	1.334
10/3/2015 18:00	10.944	1.537	12.787	1.137	11.722	1.405	11.916	1.178	11.819	1.478	12.207	1.335
10/3/2015 19:00	10.944	1.535	12.787	1.135	11.722	1.408	11.916	1.176	11.819	1.477	12.207	1.335
10/3/2015 20:00	10.944	1.538	12.787	1.133	11.722	1.407	11.916	1.176	11.819	1.475	12.207	1.333
10/3/2015 21:00	10.944	1.54	12.787	1.134	11.722	1.409	11.916	1.177	11.819	1.476	12.207	1.336
10/3/2015 22:00	10.944	1.538	12.787	1.133	11.722	1.409	11.916	1.176	11.819	1.475	12.207	1.335
10/3/2015 23:00	10.944	1.539	12.787	1.122	11.722	1.413	11.916	1.177	11.819	1.475	12.207	1.336
10/4/2015 0:00	10.944	1.54	12.787	1.133	11.722	1.413	11.916	1.174	11.819	1.474	12.207	1.336
10/4/2015 1:00	10.944	1.538	12.787	1.116	11.722	1.41	11.916	1.173	11.819	1.472	12.207	1.335
10/4/2015 2:00	10.944	1.537	12.787	1.126	11.722	1.408	11.916	1.169	11.819	1.469	12.207	1.332
10/4/2015 3:00	10.944	1.535	12.787	1.129	11.722	1.409	11.916	1.168	11.819	1.468	12.207	1.333
10/4/2015 4:00	10.944	1.536	12.787	1.128	11.722	1.41	11.916	1.167	11.819	1.468	12.207	1.332
10/4/2015 5:00	10.944	1.533	12.787	1.127	11.722	1.407	11.916	1.164	11.819	1.463	12.207	1.33
10/4/2015 6:00	10.944	1.535	12.69	1.129	11.722	1.406	11.916	1.163	11.722	1.462	12.207	1.33
10/4/2015 7:00	10.944	1.533	12.787	1.129	11.722	1.409	11.916	1.162	11.722	1.46	12.207	1.33

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/4/2015 8:00	10.944	1.531	12.69	1.123	11.722	1.407	11.916	1.162	11.722	1.458	12.207	1.325
10/4/2015 9:00	10.944	1.531	12.69	1.122	11.722	1.404	11.916	1.158	11.722	1.456	12.207	1.324
10/4/2015 10:00	10.944	1.528	12.69	1.116	11.722	1.404	11.916	1.155	11.722	1.454	12.207	1.322
10/4/2015 11:00	10.944	1.529	12.69	1.115	11.722	1.404	11.916	1.153	11.722	1.453	12.207	1.321
10/4/2015 12:00	10.944	1.526	12.69	1.117	11.722	1.404	11.916	1.154	11.722	1.45	12.207	1.321
10/4/2015 13:00	10.944	1.528	12.69	1.116	11.722	1.402	11.916	1.153	11.722	1.45	12.207	1.321
10/4/2015 14:00	10.944	1.524	12.69	1.118	11.722	1.402	11.916	1.151	11.722	1.45	12.207	1.319
10/4/2015 15:00	10.944	1.522	12.69	1.113	11.722	1.402	11.916	1.148	11.722	1.446	12.207	1.316
10/4/2015 16:00	10.944	1.527	12.69	1.103	11.722	1.405	11.916	1.147	11.722	1.446	12.207	1.319
10/4/2015 17:00	10.944	1.526	12.69	1.115	11.722	1.402	11.916	1.149	11.722	1.446	12.207	1.318
10/4/2015 18:00	10.944	1.529	12.69	1.117	11.722	1.405	11.916	1.148	11.722	1.447	12.207	1.319
10/4/2015 19:00	10.944	1.528	12.69	1.121	11.722	1.405	11.916	1.145	11.722	1.446	12.207	1.318
10/4/2015 20:00	10.944	1.525	12.69	1.113	11.722	1.404	11.916	1.145	11.722	1.445	12.207	1.318
10/4/2015 21:00	10.944	1.525	12.69	1.11	11.722	1.403	11.916	1.145	11.722	1.444	12.207	1.315
10/4/2015 22:00	10.944	1.527	12.69	1.109	11.722	1.403	11.916	1.146	11.722	1.444	12.207	1.318
10/4/2015 23:00	10.944	1.528	12.69	1.102	11.722	1.403	11.916	1.144	11.722	1.442	12.207	1.316
10/5/2015 0:00	10.944	1.524	12.69	1.104	11.722	1.403	11.916	1.146	11.722	1.444	12.207	1.316
10/5/2015 1:00	10.944	1.526	12.69	1.081	11.722	1.406	11.916	1.144	11.722	1.444	12.207	1.316
10/5/2015 2:00	10.944	1.526	12.69	1.107	11.722	1.408	11.916	1.146	11.722	1.443	12.207	1.316
10/5/2015 3:00	10.944	1.528	12.69	1.113	11.722	1.405	11.916	1.148	11.722	1.443	12.207	1.317
10/5/2015 4:00	10.944	1.526	12.69	1.111	11.722	1.403	11.916	1.143	11.722	1.44	12.207	1.315
10/5/2015 5:00	10.944	1.524	12.69	1.105	11.722	1.404	11.916	1.143	11.722	1.441	12.207	1.313
10/5/2015 6:00	10.944	1.526	12.69	1.111	11.722	1.404	11.916	1.144	11.722	1.439	12.207	1.313
10/5/2015 7:00	10.944	1.526	12.69	1.104	11.722	1.404	11.916	1.145	11.722	1.44	12.207	1.315
10/5/2015 8:00	10.944	1.525	12.69	1.104	11.722	1.403	11.916	1.144	11.722	1.439	12.207	1.313
10/5/2015 9:00	10.944	1.524	12.594	1.105	11.722	1.404	11.916	1.143	11.722	1.439	12.207	1.314
10/5/2015 10:00	10.944	1.522	12.594	1.1	11.722	1.4	11.916	1.138	11.722	1.433	12.207	1.308
10/5/2015 11:00	10.944	1.521	12.594	1.102	11.722	1.401	11.916	1.141	11.722	1.435	12.207	1.309
10/5/2015 12:00	10.944	1.519	12.594	1.102	11.722	1.4	11.916	1.138	11.722	1.433	12.207	1.307
10/5/2015 13:00	10.944	1.522	12.594	1.088	11.722	1.4	11.916	1.141	11.722	1.432	12.207	1.306
10/5/2015 14:00	10.944	1.518	12.594	1.098	11.722	1.398	11.916	1.137	11.722	1.431	12.207	1.304
10/5/2015 15:00	10.944	1.52	12.594	1.043	11.722	1.4	11.916	1.137	11.722	1.433	12.207	1.305
10/5/2015 16:00	10.944	1.518	12.594	1.082	11.722	1.396	11.916	1.136	11.722	1.43	12.207	1.302
10/5/2015 17:00	10.944	1.519	12.594	1.088	11.722	1.4	11.916	1.135	11.722	1.43	12.207	1.304
10/5/2015 18:00	10.944	1.52	12.594	1.095	11.722	1.4	11.916	1.137	11.722	1.433	12.207	1.305
10/5/2015 19:00	10.944	1.518	12.594	1.094	11.722	1.399	11.916	1.132	11.722	1.428	12.207	1.303
10/5/2015 20:00	10.944	1.518	12.594	1.098	11.722	1.398	11.916	1.131	11.722	1.426	12.207	1.303
10/5/2015 21:00	10.944	1.519	12.594	1.094	11.722	1.398	11.819	1.13	11.722	1.427	12.207	1.301
10/5/2015 22:00	10.944	1.517	12.594	1.095	11.722	1.399	11.916	1.131	11.722	1.428	12.207	1.302
10/5/2015 23:00	10.944	1.518	12.594	1.098	11.722	1.397	11.916	1.132	11.722	1.426	12.207	1.301
10/6/2015 0:00	10.944	1.519	12.594	1.085	11.722	1.4	11.916	1.131	11.722	1.427	12.207	1.3
10/6/2015 1:00	10.944	1.517	12.594	1.05	11.722	1.397	11.916	1.129	11.722	1.426	12.207	1.299
10/6/2015 2:00	10.944	1.515	12.594	1.073	11.722	1.399	11.916	1.131	11.722	1.425	12.207	1.299
10/6/2015 3:00	10.944	1.516	12.594	1.078	11.625	1.398	11.819	1.13	11.722	1.426	12.207	1.301
10/6/2015 4:00	10.944	1.517	12.594	1.078	11.625	1.396	11.819	1.131	11.722	1.426	12.207	1.3
10/6/2015 5:00	10.944	1.517	12.497	1.081	11.625	1.397	11.916	1.131	11.722	1.426	12.207	1.301
10/6/2015 6:00	10.944	1.517	12.497	1.094	11.625	1.396	11.819	1.132	11.722	1.425	12.207	1.3

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/6/2015 7:00	10.944	1.516	12.497	1.094	11.722	1.398	11.819	1.129	11.722	1.425	12.207	1.3
10/6/2015 8:00	10.944	1.515	12.497	1.094	11.625	1.396	11.819	1.129	11.722	1.422	12.207	1.299
10/6/2015 9:00	10.944	1.512	12.497	1.09	11.722	1.395	11.819	1.128	11.722	1.419	12.207	1.294
10/6/2015 10:00	10.944	1.509	12.497	1.089	11.722	1.392	11.819	1.124	11.722	1.417	12.207	1.291
10/6/2015 11:00	10.944	1.512	12.497	1.091	11.625	1.391	11.819	1.123	11.722	1.418	12.207	1.292
10/6/2015 12:00	10.944	1.512	12.497	1.091	11.625	1.391	11.916	1.125	11.722	1.42	12.207	1.291
10/6/2015 13:00	10.944	1.511	12.497	1.091	11.722	1.391	11.916	1.123	11.722	1.418	12.207	1.291
10/6/2015 14:00	10.944	1.512	12.497	1.092	11.722	1.391	11.819	1.122	11.722	1.419	12.207	1.291
10/6/2015 15:00	10.944	1.511	12.497	1.093	11.625	1.39	11.916	1.122	11.722	1.418	12.207	1.29
10/6/2015 16:00	10.944	1.51	12.497	1.093	11.625	1.391	11.916	1.119	11.722	1.417	12.207	1.291
10/6/2015 17:00	10.944	1.513	12.497	1.095	11.722	1.391	11.819	1.119	11.722	1.419	12.207	1.292
10/6/2015 18:00	10.944	1.511	12.497	1.09	11.722	1.389	11.916	1.116	11.722	1.414	12.207	1.288
10/6/2015 19:00	10.944	1.512	12.497	1.094	11.722	1.392	11.819	1.117	11.625	1.417	12.207	1.291
10/6/2015 20:00	10.944	1.513	12.401	1.089	11.722	1.393	11.819	1.117	11.625	1.417	12.207	1.29
10/6/2015 21:00	10.944	1.513	12.401	1.092	11.722	1.392	11.819	1.115	11.625	1.419	12.207	1.291
10/6/2015 22:00	10.944	1.511	12.401	1.091	11.722	1.389	11.819	1.114	11.625	1.415	12.207	1.289
10/6/2015 23:00	10.944	1.511	12.401	1.091	11.722	1.39	11.819	1.115	11.625	1.418	12.207	1.29
10/7/2015 0:00	10.944	1.514	12.401	1.094	11.625	1.39	11.819	1.116	11.625	1.419	12.207	1.29
10/7/2015 1:00	10.944	1.51	12.401	1.092	11.625	1.387	11.819	1.113	11.625	1.417	12.207	1.288
10/7/2015 2:00	10.944	1.512	12.401	1.093	11.625	1.39	11.819	1.113	11.625	1.416	12.207	1.29
10/7/2015 3:00	10.944	1.511	12.401	1.092	11.625	1.391	11.819	1.114	11.625	1.419	12.207	1.287
10/7/2015 4:00	10.944	1.509	12.401	1.089	11.625	1.389	11.819	1.112	11.625	1.414	12.207	1.287
10/7/2015 5:00	10.944	1.51	12.401	1.084	11.625	1.389	11.819	1.114	11.625	1.416	12.207	1.286
10/7/2015 6:00	10.944	1.508	12.401	1.09	11.625	1.386	11.819	1.11	11.625	1.414	12.207	1.284
10/7/2015 7:00	10.944	1.508	12.401	1.091	11.625	1.387	11.819	1.112	11.625	1.415	12.207	1.286
10/7/2015 8:00	10.944	1.504	12.401	1.086	11.625	1.382	11.819	1.106	11.625	1.409	12.207	1.281
10/7/2015 9:00	10.944	1.505	12.401	1.087	11.625	1.383	11.819	1.107	11.625	1.411	12.207	1.282
10/7/2015 10:00	10.944	1.505	12.401	1.086	11.625	1.382	11.819	1.107	11.625	1.409	12.207	1.28
10/7/2015 11:00	10.944	1.503	12.401	1.086	11.625	1.381	11.819	1.105	11.625	1.41	12.207	1.281
10/7/2015 12:00	10.944	1.507	12.401	1.086	11.625	1.382	11.819	1.107	11.625	1.409	12.207	1.28
10/7/2015 13:00	10.944	1.505	12.401	1.087	11.625	1.379	11.819	1.104	11.625	1.408	12.207	1.279
10/7/2015 14:00	10.944	1.505	12.304	1.087	11.625	1.382	11.819	1.104	11.625	1.408	12.207	1.278
10/7/2015 15:00	10.944	1.504	12.304	1.054	11.625	1.379	11.819	1.103	11.625	1.408	12.207	1.277
10/7/2015 16:00	10.944	1.504	12.304	1.078	11.625	1.379	11.819	1.1	11.625	1.409	12.207	1.277
10/7/2015 17:00	10.944	1.508	12.304	1.087	11.625	1.382	11.819	1.101	11.625	1.412	12.207	1.28
10/7/2015 18:00	10.944	1.506	12.304	1.085	11.625	1.38	11.819	1.097	11.625	1.407	12.207	1.277
10/7/2015 19:00	10.944	1.505	12.304	1.086	11.625	1.38	11.819	1.096	11.625	1.409	12.207	1.277
10/7/2015 20:00	10.944	1.505	12.304	1.084	11.625	1.378	11.819	1.095	11.625	1.408	12.207	1.276
10/7/2015 21:00	10.944	1.503	12.304	1.085	11.625	1.377	11.819	1.094	11.625	1.408	12.207	1.276
10/7/2015 22:00	10.944	1.505	12.304	1.086	11.625	1.377	11.819	1.095	11.625	1.409	12.207	1.276
10/7/2015 23:00	10.944	1.503	12.304	1.085	11.625	1.377	11.819	1.095	11.625	1.409	12.207	1.276
10/8/2015 0:00	10.944	1.504	12.304	1.083	11.625	1.374	11.819	1.095	11.625	1.408	12.207	1.275
10/8/2015 1:00	10.944	1.503	12.304	1.086	11.625	1.379	11.819	1.095	11.625	1.41	12.207	1.276
10/8/2015 2:00	10.944	1.504	12.304	1.087	11.625	1.38	11.819	1.097	11.625	1.408	12.207	1.274
10/8/2015 3:00	10.944	1.503	12.304	1.081	11.625	1.377	11.819	1.094	11.625	1.408	12.207	1.274
10/8/2015 4:00	10.944	1.501	12.304	1.085	11.625	1.376	11.819	1.093	11.625	1.406	12.207	1.271
10/8/2015 5:00	10.944	1.502	12.304	1.082	11.625	1.374	11.819	1.092	11.625	1.405	12.207	1.273

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/8/2015 6:00	10.944	1.504	12.304	1.087	11.625	1.375	11.819	1.095	11.625	1.41	12.207	1.275
10/8/2015 7:00	10.944	1.506	12.304	1.087	11.625	1.376	11.819	1.095	11.625	1.411	12.207	1.276
10/8/2015 8:00	10.944	1.507	12.304	1.085	11.625	1.378	11.819	1.093	11.625	1.412	12.207	1.277
10/8/2015 9:00	10.944	1.505	12.304	1.084	11.625	1.376	11.819	1.092	11.625	1.408	12.207	1.273
10/8/2015 10:00	10.944	1.501	12.207	1.084	11.625	1.373	11.819	1.09	11.625	1.407	12.207	1.273
10/8/2015 11:00	10.944	1.5	12.207	1.082	11.625	1.372	11.819	1.088	11.625	1.406	12.207	1.269
10/8/2015 12:00	10.944	1.5	12.207	1.083	11.625	1.37	11.819	1.087	11.625	1.405	12.207	1.269
10/8/2015 13:00	10.944	1.501	12.207	1.082	11.625	1.371	11.819	1.087	11.625	1.404	12.207	1.268
10/8/2015 14:00	10.944	1.502	12.207	1.084	11.625	1.369	11.819	1.086	11.625	1.405	12.207	1.269
10/8/2015 15:00	10.944	1.501	12.207	1.082	11.625	1.368	11.819	1.082	11.625	1.404	12.207	1.266
10/8/2015 16:00	10.944	1.501	12.207	1.083	11.625	1.37	11.819	1.083	11.625	1.405	12.207	1.269
10/8/2015 17:00	10.944	1.499	12.207	1.079	11.625	1.369	11.819	1.08	11.625	1.404	12.207	1.267
10/8/2015 18:00	10.944	1.502	12.207	1.084	11.625	1.37	11.819	1.081	11.625	1.404	12.207	1.269
10/8/2015 19:00	10.944	1.502	12.207	1.084	11.625	1.369	11.819	1.08	11.625	1.406	12.207	1.269
10/8/2015 20:00	10.944	1.5	12.207	1.083	11.625	1.368	11.819	1.078	11.625	1.404	12.207	1.266
10/8/2015 21:00	10.944	1.501	12.207	1.083	11.625	1.37	11.819	1.079	11.625	1.404	12.207	1.269
10/8/2015 22:00	10.944	1.503	12.207	1.083	11.625	1.37	11.819	1.078	11.625	1.406	12.207	1.27
10/8/2015 23:00	10.944	1.503	12.207	1.085	11.625	1.369	11.819	1.078	11.625	1.406	12.207	1.268
10/9/2015 0:00	10.944	1.503	12.207	1.084	11.625	1.369	11.819	1.079	11.625	1.405	12.207	1.268
10/9/2015 1:00	10.944	1.503	12.207	1.075	11.625	1.37	11.819	1.081	11.625	1.409	12.207	1.27
10/9/2015 2:00	10.944	1.501	12.207	1.084	11.625	1.366	11.819	1.079	11.625	1.404	12.207	1.265
10/9/2015 3:00	10.944	1.506	12.207	1.089	11.625	1.37	11.819	1.081	11.625	1.407	12.207	1.269
10/9/2015 4:00	10.944	1.501	12.207	1.087	11.625	1.367	11.819	1.078	11.625	1.405	12.207	1.266
10/9/2015 5:00	10.944	1.504	12.11	1.088	11.625	1.37	11.819	1.08	11.625	1.407	12.207	1.268
10/9/2015 6:00	10.944	1.502	12.11	1.089	11.625	1.369	11.819	1.08	11.625	1.407	12.207	1.266
10/9/2015 7:00	10.944	1.501	12.11	1.088	11.625	1.364	11.819	1.08	11.625	1.405	12.207	1.266
10/9/2015 8:00	10.944	1.497	12.11	1.081	11.625	1.361	11.819	1.075	11.528	1.4	12.207	1.262
10/9/2015 9:00	10.944	1.497	12.11	1.081	11.625	1.36	11.819	1.077	11.528	1.401	12.207	1.262
10/9/2015 10:00	10.944	1.496	12.11	1.086	11.625	1.361	11.819	1.075	11.528	1.401	12.207	1.26
10/9/2015 11:00	10.944	1.495	12.11	1.066	11.625	1.358	11.819	1.076	11.528	1.398	12.207	1.259
10/9/2015 12:00	10.944	1.496	12.11	1.063	11.625	1.358	11.819	1.075	11.528	1.401	12.207	1.259
10/9/2015 13:00	10.944	1.499	12.11	1.086	11.625	1.36	11.819	1.08	11.528	1.4	12.207	1.262
10/9/2015 14:00	10.944	1.497	12.11	1.074	11.625	1.358	11.819	1.08	11.528	1.398	12.207	1.261
10/9/2015 15:00	10.944	1.497	12.11	1.057	11.625	1.356	11.819	1.081	11.528	1.397	12.207	1.259
10/9/2015 16:00	10.944	1.503	12.11	1.087	11.625	1.365	11.819	1.096	11.528	1.403	12.207	1.266
10/9/2015 17:00	10.944	1.503	12.11	1.09	11.625	1.362	11.819	1.115	11.528	1.404	12.207	1.266
10/9/2015 18:00	10.944	1.502	12.11	1.065	11.625	1.364	11.819	1.14	11.528	1.404	12.207	1.262
10/9/2015 19:00	10.944	1.499	12.11	1.085	11.625	1.356	11.819	1.161	11.528	1.402	12.207	1.26
10/9/2015 20:00	10.944	1.499	12.11	1.09	11.625	1.354	11.819	1.18	11.528	1.402	12.207	1.26
10/9/2015 21:00	10.944	1.496	12.11	1.086	11.625	1.352	11.819	1.187	11.528	1.397	12.207	1.258
10/9/2015 22:00	10.944	1.495	12.11	1.086	11.625	1.355	11.819	1.197	11.528	1.4	12.207	1.259
10/9/2015 23:00	10.944	1.496	12.11	1.087	11.625	1.355	11.819	1.212	11.528	1.401	12.207	1.258
10/10/2015 0:00	10.944	1.495	12.11	1.09	11.625	1.355	11.819	1.223	11.528	1.402	12.207	1.257
10/10/2015 1:00	10.944	1.501	12.013	1.093	11.625	1.359	11.819	1.235	11.528	1.406	12.207	1.261
10/10/2015 2:00	10.944	1.499	12.013	1.092	11.625	1.364	11.819	1.244	11.528	1.408	12.207	1.264
10/10/2015 3:00	10.944	1.499	12.013	1.097	11.625	1.363	11.819	1.248	11.528	1.409	12.207	1.264
10/10/2015 4:00	10.944	1.501	12.013	1.096	11.625	1.365	11.819	1.253	11.528	1.412	12.207	1.264

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/10/2015 5:00	10.944	1.5	12.013	1.094	11.625	1.363	11.819	1.258	11.528	1.411	12.207	1.264
10/10/2015 6:00	10.846	1.503	12.013	1.099	11.625	1.367	11.819	1.261	11.528	1.415	12.207	1.265
10/10/2015 7:00	10.846	1.505	12.013	1.101	11.625	1.367	11.819	1.261	11.528	1.416	12.207	1.267
10/10/2015 8:00	10.846	1.51	12.013	1.101	11.625	1.373	11.819	1.267	11.528	1.421	12.207	1.271
10/10/2015 9:00	10.846	1.506	12.013	1.102	11.625	1.369	11.819	1.263	11.528	1.418	12.207	1.267
10/10/2015 10:00	10.944	1.508	12.013	1.106	11.625	1.373	11.819	1.266	11.528	1.424	12.207	1.268
10/10/2015 11:00	10.846	1.511	12.013	1.109	11.625	1.373	11.819	1.264	11.528	1.426	12.207	1.269
10/10/2015 12:00	10.846	1.511	12.013	1.11	11.625	1.373	11.819	1.261	11.528	1.426	12.207	1.269
10/10/2015 13:00	10.846	1.514	12.013	1.117	11.625	1.375	11.819	1.26	11.528	1.43	12.207	1.272
10/10/2015 14:00	10.944	1.515	12.013	1.058	11.625	1.375	11.819	1.254	11.528	1.431	12.207	1.27
10/10/2015 15:00	10.846	1.517	12.013	1.114	11.625	1.378	11.819	1.25	11.528	1.434	12.207	1.274
10/10/2015 16:00	10.846	1.516	12.013	1.118	11.625	1.378	11.819	1.244	11.528	1.433	12.207	1.273
10/10/2015 17:00	10.846	1.515	12.013	1.121	11.625	1.38	11.819	1.239	11.528	1.436	12.207	1.275
10/10/2015 18:00	10.846	1.516	12.013	1.122	11.625	1.38	11.819	1.234	11.528	1.438	12.207	1.275
10/10/2015 19:00	10.846	1.518	12.013	1.123	11.625	1.38	11.819	1.229	11.528	1.437	12.207	1.275
10/10/2015 20:00	10.846	1.519	12.013	1.124	11.625	1.382	11.819	1.225	11.528	1.439	12.207	1.277
10/10/2015 21:00	10.846	1.522	12.013	1.128	11.625	1.383	11.819	1.224	11.528	1.443	12.207	1.281
10/10/2015 22:00	10.846	1.52	12.013	1.125	11.625	1.382	11.819	1.218	11.528	1.441	12.207	1.277
10/10/2015 23:00	10.846	1.521	11.916	1.129	11.625	1.384	11.819	1.216	11.528	1.443	12.207	1.28
10/11/2015 0:00	10.846	1.519	11.916	1.128	11.625	1.383	11.819	1.212	11.528	1.441	12.207	1.278
10/11/2015 1:00	10.846	1.52	11.916	1.127	11.625	1.382	11.819	1.208	11.528	1.441	12.207	1.279
10/11/2015 2:00	10.846	1.519	11.916	1.127	11.625	1.383	11.819	1.203	11.528	1.443	12.11	1.276
10/11/2015 3:00	10.846	1.519	11.916	1.129	11.625	1.382	11.819	1.202	11.528	1.442	12.207	1.276
10/11/2015 4:00	10.846	1.518	11.916	1.127	11.625	1.382	11.819	1.2	11.431	1.443	12.207	1.277
10/11/2015 5:00	10.846	1.52	11.916	1.126	11.625	1.381	11.819	1.196	11.431	1.441	12.11	1.275
10/11/2015 6:00	10.846	1.518	11.916	1.129	11.625	1.382	11.819	1.197	11.431	1.441	12.11	1.277
10/11/2015 7:00	10.846	1.518	11.916	1.127	11.625	1.381	11.819	1.193	11.431	1.44	12.11	1.275
10/11/2015 8:00	10.846	1.519	11.916	1.128	11.625	1.383	11.819	1.193	11.431	1.441	12.11	1.276
10/11/2015 9:00	10.846	1.518	11.916	1.127	11.625	1.383	11.819	1.19	11.431	1.441	12.11	1.276
10/11/2015 10:00	10.846	1.518	11.916	1.131	11.625	1.385	11.819	1.19	11.431	1.443	12.11	1.278
10/11/2015 11:00	10.846	1.521	11.916	1.129	11.625	1.386	11.819	1.191	11.431	1.445	12.11	1.278
10/11/2015 12:00	10.846	1.522	11.916	1.131	11.625	1.387	11.819	1.19	11.431	1.445	12.11	1.282
10/11/2015 13:00	10.846	1.527	11.916	1.134	11.625	1.39	11.819	1.19	11.431	1.447	12.11	1.282
10/11/2015 14:00	10.846	1.525	11.916	1.135	11.625	1.388	11.819	1.186	11.431	1.447	12.11	1.281
10/11/2015 15:00	10.846	1.525	11.916	1.136	11.625	1.388	11.819	1.185	11.431	1.448	12.11	1.281
10/11/2015 16:00	10.846	1.522	11.916	1.132	11.625	1.383	11.819	1.181	11.431	1.443	12.11	1.278
10/11/2015 17:00	10.846	1.523	11.819	1.132	11.625	1.386	11.819	1.179	11.431	1.446	12.11	1.281
10/11/2015 18:00	10.846	1.524	11.819	1.129	11.625	1.387	11.819	1.177	11.431	1.445	12.11	1.28
10/11/2015 19:00	10.846	1.523	11.819	1.13	11.625	1.389	11.819	1.174	11.431	1.445	12.11	1.281
10/11/2015 20:00	10.846	1.523	11.819	1.13	11.625	1.387	11.819	1.173	11.431	1.443	12.11	1.281
10/11/2015 21:00	10.846	1.52	11.819	1.111	11.625	1.386	11.819	1.168	11.431	1.441	12.11	1.277
10/11/2015 22:00	10.846	1.52	11.819	1.125	11.625	1.384	11.819	1.168	11.431	1.441	12.11	1.278
10/11/2015 23:00	10.846	1.519	11.819	1.126	11.625	1.385	11.819	1.168	11.431	1.442	12.11	1.278
10/12/2015 0:00	10.846	1.52	11.819	1.125	11.625	1.385	11.819	1.166	11.431	1.442	12.11	1.28
10/12/2015 1:00	10.846	1.519	11.819	1.127	11.625	1.386	11.819	1.163	11.431	1.443	12.11	1.277
10/12/2015 2:00	10.846	1.521	11.819	1.126	11.625	1.386	11.819	1.167	11.431	1.442	12.11	1.279
10/12/2015 3:00	10.846	1.522	11.819	1.129	11.625	1.389	11.819	1.166	11.431	1.443	12.11	1.28

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/12/2015 4:00	10.846	1.522	11.819	1.128	11.625	1.389	11.819	1.167	11.431	1.443	12.11	1.28
10/12/2015 5:00	10.846	1.523	11.819	1.128	11.625	1.388	11.819	1.164	11.431	1.441	12.11	1.282
10/12/2015 6:00	10.846	1.524	11.819	1.129	11.625	1.39	11.819	1.166	11.431	1.443	12.11	1.283
10/12/2015 7:00	10.846	1.523	11.819	1.127	11.625	1.39	11.819	1.163	11.431	1.443	12.11	1.283
10/12/2015 8:00	10.846	1.521	11.819	1.121	11.625	1.39	11.819	1.162	11.431	1.442	12.11	1.283
10/12/2015 9:00	10.846	1.523	11.819	1.123	11.625	1.388	11.819	1.162	11.431	1.44	12.11	1.282
10/12/2015 10:00	10.846	1.521	11.819	1.097	11.625	1.387	11.722	1.158	11.431	1.439	12.11	1.28
10/12/2015 11:00	10.846	1.519	11.819	1.097	11.625	1.385	11.819	1.157	11.431	1.438	12.11	1.278
10/12/2015 12:00	10.846	1.517	11.819	1.112	11.625	1.382	11.819	1.156	11.431	1.436	12.11	1.278
10/12/2015 13:00	10.846	1.518	11.722	1.119	11.625	1.384	11.819	1.155	11.431	1.437	12.11	1.278
10/12/2015 14:00	10.846	1.518	11.722	1.116	11.625	1.384	11.722	1.155	11.431	1.437	12.11	1.278
10/12/2015 15:00	10.846	1.521	11.722	1.123	11.625	1.387	11.722	1.155	11.431	1.439	12.11	1.28
10/12/2015 16:00	10.846	1.519	11.722	1.121	11.625	1.385	11.722	1.153	11.431	1.438	12.11	1.278
10/12/2015 17:00	10.846	1.519	11.722	1.124	11.625	1.387	11.722	1.155	11.431	1.439	12.11	1.28
10/12/2015 18:00	10.846	1.518	11.722	1.124	11.625	1.387	11.722	1.155	11.431	1.436	12.11	1.279
10/12/2015 19:00	10.846	1.519	11.722	1.121	11.625	1.386	11.722	1.152	11.431	1.437	12.11	1.28
10/12/2015 20:00	10.846	1.518	11.722	1.121	11.625	1.386	11.722	1.151	11.431	1.437	12.11	1.279
10/12/2015 21:00	10.846	1.516	11.722	1.115	11.625	1.384	11.722	1.149	11.431	1.434	12.11	1.277
10/12/2015 22:00	10.846	1.519	11.722	1.123	11.625	1.388	11.722	1.152	11.431	1.436	12.11	1.281
10/12/2015 23:00	10.846	1.52	11.722	1.12	11.625	1.386	11.722	1.15	11.431	1.437	12.11	1.281
10/13/2015 0:00	10.846	1.521	11.722	1.119	11.625	1.388	11.722	1.15	11.334	1.436	12.11	1.28
10/13/2015 1:00	10.846	1.52	11.722	1.121	11.625	1.388	11.722	1.149	11.334	1.436	12.11	1.28
10/13/2015 2:00	10.846	1.52	11.722	1.095	11.625	1.387	11.722	1.152	11.334	1.436	12.11	1.284
10/13/2015 3:00	10.846	1.52	11.722	1.118	11.625	1.386	11.722	1.15	11.334	1.436	12.11	1.282
10/13/2015 4:00	10.846	1.517	11.722	1.115	11.625	1.386	11.722	1.149	11.334	1.431	12.11	1.28
10/13/2015 5:00	10.846	1.518	11.722	1.118	11.625	1.386	11.722	1.149	11.334	1.432	12.11	1.28
10/13/2015 6:00	10.846	1.519	11.722	1.116	11.625	1.385	11.722	1.148	11.334	1.43	12.11	1.279
10/13/2015 7:00	10.846	1.518	11.722	1.115	11.625	1.384	11.722	1.148	11.334	1.434	12.11	1.28
10/13/2015 8:00	10.846	1.516	11.722	1.116	11.625	1.383	11.722	1.147	11.334	1.431	12.11	1.278
10/13/2015 9:00	10.846	1.516	11.625	1.116	11.625	1.385	11.722	1.147	11.334	1.432	12.11	1.28
10/13/2015 10:00	10.846	1.517	11.625	1.116	11.625	1.384	11.722	1.149	11.334	1.431	12.11	1.28
10/13/2015 11:00	10.846	1.516	11.625	1.115	11.625	1.383	11.722	1.148	11.334	1.431	12.11	1.278
10/13/2015 12:00	10.846	1.516	11.625	1.117	11.625	1.383	11.722	1.146	11.334	1.429	12.11	1.277
10/13/2015 13:00	10.846	1.518	11.625	1.119	11.625	1.384	11.722	1.148	11.334	1.431	12.11	1.279
10/13/2015 14:00	10.846	1.518	11.625	1.114	11.625	1.385	11.722	1.151	11.334	1.431	12.11	1.28
10/13/2015 15:00	10.846	1.52	11.625	1.11	11.528	1.386	11.722	1.156	11.334	1.429	12.11	1.277
10/13/2015 16:00	10.846	1.517	11.625	1.116	11.528	1.383	11.722	1.156	11.334	1.427	12.11	1.277
10/13/2015 17:00	10.846	1.517	11.625	1.105	11.528	1.383	11.722	1.161	11.334	1.427	12.11	1.278
10/13/2015 18:00	10.846	1.517	11.625	1.115	11.528	1.384	11.722	1.164	11.334	1.429	12.11	1.279
10/13/2015 19:00	10.846	1.515	11.625	1.114	11.625	1.386	11.722	1.166	11.334	1.428	12.11	1.279
10/13/2015 20:00	10.846	1.517	11.625	1.113	11.528	1.384	11.722	1.17	11.334	1.427	12.11	1.28
10/13/2015 21:00	10.846	1.519	11.625	1.117	11.528	1.385	11.722	1.173	11.334	1.432	12.11	1.281
10/13/2015 22:00	10.846	1.518	11.625	1.116	11.528	1.388	11.722	1.173	11.334	1.43	12.11	1.281
10/13/2015 23:00	10.846	1.519	11.625	1.116	11.528	1.387	11.722	1.174	11.334	1.43	12.11	1.28
10/14/2015 0:00	10.846	1.516	11.625	1.116	11.528	1.387	11.722	1.173	11.334	1.43	12.11	1.28
10/14/2015 1:00	10.846	1.519	11.625	1.118	11.528	1.387	11.722	1.176	11.334	1.431	12.11	1.282
10/14/2015 2:00	10.846	1.518	11.625	1.117	11.528	1.386	11.722	1.175	11.334	1.431	12.11	1.279

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/14/2015 3:00	10.846	1.518	11.625	1.116	11.528	1.387	11.722	1.175	11.334	1.429	12.11	1.281
10/14/2015 4:00	10.846	1.517	11.625	1.115	11.528	1.385	11.722	1.173	11.334	1.428	12.11	1.28
10/14/2015 5:00	10.846	1.516	11.625	1.115	11.528	1.387	11.722	1.175	11.334	1.428	12.11	1.281
10/14/2015 6:00	10.846	1.517	11.625	1.115	11.528	1.388	11.722	1.175	11.334	1.428	12.11	1.28
10/14/2015 7:00	10.846	1.514	11.625	1.111	11.528	1.385	11.722	1.172	11.334	1.426	12.11	1.279
10/14/2015 8:00	10.846	1.516	11.625	1.113	11.528	1.387	11.722	1.174	11.334	1.429	12.11	1.281
10/14/2015 9:00	10.846	1.516	11.528	1.115	11.528	1.39	11.722	1.175	11.334	1.429	12.11	1.282
10/14/2015 10:00	10.846	1.513	11.625	1.114	11.528	1.385	11.722	1.172	11.334	1.425	12.11	1.28
10/14/2015 11:00	10.846	1.514	11.528	1.107	11.528	1.388	11.722	1.171	11.334	1.426	12.11	1.279
10/14/2015 12:00	10.846	1.513	11.528	1.111	11.528	1.385	11.722	1.17	11.334	1.427	12.11	1.279
10/14/2015 13:00	10.846	1.514	11.528	1.112	11.528	1.388	11.722	1.168	11.334	1.424	12.11	1.278
10/14/2015 14:00	10.846	1.511	11.528	1.11	11.528	1.383	11.722	1.166	11.334	1.423	12.11	1.275
10/14/2015 15:00	10.846	1.512	11.528	1.11	11.528	1.383	11.722	1.165	11.334	1.426	12.11	1.277
10/14/2015 16:00	10.846	1.513	11.528	1.114	11.528	1.385	11.722	1.164	11.334	1.425	12.11	1.278
10/14/2015 17:00	10.846	1.515	11.528	1.114	11.528	1.386	11.722	1.165	11.334	1.427	12.11	1.278
10/14/2015 18:00	10.846	1.514	11.528	1.104	11.528	1.385	11.722	1.162	11.334	1.423	12.11	1.279
10/14/2015 19:00	10.846	1.516	11.528	1.111	11.528	1.385	11.722	1.161	11.334	1.424	12.11	1.278
10/14/2015 20:00	10.846	1.511	11.528	1.108	11.528	1.381	11.722	1.158	11.334	1.423	12.11	1.278
10/14/2015 21:00	10.846	1.512	11.528	1.11	11.528	1.385	11.722	1.162	11.334	1.426	12.11	1.281
10/14/2015 22:00	10.846	1.512	11.528	1.106	11.528	1.383	11.722	1.158	11.334	1.424	12.11	1.278
10/14/2015 23:00	10.846	1.514	11.528	1.111	11.528	1.387	11.722	1.159	11.334	1.427	12.11	1.28
10/15/2015 0:00	10.846	1.513	11.528	1.107	11.528	1.386	11.722	1.157	11.334	1.424	12.11	1.277
10/15/2015 1:00	10.846	1.513	11.528	1.109	11.528	1.388	11.722	1.158	11.334	1.423	12.11	1.28
10/15/2015 2:00	10.846	1.516	11.528	1.11	11.528	1.386	11.722	1.159	11.334	1.427	12.11	1.281
10/15/2015 3:00	10.846	1.514	11.528	1.11	11.528	1.388	11.722	1.156	11.334	1.425	12.11	1.28
10/15/2015 4:00	10.846	1.514	11.528	1.109	11.528	1.387	11.722	1.155	11.334	1.426	12.11	1.282
10/15/2015 5:00	10.846	1.514	11.528	1.108	11.528	1.386	11.722	1.152	11.334	1.425	12.11	1.28
10/15/2015 6:00	10.846	1.514	11.528	1.113	11.528	1.388	11.722	1.155	11.334	1.426	12.11	1.281
10/15/2015 7:00	10.846	1.515	11.528	1.113	11.528	1.389	11.722	1.154	11.236	1.426	12.11	1.282
10/15/2015 8:00	10.846	1.515	11.528	1.108	11.528	1.388	11.722	1.153	11.236	1.425	12.11	1.28
10/15/2015 9:00	10.846	1.511	11.528	1.107	11.528	1.385	11.722	1.149	11.236	1.423	12.11	1.28
10/15/2015 10:00	10.846	1.511	11.528	1.104	11.528	1.384	11.722	1.148	11.236	1.422	12.11	1.277
10/15/2015 11:00	10.846	1.512	11.528	1.106	11.528	1.386	11.722	1.15	11.236	1.422	12.11	1.279
10/15/2015 12:00	10.846	1.512	11.528	1.109	11.528	1.383	11.722	1.149	11.236	1.422	12.11	1.278
10/15/2015 13:00	10.846	1.512	11.528	1.109	11.528	1.385	11.722	1.15	11.236	1.422	12.11	1.279
10/15/2015 14:00	10.846	1.514	11.528	1.109	11.528	1.384	11.722	1.146	11.236	1.422	12.11	1.279
10/15/2015 15:00	10.846	1.514	11.528	1.11	11.528	1.384	11.722	1.147	11.236	1.421	12.11	1.279
10/15/2015 16:00	10.846	1.515	11.431	1.11	11.528	1.383	11.625	1.145	11.236	1.421	12.11	1.279
10/15/2015 17:00	10.846	1.513	11.431	1.113	11.528	1.383	11.625	1.144	11.236	1.422	12.11	1.279
10/15/2015 18:00	10.846	1.512	11.431	1.107	11.528	1.382	11.625	1.143	11.236	1.419	12.11	1.277
10/15/2015 19:00	10.846	1.508	11.431	1.105	11.528	1.38	11.625	1.141	11.236	1.417	12.11	1.277
10/15/2015 20:00	10.846	1.508	11.431	1.11	11.528	1.381	11.625	1.14	11.236	1.416	12.11	1.276
10/15/2015 21:00	10.846	1.509	11.431	1.107	11.528	1.38	11.625	1.14	11.236	1.417	12.11	1.276
10/15/2015 22:00	10.846	1.51	11.431	1.106	11.528	1.38	11.625	1.14	11.236	1.416	12.11	1.276
10/15/2015 23:00	10.846	1.509	11.431	1.108	11.528	1.382	11.625	1.138	11.236	1.418	12.11	1.275
10/16/2015 0:00	10.846	1.508	11.431	1.1	11.528	1.378	11.625	1.137	11.236	1.415	12.013	1.272
10/16/2015 1:00	10.846	1.51	11.431	1.109	11.528	1.381	11.625	1.142	11.236	1.418	12.11	1.276

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/16/2015 2:00	10.846	1.512	11.431	1.109	11.528	1.382	11.625	1.141	11.236	1.419	12.013	1.277
10/16/2015 3:00	10.846	1.512	11.431	1.111	11.528	1.382	11.625	1.142	11.236	1.418	12.013	1.276
10/16/2015 4:00	10.846	1.509	11.431	1.106	11.528	1.379	11.625	1.139	11.236	1.416	12.013	1.273
10/16/2015 5:00	10.846	1.512	11.431	1.108	11.528	1.381	11.625	1.142	11.236	1.417	12.013	1.276
10/16/2015 6:00	10.846	1.514	11.431	1.108	11.528	1.384	11.625	1.143	11.236	1.417	12.013	1.277
10/16/2015 7:00	10.846	1.51	11.431	1.106	11.528	1.381	11.625	1.141	11.236	1.416	12.013	1.274
10/16/2015 8:00	10.846	1.512	11.431	1.106	11.528	1.382	11.625	1.143	11.236	1.415	12.013	1.275
10/16/2015 9:00	10.846	1.514	11.431	1.109	11.528	1.383	11.625	1.145	11.236	1.42	12.013	1.277
10/16/2015 10:00	10.846	1.511	11.431	1.105	11.528	1.379	11.625	1.14	11.236	1.417	12.013	1.274
10/16/2015 11:00	10.846	1.509	11.431	1.104	11.528	1.379	11.625	1.138	11.236	1.415	12.013	1.271
10/16/2015 12:00	10.846	1.507	11.431	1.096	11.528	1.375	11.625	1.138	11.236	1.414	12.013	1.269
10/16/2015 13:00	10.846	1.506	11.431	1.101	11.528	1.377	11.625	1.139	11.236	1.41	12.013	1.269
10/16/2015 14:00	10.846	1.507	11.431	1.074	11.528	1.375	11.625	1.138	11.236	1.408	12.013	1.269
10/16/2015 15:00	10.846	1.505	11.431	1.091	11.528	1.374	11.625	1.137	11.236	1.409	12.013	1.267
10/16/2015 16:00	10.748	1.504	11.431	1.083	11.528	1.372	11.625	1.135	11.236	1.407	12.013	1.267
10/16/2015 17:00	10.748	1.507	11.431	1.101	11.528	1.375	11.625	1.139	11.236	1.411	12.013	1.269
10/16/2015 18:00	10.748	1.506	11.431	1.097	11.528	1.375	11.625	1.136	11.236	1.409	12.013	1.27
10/16/2015 19:00	10.748	1.506	11.431	1.1	11.528	1.375	11.625	1.136	11.236	1.411	12.013	1.271
10/16/2015 20:00	10.748	1.506	11.431	1.102	11.528	1.376	11.625	1.139	11.236	1.413	12.013	1.273
10/16/2015 21:00	10.748	1.505	11.431	1.102	11.528	1.376	11.625	1.136	11.236	1.413	12.013	1.272
10/16/2015 22:00	10.748	1.505	11.431	1.103	11.528	1.376	11.625	1.137	11.236	1.411	12.013	1.271
10/16/2015 23:00	10.748	1.506	11.431	1.107	11.528	1.378	11.625	1.137	11.236	1.416	12.013	1.273
10/17/2015 0:00	10.748	1.507	11.431	1.106	11.528	1.376	11.625	1.136	11.236	1.415	12.013	1.274
10/17/2015 1:00	10.748	1.507	11.431	1.103	11.528	1.377	11.625	1.135	11.236	1.414	12.013	1.274
10/17/2015 2:00	10.748	1.508	11.431	1.103	11.528	1.376	11.625	1.135	11.236	1.414	12.013	1.272
10/17/2015 3:00	10.748	1.509	11.431	1.107	11.528	1.38	11.625	1.134	11.236	1.416	12.013	1.275
10/17/2015 4:00	10.748	1.508	11.431	1.105	11.528	1.378	11.625	1.134	11.236	1.414	12.013	1.274
10/17/2015 5:00	10.748	1.505	11.431	1.102	11.528	1.376	11.625	1.131	11.236	1.412	12.013	1.27
10/17/2015 6:00	10.748	1.508	11.431	1.101	11.528	1.377	11.625	1.131	11.236	1.411	12.013	1.272
10/17/2015 7:00	10.748	1.507	11.431	1.099	11.528	1.375	11.625	1.129	11.139	1.409	12.013	1.272
10/17/2015 8:00	10.748	1.504	11.431	1.101	11.528	1.374	11.625	1.128	11.139	1.409	12.013	1.27
10/17/2015 9:00	10.748	1.504	11.334	1.099	11.528	1.374	11.625	1.129	11.139	1.408	12.013	1.268
10/17/2015 10:00	10.748	1.503	11.334	1.102	11.528	1.371	11.625	1.13	11.139	1.407	12.013	1.268
10/17/2015 11:00	10.748	1.503	11.334	1.101	11.528	1.372	11.625	1.131	11.139	1.409	12.013	1.268
10/17/2015 12:00	10.748	1.502	11.334	1.096	11.528	1.37	11.625	1.13	11.139	1.406	12.013	1.265
10/17/2015 13:00	10.748	1.505	11.334	1.105	11.528	1.372	11.625	1.131	11.139	1.408	12.013	1.268
10/17/2015 14:00	10.748	1.504	11.334	1.094	11.528	1.37	11.625	1.131	11.139	1.404	12.013	1.264
10/17/2015 15:00	10.748	1.506	11.334	1.098	11.528	1.371	11.625	1.133	11.139	1.406	12.013	1.266
10/17/2015 16:00	10.748	1.504	11.334	1.084	11.528	1.371	11.625	1.134	11.139	1.407	12.013	1.267
10/17/2015 17:00	10.748	1.503	11.334	1.099	11.528	1.37	11.625	1.136	11.139	1.406	12.013	1.268
10/17/2015 18:00	10.748	1.504	11.334	1.098	11.528	1.372	11.625	1.138	11.139	1.407	12.013	1.27
10/17/2015 19:00	10.748	1.505	11.334	1.097	11.528	1.37	11.625	1.137	11.139	1.406	12.013	1.271
10/17/2015 20:00	10.748	1.505	11.334	1.097	11.528	1.372	11.625	1.14	11.139	1.408	12.013	1.27
10/17/2015 21:00	10.748	1.503	11.334	1.098	11.528	1.371	11.625	1.137	11.139	1.406	12.013	1.268
10/17/2015 22:00	10.748	1.502	11.334	1.099	11.528	1.371	11.625	1.137	11.139	1.406	12.013	1.269
10/17/2015 23:00	10.748	1.505	11.334	1.087	11.528	1.373	11.625	1.137	11.139	1.408	12.013	1.269
10/18/2015 0:00	10.748	1.505	11.334	1.1	11.528	1.372	11.625	1.135	11.139	1.407	12.013	1.268

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/18/2015 1:00	10.748	1.501	11.334	1.098	11.528	1.369	11.625	1.133	11.139	1.406	12.013	1.267
10/18/2015 2:00	10.748	1.503	11.334	1.097	11.528	1.368	11.625	1.134	11.139	1.405	12.013	1.266
10/18/2015 3:00	10.748	1.502	11.334	1.096	11.431	1.367	11.625	1.131	11.139	1.404	12.013	1.264
10/18/2015 4:00	10.748	1.505	11.334	1.099	11.431	1.371	11.625	1.135	11.139	1.409	12.013	1.267
10/18/2015 5:00	10.748	1.503	11.334	1.097	11.431	1.368	11.625	1.134	11.139	1.405	12.013	1.266
10/18/2015 6:00	10.748	1.501	11.334	1.096	11.431	1.367	11.625	1.132	11.139	1.405	12.013	1.266
10/18/2015 7:00	10.748	1.503	11.334	1.099	11.431	1.37	11.625	1.132	11.139	1.405	12.013	1.265
10/18/2015 8:00	10.748	1.501	11.334	1.094	11.431	1.366	11.625	1.13	11.139	1.403	12.013	1.264
10/18/2015 9:00	10.748	1.501	11.334	1.091	11.431	1.362	11.625	1.127	11.139	1.401	12.013	1.262
10/18/2015 10:00	10.748	1.504	11.334	1.095	11.431	1.365	11.625	1.13	11.139	1.403	12.013	1.263
10/18/2015 11:00	10.748	1.5	11.334	1.095	11.431	1.364	11.625	1.128	11.041	1.404	12.013	1.263
10/18/2015 12:00	10.748	1.5	11.334	1.094	11.431	1.363	11.625	1.128	11.041	1.4	12.013	1.262
10/18/2015 13:00	10.748	1.503	11.334	1.094	11.431	1.364	11.625	1.128	11.041	1.401	12.013	1.264
10/18/2015 14:00	10.748	1.502	11.334	1.1	11.431	1.362	11.528	1.128	11.041	1.402	12.013	1.264
10/18/2015 15:00	10.748	1.501	11.236	1.093	11.431	1.362	11.528	1.125	11.041	1.399	12.013	1.263
10/18/2015 16:00	10.748	1.501	11.236	1.096	11.431	1.363	11.528	1.128	11.041	1.402	12.013	1.265
10/18/2015 17:00	10.748	1.503	11.236	1.096	11.431	1.364	11.528	1.128	11.041	1.403	12.013	1.264
10/18/2015 18:00	10.748	1.503	11.236	1.094	11.431	1.365	11.528	1.128	11.041	1.404	12.013	1.266
10/18/2015 19:00	10.748	1.502	11.236	1.095	11.431	1.364	11.528	1.125	11.041	1.404	12.013	1.264
10/18/2015 20:00	10.748	1.503	11.236	1.091	11.431	1.364	11.528	1.126	11.041	1.402	12.013	1.264
10/18/2015 21:00	10.748	1.503	11.236	1.094	11.431	1.365	11.528	1.127	11.041	1.403	12.013	1.265
10/18/2015 22:00	10.748	1.502	11.236	1.094	11.431	1.362	11.528	1.124	11.041	1.403	12.013	1.263
10/18/2015 23:00	10.748	1.503	11.236	1.094	11.431	1.363	11.528	1.125	11.041	1.402	12.013	1.264
10/19/2015 0:00	10.748	1.501	11.236	1.095	11.431	1.362	11.528	1.125	11.041	1.402	12.013	1.262
10/19/2015 1:00	10.748	1.5	11.236	1.094	11.431	1.363	11.528	1.124	11.041	1.401	12.013	1.264
10/19/2015 2:00	10.748	1.501	11.236	1.092	11.431	1.361	11.528	1.123	11.041	1.402	12.013	1.263
10/19/2015 3:00	10.748	1.501	11.236	1.091	11.431	1.361	11.528	1.123	11.041	1.401	12.013	1.264
10/19/2015 4:00	10.748	1.499	11.236	1.091	11.431	1.361	11.528	1.121	11.041	1.4	12.013	1.262
10/19/2015 5:00	10.748	1.5	11.236	1.092	11.431	1.361	11.528	1.122	11.041	1.4	12.013	1.263
10/19/2015 6:00	10.748	1.499	11.236	1.089	11.431	1.36	11.528	1.119	11.041	1.4	12.013	1.261
10/19/2015 7:00	10.748	1.499	11.236	1.089	11.334	1.358	11.528	1.117	10.944	1.399	12.013	1.262
10/19/2015 8:00	10.748	1.497	11.236	1.086	11.334	1.357	11.528	1.118	10.944	1.398	12.013	1.261
10/19/2015 9:00	10.748	1.497	11.236	1.085	11.334	1.356	11.528	1.116	10.944	1.395	12.013	1.259
10/19/2015 10:00	10.748	1.496	11.236	1.086	11.334	1.355	11.528	1.117	10.944	1.394	12.013	1.258
10/19/2015 11:00	10.748	1.498	11.236	1.091	11.334	1.356	11.528	1.12	10.944	1.397	12.013	1.26
10/19/2015 12:00	10.748	1.498	11.236	1.089	11.334	1.358	11.528	1.118	10.944	1.396	12.013	1.261
10/19/2015 13:00	10.748	1.5	11.236	1.067	11.334	1.359	11.528	1.12	10.944	1.399	12.013	1.259
10/19/2015 14:00	10.748	1.497	11.139	1.085	11.334	1.356	11.528	1.116	10.944	1.394	12.013	1.257
10/19/2015 15:00	10.748	1.497	11.139	1.09	11.334	1.354	11.528	1.117	10.944	1.395	11.916	1.257
10/19/2015 16:00	10.748	1.499	11.139	1.082	11.334	1.356	11.528	1.118	10.944	1.397	12.013	1.259
10/19/2015 17:00	10.748	1.5	11.139	1.051	11.236	1.358	11.528	1.118	10.944	1.397	11.916	1.259
10/19/2015 18:00	10.748	1.5	11.139	1.096	11.236	1.357	11.528	1.117	10.944	1.397	11.916	1.261
10/19/2015 19:00	10.748	1.499	11.139	1.096	11.236	1.355	11.528	1.117	10.944	1.397	11.916	1.258
10/19/2015 20:00	10.748	1.498	11.139	1.092	11.236	1.354	11.528	1.116	10.944	1.395	11.916	1.258
10/19/2015 21:00	10.748	1.499	11.139	1.092	11.236	1.354	11.528	1.114	10.944	1.394	11.916	1.255
10/19/2015 22:00	10.748	1.496	11.139	1.09	11.236	1.352	11.528	1.115	10.944	1.391	11.916	1.254
10/19/2015 23:00	10.748	1.496	11.139	1.093	11.236	1.353	11.528	1.116	10.944	1.394	11.916	1.256

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/20/2015 0:00	10.748	1.495	11.139	1.063	11.236	1.352	11.528	1.113	10.944	1.391	11.916	1.254
10/20/2015 1:00	10.748	1.499	11.139	1.093	11.236	1.352	11.528	1.116	10.944	1.394	11.916	1.256
10/20/2015 2:00	10.748	1.499	11.139	1.092	11.236	1.352	11.528	1.118	10.944	1.395	11.916	1.253
10/20/2015 3:00	10.748	1.498	11.139	1.093	11.236	1.35	11.528	1.116	10.944	1.392	11.916	1.253
10/20/2015 4:00	10.748	1.497	11.139	1.088	11.236	1.348	11.528	1.115	10.944	1.391	11.916	1.251
10/20/2015 5:00	10.748	1.494	11.139	1.09	11.236	1.347	11.528	1.114	10.846	1.389	11.916	1.25
10/20/2015 6:00	10.748	1.498	11.139	1.093	11.236	1.352	11.528	1.117	10.846	1.394	11.916	1.254
10/20/2015 7:00	10.748	1.499	11.139	1.092	11.236	1.349	11.528	1.115	10.846	1.392	11.916	1.252
10/20/2015 8:00	10.748	1.495	11.139	1.09	11.236	1.348	11.528	1.115	10.846	1.39	11.916	1.251
10/20/2015 9:00	10.748	1.495	11.139	1.088	11.236	1.346	11.528	1.114	10.846	1.389	11.916	1.249
10/20/2015 10:00	10.748	1.494	11.139	1.087	11.236	1.345	11.528	1.113	10.846	1.387	11.916	1.247
10/20/2015 11:00	10.748	1.492	11.041	1.085	11.236	1.345	11.528	1.112	10.846	1.386	11.916	1.248
10/20/2015 12:00	10.748	1.49	11.041	1.084	11.236	1.343	11.528	1.109	10.846	1.384	11.916	1.246
10/20/2015 13:00	10.748	1.493	11.041	1.08	11.236	1.343	11.528	1.112	10.846	1.386	11.916	1.247
10/20/2015 14:00	10.748	1.493	11.041	1.084	11.236	1.344	11.528	1.114	10.846	1.387	11.916	1.248
10/20/2015 15:00	10.748	1.494	11.041	1.087	11.236	1.345	11.528	1.111	10.846	1.389	11.916	1.248
10/20/2015 16:00	10.748	1.493	11.041	1.087	11.236	1.342	11.528	1.111	10.846	1.387	11.916	1.245
10/20/2015 17:00	10.748	1.493	11.041	1.086	11.236	1.343	11.528	1.111	10.846	1.388	11.916	1.249
10/20/2015 18:00	10.651	1.494	11.041	1.084	11.236	1.344	11.528	1.111	10.846	1.388	11.916	1.249
10/20/2015 19:00	10.651	1.494	11.041	1.086	11.236	1.345	11.528	1.113	10.846	1.388	11.916	1.249
10/20/2015 20:00	10.651	1.49	11.041	1.085	11.236	1.342	11.528	1.111	10.846	1.387	11.916	1.248
10/20/2015 21:00	10.651	1.488	11.041	1.082	11.236	1.342	11.528	1.107	10.846	1.384	11.916	1.245
10/20/2015 22:00	10.651	1.49	11.041	1.082	11.236	1.343	11.528	1.109	10.846	1.386	11.916	1.246
10/20/2015 23:00	10.651	1.49	11.041	1.082	11.236	1.342	11.528	1.108	10.846	1.388	11.916	1.246
10/21/2015 0:00	10.651	1.489	11.041	1.08	11.236	1.339	11.528	1.105	10.846	1.383	11.916	1.244
10/21/2015 1:00	10.651	1.492	11.041	1.085	11.236	1.344	11.528	1.11	10.846	1.388	11.916	1.249
10/21/2015 2:00	10.651	1.492	11.041	1.087	11.236	1.345	11.528	1.109	10.846	1.39	11.916	1.249
10/21/2015 3:00	10.651	1.495	11.041	1.085	11.236	1.347	11.528	1.112	10.846	1.392	11.916	1.251
10/21/2015 4:00	10.651	1.49	11.041	1.083	11.236	1.343	11.528	1.108	10.846	1.389	11.916	1.246
10/21/2015 5:00	10.651	1.495	11.041	1.086	11.236	1.348	11.528	1.112	10.846	1.392	11.916	1.253
10/21/2015 6:00	10.651	1.491	11.041	1.086	11.236	1.345	11.528	1.109	10.846	1.391	11.916	1.25
10/21/2015 7:00	10.651	1.492	10.944	1.084	11.236	1.343	11.431	1.106	10.846	1.388	11.916	1.25
10/21/2015 8:00	10.651	1.494	10.944	1.084	11.236	1.347	11.431	1.11	10.846	1.392	11.916	1.25
10/21/2015 9:00	10.651	1.493	10.944	1.085	11.236	1.343	11.431	1.108	10.846	1.391	11.916	1.25
10/21/2015 10:00	10.651	1.491	10.944	1.083	11.236	1.343	11.431	1.108	10.846	1.39	11.916	1.248
10/21/2015 11:00	10.651	1.491	10.944	1.084	11.236	1.342	11.431	1.106	10.846	1.389	11.916	1.247
10/21/2015 12:00	10.651	1.49	10.944	1.083	11.236	1.34	11.431	1.105	10.846	1.388	11.916	1.247
10/21/2015 13:00	10.651	1.491	10.944	1.086	11.236	1.342	11.431	1.106	10.846	1.389	11.916	1.248
10/21/2015 14:00	10.651	1.487	10.944	1.081	11.236	1.339	11.431	1.102	10.846	1.386	11.916	1.245
10/21/2015 15:00	10.651	1.49	10.944	1.084	11.236	1.339	11.431	1.103	10.846	1.385	11.916	1.246
10/21/2015 16:00	10.651	1.49	10.944	1.083	11.236	1.342	11.431	1.104	10.846	1.389	11.916	1.248
10/21/2015 17:00	10.651	1.493	10.944	1.088	11.236	1.341	11.431	1.105	10.846	1.388	11.916	1.247
10/21/2015 18:00	10.651	1.492	10.944	1.084	11.236	1.342	11.431	1.105	10.846	1.39	11.916	1.249
10/21/2015 19:00	10.651	1.49	10.944	1.082	11.236	1.339	11.431	1.104	10.846	1.386	11.916	1.247
10/21/2015 20:00	10.651	1.487	10.944	1.083	11.236	1.338	11.431	1.103	10.846	1.387	11.916	1.246
10/21/2015 21:00	10.651	1.49	10.944	1.083	11.236	1.339	11.431	1.101	10.846	1.386	11.916	1.247
10/21/2015 22:00	10.651	1.489	10.944	1.082	11.236	1.34	11.431	1.103	10.846	1.389	11.916	1.247

Appendix 2. Datalogger data with corrected depth

Date time	Plot 1 temp	Plot 1 depth	Plot 2 temp	Plot 2 depth	Plot 3 temp	Plot 3 depth	Plot 4 temp	Plot 4 depth	Plot 5 temp	Plot 5 depth	Plot 6 temp	Plot 6 depth
10/21/2015 23:00	10.651	1.493	10.944	1.085	11.236	1.343	11.431	1.105	10.846	1.39	11.916	1.25
10/22/2015 0:00	10.651	1.492	10.944	1.085	11.236	1.34	11.431	1.104	10.846	1.388	11.916	1.247
10/22/2015 1:00	10.651	1.49	10.846	1.084	11.236	1.34	11.431	1.102	10.846	1.387	11.916	1.246
10/22/2015 2:00	10.651	1.488	10.846	1.089	11.236	1.339	11.431	1.101	10.846	1.385	11.916	1.246
10/22/2015 3:00	10.651	1.49	10.846	1.056	11.236	1.339	11.431	1.105	10.846	1.386	11.916	1.247
10/22/2015 4:00	10.651	1.487	10.846	1.052	11.236	1.334	11.431	1.1	10.748	1.382	11.916	1.244
10/22/2015 5:00	10.651	1.488	10.846	1.047	11.139	1.335	11.431	1.099	10.748	1.384	11.916	1.244
10/22/2015 6:00	10.651	1.487	10.846	1.047	11.139	1.334	11.431	1.099	10.748	1.384	11.916	1.242
10/22/2015 7:00	10.651	1.487	10.846	1.055	11.139	1.336	11.431	1.099	10.748	1.381	11.916	1.24
10/22/2015 8:00	10.651	1.484	10.846	1.048	11.139	1.332	11.431	1.098	10.748	1.379	11.916	1.239
10/22/2015 9:00	10.651	1.486	10.846	1.041	11.139	1.333	11.431	1.1	10.748	1.382	11.916	1.241
10/22/2015 10:00	10.651	1.486	10.846	1.036	11.139	1.331	11.431	1.098	10.748	1.379	11.916	1.24
10/22/2015 11:00	10.651	1.486	10.846	1.049	11.139	1.333	11.431	1.1	10.748	1.383	11.916	1.244
10/22/2015 12:00	10.651	1.49	10.846	1.056	11.139	1.334	11.431	1.102	10.748	1.381	11.916	1.242
10/22/2015 13:00	10.651	1.489	10.846	1.022	11.236	1.331	11.431	1.102	10.748	1.38	11.916	1.24
10/22/2015 14:00	10.651	1.489	10.846	1.059	11.236	1.33	11.431	1.101	10.748	1.381	11.819	1.238
10/22/2015 15:00	10.651	1.49	10.846	1.065	11.236	1.331	11.431	1.101	10.748	1.383	11.819	1.24
10/22/2015 16:00	10.651	1.486	10.846	1.066	11.236	1.328	11.431	1.1	10.748	1.379	11.916	1.238
10/22/2015 17:00	10.651	1.489	10.846	1.04	11.236	1.327	11.431	1.102	10.748	1.38	11.819	1.239
10/22/2015 18:00	10.651	1.489	10.846	1.073	11.236	1.331	11.431	1.104	10.748	1.382	11.819	1.239
10/22/2015 19:00	10.651	1.488	10.748	1.073	11.236	1.327	11.431	1.104	10.748	1.379	11.819	1.236
10/22/2015 20:00	10.651	1.488	10.748	1.067	11.236	1.33	11.431	1.105	10.748	1.38	11.819	1.238
10/22/2015 21:00	10.651	1.487	10.748	1.044	11.236	1.329	11.431	1.107	10.748	1.377	11.819	1.235
10/22/2015 22:00	10.651	1.486	10.748	1.07	11.236	1.327	11.431	1.107	10.748	1.377	11.819	1.235
10/22/2015 23:00	10.651	1.483	10.748	1.068	11.236	1.323	11.431	1.108	10.748	1.375	11.819	1.232
10/23/2015 0:00	10.651	1.485	10.748	1.074	11.236	1.324	11.431	1.11	10.748	1.377	11.819	1.233
10/23/2015 1:00	10.651	1.486	10.748	1.077	11.236	1.328	11.431	1.113	10.748	1.378	11.819	1.238
10/23/2015 2:00	10.651	1.487	10.748	1.077	11.236	1.33	11.431	1.115	10.748	1.38	11.819	1.239
10/23/2015 3:00	10.651	1.487	10.748	1.08	11.236	1.329	11.431	1.118	10.748	1.382	11.819	1.239
10/23/2015 4:00	10.651	1.489	10.748	1.081	11.236	1.33	11.431	1.12	10.748	1.382	11.819	1.24
10/23/2015 5:00	10.651	1.49	10.748	1.074	11.236	1.332	11.431	1.119	10.748	1.383	11.819	1.239
10/23/2015 6:00	10.651	1.489	10.748	1.077	11.236	1.335	11.431	1.12	10.748	1.384	11.819	1.242
10/23/2015 7:00	10.651	1.486	10.748	1.077	11.236	1.329	11.431	1.117	10.748	1.38	11.819	1.238
10/23/2015 8:00	10.651	1.483	10.748	1.075	11.236	1.327	11.431	1.116	10.748	1.38	11.819	1.236

