Appendix D: Storm cut matrix

Table D1

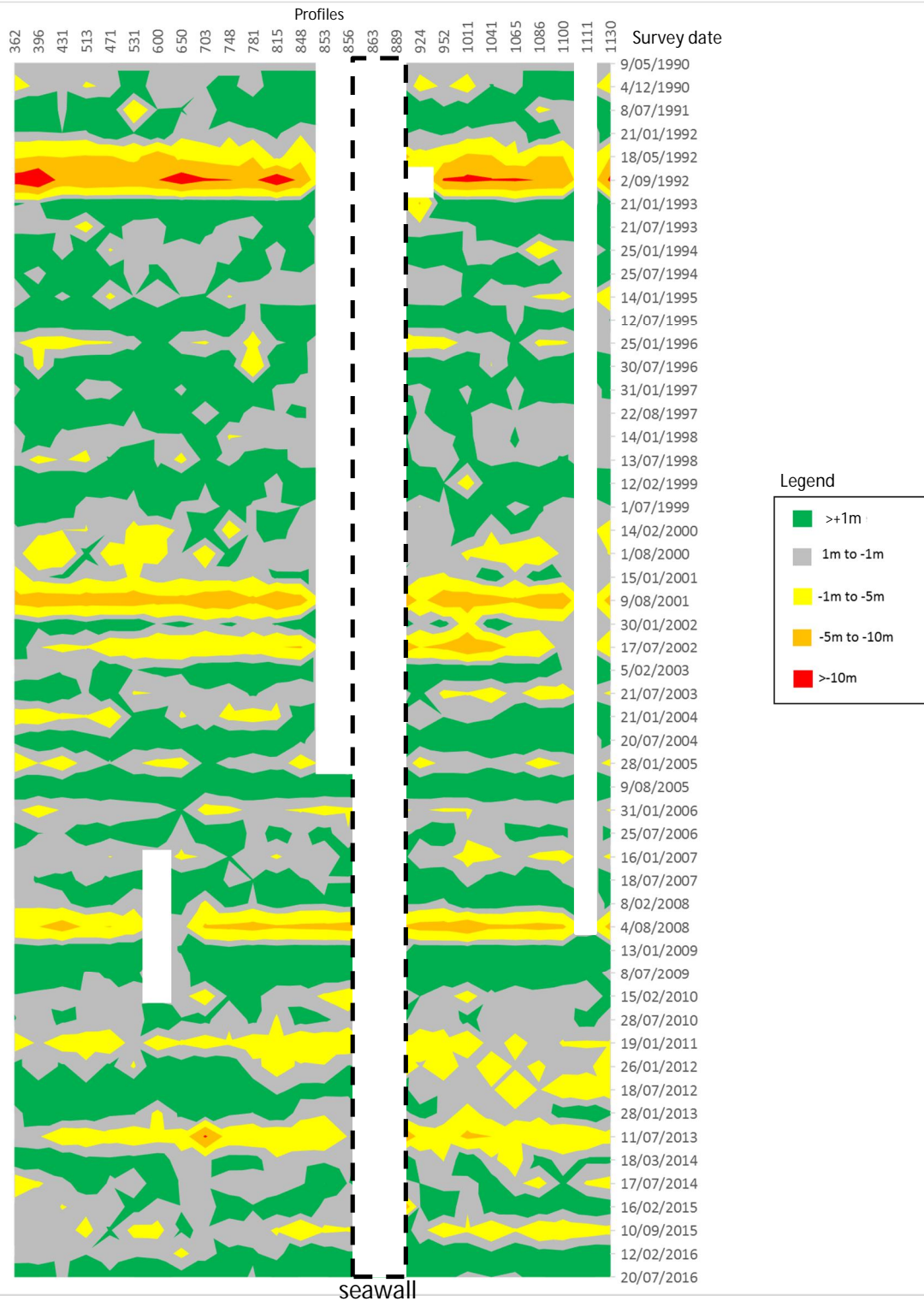| Storm cut between surveys (m)	Profiles																										Storm cut (m)	
Survey Dates	362	396	431	471	513	531	600	650	703	748	781	815	848	853	856	863	889	924	952	1011	1041	1065	1086	1100	1111	1130	Average	Maximum
9/05/1990																												
4/12/1990	-2.1	-0.4	0.5	-0.7	-1.3	6.1	-1.0	0.0	0.9	1.8	-0.7	3.5	3.0					-2.1	-0.7	-2.2	1.1	0.1	3.2	2.8		-2.7	-1.4	-2.7
8/07/1991	5.2	4.7	0.5	2.8	3.8	-4.1	1.0	1.1	-0.7	2.8	4.8	2.9	3.6					2.7	1.2	2.1	3.7	2.7	-1.7	-0.4		2.6	-1.7	-4.1
21/01/1992	0.9	0.9	1.0	3.2	0.7	1.1	3.6	-0.1	0.7	-0.8	0.5	1.4	-0.7					0.6	1.3	0.5	-0.2	-0.7	3.6	0.8		1.9	-0.5	-0.8
18/05/1992	-4.2	-5.1	-4.9	-5.2	-5.3	-3.9	-7.4	-4.1	-3.2	-2.1	-4.9		-3.7					-1.8	-3.0	-5.8	-5.3	-1.5	-5.1	-5.1		-5.0	-4.3	-7.4
2/09/1992	-12.4	-15.4	-8.0	-8.9	-9.4	-8.3	-9.9	-12.9	-10.6	-10.2	-9.2	-13.5	-9.0						-10.6	-11.3	-10.4	-10.7	-9.8	-9.6		-11.2	-10.6	-15.4
21/01/1993	1.1	0.9	3.1	4.1	3.9	3.9	3.9	4.2	2.8	2.7	2.3	2.3	2.5					-5.3	3.6	3.6	3.1	1.2	4.6	3.0		2.1	-5.3	-5.3
21/07/1993	0.1	-0.1	0.3	1.8	-2.2	0.2	-0.2	4.0	1.4	0.5	-0.1	2.4	1.5					-0.2	0.1	0.5	1.9	2.4	4.8	5.7		3.4	-0.5	-2.2
25/01/1994	9.4	4.5	-0.4	-1.2	2.5	0.3	0.4	-0.9	0.4	0.0	1.9	0.2	2.4					2.4	3.3	0.4	0.3	0.8	-3.6	-0.4		1.2	-1.1	-3.6
25/07/1994	1.5	0.1	2.8	1.9	2.4	0.3	1.4	0.4	0.6	1.6	1.4	0.8	1.0					0.5	-0.1	1.3	1.4	2.2	3.5	1.0		5.8	-0.1	-0.1
14/01/1995	-0.9	1.9	0.5	-1.6	1.8	1.0	-0.2	1.0	1.1	-1.2	0.1	-0.1	-0.3					-0.1	-0.3	1.4	-0.2	-0.2	-1.3	-1.6		-4.5	-1.0	-4.5
12/07/1995	3.0	5.6	3.0	5.6	3.7	2.9	2.3	3.5	3.9	3.0		3.7	4.3					3.1	3.3	2.2	3.4		4.1	2.2		1.1		
25/01/1996	-0.7	-2.4	-2.5	-1.2	-1.4	0.3	2.4	-0.8	-1.3	0.4	-2.0	0.8	1.4					-2.5	-2.3	-0.2	-0.8	1.5	-1.6	-1.3		-0.8	-1.4	-2.5
30/07/1996	7.0	-1.9	2.7	5.7	4.1	2.5	1.2	2.9	2.3	2.3	-4.6	3.2	1.4					4.1	1.9	6.2	-1.1	1.9	1.8	2.8		2.7	-2.5	-4.6
31/01/1997	0.4	11.5	3.0	-0.1	-0.6	2.0	2.3	0.5	3.3	1.0	11.2	0.5	0.3					0.3	1.8	0.6	3.8	-0.2	5.4	2.9		1.6	-0.3	-0.6
22/08/1997	2.2	1.3	2.3	2.5	3.2	0.9	4.8	2.5	-1.0	2.3	0.2	0.8	1.3					0.8	2.0	1.2	-0.5	0.7	-0.9	-0.4		0.2	-0.7	-1.0
14/01/1998	-0.4	2.8	0.3	-0.7	-0.3	-0.1	0.7	0.8	2.9	-1.3	-0.8	-0.2	-0.1					-0.3	0.7	1.3	0.0	1.2	-0.5	-0.8		0.8	-0.5	-1.3
13/07/1998	0.3	-1.8	-0.8	1.2	-1.5	4.7	0.7	-1.8	1.7	0.2	2.2	1.9	-0.1					0.2	0.0	1.5	0.3	0.8	0.1	1.3		-0.2	-1.0	-1.8
12/02/1999	5.3	4.7	3.7	2.5	5.2	1.2	1.6	6.4	1.0	4.0	1.6	0.3	3.3					5.1	1.1	-2.5	2.8	2.8	3.8	3.4		2.8	-2.5	-2.5
1/07/1999	1.8	4.4	4.4	-0.1	-0.5	0.4	3.4	0.5	0.2	1.5	0.8	0.6	1.0					-1.1	0.6	2.5	1.8	0.5	1.3	-0.4		0.9	-0.5	-1.1
14/02/2000	0.7	0.1	-1.0	0.8	-1.2	-1.9	-2.3	-0.5	3.1	-2.8	0.8	2.2	-0.3					-0.1	-0.2	2.3	-0.9	1.8	0.4	-0.4		-2.6	-1.2	-2.8
1/08/2000	1.0	-5.0	-4.9	-2.8	1.6	-2.2	-2.5	1.0	-3.2	1.9	0	-0.8	-0.9					0.9	0.4	-1.5	-2.7	-3.6	-4.8	-0.3		-1.2	-2.6	-5.0
15/01/2001	-2.8	0.5	1.7	0.5	-0.7	-1.5	0.7	-0.7	0.3	0.3	-1.1	1.5	1.5					-0.9	-1.3	0.1	2.7	-0.4	2.6	0.9		0.5	-1.2	-2.8
9/08/2001	-6.8	-7.9	-7.7	-7.5	-7.3	-7.6	-6.4	-6.2	-8.1	-9.0	-5.9	-9.4	-7.1					-3.7	-8.0	-7.9	-7.1	-5.7	-7.8	-7.9		-6.8	-7.2	-9.4
30/01/2002	3.4	1.4	4.3	3.4	1.7	3.8	0.8	1.8	0.3	1.5	0.0	1.3	3.3					0.3	2.1	-2.7	3.5	0.8	0.2	-0.2		0.2	-1.0	-2.7
17/07/2002	2.8	-0.9	-1.6	-3.7	-1.2	-3.3	-4.0	-4.0	-4.1	-3.6	-2.9	-4.8	-5.4					-4.8	-6.3	-9.2	-7.5	-3.5	-4.2	0.5		-4.6	-4.2	-9.2
5/02/2003	-0.5	-0.6	0.8	2.5	0.4	0.9	1.5	1.3	3.9	3.2	2.4	4.6	2.1					2.6	4.5	4.3	3.6	2.6	2.6	1.0		4.5	-0.5	-0.6
21/07/2003	2.4	3.3	1.8	2.2	0.8	-1.2	-0.9	-0.1	0.6	-0.5	1.4	-0.5	-0.9					1.6	-1.6	-1.2	-2.3	-0.3	-2.7	-2.4		-1.4	-1.2	-2.7
21/01/2004	-2.7	-3.1	-1.5	-3.3	-1.2	1.4	1.9	-1.3	0.0	-1.8	-2.3	-1.7	2.4					-0.6	1.0	0.3	0.7	2.5	4.4	4.2		5.4	-2.0	-3.3
20/07/2004	1.8	3.0	2.5	1.3	1.9	2.1	2.4	3.8	1.7	2.8	3.0	2.8	1.3					2.1	2.6	2.5	3.2	2.5	3.5	3.1		1.6		
28/01/2005	-3.5	-1.0	-2.7	0.9	-0.1	-0.7	-1.7	-2.3	1.5	0.4	-0.5	0.3	-2.4	-0.4	-0.9			-2.2	-0.5	-0.6	0.5	-0.1	-2.3	-0.9		-1.6	-1.4	-3.5
9/08/2005	3.4	4.1	2.5	2.5	3.2	2.8	3.3	3.5	2.1	3.8	4.5	2.7	3.8	5.6	4.1			3.2	4.0	5.7	3.8	2.4	3.4	2.2		3.0		
31/01/2006	-0.6	-2.1	-0.8	-0.3	-1.0	0.0	0.2	1.2	-2.1	-1.8	-0.4	-0.9	-1.2	-1.9	-1.5			-0.8	-1.3	-1.3		-0.3	-0.4	0.3		-1.2	-1.0	-2.1
25/07/2006	2.4	1.0	0.9	1.5	2.1	2.1	2.5		2.7	3.1	0.3	1.7	0.6	1.9	-0.9			1.4	2.8	-0.6	-0.1	1.8	1.5	1.3		1.5	-0.5	-0.9
16/01/2007	0.3	-0.5	-0.7	-1.1	0.0	-0.3	0.1	-1.5	-0.8	1.1	-0.1	-1.3	0.2	-1.0	2.0			-0.6	-0.4	-1.9	-1.5	-0.4	-1.6	-1.9		-1.4	-1.0	-1.9
18/07/2007	0.4	1.2	1.6	1.2	0.5	1.8		2.1	3.0	0.4	1.0	1.9	1.1	0.8	0.8			2.4	2.8	0.1	1.9	1.3	4.0	0.8		2.0		
8/02/2008	-0.1	-0.1	0.3	1.3	2.3	-0.4		1.8	2.3	0.6	2.6	1.3	1.1	2.3				1.2	0.5	3.0	2.9	1.9	1.6	2.5		1.3	-0.6	-1.6
4/08/2008	-4.5	-4.9	-7.1	-5.2	-4.4	-3.0		0.2	-5.6	-5.9	-6.6	-5.6	-5.9	-6.1	-6.7			-6.5	-6.8	-8.5	-5.9	-5.7	-6.3	-5.8		-6.5	-5.9	-8.5
13/01/2009	3.4	2.4	3.2	3.2	3.8	4.1		1.2	3.7	2.1	3.2	2.6	2.9	2.9	3.7			4.0	3.7	7.3	3.5	2.6	3.2	2.5	2.4	3.5		
8/07/2009	3.8	3.3	2.4	1.1	0.9	1.6	-0.7	-0.1	3.4	2.8	1.3	2.1	2.0	2.9	2.8			1.5	2.4	3.1	2.0	3.6	2.8	2.2	1.9	0.5	-0.4	-0.7
15/02/2010	0.8	0.4	0.0	0.7	0.6	0.0	0.4	-0.3	-2.7	1.3	1.5	0.1	0.1	-1.5	-2.8			1.0	-0.1	-2.2	0.6	-0.7	0.3	0.0	-1.0	2.0	-1.1	-2.8
28/07/2010	1.1	0.0	1.5	0.6	0.7	-0.6	3.4	1.1	1.5	-0.6	1.6	-1.3	2.1	1.4	0.0			0.0	-0.4	1.7	-0.1	0.8	-0.5	0.1	2.0	-0.1	-0.5	-1.3
19/01/2011	-2.7	-0.7	-2.4	-3.2	-2.5	0.2	-2.9	-1.3	-2.3	-1.4	-2.6	-2.3	-4.3	-3.2	-3.0			-2.5	-1.8	-4.0	0.4	-2.3	0.1	-1.2	-1.3	-1.2	-2.3	-4.3
26/01/2012	1.8	-0.6	1.3	1.5	-0.5	-1.4	4.3	1.9	3.5	2.6	-0.3	-2.2	-0.6	-0.8	1.1			-0.7	-3.6	0.5	-3.6	-0.6	-1.4	0.0	0.1	-4.3	-1.6	-4.3
18/07/2012	3.8	2.0	2.0	2.0	1.6	3.3	4.0	2.4	1.7	1.5	2.2	0.5	1.6	1.7	1.7			-0.9	0.6	0.9	-0.7	-3.4	-0.8	-3.0	-4.3	-2.5	-2.2	-4.3
28/01/2013	0.0	3.9	3.7	1.4	2.6	1.2	-1.7	1.6	9.1	1.4	0.9	3.8	0.1	-0.7	-0.9			2.1	0.6	-2.3	0.4	-0.5	-0.3	2.3	3.3	1.3	-0.9	-2.3
11/07/2013	-0.4	-0.7	-3.4	-2.0	-3.1	-2.8	-2.1	-2.3	-10.7	-2.9	-3.4	-3.8	-3.6	-4.0	-0.8			-3.6	-2.8	-6.0	-5.0	-2.1	-4.1	-4.8	-4.1	-2.1	-3.4	-10.7
18/03/2014	2.7	2.5	3.3	1.4	1.5	1.7	2.3	-0.2	0.6	2.0	2.0	-0.7	0.6	0.9	0.4			0.5	-1.1	4.6	-0.5	-2.5	1.9	0.2	1.4	1.5	-1.0	-2.5
17/07/2014	-3.3	-1.4	0.3	0.8	2.2	-0.5	2.3	0.8	0.6	-0.3	-0.7	-0.2	0.8	2.0	0.9			1.0		0.1	2.1	-0.5	-2.2	1.4	-1.3	-2.1	-1.2	-3.3
16/02/2015	0.5	0.8	-1.2	-0.4	-0.3	1.8	0.2	0.9	-0.1	2.3	1.1	2.1	3.3	0.5	0.0			1.0	3.2	-0.8	2.1	2.1	3.1	1.4	3.2	2.3	-0.6	-1.2
10/09/2015	0.8	0.1	0.2	1.2	-2.0	-1.8	-1.9	1.3	0.7	-0.3	0.2	-1.4	-4.4	-1.4	-1.2			-0.2	-2.9	-1.4	-3.3	-1.3	-3.7	-3.0	-2.6	-1.9	-2.0	-4.4
12/02/2016	-0.4	-0.3	0.3	0.2	0.9	0.7	0.5	-1.8	0.5	1.5	1.3	0.2	3.5	2.0	1.2			1.8	3.8	4.8	1.4	3.6	2.0	1.6	2.9	2.7	-0.8	-1.8
20/07/2016	3.5	2.5	0.5	1.3	2.5	2.5	2.9	2.1	2.0	1.9	0.8	3.2	2.4	2.4	2.9			1.2	1.6	0.4	1.0	0.4	2.3	3.0	2.6	2.1		

Figure D1: Storm cut matrix showing storm cut distance between surveys for each alongshore beach profile and each survey date