

42	Hornsea frontage																		
43	Hornsea frontage																		
44	Hornsea frontage																		
45	Caravan park to south of defences	0.00	6.30	0.00	4.60	7.02	4.72	6.33	3.82	0.19	0.69	0.00	0.00	0.00	5.70	2.19	0.00	1.29	2.52
46	South of Hornsea	0.00	4.10	1.82	4.63	3.30	5.59	4.06	5.76	0.00	1.07	1.40	1.47	0.00	4.47	0.00	0.00	3.64	2.43
47	Rolston firing range	0.80	5.90	2.12	1.93	2.65	1.78	4.60	3.87	5.20	7.44	1.68	0.00	3.62	2.35	0.63	0.00	5.65	2.95
48	Opposite Rolston	0.00	4.70	3.92	1.53	5.51	0.00	6.24	1.44	2.28	3.92	0.00	3.58	1.60	2.23	1.72	0.00	0.00	2.27
49	South end of old children's holiday camp – Rolston	0.00	2.40	1.30	4.17	4.98	0.00	0.00	4.71	0.00	1.23	2.64	3.04	2.21	0.00	6.69	0.00	0.00	1.96
50	North of Mappleton	0.00	0.00	0.63	0.00	0.82	0.00	0.00	0.00	0.00	2.64	1.44	1.64	1.72	0.00	2.10	3.77	1.54	0.96
51	Mappleton – north of defences	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
52	South of Mappleton	0.00	0.00	0.00	6.11	2.76	0.00	3.66	0.00	0.00	0.57	0.00	3.28	1.89	5.67	4.76	1.68	2.69	1.95
53	Between Mappleton and Cowden	0.00	0.00	0.86	3.86	6.38	1.52	0.00	2.06	0.00	6.20	0.00	0.00	6.54	4.18	4.41	0.00	6.84	2.52
54	North of Eelmere Lane – Cowden	0.00	0.00	0.00	0.00	7.75	3.99	0.00	0.00	0.00	4.74	2.02	0.00	0.00	6.92	0.00	3.25	3.16	1.87
55	South end of Cowden	0.00	1.70	0.60	0.00	2.51	2.85	4.25	0.91	0.00	4.95	4.12	0.00	3.12	0.00	6.96	2.33	1.98	2.13
56	North end of MOD site – Cowden	0.00	0.30	0.00	1.80	0.59	0.39	0.00	3.61	0.00	0.00	3.21	0.00	0.00	0.00	1.61	0.00	9.46	1.23
57	Within MOD site – Cowden	0.00	9.20	0.00	2.49	3.59	0.00	7.56	0.82	0.00	0.00	0.00	0.00	6.98	0.00	1.74	0.00	6.05	2.26
58	Within MOD site – Cowden	2.00	5.00	0.00	2.93	4.18	0.00	0.81	3.83	0.00	7.31	0.00	0.00	0.52	0.00	1.23	0.00	4.32	1.89
59	Within MOD site – Cowden	0.30	2.80	0.00	5.01	5.76	0.00	0.00	0.00	0.00	1.87	3.02	0.00	0.00	1.71	2.15	1.37	0.00	1.41
60	South end of MOD site – Cowden	8.80	2.50	5.62	2.24	1.42	0.79	0.00	12.30	0.00	1.95	0.00	1.37	4.54	0.00	3.31	0.00	0.00	2.64
61	South of MOD site Cowden	5.60	7.60	0.00	5.44	4.00	0.00	1.17	4.99	0.00	0.41	0.00	3.34	1.34	0.00	0.00	0.00	6.06	2.35
62	North of Aldbrough	3.00	6.70	1.20	6.03	0.32	8.13	3.66	5.98	0.00	4.88	0.00	0.77	0.00	0.00	1.66	0.00	0.00	2.49
63	South of Aldbrough	0.00	0.90	4.28	7.10	0.00	4.89	0.00	2.52	0.00	10.82	0.00	1.37	0.00	0.00	1.11	0.00	0.00	1.94
64	North of Hill Top Farm – south of Aldbrough	0.00	0.30	6.12	2.76	2.36	0.00	0.00	2.32	1.91	2.83	3.83	9.07	0.94	0.00	1.99	0.00	3.62	2.24
65	South of Hill Top Farm – south of Aldbrough	0.00	10.20	0.00	0.00	10.29	3.62	0.00	3.11	0.00	2.81	8.17	0.00	1.96	0.00	0.87	0.00	7.03	2.83
66	Opposite East Newton	2.30	6.90	3.20	1.96	5.43	6.18	2.53	2.97	0.00	0.00	2.20	1.19	0.88	0.82	2.40	0.00	2.69	2.45
67	Between East Newton and Ringbrough	3.80	5.10	1.89	0.58	3.22	6.94	4.61	1.62	0.00	0.00	3.44	0.00	3.35	3.80	2.27	0.00	2.14	2.52
68	Opposite Ringbrough	0.00	0.30	9.56	4.05	0.00	4.74	8.84	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	7.36	1.84	2.35
69	South of Ringbrough	1.50	0.50	7.50	10.35	4.25	0.00	0.00	3.48	0.00	0.00	2.46	0.00	0.00	0.00	3.80	0.00	7.05	2.41
70	South of Ringbrough	3.80	0.90	0.70	6.04	6.68	0.00	0.29	0.00	0.00	9.33	1.75	2.41	0.00	0.00	8.06	0.00	1.40	2.43
71	North of Garton	2.50	4.20	1.96	3.59	11.27	0.00	3.61	0.00	0.00	0.89	5.81	1.59	0.00	0.00	7.92	0.00	0.00	2.55
72	South of Garton	0.00	0.50	9.48	0.00	1.41	9.06	0.00	0.00	3.47	0.00	1.00	0.00	0.00	5.40	6.93	7.36	0.80	2.67
73	Opposite Grimston Park	0.00	0.80	0.60	4.93	6.82	4.51	0.00	2.67	0.00	3.01	9.46	2.21	0.00	5.27	1.53	0.00	0.00	2.46
74	South of Grimston Park	0.00	0.30	0.00	1.57	1.18	2.98	6.89	0.00	4.80	1.31	1.58	3.82	1.09	0.64	5.02	0.00	4.61	2.11
75	North of Hilston	0.00	2.00	0.70	1.80	5.72	0.00	0.00	3.99	1.35	3.77	2.73	1.04	1.82	1.59	7.70	0.00	2.28	2.15
76	Opposite Hilston	0.00	2.20	0.00	0.00	5.67	1.44	1.42	1.28	1.04	4.91	4.71	0.00	0.00	0.00	7.79	0.00	1.37	1.87
77	North of Pastures Lane – Tunstall	1.50	0.00	0.00	0.00	9.01	0.00	4.77	0.59	1.51	6.41	5.82	0.00	1.03	0.00	2.00	3.59	0.91	2.18
78	North end of Pastures Lane – Tunstall	0.00	0.50	0.00	0.00	9.95	0.00	2.97	4.77	0.00	11.47	0.00	4.09	4.76	0.00	1.36	0.00	0.00	2.35
79	Opposite Pastures Lane – Tunstall	0.00	14.20	4.37	2.01	1.46	0.00	2.50	2.87	0.00	4.81	0.00	7.87	6.32	0.00	0.90	0.00	0.59	2.82
80	North of Tunstall	0.00	5.70	6.90	0.37	2.29	0.00	1.47	1.64	0.00	3.54	1.92	2.43	9.55	7.26	1.04	0.00	3.85	2.82
81	South of Tunstall	0.00	0.00	6.62	6.11	0.00	0.00	0.00	0.68	0.00	3.65	1.40	4.05	5.17	6.93	1.61	0.00	0.00	2.13
82	North of Sand-le-Mere holiday village	0.40	0.00	0.00	8.95	5.98	0.67	0.00	0.72	0.00	1.19	0.93	1.16	2.01	6.29	9.30	0.00	1.41	2.29

83	South of Sand-le-Mere holiday village	1.70	0.60	0.28	2.46	15.79	0.00	0.00	1.39	0.00	2.71	9.38	1.17	0.00	0.00	0.00	1.80	3.11	2.38
84	South of Sand-le-Mere	3.60	2.20	0.00	2.04	11.12	0.91	0.00	0.62	0.00	0.00	3.30	1.75	0.00	0.00	4.42	2.31	12.20	2.62
85	Opposite Redhouse Farm – Waxholme	0.00	9.20	0.47	0.40	5.54	11.47	2.99	0.00	1.34	2.15	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.11
86	North of Waxholme	0.00	3.40	2.26	1.24	0.97	4.83	4.89	6.08	0.51	1.07	1.75	0.00	0.43	0.00	0.00	0.00	1.51	1.70
87	South of Waxholme	0.00	6.70	2.60	0.95	1.69	0.00	0.00	10.59	2.30	2.00	2.15	0.00	0.00	0.00	0.00	0.55	0.00	1.74
88	Between Waxholme and Withernsea	1.20	2.50	6.36	3.03	2.94	0.00	1.51	0.00	0.00	7.01	2.50	0.91	0.00	0.89	0.81	1.19	0.00	1.81
89	North of Withernsea defences	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	0.00	4.43	2.65	0.17	0.00	0.61
90	Withernsea frontage																		
91	Withernsea frontage																		
92	Withernsea frontage																		
93	Withernsea frontage																		
94	South of Turner Avenue – Withernsea	0.00	4.40	1.57	3.44	4.75	1.78	0.78	8.74	0.00	3.75	2.09	0.44	4.08	3.88	7.23	4.97	3.97	3.29
95	South of Golden Sands holiday park – Withernsea	0.00	0.50	8.68	0.66	1.40	7.38	1.83	6.93	10.32	9.32	4.39	1.74	5.78	6.03	6.30	3.80	16.01	5.36
96	North of Intack Farm – Holmlym	3.80	1.10	7.00	3.13	0.99	7.64	5.78	2.60	8.95	5.33	6.65	0.40	4.09	10.18	6.31	4.62	6.22	4.99
97	Opposite sewage works off Holmpton Road	8.20	3.60	10.54	15.73	0.59	2.08	12.13	2.80	0.62	3.57	0.99	2.67	0.00	5.82	9.58	6.38	5.89	5.36
98	North of Nevilles Farm – Holmpton	0.60	11.80	4.09	11.08	3.27	0.00	1.21	1.31	0.00	3.01	3.09	2.55	10.08	5.11	3.82	0.00	6.97	4.00
99	North of The Runnell – Holmpton	2.30	0.90	2.60	6.51	25.05	0.00	0.00	1.44	0.00	0.00	2.42	0.00	0.80	6.50	0.00	0.00	0.00	2.85
100	North of Holmpton village	1.60	2.30	0.99	3.88	9.66	0.97	1.30	0.95	0.00	0.54	1.35	0.00	1.51	1.32	4.47	1.08	2.50	2.02
101	Opposite Holmpton village	0.70	5.70	0.00	2.58	2.77	3.88	1.53	0.00	1.03	4.13	1.91	0.00	0.00	0.00	4.08	0.57	0.59	1.73
102	South of Holmpton village	0.00	3.40	0.00	0.00	2.04	3.97	1.16	0.00	1.12	3.89	3.21	0.00	0.00	0.00	1.84	3.40		1.41
103	South of Holmpton village	0.00	0.20	2.43	1.04	0.63	0.21	0.00	0.00	0.00	2.79	0.00	0.00	3.66	0.87	0.00	0.89	5.23	1.06
104	North of Out Newton	0.17	0.10	0.00	0.47	0.00	0.25	0.00	1.22	0.00	0.63	1.59	3.20	8.48	1.40	1.66	0.00	3.28	1.32
105	Opposite Out Newton	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.43
106	South of Out Newton	0.00	0.00	0.00	0.00	4.75	0.58	0.00	0.00	0.00	0.00	0.00	4.04	4.01	0.00	0.00	0.00	2.87	0.96
107	Dimlington High Land	0.00	0.50	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	11.41	1.23	0.00	0.00	0.00	1.13	0.86
108	South of Dimlington High Land	0.00	0.00	0.00	0.00	0.00	0.90	0.00	6.74	0.00	0.00	0.88	1.13	0.00	0.00	0.00	0.00	11.66	1.25
109	Between Dimlington High Land and Easington	0.00	0.00	0.93	2.43	2.03	0.24	1.04	0.54	0.00	0.00	2.61	0.00	0.00	0.00	0.00	5.22	2.35	1.02
110	Easington defences																		
111	Easington defences																		
112	Easington defences																		
113	South of Easington	0.60	0.40	0.40	4.17	4.60	0.90	1.10	5.47	0.00	1.08	0.99	1.05	0.00	0.00	0.88	0.00	0.00	1.27
114	Opposite Seaside Road – Easington	0.90	0.00	3.80	0.30	2.83	0.66	4.17	0.97	1.07	1.91	3.93	0.00	0.00	0.00	0.05	0.00	0.00	1.21
115	Easington/Kilnsea dunes																		
116	Easington/Kilnsea dunes																		
117	Easington/Kilnsea dunes																		
118	South end of Lagoon/Dune SSSI – Kilnsea	3.40	1.81	0.22	0.22	1.43	7.31	0.31	0.00	0.00	0.97	0.62	0.00	0.00	1.02	0.00	0.00	0.00	1.02
119	North of Godwin Battery site – Kilnsea	0.75	2.60	0.67	0.00	1.38	2.14	5.84	0.00	0.00	0.00	2.34	1.07	0.00	0.00	2.85	0.00	0.00	1.16
120	South of Blue Bell – Kilnsea	2.71	2.71	1.67	1.53	6.26	0.00	0.79	1.99	0.00	0.00	1.04	3.45	1.68	5.28	0.00	0.00	2.52	1.86
121	Between Kilnsea and Spurn	1.20	0.40	1.18	0.25	1.70	1.59	1.56	1.66	1.53	0.00	2.34	0.00	0.00	0.00	5.19	0.00	0.00	1.09
122	North end of Spurn	0.46	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.00	0.29
123	Neck of Spurn peninsula [lost December 2013]	3.35	2.30	1.30	6.00	0.90	2.73	0.00	0.00	0.00	0.00	0.00							1.51

annual average for entire coast
annual average for undefended cliff

0.89	1.70	1.56	1.79	2.79	1.34	1.30	1.54	0.57	1.90	1.46	0.90	1.16	1.33	1.78	0.62	1.75	1.43
1.04	1.99	1.82	2.10	3.27	1.57	1.52	1.81	0.66	2.22	1.71	1.06	1.38	1.58	2.11	0.73	2.06	1.68
autumn 2003	autumn 2004	autumn 2005	autumn 2006	autumn 2007	autumn 2008	autumn 2009	autumn 2010	Sep 2011	Sep 2012	Oct+Dec 2013	Nov 2014	Sep 2015	14 months 2017	Nov 2018	Oct 2019	Oct 2020	Avg. m/yr for location
spring 2004	spring 2005	spring 2006	spring 2007	spring 2008	spring 2009	spring 2010	Apr 2011	Mar 2012	Apr 2013	May 2014	Apr 2015	Mar 2016	May 2017	May 2018	Mar 2019	Mar 2020	
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	

Seasonal surveys combined to produce a year
 Colour grading lowest (white) to highest (red)
 Possible rounding differences
All values in metres

East Yorkshire coastal erosion
 Cliff loss data 2003 to 2019
 from monitoring profiles (17 years)

Prepared by Brian Williams, September 2020
www.urbanrim.org.uk/data-years-2003-2019