

1	South Riviera Drive – Sewerby	0.89	0.00	0.45	0.00	0.00	0.14	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.16
2	North of Bridlington defences	0.00	0.00	0.00	0.29	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
3	Bridlington frontage														
4	Bridlington frontage														
5	Bridlington frontage														
6	Bridlington frontage														
7	Bridlington frontage														
8	South of Bridlington defences	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	South Shore holiday village – Wilsthorpe	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
10	South end of Wilsthorpe	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
11	North of Auburn Farm	3.20	0.00	0.00	0.00	2.06	0.00	0.00	2.62	0.00	1.51	0.00	0.00	0.00	0.67
12	Opposite Auburn Farm	0.00	0.50	0.00	0.00	1.27	0.00	0.00	0.00	3.07	0.00	8.03	0.00	0.00	0.92
13	South of Auburn Farm	2.00	1.00	1.23	1.14	2.57	0.00	0.00	1.09	0.00	0.00	0.85	0.00	0.00	0.89
14	North of Earls Dyke – Barmston	3.40	3.40	2.04	0.34	1.22	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97
15	South of Earl's Dyke – Barmston	2.70	0.60	5.00	1.04	3.82	0.42	0.00	0.00	0.00	0.00	4.72	0.00	0.00	1.31
16	Watermill Grounds – north of Barmston	3.80	2.80	2.39	0.55	6.54	0.26	0.00	0.00	0.87	1.79	2.99	0.00	0.00	1.64
17	Opposite Hamilton Hill – north of Barmston	2.50	0.00	6.86	0.00	1.31	4.95	0.00	0.85	0.60	0.00	5.68	0.00	0.00	1.63
18	North of Barmston Beach holiday park	0.00	0.00	0.30	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.96	0.00	2.28	1.70
19	South of Sands Lane – Barmston	0.80	0.00	2.29	0.31	3.77	1.03	1.37	2.40	0.49	3.63	0.00	0.00	0.00	1.15
20	Opposite Barmston outfall	0.00	0.00	0.00	1.28	2.64	0.00	0.00	0.33	0.00	0.00	2.28	0.00	1.92	0.00
21	Opposite Brickdale – south of Barmston	2.70	0.00	4.20	0.00	9.58	0.53	0.00	1.30	1.72	0.00	3.29	0.00	0.00	3.30
22	North boundary of Seaside caravan park – Ulrome	3.30	0.00	3.04	0.67	6.77	1.43	3.90	0.00	1.44	1.35	1.24	0.00	0.00	2.28
23	South end of Seaside caravan park – Ulrome	0.00	0.00	0.70	0.83	2.67	0.00	1.80	0.36	1.37	0.00	0.75	0.00	0.42	0.53
24	Opposite Southfield Lane – Ulrome/Skipsea	0.00	0.40	7.28	1.32	3.43	0.00	0.47	2.85	0.00	0.54	0.63	0.56	3.88	4.49
25	North end of Green Lane – Skipsea	1.40	1.70	1.90	5.84	3.87	3.80	1.78	4.87	2.35	4.27	0.46	0.53	0.41	1.92
26	South of Green Lane – Skipsea	0.00	0.00	0.00	1.26	4.58	4.32	2.87	0.51	0.00	1.40	1.57	0.52	1.83	2.15
27	Opposite Skipsea	0.00	0.60	0.00	0.00	0.00	0.00	6.31	6.73	1.93	1.95	2.52	0.90	0.85	0.69
28	Cliff Road (Hornsea Road) – south of Skipsea	0.00	0.00	0.00	1.70	1.54	0.00	0.00	7.50	3.34	7.05	2.27	0.00	3.77	0.82
29	South of Skipsea Withow	0.00	0.00	1.20	0.73	1.59	0.00	0.00	1.68	0.69	11.05	0.00	3.34	2.51	3.64
30	Golf course – north of Skirlington	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	3.51	1.37	0.00	2.83	3.87
31	North end of Low Skirlington caravan park	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	1.84	0.00
32	Within Low Skirlington caravan park	1.00	1.70	0.00	1.14	0.89	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	2.23
33	South end of Low Skirlington caravan park	3.40	2.10	0.00	2.62	0.81	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
34	North end of Long Lane – Atwick	0.00	1.90	1.50	1.55	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
35	Opposite Long Lane – Atwick	0.00	2.90	1.58	1.65	0.00	2.78	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
36	Opposite Cliff Road – Atwick	4.00	0.00	5.54	0.00	0.00	0.93	6.19	0.00	0.00	2.14	0.00	0.00	0.00	0.00

37	South of Atwick	0.00	0.20	0.50	5.16	1.70	0.00	0.00	3.45	0.00	2.51	1.81	0.00	0.00	0.00	1.10
38	North of Atwick Gap (boat club ramp) – Homsea	0.00	2.10	0.60	0.39	0.48	0.00	0.00	0.00	0.44	1.48	0.00	3.69	1.71	0.00	0.78
39	North end of Cliff Road – Hornsea	0.00	0.00	0.00	0.71	0.62	3.97	2.50	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.71
40	South of Nutana Avenue – Hornsea	0.00	0.00	0.00	1.23	0.00	1.12	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.21
41	North end of Hornsea frontage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	2.81
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	2.69
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	3.14
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	2.64
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	1.91
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	0.64
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	0.07
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	1.71
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	2.26
54	North of Eelmer 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	1.82
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	1.79
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	0.71
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	2.19
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	1.90
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	1.46
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	2.97
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	2.42
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	2.91
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	2.28
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	2.32
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	2.87
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	2.61
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	2.74
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	2.20
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	2.15
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	2.28
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	2.53
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	2.17

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	2.88
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	1.87
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	1.89
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	1.62
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	2.19
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	2.75
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	3.32
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	3.08
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	2.47
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	2.02
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	2.53
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	1.82
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	2.40
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	1.96
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	2.07
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	2.06
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	0.54
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	2.84
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	4.64
96	North of Intack Farm – Hollym	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	4.83
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	4.95
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	4.09
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	3.47
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	1.88
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	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	1.34
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	0.85
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	1.25
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	0.52
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	0.96
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	0.96
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	0.69

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	0.70
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	1.48
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	1.47
115	Easington/Kilnsea dunes															
116	Easington/Kilnsea dunes															
117	Easington/Kilnsea dunes															
118	South end of Lagoon/Dune SSSI – Kilnsea	3.24	1.73	0.22	0.22	1.43	7.31	0.31	0.00	0.00	0.97	0.62	0.00	0.00	1.02	1.22
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	1.20
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	2.08
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	0.96
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	0.08
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
	<i>annual average for entire coast</i>	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	1.45
	<i>annual average for undefended cliff</i>	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	1.70
	Seasonal surveys combined to produce a year	autumn	autumn	autumn	autumn	autumn	autumn	autumn	autumn	Sep	Sep	Oct+Dec	Nov	Sep	14	Avg.
	Colour grading lowest (white) to highest (red)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	months	m/yr
	Possible rounding differences	spring	spring	spring	spring	spring	spring	spring	Apr	Mar	Apr	May	Apr	Mar	May	for
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	location
	All values in metres	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	

**East Yorkshire coastal erosion
Cliff loss data 2003 to 2016
from monitoring profiles (14 years)**

Prepared by Brian Williams, September 2017

Original data supplied by East Riding of Yorkshire Council

www.urbanrim.org.uk/data-years-2003-2016