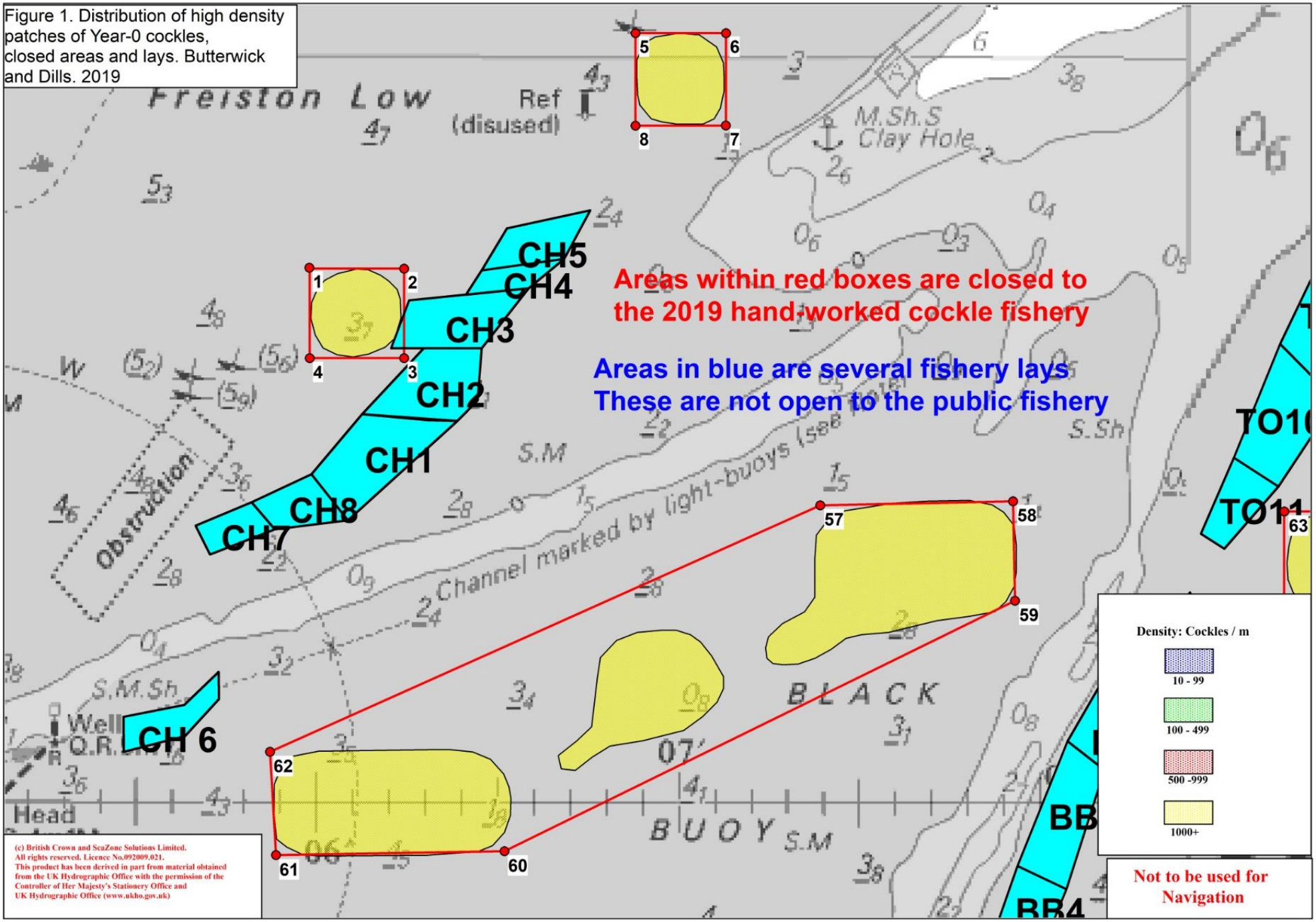


Figure Closure 1 – Areas closed to the 2019 hand-worked cockle fishery on Butterwick and the Dills

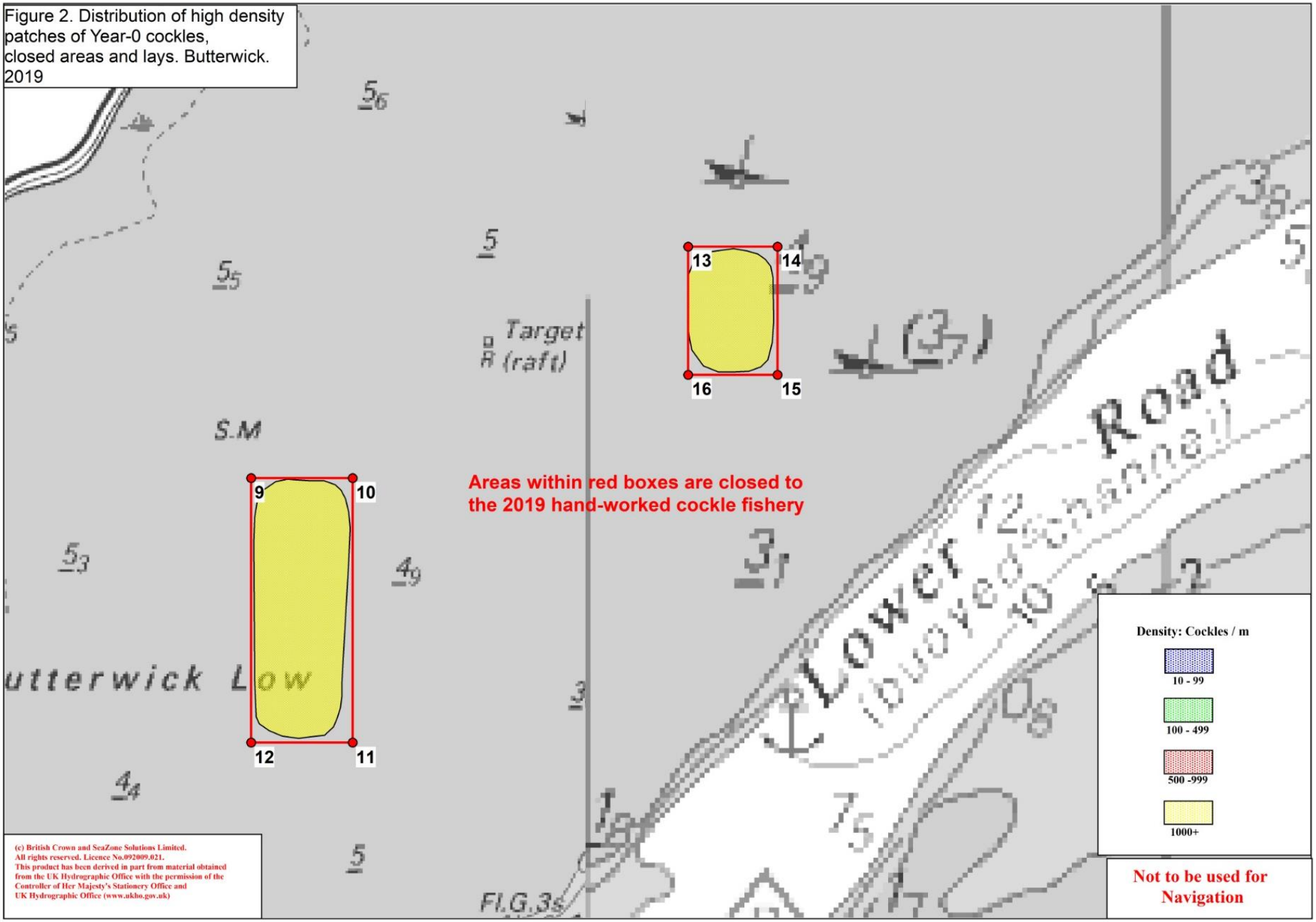


Figure Closure 2 – Areas closed to the 2019 hand-worked cockle fishery on Butterwick

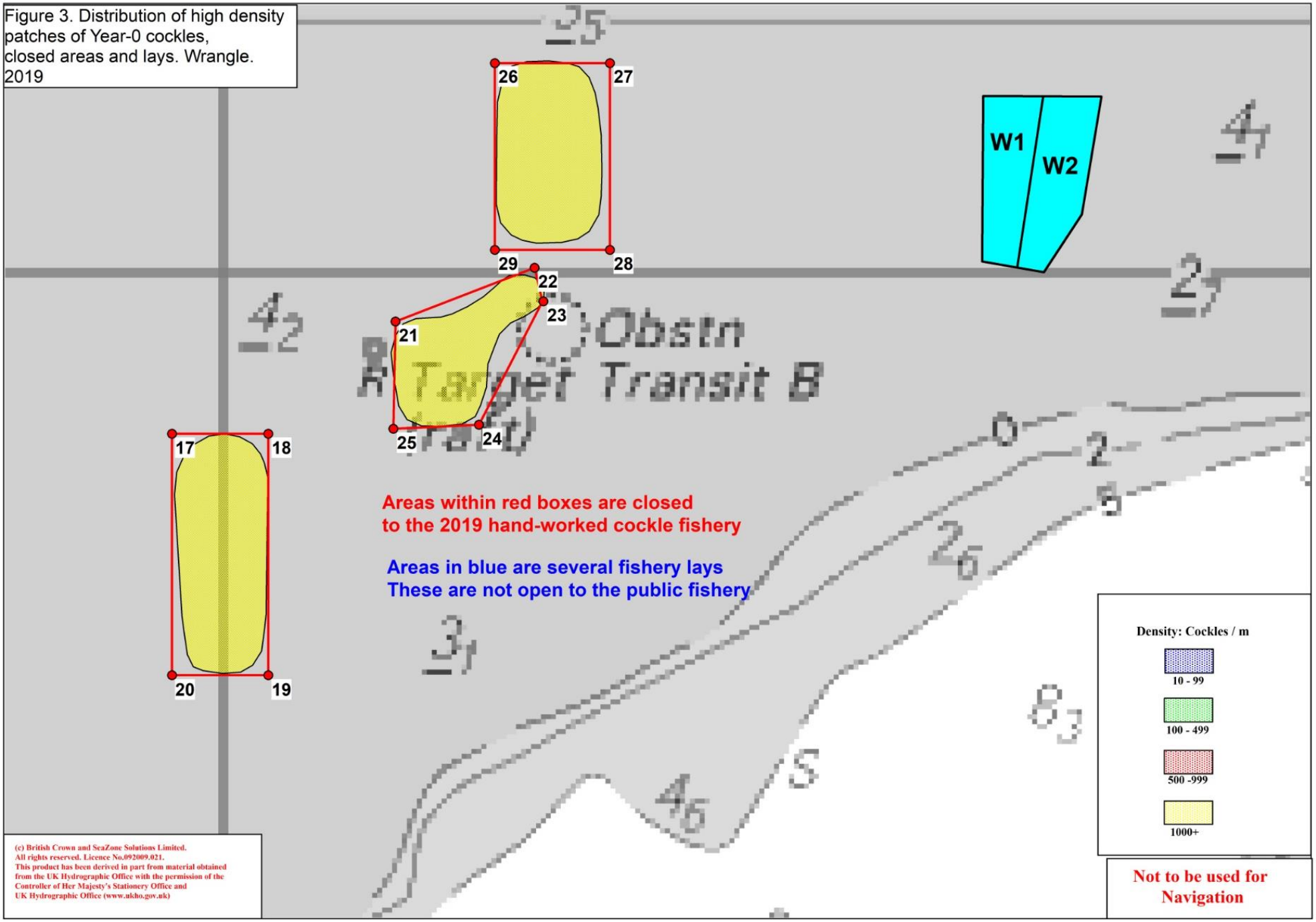


Figure Closure 3 – Areas closed to the 2019 hand-worked cockle fishery on Wrangle

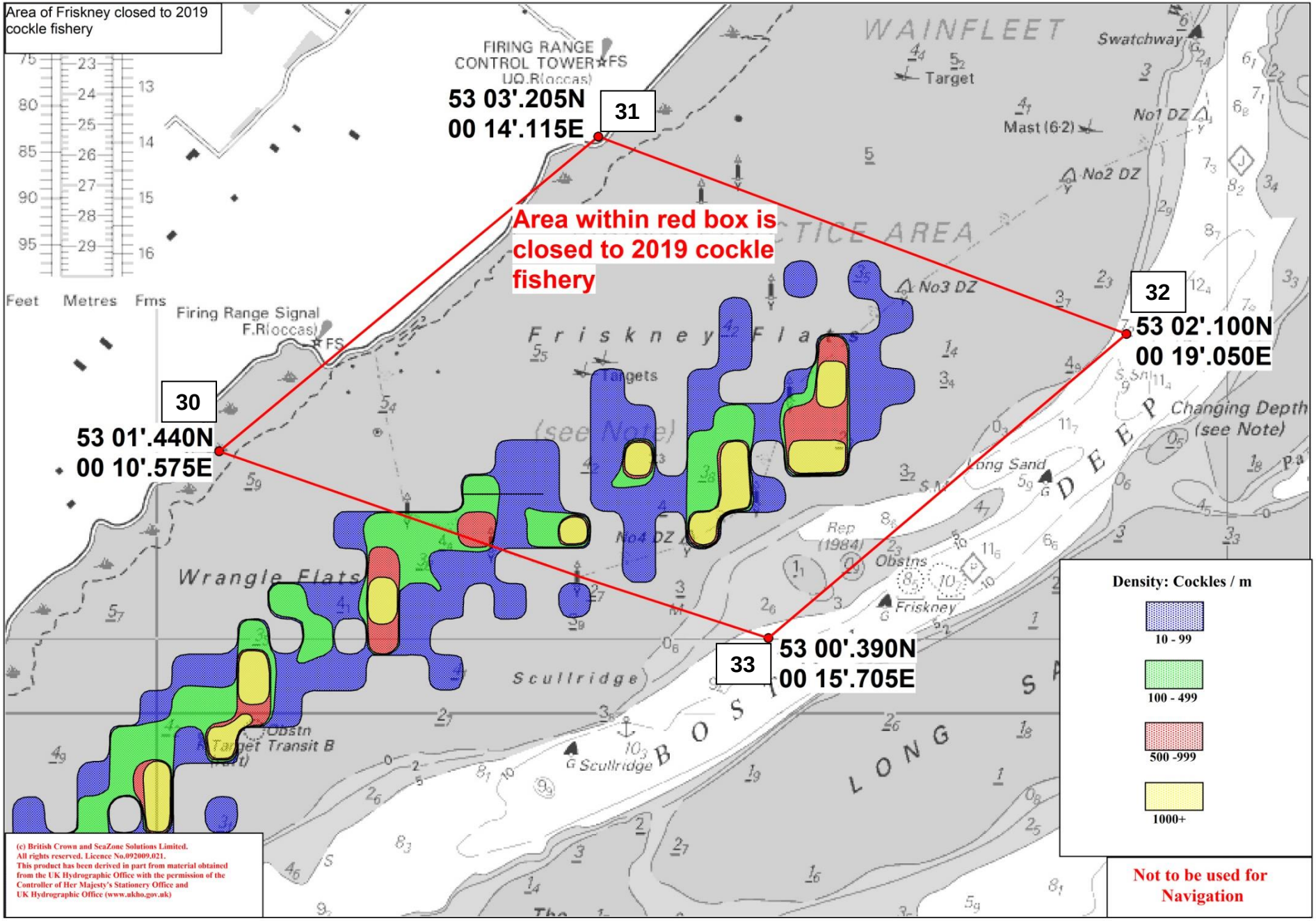


Figure Closure 4 – Areas closed to the 2019 hand-worked cockle fishery on Wrangle and Friskney

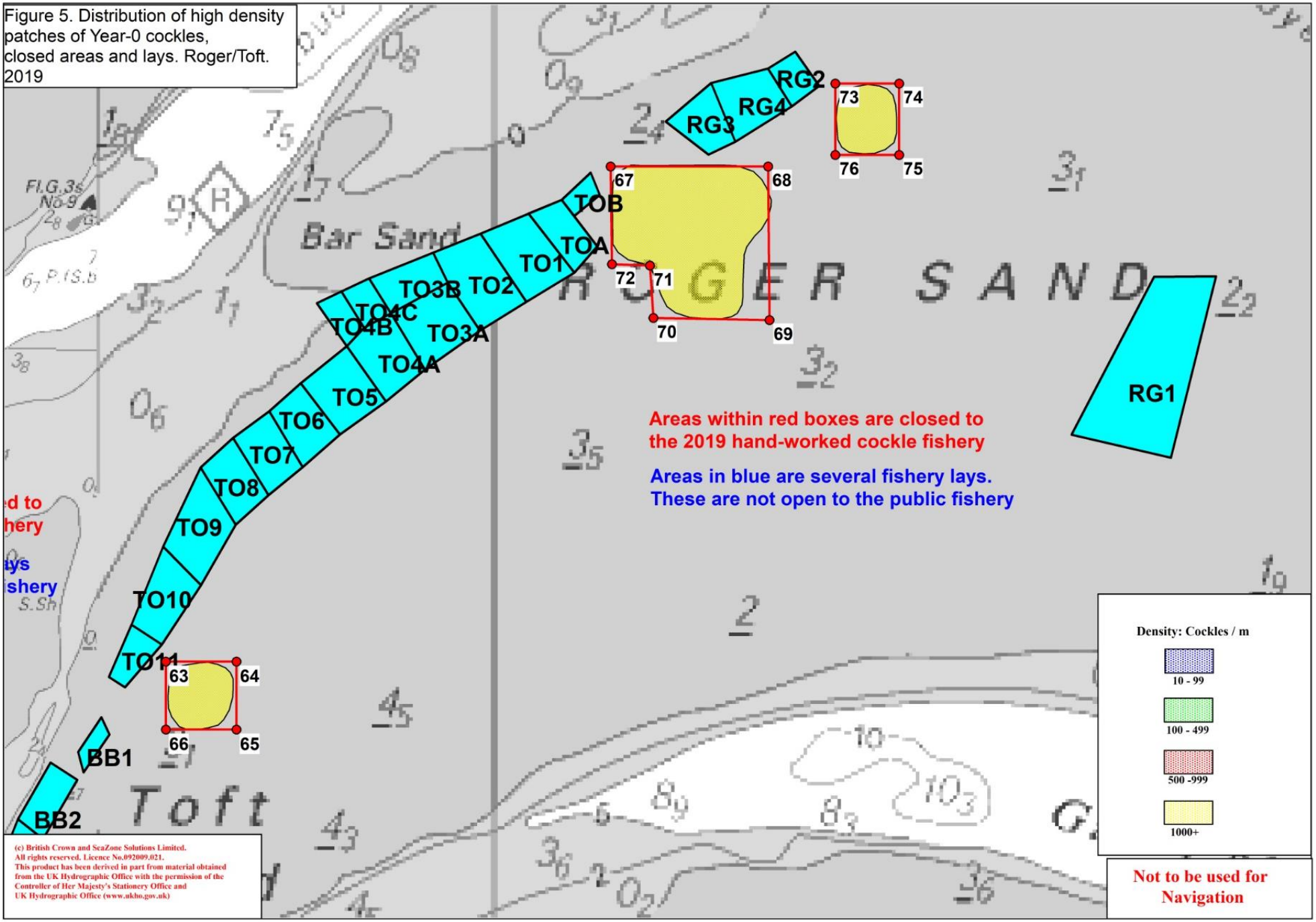


Figure Closure 5 – Areas closed to the 2019 hand-worked cockle fishery on the Roger/Toft

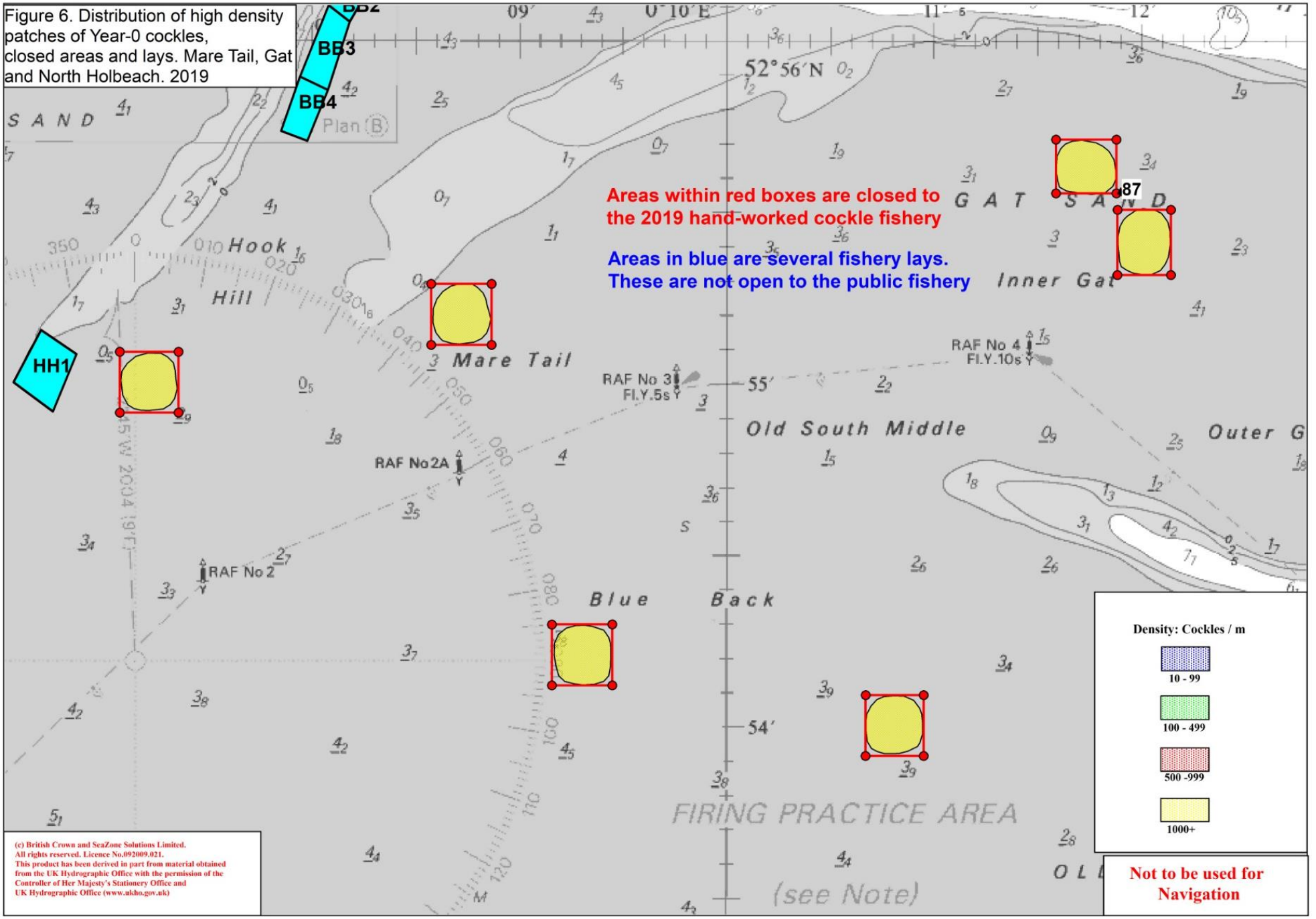


Figure Closure 6 – Areas closed to the 2019 hand-worked cockle fishery on Mare Tail, the Gat and North Holbeach

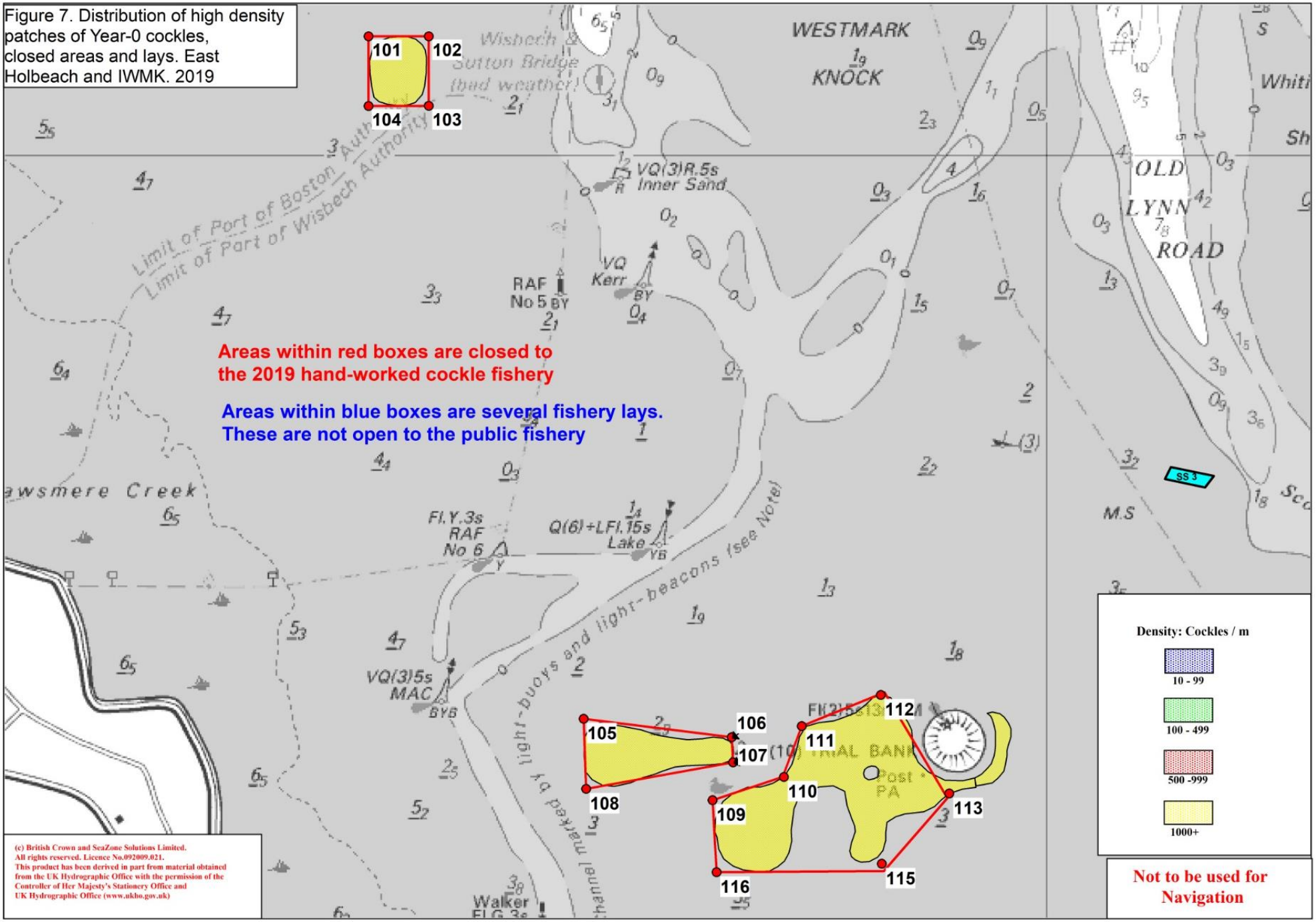


Figure Closure 7 – Areas closed to the 2019 hand-worked cockle fishery on East Holbeach and IWMK

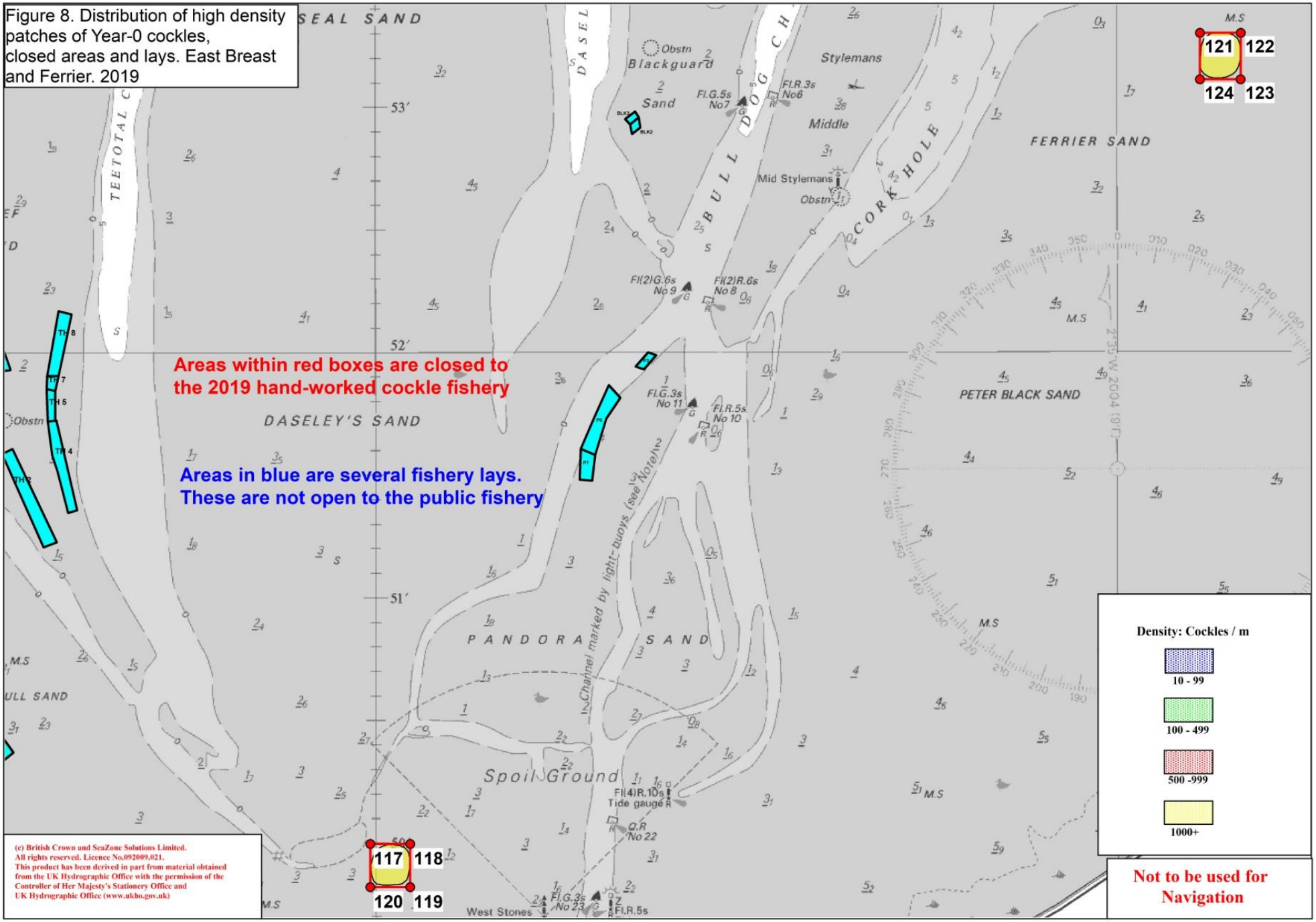


Figure Closure 8 – Areas closed to the 2019 hand-worked cockle fishery on East Breast and Ferrier

Table1 – coordinates for figures 1 to 8

	Latitude N		Longitude E				Latitude N		Longitude E	
Point	Deg	Min	Deg	Min		Point	Deg	Min	Deg	Min
Figure 1, Butterwick, box 1						Figure 4, Friskney, box 1				
1	52	56’.885	00	05’.975		30	53	01’.440	00	10’.575
2	52	56’.885	00	06’.235		31	53	03’.205	00	14’.115
3	52	56’.735	00	06’.235		32	53	02’.100	00	19’.050
4	52	56’.735	00	05’.975		33	53	00’.390	00	15’.705
Figure 1, Butterwick, box 2										
5	52	57’.275	00	06’.875						
6	52	57’.275	00	07’.125						
7	52	57’.120	00	07’.125						
8	52	57’.120	00	06’.875						
Figure 1, Dills box 1										
57	52	56’.488	00	07’.386						
58	52	56’.488	00	07’.920						
59	52	56’.328	00	07’.920						
60	52	55’.910	00	06’.514						
61	52	55’.910	00	05’.882						
62	52	56’.077	00	05’.882						
Figure 2, Butterwick, box 3										
9	52	58’.336	00	07’.470		***Points 34 to 56 removed and replaced by Friskney Box 1 (Figure 4)***				
10	52	58’.336	00	07’.750						
11	52	57’.897	00	07’.750						
12	52	57’.897	00	07’.470		***To be reviewed August 2019***				
Figure 2, Butterwick, box 4										
13	52	58’.722	00	08’.678						
14	52	58’.722	00	08’.925						
15	52	58’.509	00	08’.925						
16	52	58’.509	00	08’.678						
Figure 3, Wrangle, box 1										
17	52	59’.700	00	09’.858						
18	52	59’.700	00	10’.125						
19	52	59’.300	00	10’.125						
20	52	59’.300	00	09’.858						
Figure 3, Wrangle, box 2										
21	52	59’.890	00	10’.475						
22	52	59’.978	00	10’.860						
23	52	59’.923	00	10’.885		Figure 5, Roger/Toft box 1				
24	52	59’.717	00	10’.706		63	52	56’.477	00	08’.668
25	52	59’.717	00	10’.475		64	52	56’.477	00	08’.954
Figure 3, Wrangle, box 3						65	52	56’.312	00	08’.954
26	53	00’.318	00	10’.750		66	52	56’.312	00	08’.668
27	53	00’.318	00	11’.068						
28	53	00’.008	00	11’.068						
29	53	00’.008	00	10’.750						
Figure 5, Roger/Toft box 2						Figure 6, Holbeach, box 3				
67	52	57’.680	00	10’.466		97	52	54’.085	00	10’.661
68	52	57’.680	00	11’.103		98	52	54’.084	00	10’.942
69	52	57’.308	00	11’.103		99	52	53’.907	00	10’.942
70	52	57’.308	00	10’.640		100	52	53’.906	00	10’.661

71	52	57’.440	00	10’.640		Figure 7, East Holbeach, box 1				
72	52	57’.440	00	10’.466		101	52	52’.293	00	12’.175
Figure 5, Roger/Toft box 3						102	52	52’.293	00	12’.424
73	52	57’.882	00	11’.375		103	52	52’.118	00	12’.425
74	52	57’.882	00	11’.633		104	52	52’.120	00	12’.176
75	52	57’.709	00	11’.633		Figure 7, IWMK, box 1				
76	52	57’.709	00	11’.375		105	52	50’.584	00	13’.069
Figure 6, Holbeach, box 1						106	52	50’.536	00	13’.685
77	52	55’.085	00	7’.064		107	52	50’.473	00	13’.691
78	52	55’.085	00	7’.346		108	52	50’.407	00	13’.079
79	52	54’.907	00	7’.346		Figure 7, IWMK, box 2				
80	52	54’.907	00	7’.064		109	52	50’.379	00	13’.604
Figure 6, Maretail, box 1						110	52	50’.438	00	13’.901
81	52	55’.282	00	8’.565		111	52	50’.565	00	13’.975
82	52	55’.283	00	8’.857		112	52	50’.649	00	14’.318
83	52	55’.104	00	8’.857		113	52	50’.384	00	14’.578
84	52	55’.105	00	8’.566		115	52	50’.201	00	14’.317
Figure 6, Gat, box 1						116	52	50’.198	00	13’.622
85	52	55’.703	00	11’.578		Figure 8, East Breast, box 1				
86	52	55’.703	00	11’.869		117	52	49’.992	00	19’.966
87	52	55’.546	00	11’.869		118	52	49’.992	00	20’.234
88	52	55’.545	00	11’.578		119	52	49’.816	00	20’.234
Figure 6, Gat, box 2						120	52	49’.816	00	19’.966
89	52	55’.497	00	11’.873		Figure 8, Ferrier, box				
90	52	55’.497	00	12’.131		121	52	53’.294	00	25’.559
91	52	55’.307	00	12’.133		122	52	53’.294	00	25’.835
92	52	55’.308	00	11’.875		123	52	53’.105	00	25’.835
Figure 6, Holbeach, box 2						124	52	53’.105	00	25’.559
93	52	54’.290	00	9’.149						
94	52	54’.290	00	9’.439						
95	52	54’.112	00	9’.439						
96	52	54’.112	00	9’.149						

Position of Lays

Site No.	Latitude	Longitude
TO B	52^0 57.600'N	0^0 10.269'E
	52^0 57.667'N	0^0 10.386'E
	52^0 57.560'N	0^0 10.319'E
	52^0 57.612'N	0^0 10.422'E
TO A	52^0 57.487'N	0^0 10.412'E
	52^0 57.600'N	0^0 10.269'E
	52^0 57.423'N	0^0 10.320'E
	52^0 57.566'N	0^0 10.135'E
TO 1	52^0 57.423'N	0^0 10.320'E
	52^0 57.566'N	0^0 10.135'E
	52^0 57.352'N	0^0 10.126'E
	52^0 57.518'N	0^0 09.940'E
TO 2	52^0 57.352'N	0^0 10.126'E
	52^0 57.518'N	0^0 09.940'E
	52^0 57.469'N	0^0 09.741'E
	52^0 57.282'N	0^0 09.938'E
TO 3a	52^0 57.324'N	0^0 09.578'E
	52^0 57.399'N	0^0 09.808'E
	52^0 57.187'N	0^0 09.716'E
	52^0 57.282'N	0^0 09.938'E
TO 3b	52^0 57.324'N	0^0 09.578'E
	52^0 57.409'N	0^0 09.490'E
	52^0 57.469'N	0^0 09.741'E
	52^0 57.399'N	0^0 09.808'E
TO 4a	52^0 57.110'N	0^0 09.558'E
	52^0 57.244'N	0^0 09.400'E
	52^0 57.324'N	0^0 09.578'E
	52^0 57.187'N	0^0 09.716'E
TO 4b	52^0 57.244'N	0^0 09.400'E
	52^0 57.289'N	0^0 09.470'E
	52^0 57.377'N	0^0 09.378'E
	52^0 57.349'N	0^0 09.278'E
TO 4c	52^0 57.324'N	0^0 09.578'E
	52^0 57.289'N	0^0 09.470'E
	52^0 57.377'N	0^0 09.378'E
	52^0 57.409'N	0^0 09.490'E

Site No.	Latitude	Longitude
TO 5	52^0 57.030'N	0^0 09.372'E
	52^0 57.154'N	0^0 09.214'E
	52^0 57.110'N	0^0 09.558'E
	52^0 57.244'N	0^0 09.400'E
TO 6	52^0 56.950'N	0^0 09.221'E
	52^0 57.086'N	0^0 09.086'E
	52^0 57.030'N	0^0 09.372'E
	52^0 57.154'N	0^0 09.214'E
TO 7	52^0 56.950'N	0^0 09.221'E
	52^0 57.086'N	0^0 09.086'E
	52^0 56.882'N	0^0 09.083'E
	52^0 57.021'N	0^0 08.940'E
TO 8	52^0 56.810'N	0^0 08.951'E
	52^0 56.949'N	0^0 08.809'E
	52^0 56.882'N	0^0 09.083'E
	52^0 57.021'N	0^0 08.940'E
TO 9	52^0 56.810'N	0^0 08.951'E
	52^0 56.949'N	0^0 08.809'E
	52^0 56.663'N	0^0 08.810'E
	52^0 56.757'N	0^0 08.657'E
TO 10	52^0 56.567'N	0^0 08.529'E
	52^0 56.519'N	0^0 08.652'E
	52^0 56.663'N	0^0 08.810'E
	52^0 56.757'N	0^0 08.657'E
TO 11	52^0 56.567'N	0^0 08.529'E
	52^0 56.519'N	0^0 08.652'E
	52^0 56.440'N	0^0 08.438'E
	52^0 56.415'N	0^0 08.503'E

Site No.	Latitude	Longitude
W 1	53 00'.264N	00 12'.100E
	53 00'.262N	00 12'.266E
	52 00'.989N	00 12'.097E
	52 00'.979N	00 12'.194E
W 2	53 00'.262N	00 12'.266E
	53 00'.263N	00 12'.427E
	53 00'.067N	00 12'.373E
	52 59'.971N	00 12'.268E
	53 59'.979N	00 12'.194E

	Latitude	Longitude
CH 1	52 56'.54 N	00 05'.98 E
	52 56'.54 N	00 06'.18 E
	52 56'.63 N	00 06'.30 E
	52 56'.64 N	00 06'.12 E
CH 1a	52 56'.630 N	00 06'.300 E
	52 56'.629 N	00 06'.383 E
	52 56'.540 N	00 06'.180 E
	52 56'.540 N	00 06'.980 E
	52 56'.463 N	00 06'.081 E
CH 2	52 56'.64 N	00 06'.12 E
	52 56'.63 N	00 06'.30 E
	52 56'.75 N	00 06'.45 E
	52 56'.54 N	00 06'.29 E
CH 2a	52 56'.629 N	00 06'.383 E
	52 56'.663 N	00 06'.439 E
	52 56'.750 N	00 06'.450 E
	52 56'.630 N	00 06'.300 E
CH 3	52 56'.75 N	00 06'.45 E
	52 56'.75 N	00 06'.20 E
	52 56'.83 N	00 06'.25 E
	52 56'.85 N	00 06'.58 E
CH 4	52 56'.85 N	00 06'.58 E
	52 56'.81 N	00 06'.35 E
	52 56'.88 N	00 06'.45 E
	52 56'.90 N	00 06'.68 E
CH 5	52 56'.88 N	00 06'.45 E
	52 56'.90 N	00 06'.68 E
	52 56'.95 N	00 06'.52 E
	52 56'.98 N	00 06'.75 E
CH 6	52 56'.155 N	00 05'.629 E
	52 56'.135 N	00 05'.461 E
	52 56'.077 N	00 05'.462 E
	52 56'.103 N	00 05'.631 E
	52 56'.165 N	00 05'.725 E
	52 56'.210 N	00 05'.724 E
CH 7	52 56'.493 N	00 05'.815 E
	52 56'.448 N	00 05'.879 E
	52 56'.454 N	00 05'.660 E
	52 56'.406 N	00 05'.700 E
CH 8	52 56'.540 N	00 05'.980 E
	52 56'.463 N	00 06'.081 E
	52 56'.493 N	00 05'.815 E
	52 56'.448N	00 05'.879 E

Site No.	Latitude	Longitude
RG 1	52^0 56'.973N	0^0 12'.732E
	52^0 57'.029N	0^0 12'.330E
	52^0 57'.414N	0^0 12'.914E
	52^0 57'.413N	0^0 12'.664E
RG2	52 57'.960N	00 11'.213E
	52 57'.877N	00 11'.310E
	52 57'.827N	00 11'.200E
	52 57'.919N	00 11'.103E
RG3	52 57'.884N	00 10'.873E
	52 57'.741N	00 10'.971E
	52 57'.710N	00 10'.862E
	52 57'.790N	00 10'.689E
RG4	52 57'.827N	00 11'.200E
	52 57'.919N	00 11'.103E
	52 57'.884N	00 10'.873E
	52 57'.741N	00 10'.971E

Lay No.	Latitude	Longitude
BB 1	52^0 56.340'N	0^0 08.410'E
	52^0 56.300'N	0^0 08.440'E
	52^0 56.260'N	0^0 08.310'E
	52^0 56.210'N	0^0 08.340'E
BB 2	52^0 56.232'N	0^0 08.202'E
	52^0 56.190'N	0^0 08.310'E
	52^0 56.094'N	0^0 08.070'E
	52^0 56.046'N	0^0 08.172'E
BB 3	52^0 56.094'N	0^0 08.070'E
	52^0 56.046'N	0^0 08.172'E
	52^0 55.847'N	0^0 08.067'E
	52^0 55.886'N	0^0 07.932'E
BB 4	52^0 55.699'N	0^0 07.967'E
	52^0 55.728'N	0^0 07.841'E
	52^0 55.847'N	0^0 08.067'E
	52^0 55.886'N	0^0 07.932'E

	Latitude	Longitude
BLK2	52 52'.951 N	00 21'.774 E
	52 52'.883 N	00 21'.729 E
	52 52'.909 N	00 21'.784 E
	52 52'.922 N	00 21'.715 E
BLK3	52 52'.951 N	00 21'.774 E
	52 52'.974 N	00 21'.750 E
	52 52'.944 N	00 21'.682 E
	52 52'.922 N	00 21'.715 E

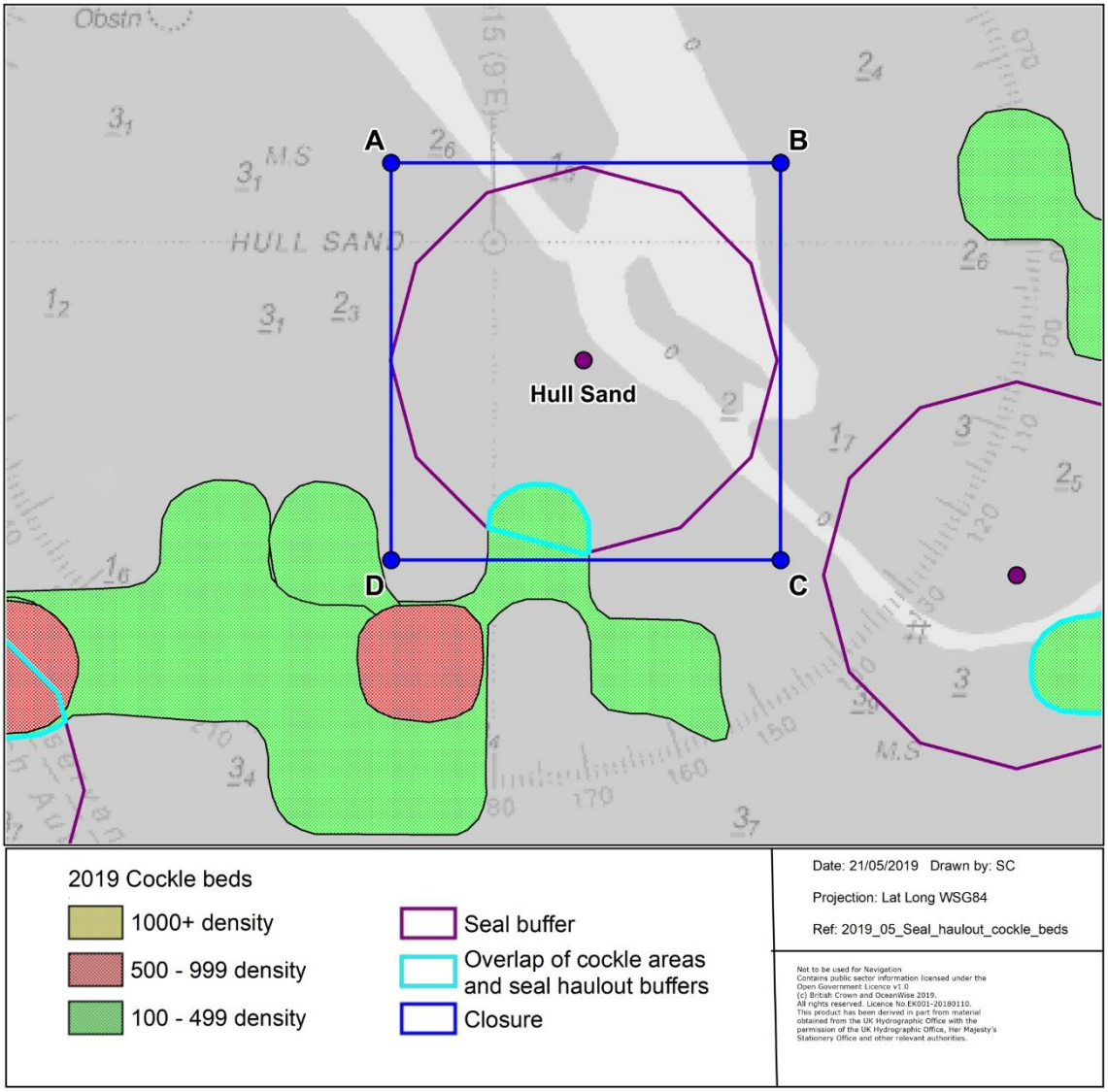
	Latitude	Longitude
HH 1	52^0 55.12'N	0^0 06.91'E
	52^0 55.03'N	0^0 06.75'E
	52^0 55.00'N	0^0 06.60'E
	52^0 55.06'N	0^0 06.70'E
	52^0 55.12'N	0^0 06.73'E

	Latitude	Longitude
SS1	52°50'.386N	0°17'.100E
	52°50'.240N	0°17'.298E
	52°50'.330N	0°17'.489E
	52°50'.430N	0°17'.340E
SS2	52°50'.652N	0°16'.523E
	52°50'.600N	0°16'.447E
	52°50'.686N	0°16'.296E
	52°50'.770N	0°16'.362E
SS3	52°51'.191N	0°15'.685E
	52°51'.162N	0°15'.649E
	52°51'.183N	0°15'.482E
	52°51'.213N	0°15'.507E
SS4	52°50'.819N	0°16'.150E
	52°50'.772N	0°16'.114E
	52°50'.728N	0°16'.236E
	52°50'.794N	0°16'.303E
	52°50'.839N	0°16'.246E
SS5	52°50'.658N	0°16'.527E
	52°50'.595N	0°16'.444E
	52°50'.490N	0°16'.440E
	52°50'.486N	0°16'.540E
SS6	52°51'.601N	0°15'.037E
	52°51'.611N	0°15'.136E
	52°51'.659N	0°15'.020E
	52°51'.660N	0°15'.108E
SS7	52°50'.386N	0°17'.100E
	52°50'.614N	0°17'.153E
	52°50'.518N	0°16'.988E
	52°50'.430N	0°17'.340E
SS8	52°50'.330N	0°17'.498E
	52°50'.430N	0°17'.340E
	52°50'.614N	0°17'.153E
	52°50'.518N	0°16'.988E
	52°50'.595N	0°16'.884E
	52°50'.714N	0°17'.126E
	52°50'.644N	0°17'.226E
	52°50'.364N	0°17'.558E

Site No.	Latitude	Longitude
TH2	52 51'.200 N	00 17'.760 E
	52 51'.580 N	00 17'.480 E
	52 51'.220 N	00 17'.850 E
	52 51'.600 N	00 17'.550 E
TH4	52 51'.712 N	00 17'.788 E
	52 51'.575 N	00 17'.819 E
	52 51'.511 N	00 17'.853 E
	52 51'.435 N	00 17'.886 E
	52 51'.340 N	00 17'.926 E
	52 51'.351 N	00 17'.987 E
	52 51'.717 N	00 17'.846 E
TH5	52 51'.844 N	00 17'.781 E
	52 51'.719 N	00 17'.789E
	52 51'.724 N	00 17'.838 E
	52 51'.837 N	00 17'.839 E
TH6	52 51'.922 N	00 17'.536 E
	52 52'.045 N	00 17'.208 E
	52 52'.060 N	00 17'.475 E
	52 51'.908 N	00 17'.292 E
TH7	52 51'.897 N	00 17'.784 E
	52 51'.897 N	00 17'.861 E
	52 51'.837 N	00 17'.839 E
	52 51'.845 N	00 17'.781 E
TH8	52 51'.897 N	00 17'.784 E
	52 51'.897 N	00 17'.861 E
	52 52'.162 N	00 17'.861 E
	52 52'.148 N	00 17'.948 E

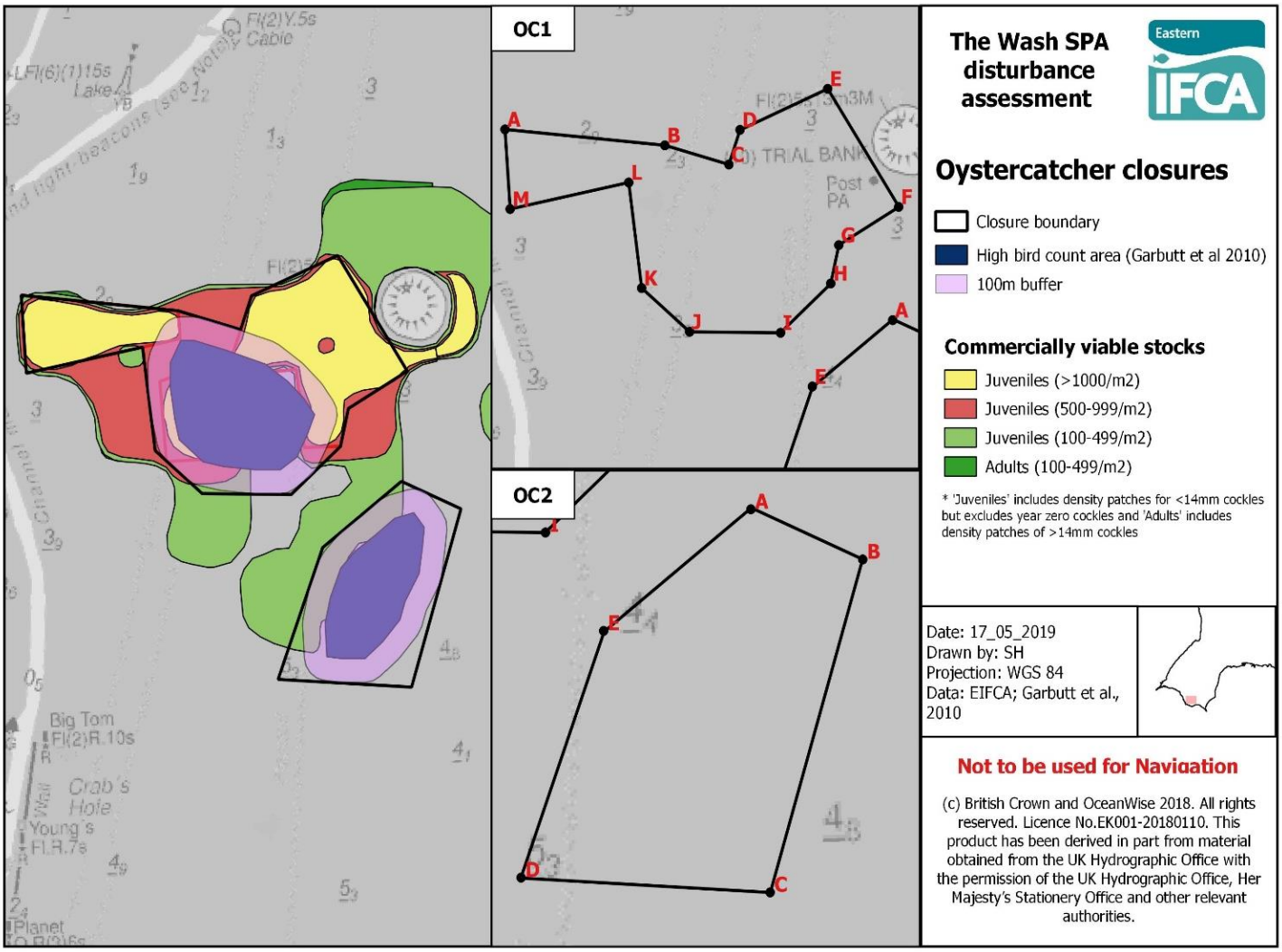
	Latitude	Longitude
P2	52 51'.936 N	00 21'.755 E
	52 51'.924 N	00 21'.810 E
	52 51'.994 N	00 21'.839 E
	52 51'.974 N	00 21'.883 E
P6	52 51'.860 N	00 21'.573 E
	52 51'.808 N	00 21'.651 E
	52 51'.724 N	00 21'.557 E
	52 51'.576 N	00 21'.481 E
	52 51'.600 N	00 21'.385 E
	52 51'.726 N	00 21'.473 E
P7	52 51'.476 N	00 21'.377 E
	52 51'.471 N	00 21'.460 E
	52 51'.576 N	00 21'.481 E
	52 51'.600 N	00 21'.385 E

Figure 9 - Temporary closure for the protection of seals during their sensitive pupping period*.(*From the opening of the fishery until the 31st August 2019.)



		Decimal Degrees		Degrees Minutes.m						Area
Site	ID	Lat	Long	Lat			Long			(Hectares)
Hull Sand	A	52.845501	0.298109	52°	50.730	'N	00°	17.887	'E	148.8
	B	52.845501	0.316090	52°	50.730	'N	00°	18.965	'E	
	C	52.834422	0.316090	52°	50.065	'N	00°	18.965	'E	
	D	52.834422	0.298109	52°	50.065	'N	00°	17.887	'E	

Figure 10 – Temporary closures (1st November 2019 to 28th February 2020) to protect Oystercatcher



Closure	ID	Degrees.degrees		Degrees Minutes.minutes		Area (Hectares)
		Lat	Long	Lat	Long	
OC1	A	52.84305	0.21783	52°50.58 'N	0°13.07 'E	88.6
	B	52.84227	0.22807	52°50.54 'N	0°13.68 'E	
	C	52.84149	0.23215	52°50.49 'N	0°13.93 'E	
	D	52.84275	0.23293	52°50.57 'N	0°13.98 'E	
	E	52.84415	0.23864	52°50.65 'N	0°14.32 'E	
	F	52.83973	0.24298	52°50.38 'N	0°14.58 'E	
	G	52.8384	0.23906	52°50.30 'N	0°14.34 'E	
	H	52.837	0.23847	52°50.22 'N	0°14.31 'E	
	I	52.83525	0.23515	52°50.12 'N	0°14.11 'E	
	J	52.8354	0.22931	52°50.12 'N	0°13.76 'E	
	K	52.83706	0.22631	52°50.22 'N	0°13.58 'E	
	L	52.84095	0.22568	52°50.46 'N	0°13.54 'E	
	M	52.84012	0.21801	52°50.41 'N	0°13.08 'E	
OC2	A	52.83558	0.24238	52°50.13 'N	0°14.54 'E	43
	B	52.8345	0.24625	52°50.07 'N	0°14.78 'E	
	C	52.82789	0.24266	52°49.67 'N	0°14.56 'E	
	D	52.82835	0.23394	52°49.70 'N	0°14.04 'E	
	E	52.83324	0.23709	52°49.99 'N	0°14.23 'E	