

## **Map book for revised broad zone Option 7**

**December 2017**

**NEFMC Habitat Plan Development Team**

To show the Option 7 boundary with respect to coral and bottom trawl VMS data, this map book breaks the edge of the shelf into eleven different sections, and maps corals information or individual types of VMS data with respect to the boundaries.

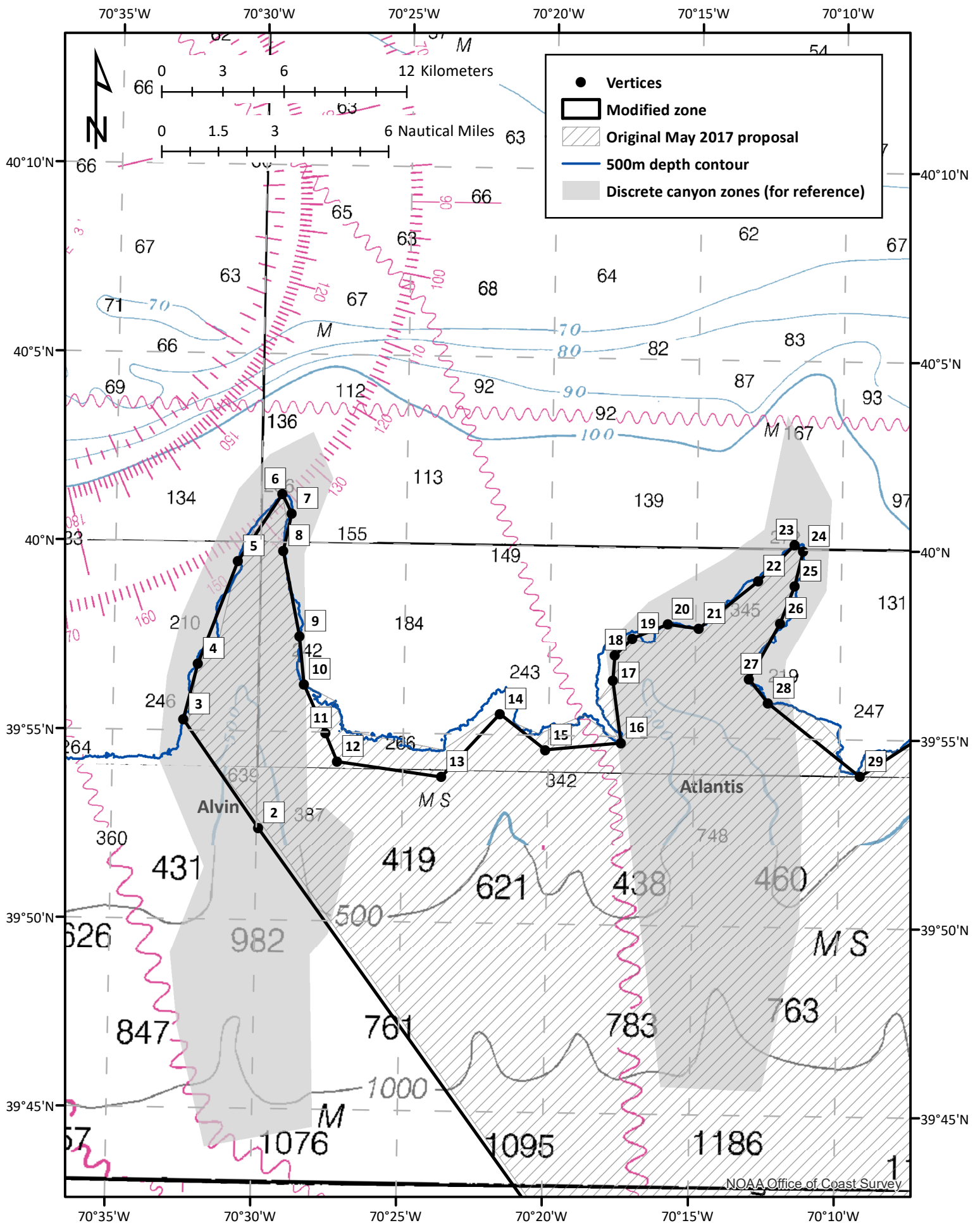
For each section of the continental shelf, there is a map of coral data, and at the same large scale, combined years maps of model-based trawl, model based squid trawl, and speed filtered bottom trawl. These datasets are explained further in the PDT's memo to the Committee. These maps overlay all the annual datasets of a certain type, and show areas where VMS polls were dense (0-1 or 1-2 std dev) or very dense (2+ std dev) only. The first map in each section shows the revised Option 7 boundary over a nautical chart.

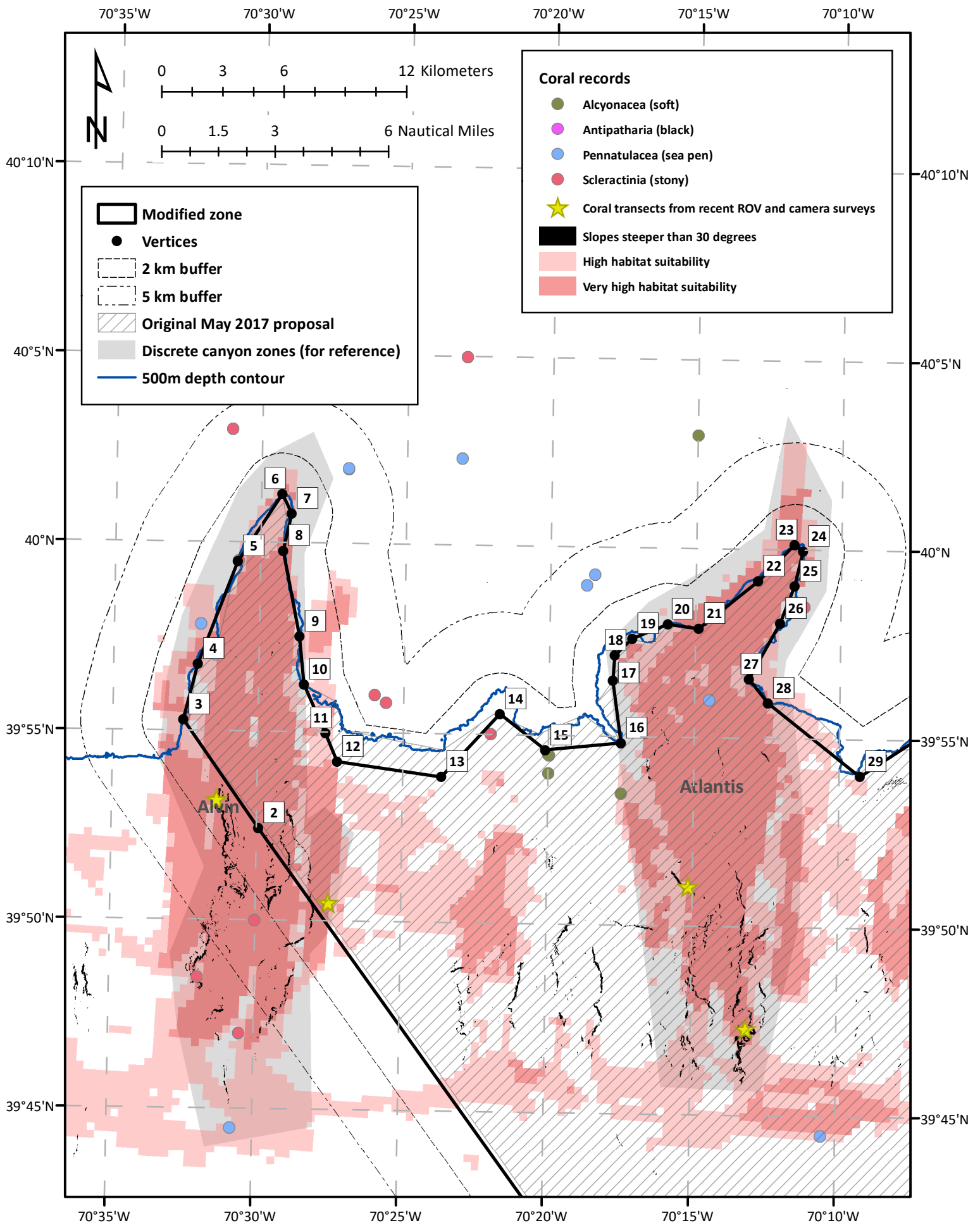
There are also individual year panel maps. For the model-based bottom trawl and squid trawl data, the maps read left to right by row, going from 2005-2012. For the speed-filtered data, the maps span 2010-2016, and there is a regional-scale 2016 map as well. Unfortunately, the year labels did not export properly so they cannot be read off of most of the panels. These maps show areas of low density VMS polls as well (< -1 std dev, -1-0 std dev).

The relationship to the tilefish gear restricted areas and monkfish/squid closures is shown after the maps for Veatch, Oceanographer, and Lydonia Canyons.

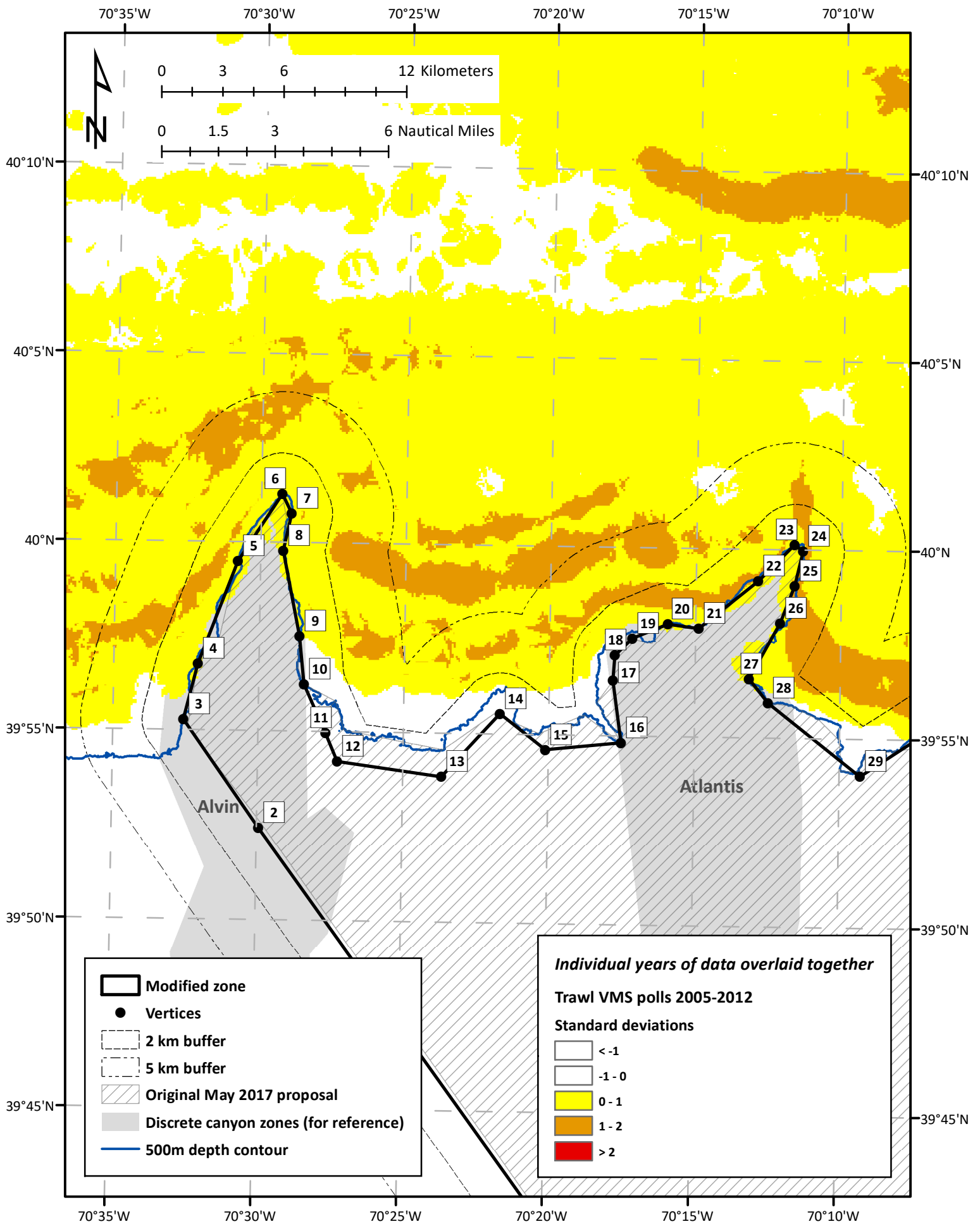
At the conclusion of this document, there is a table of coordinates for the numbered vertices.











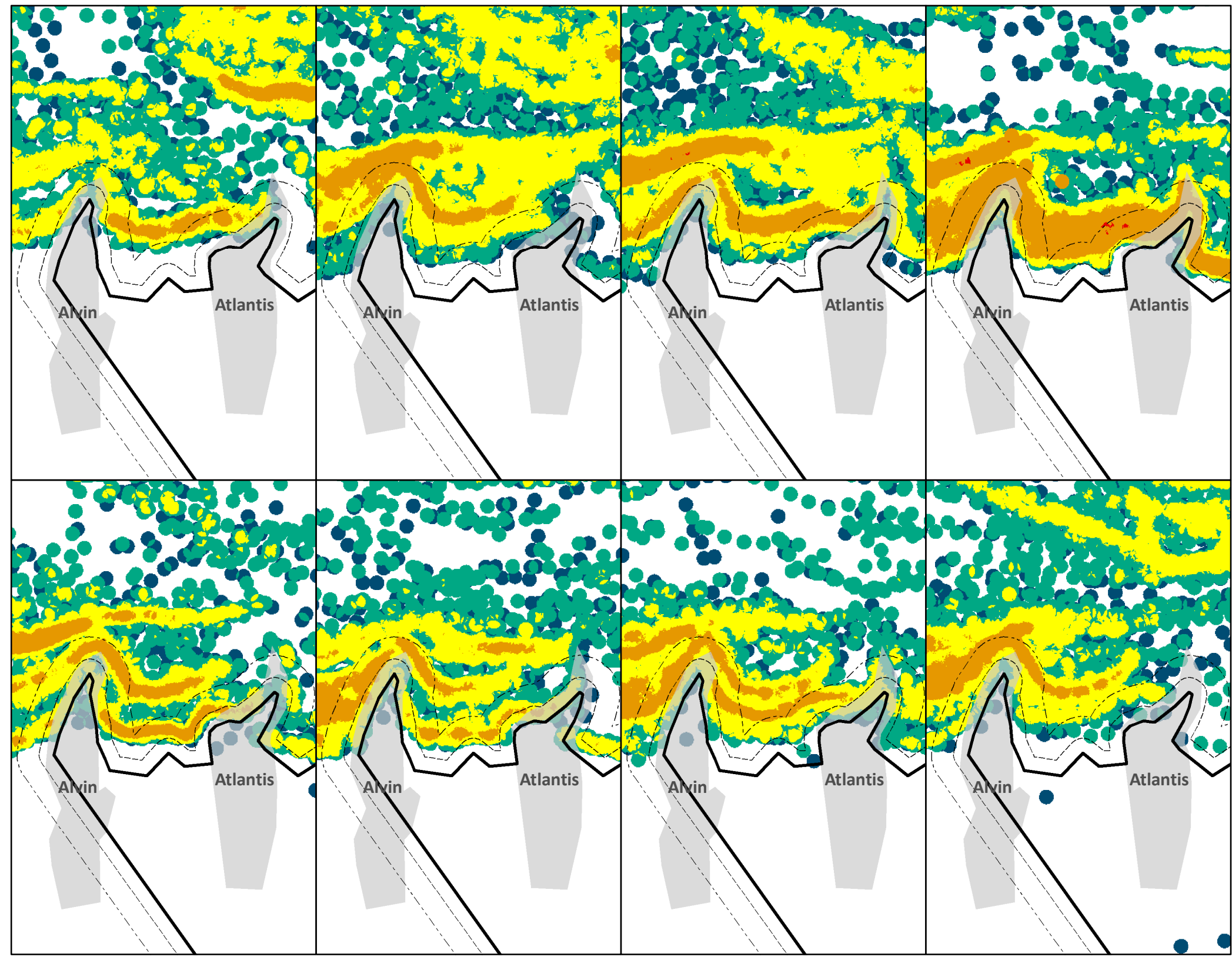
- Modified zone
- Vertices
- 2 km buffer
- 5 km buffer
- Original May 2017 proposal
- Discrete canyon zones (for reference)
- 500m depth contour

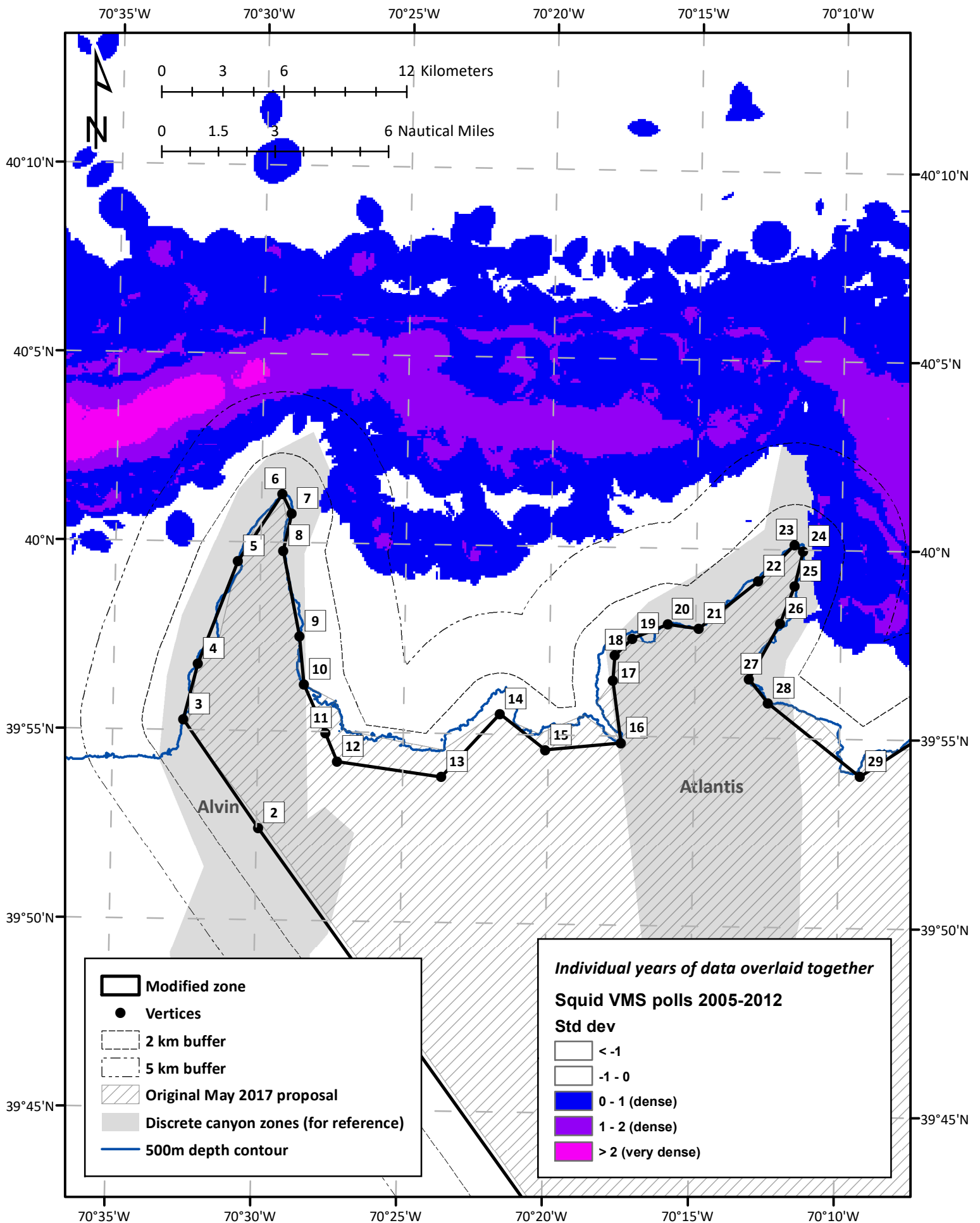
*Individual years of data overlaid together*

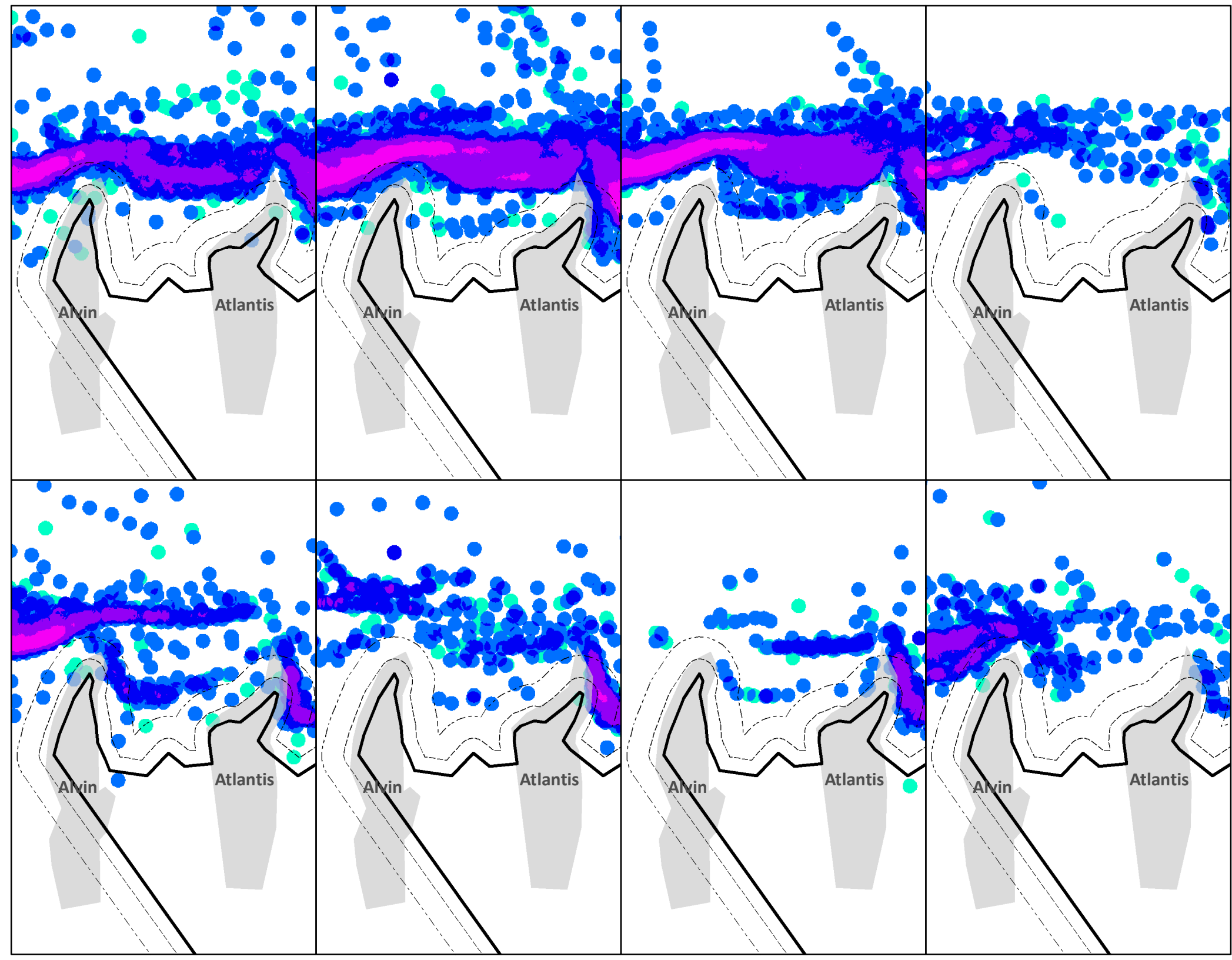
**Trawl VMS polls 2005-2012**

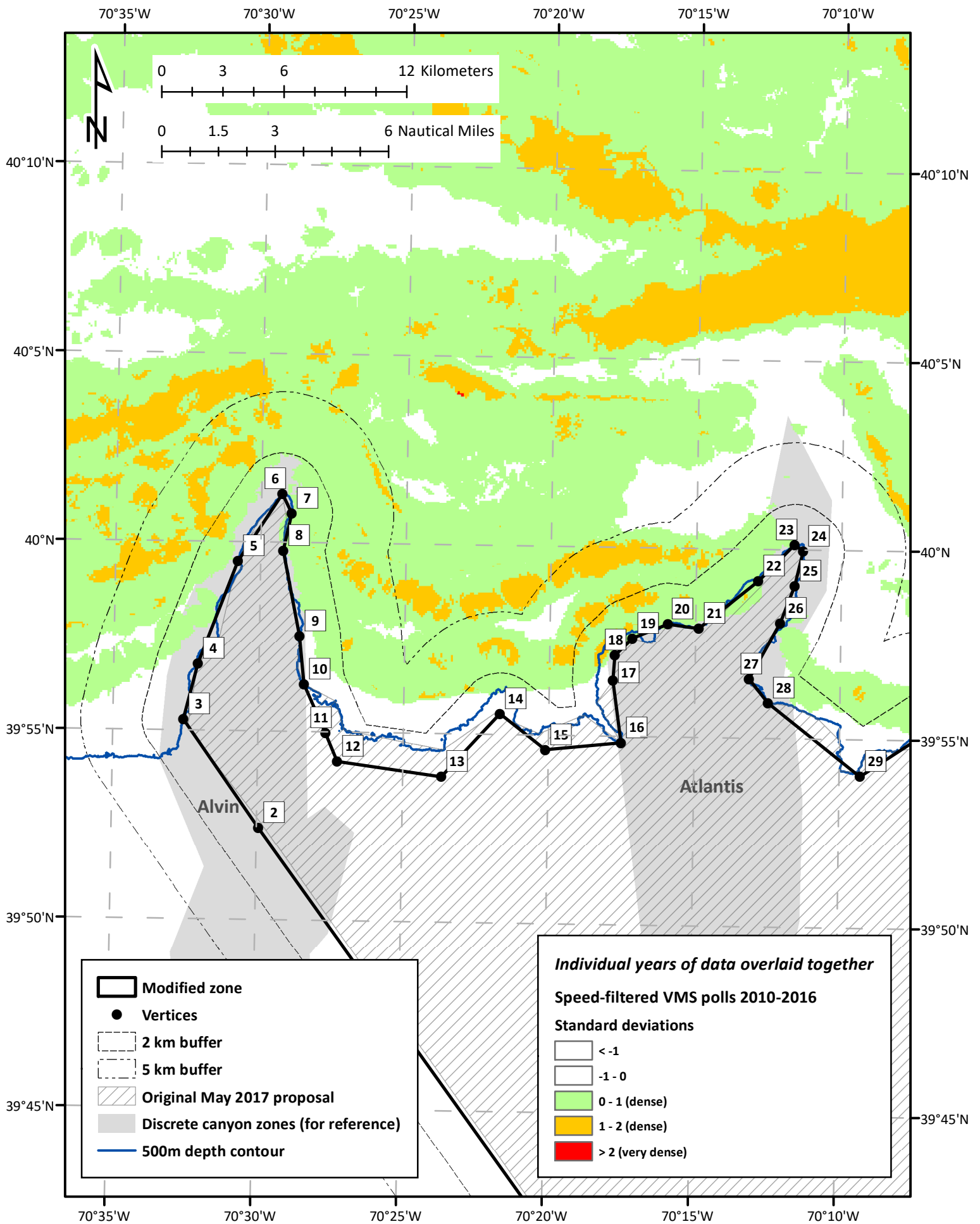
**Standard deviations**

- <math>< -1</math>
- 1 - 0
- 0 - 1
- 1 - 2
- > 2

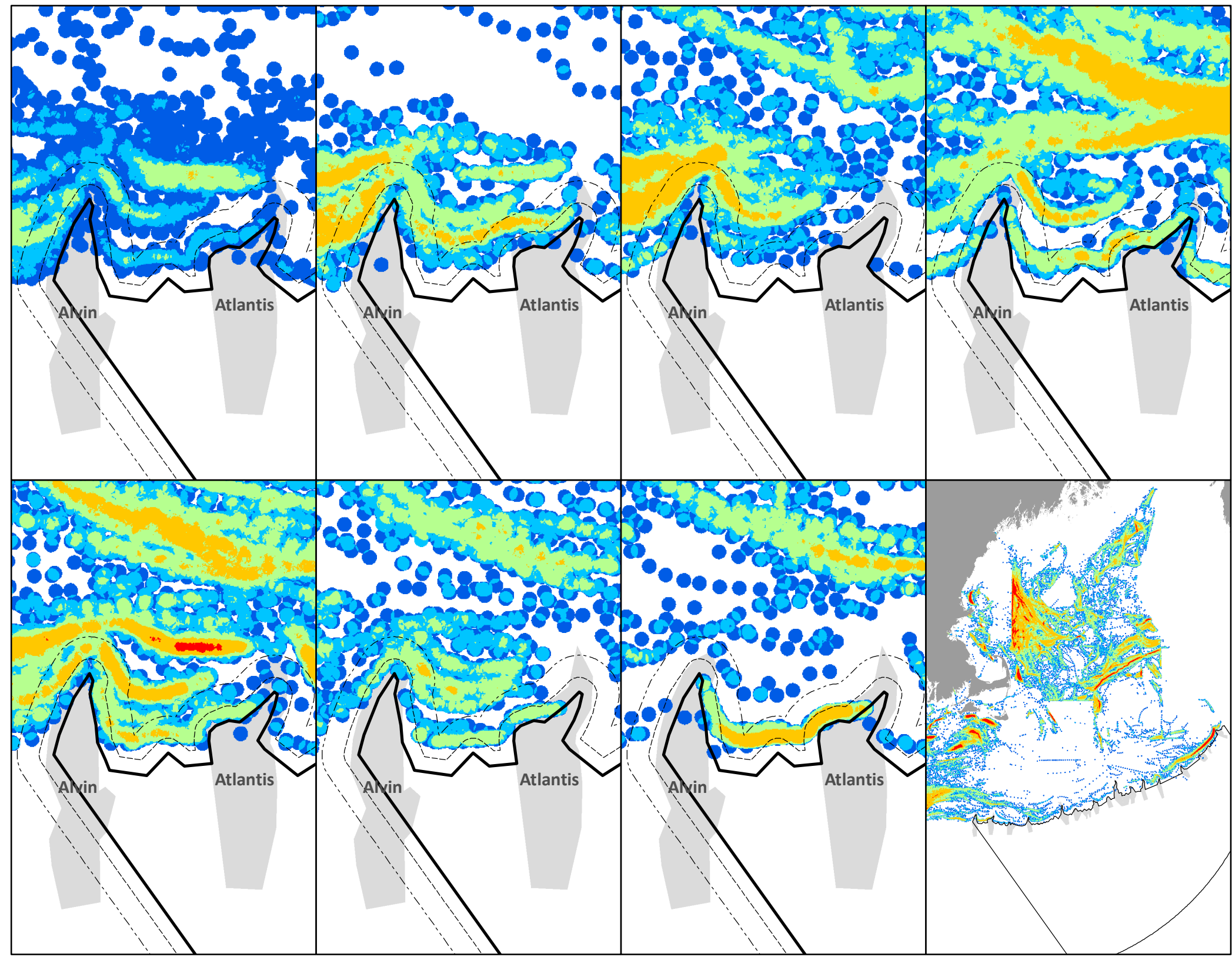


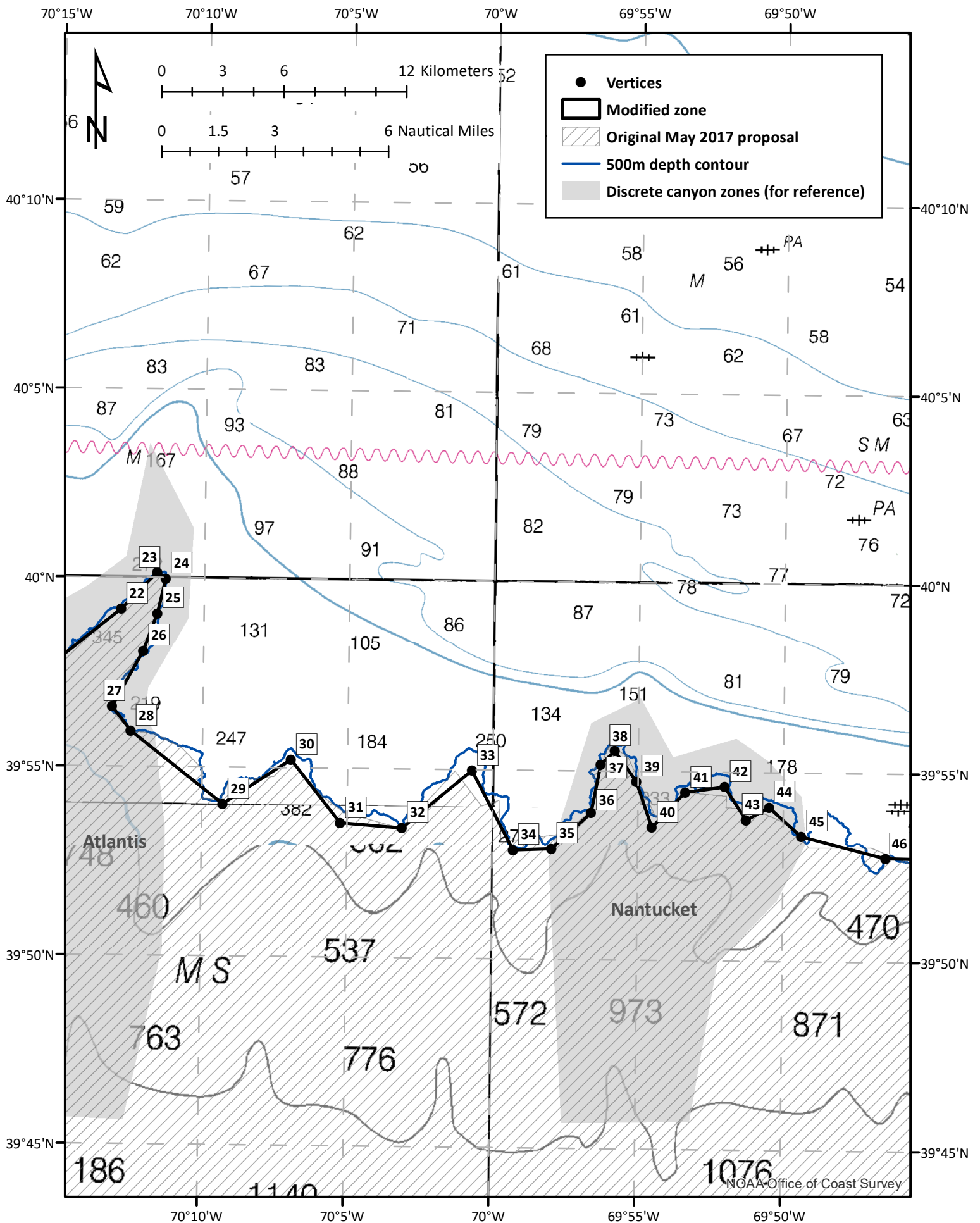




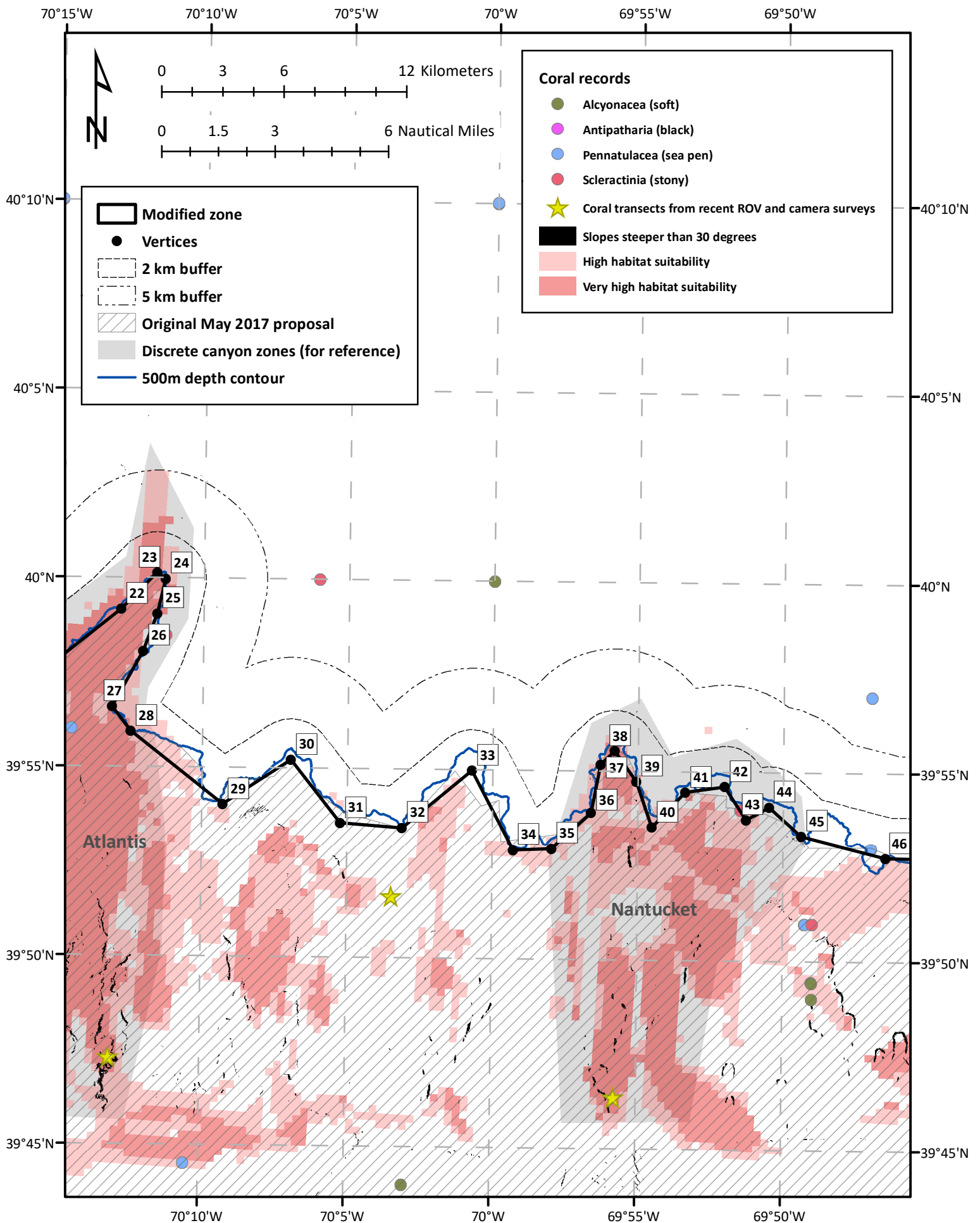


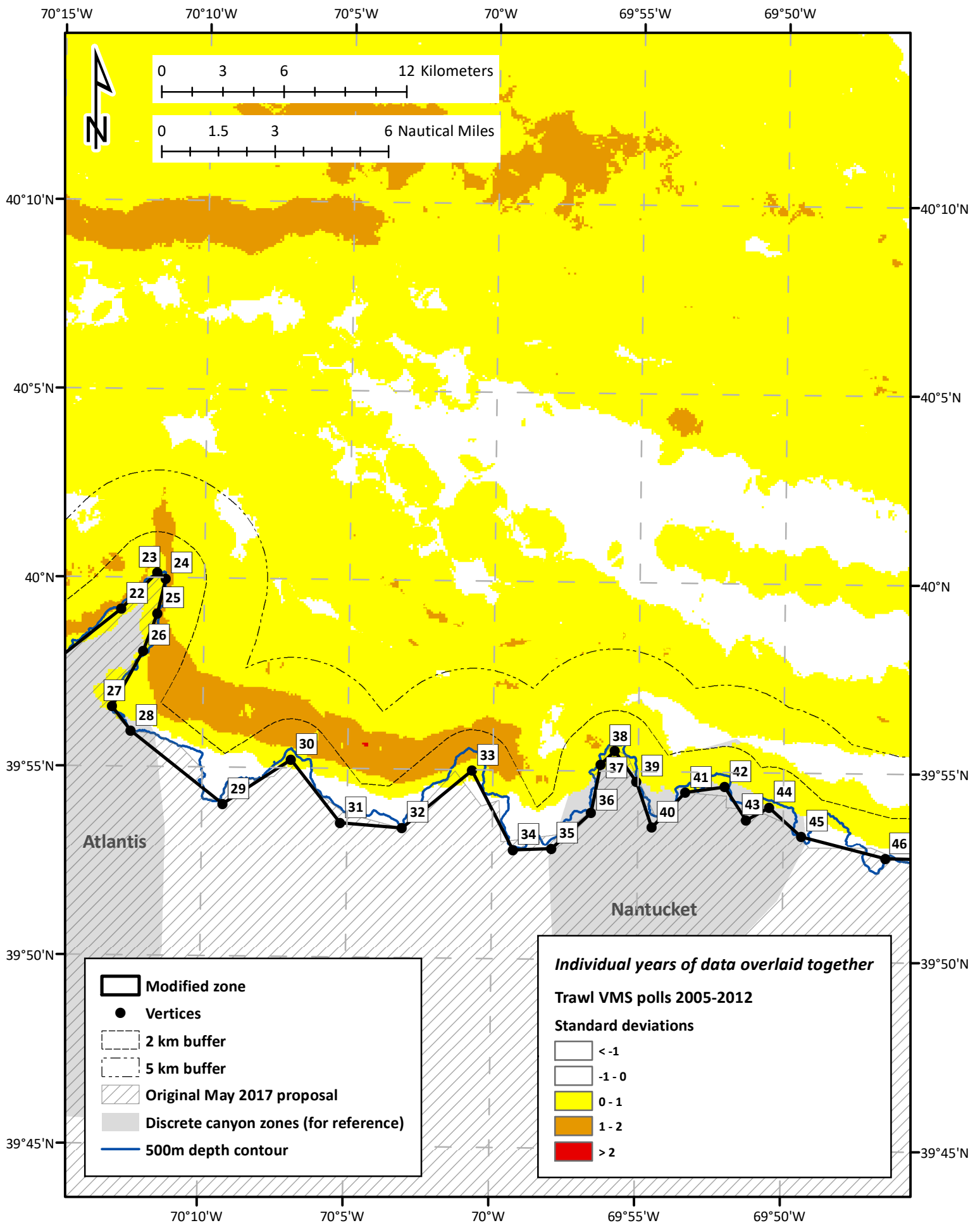


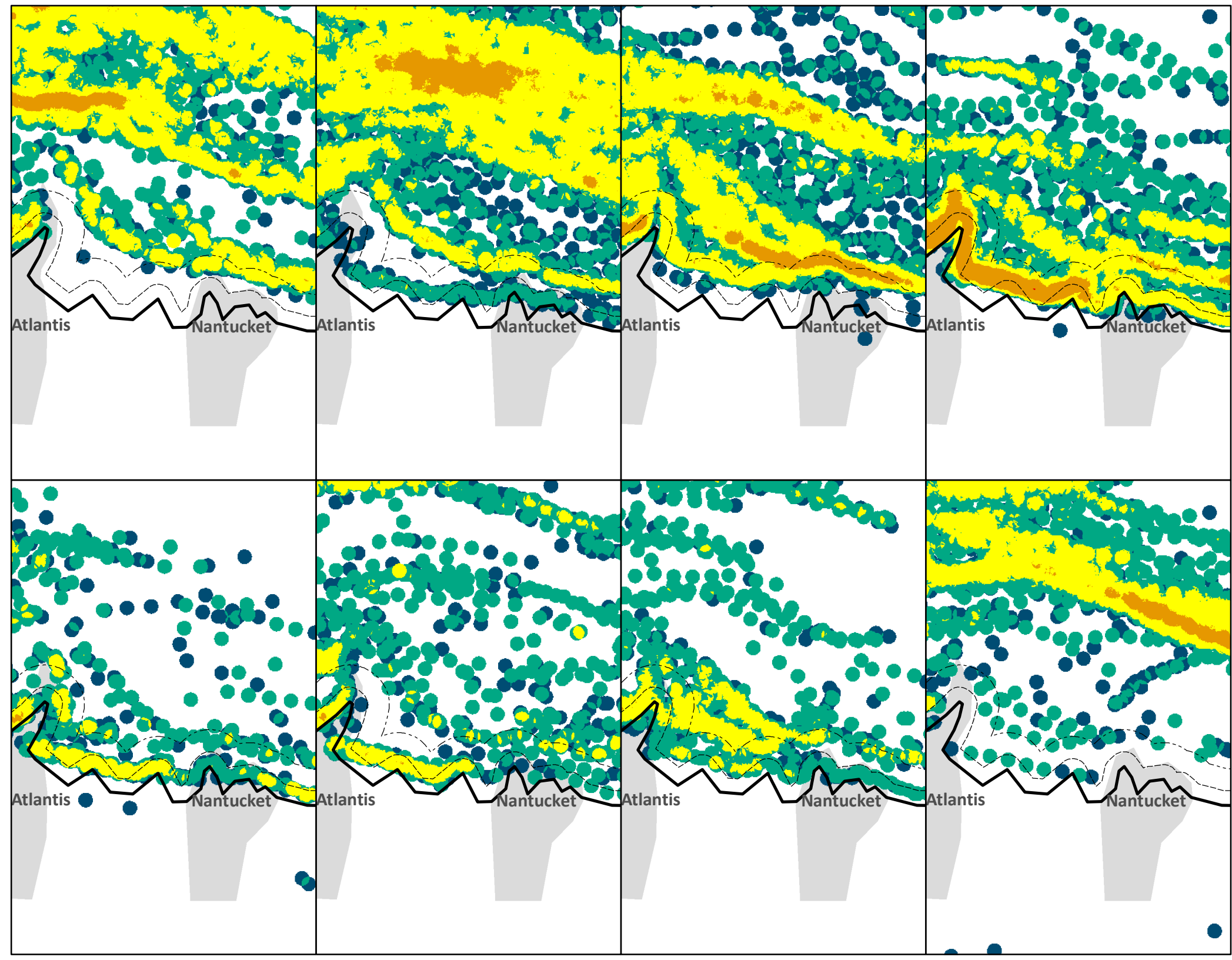


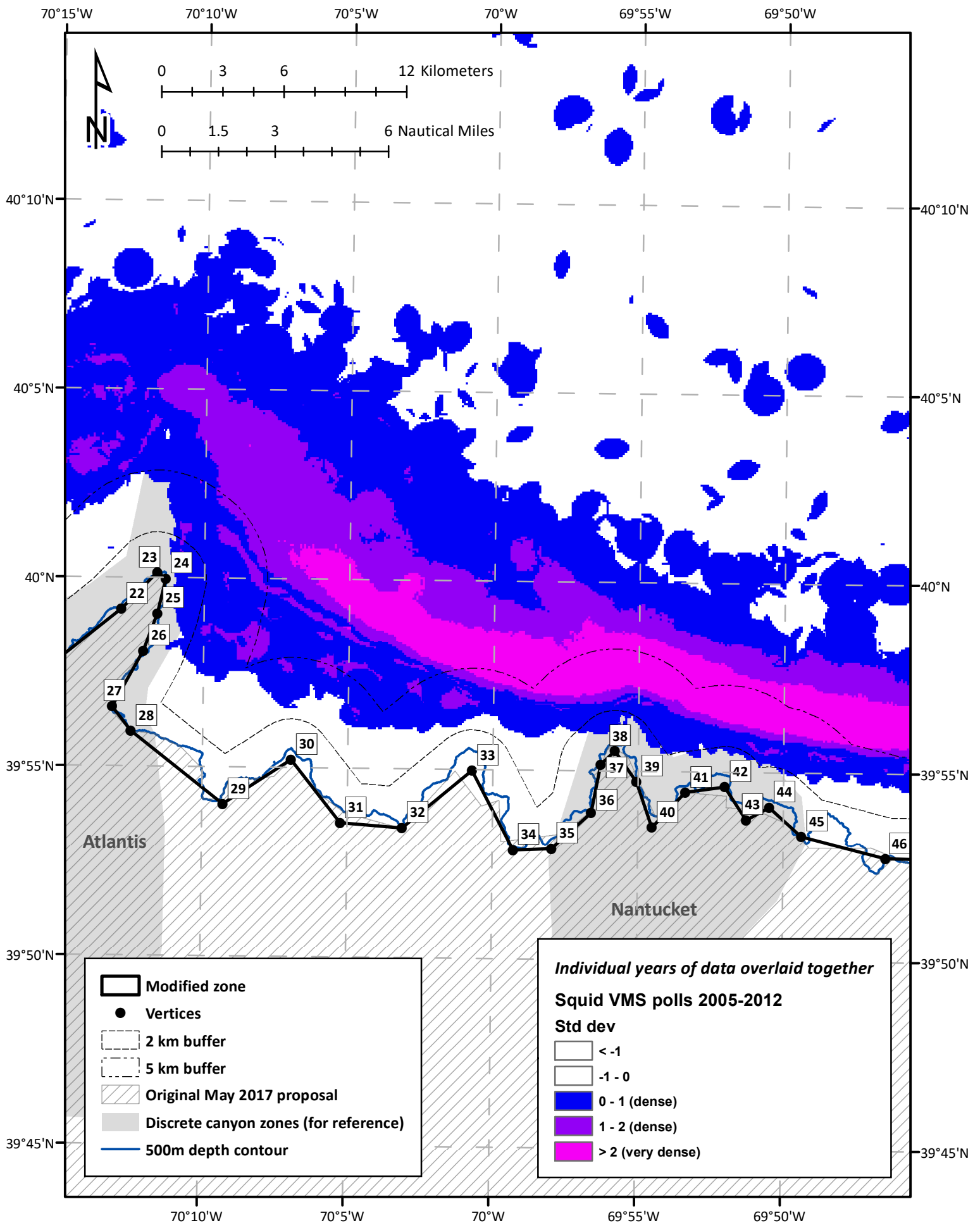


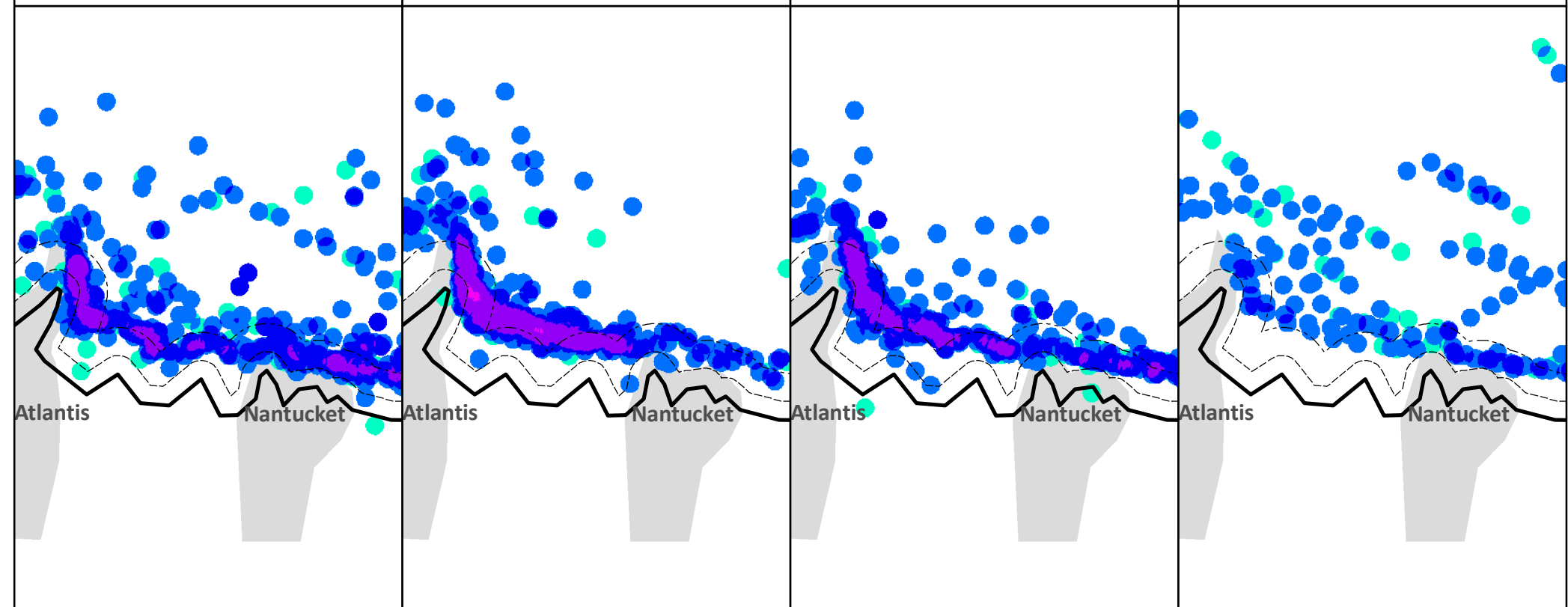
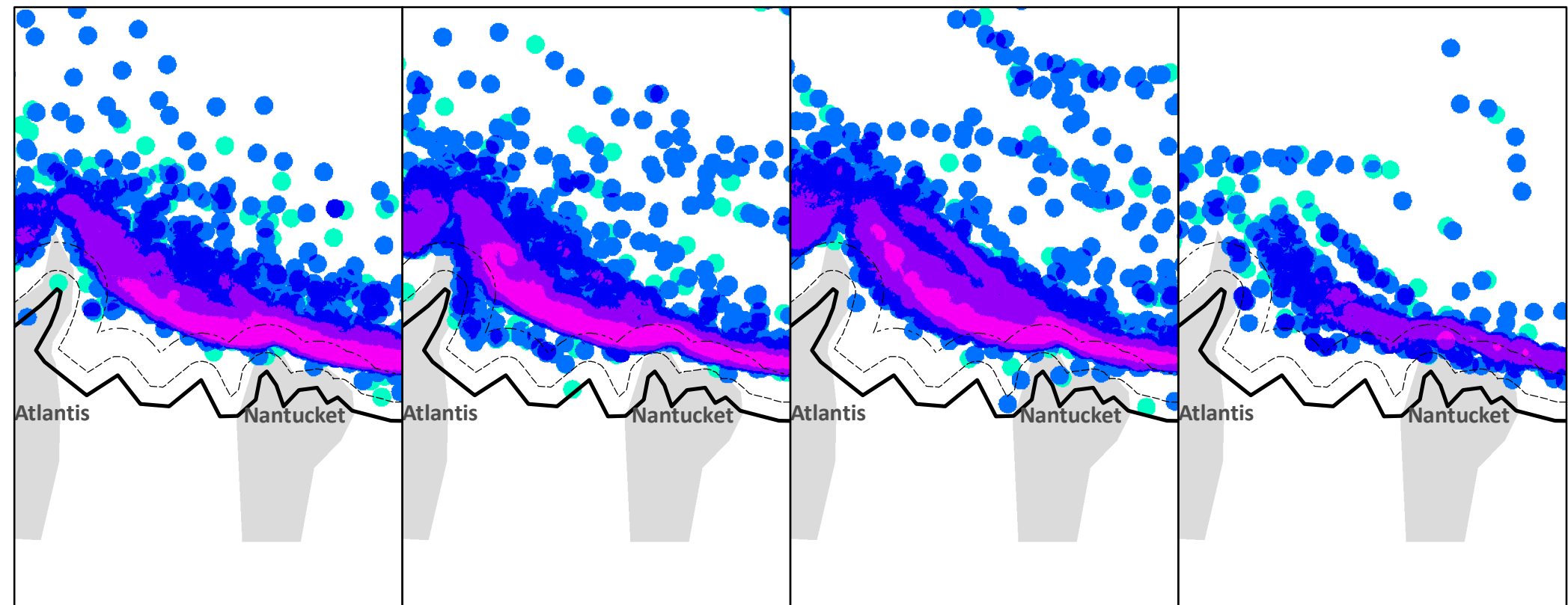




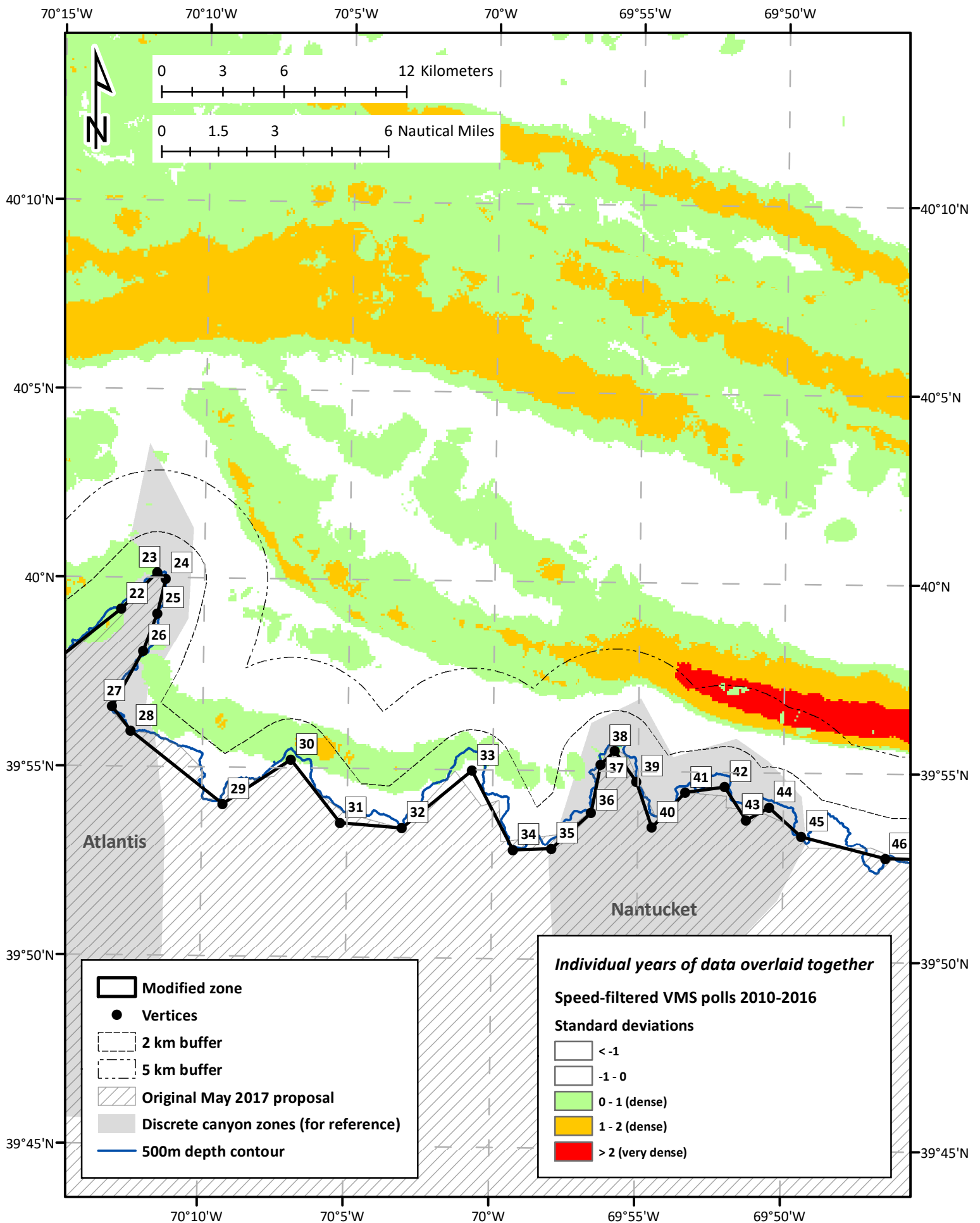


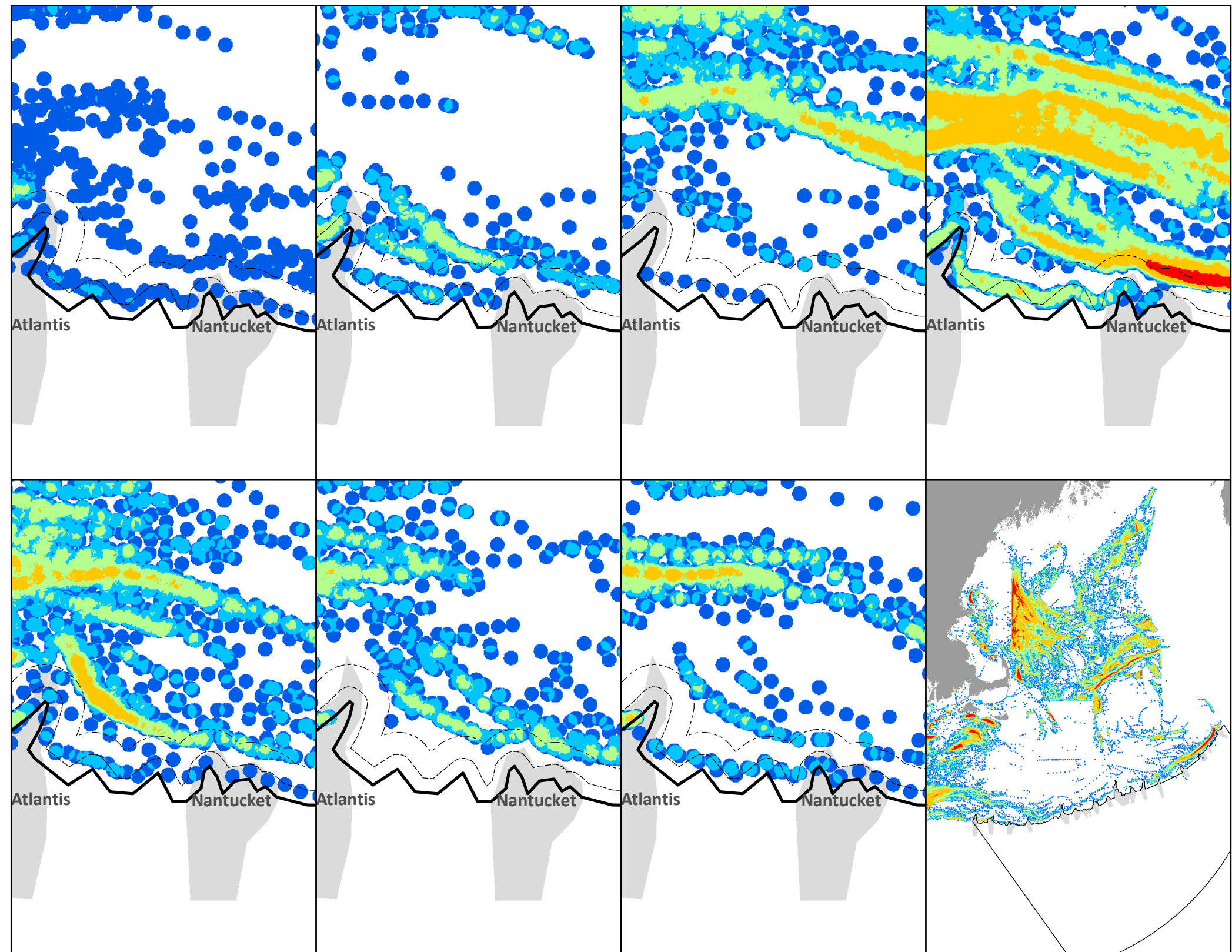




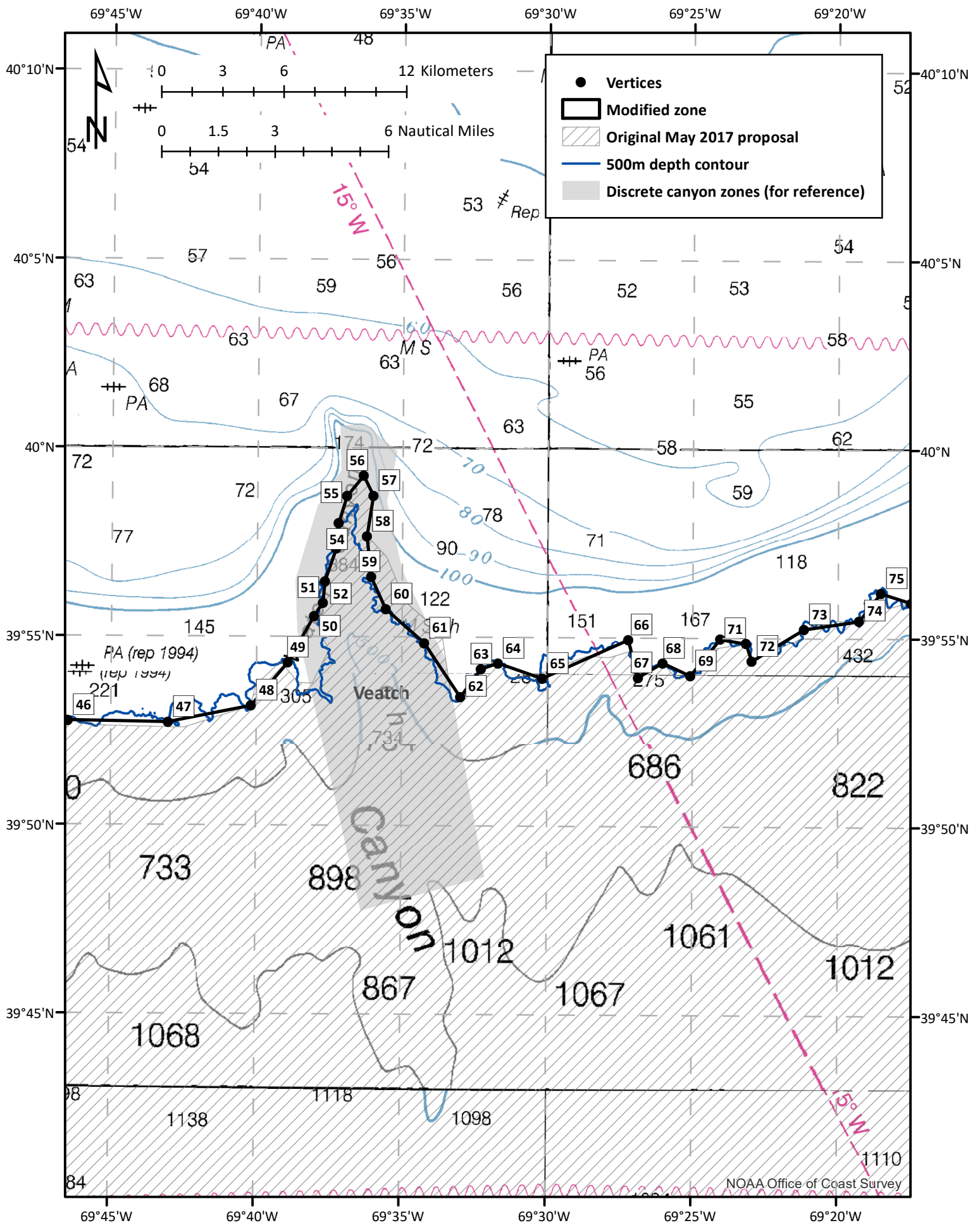


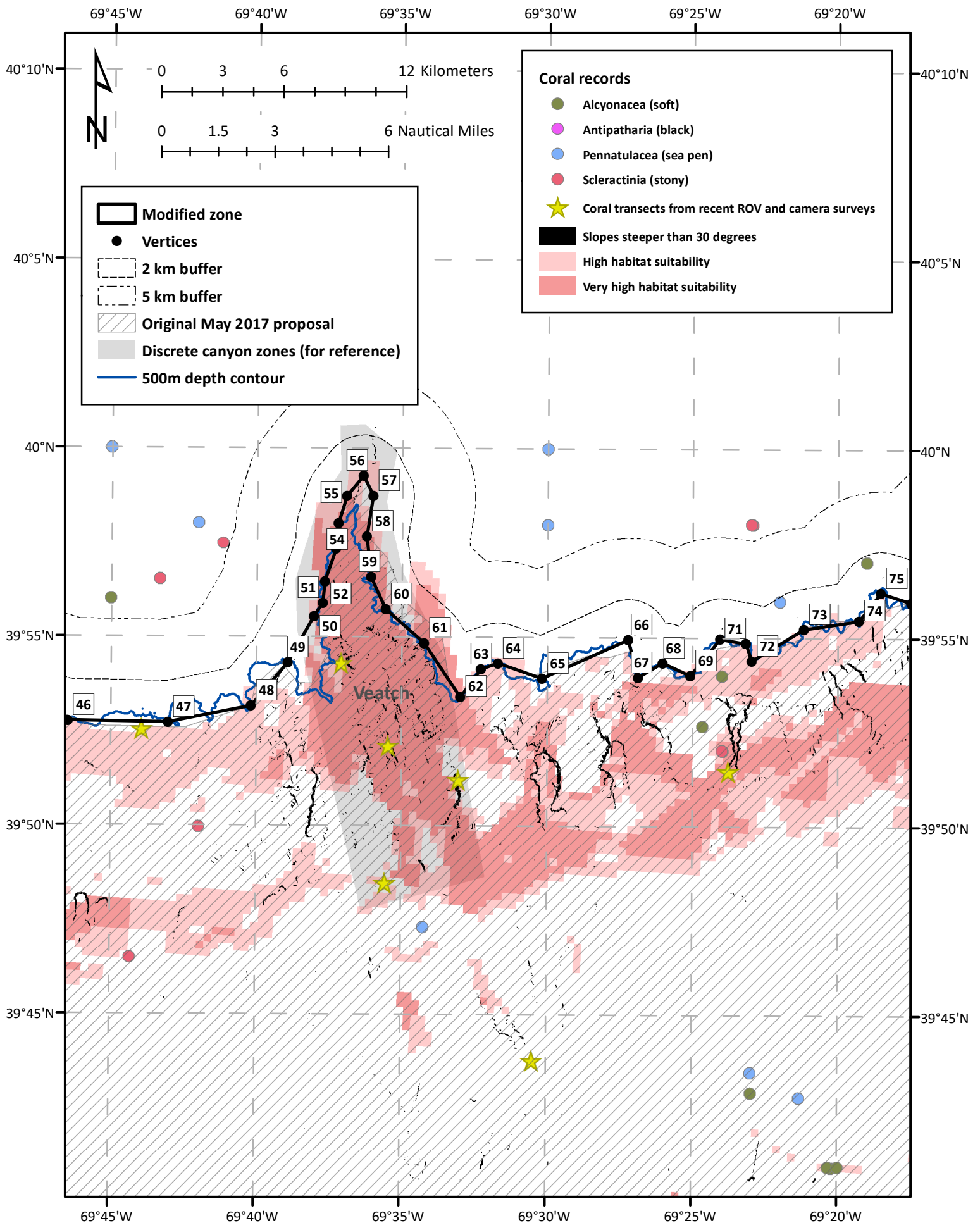


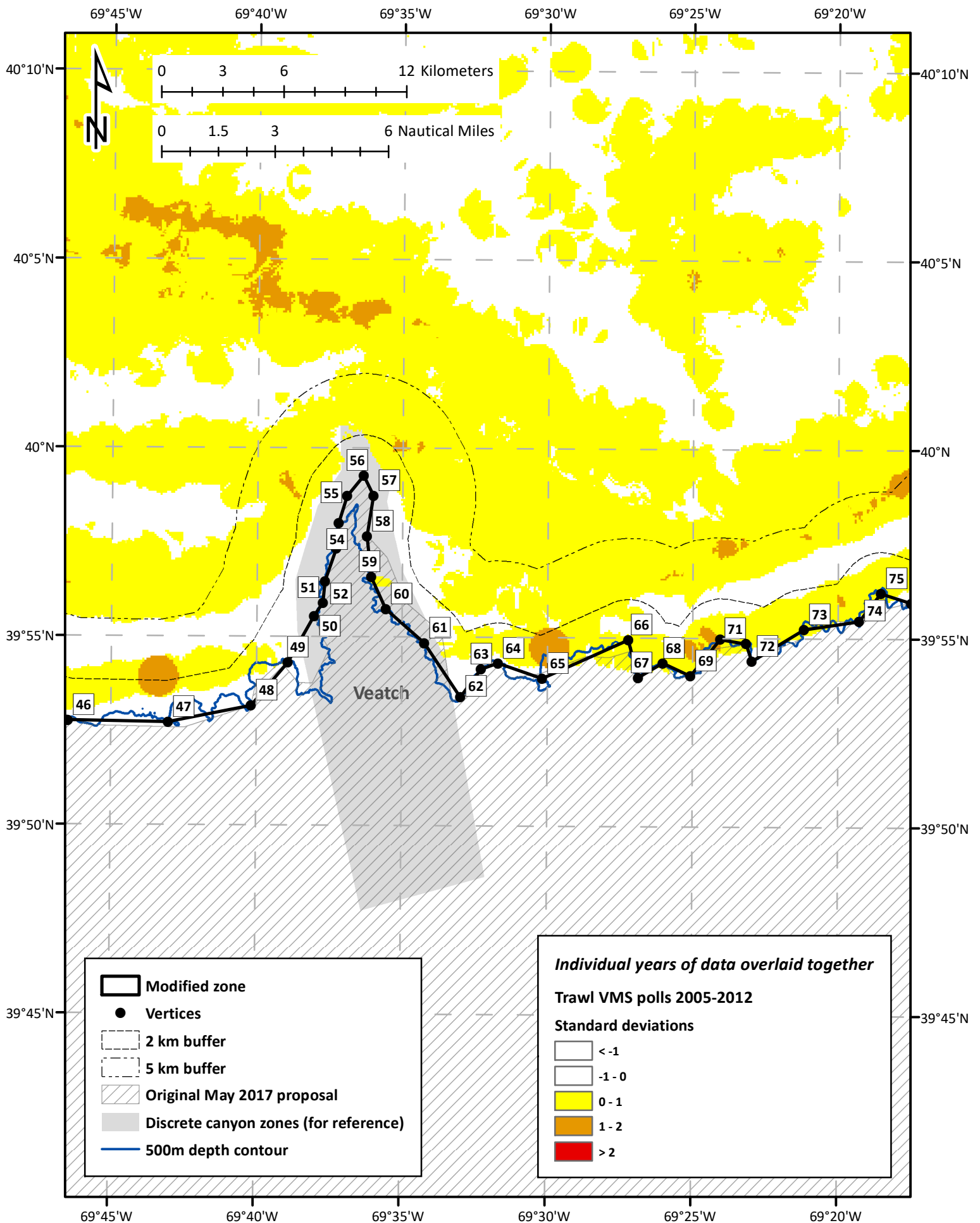


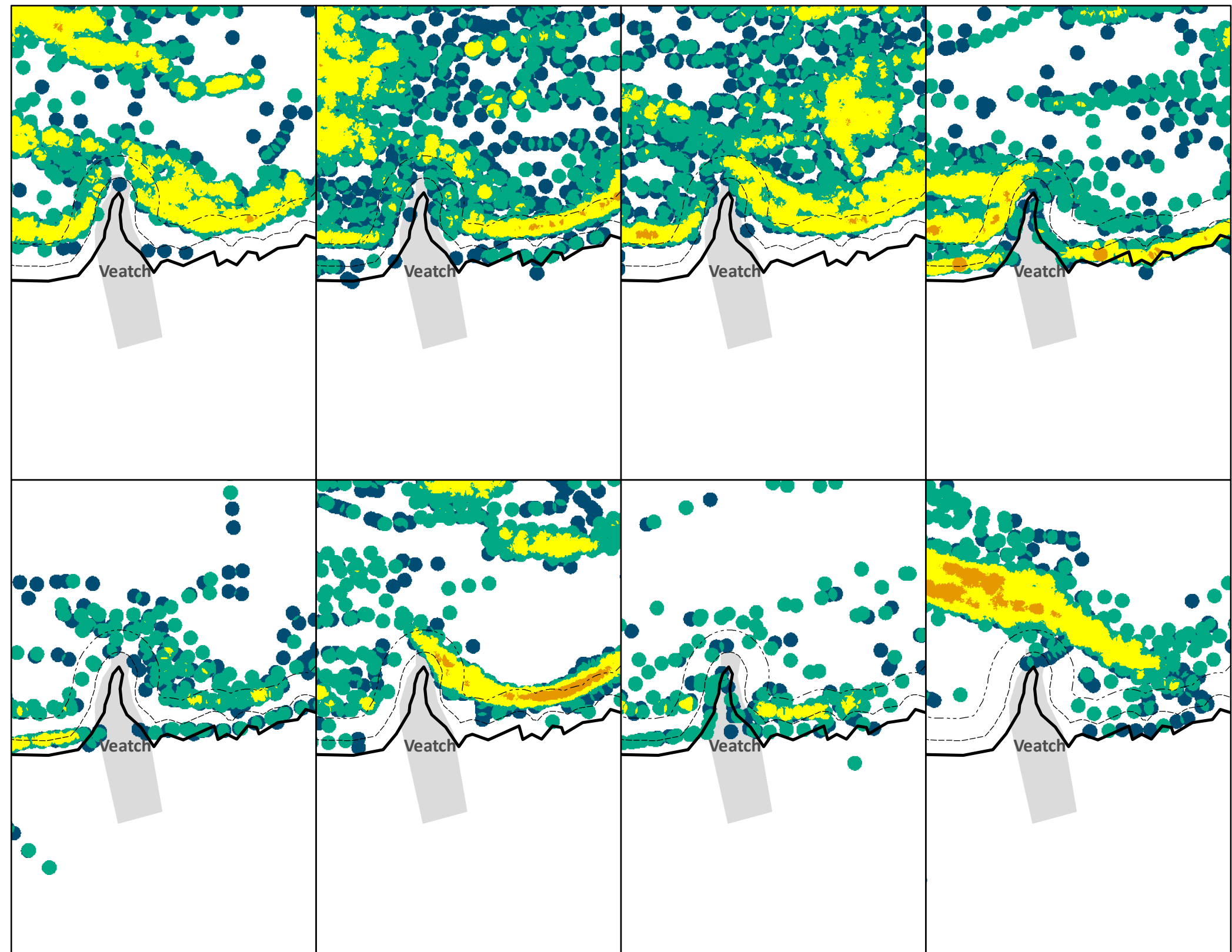




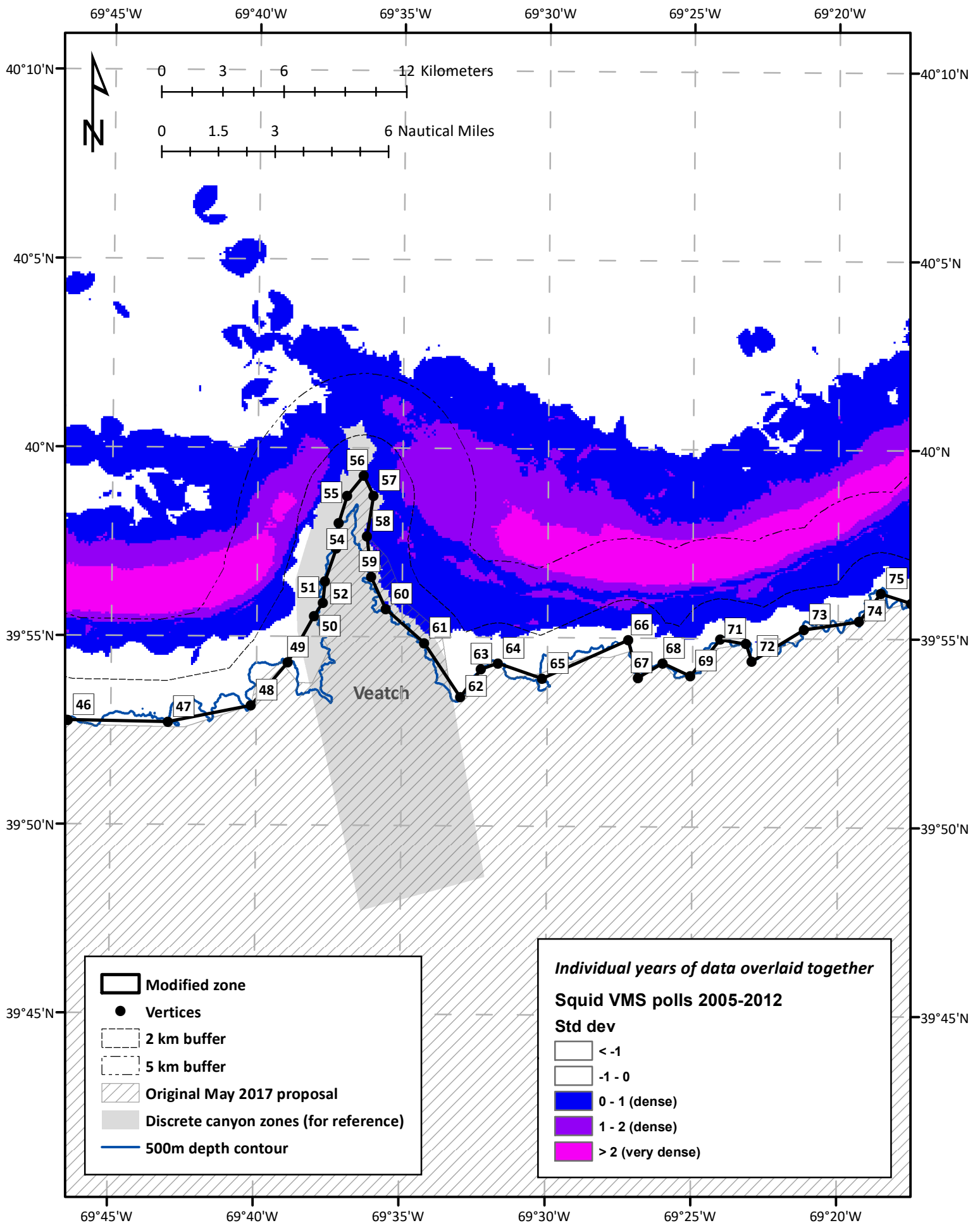


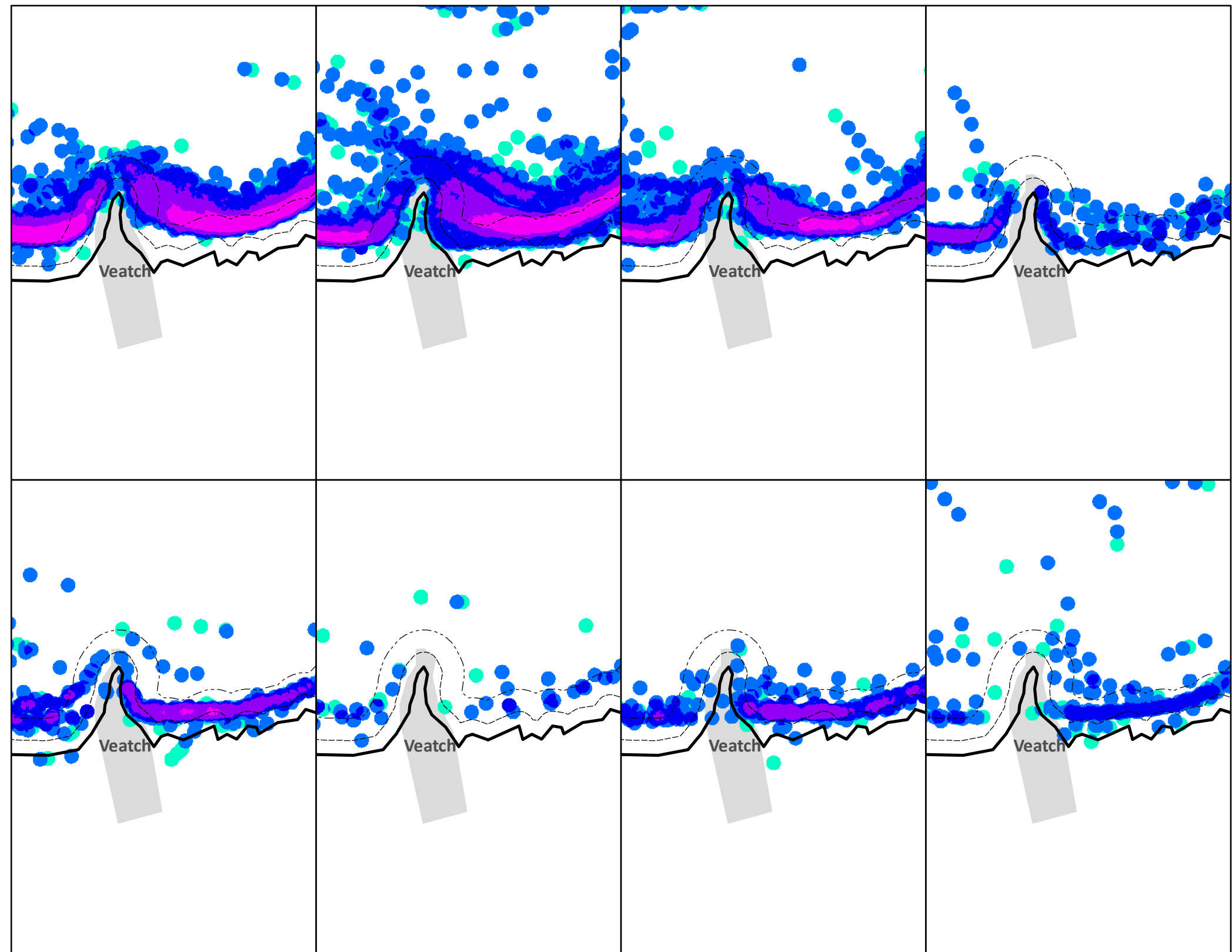


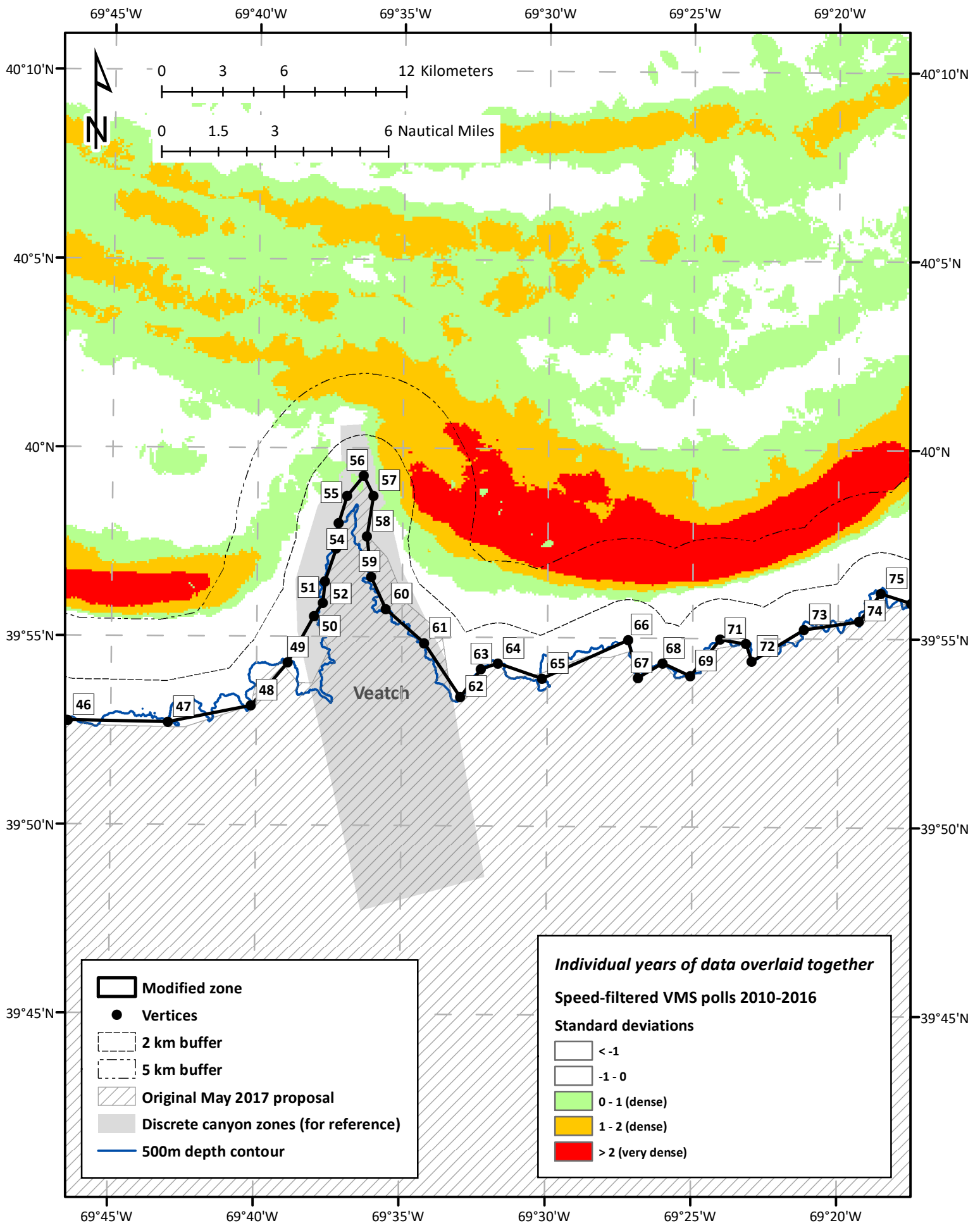




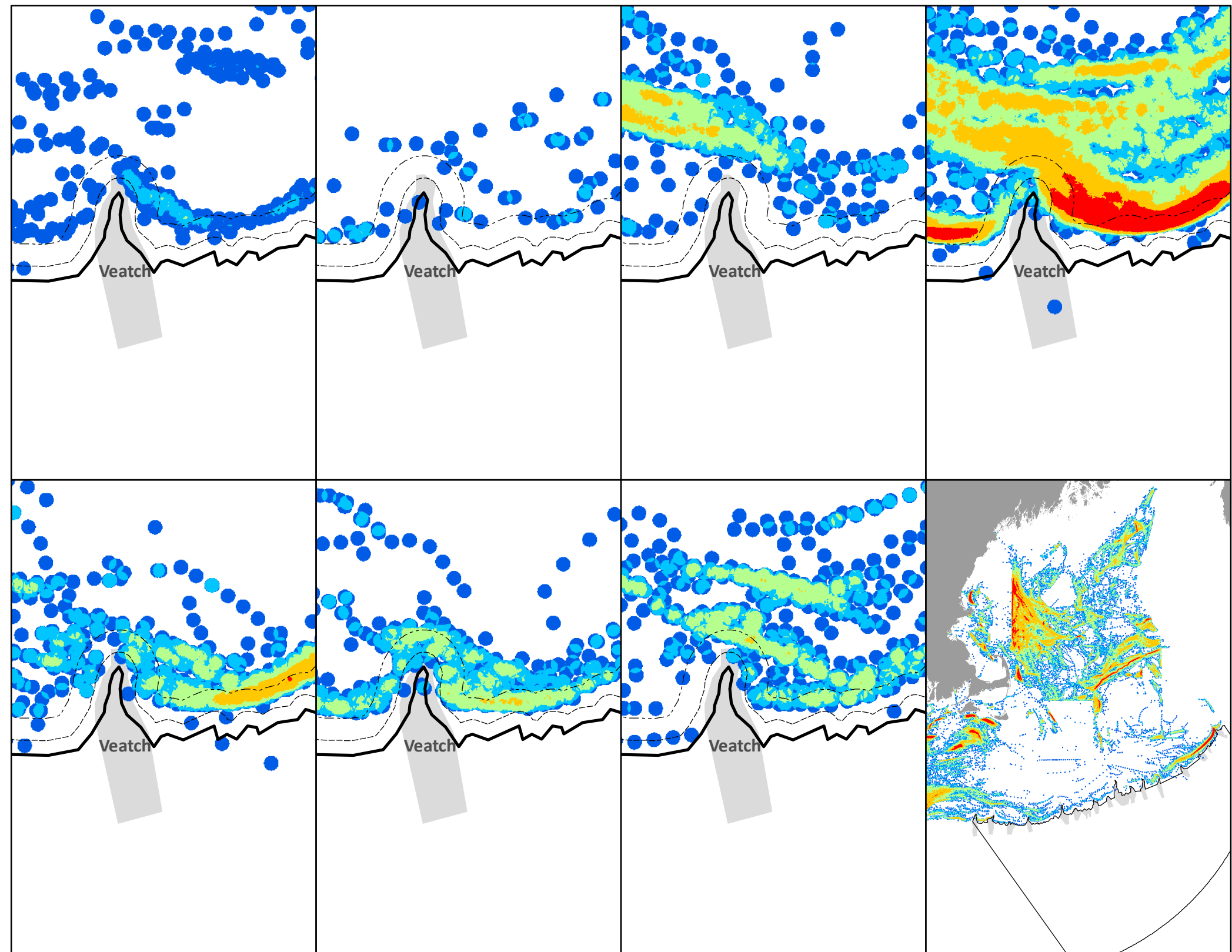


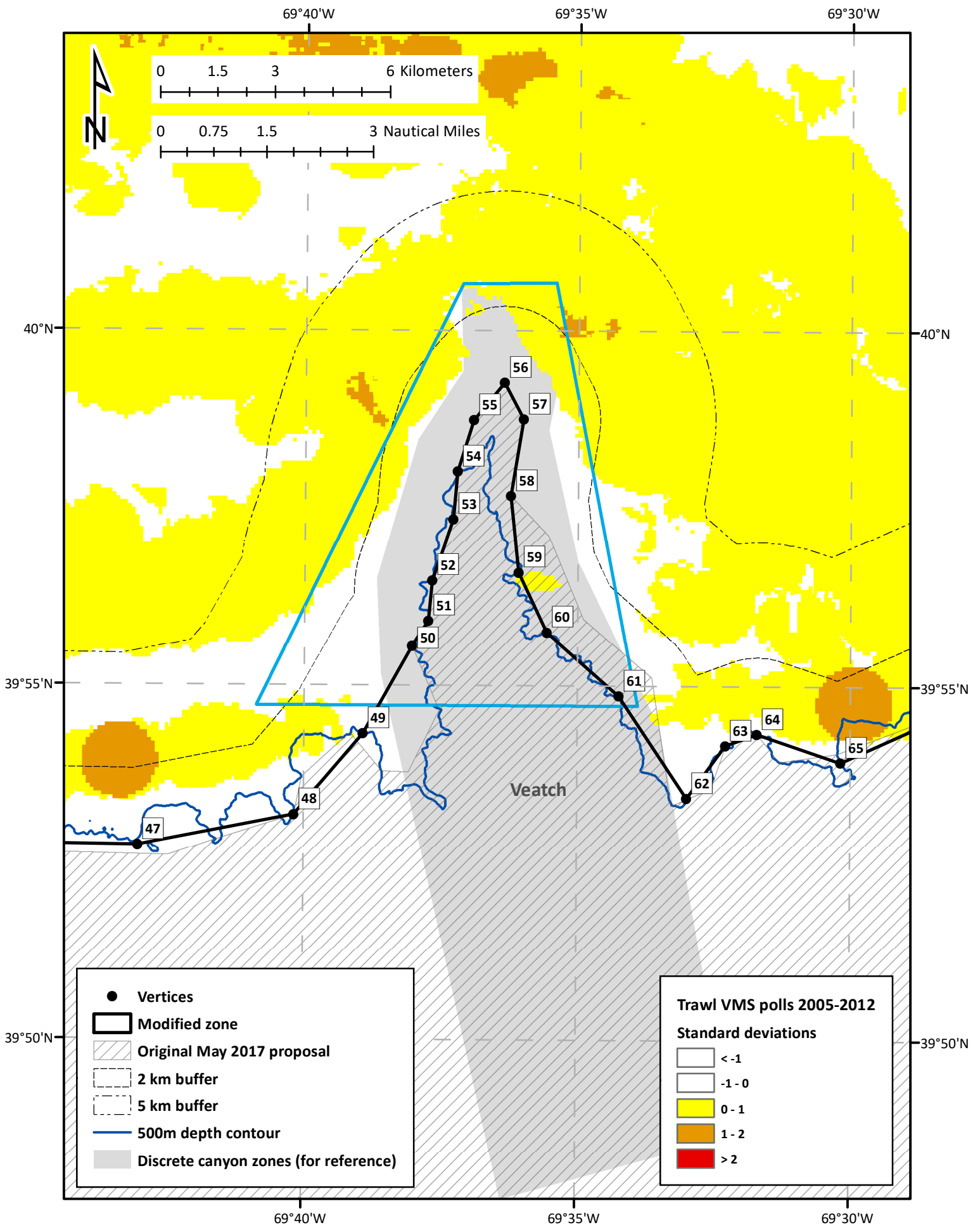


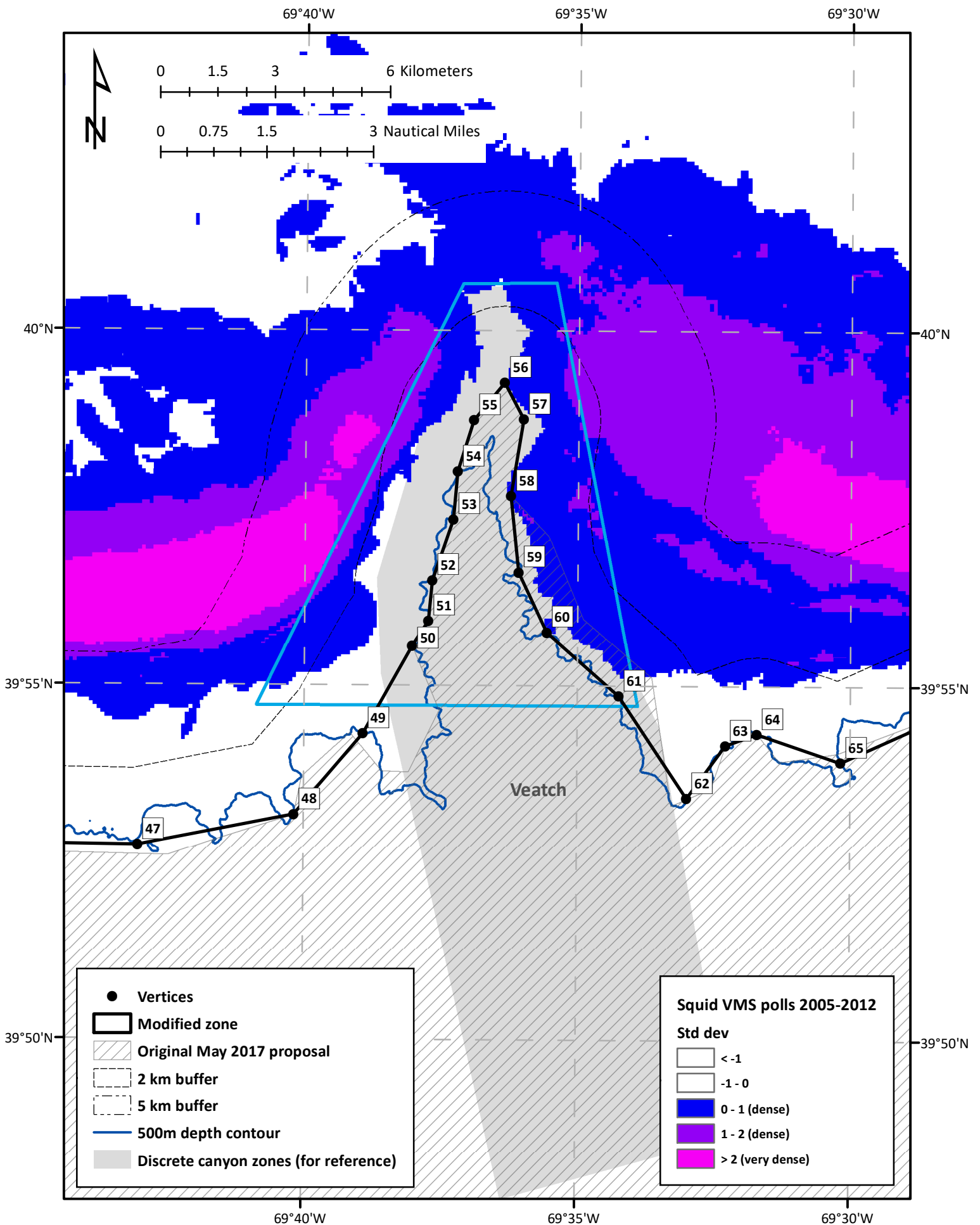


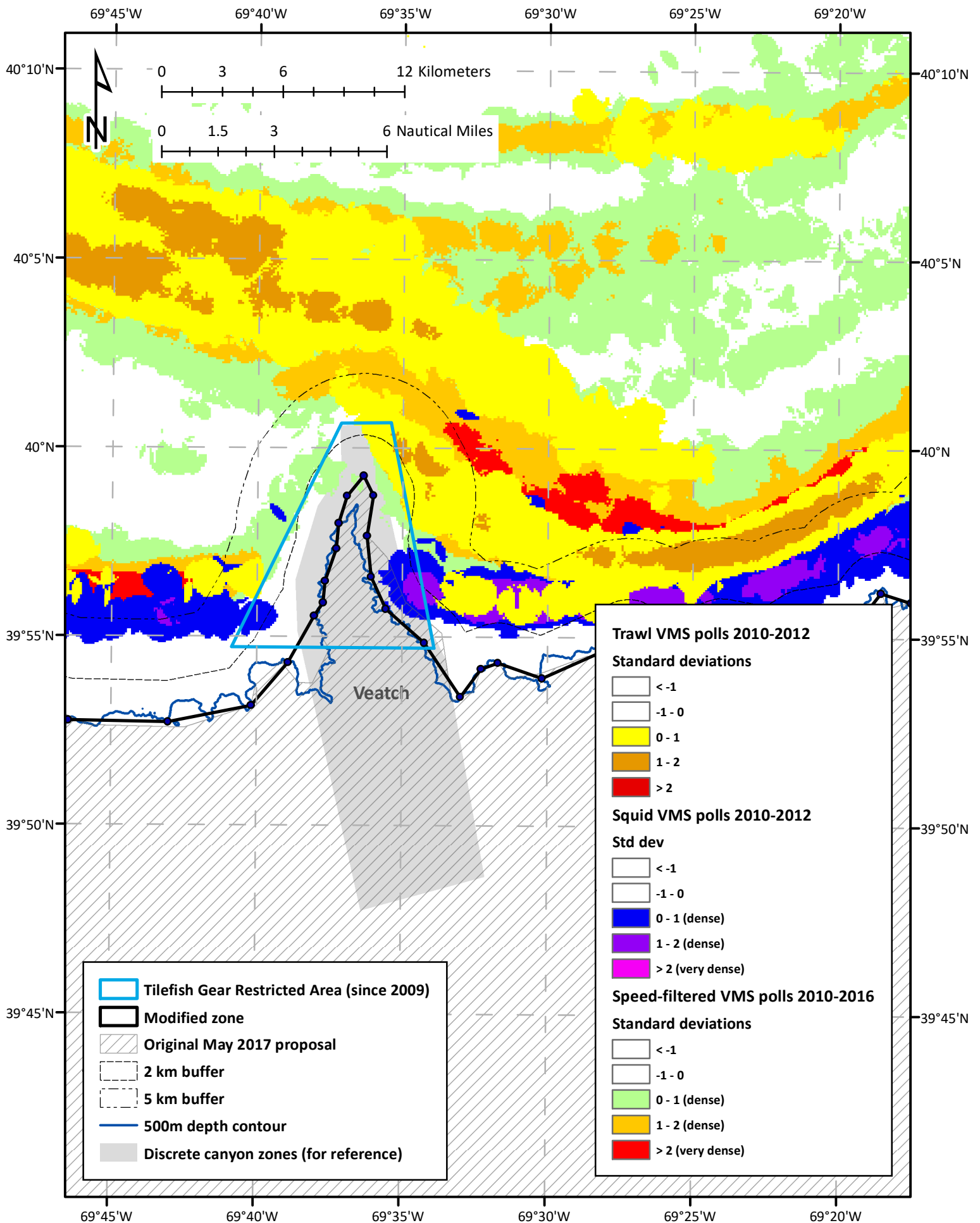


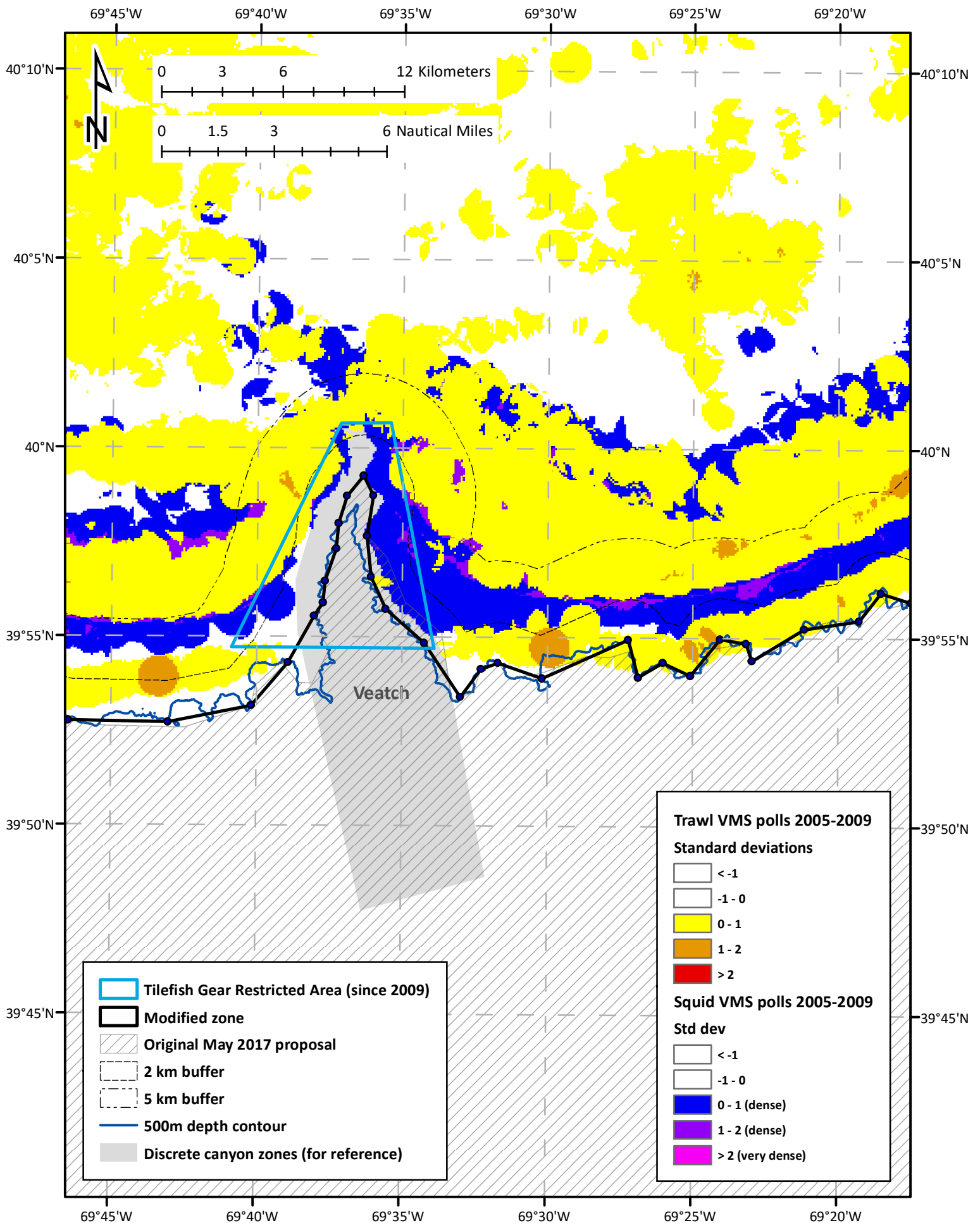




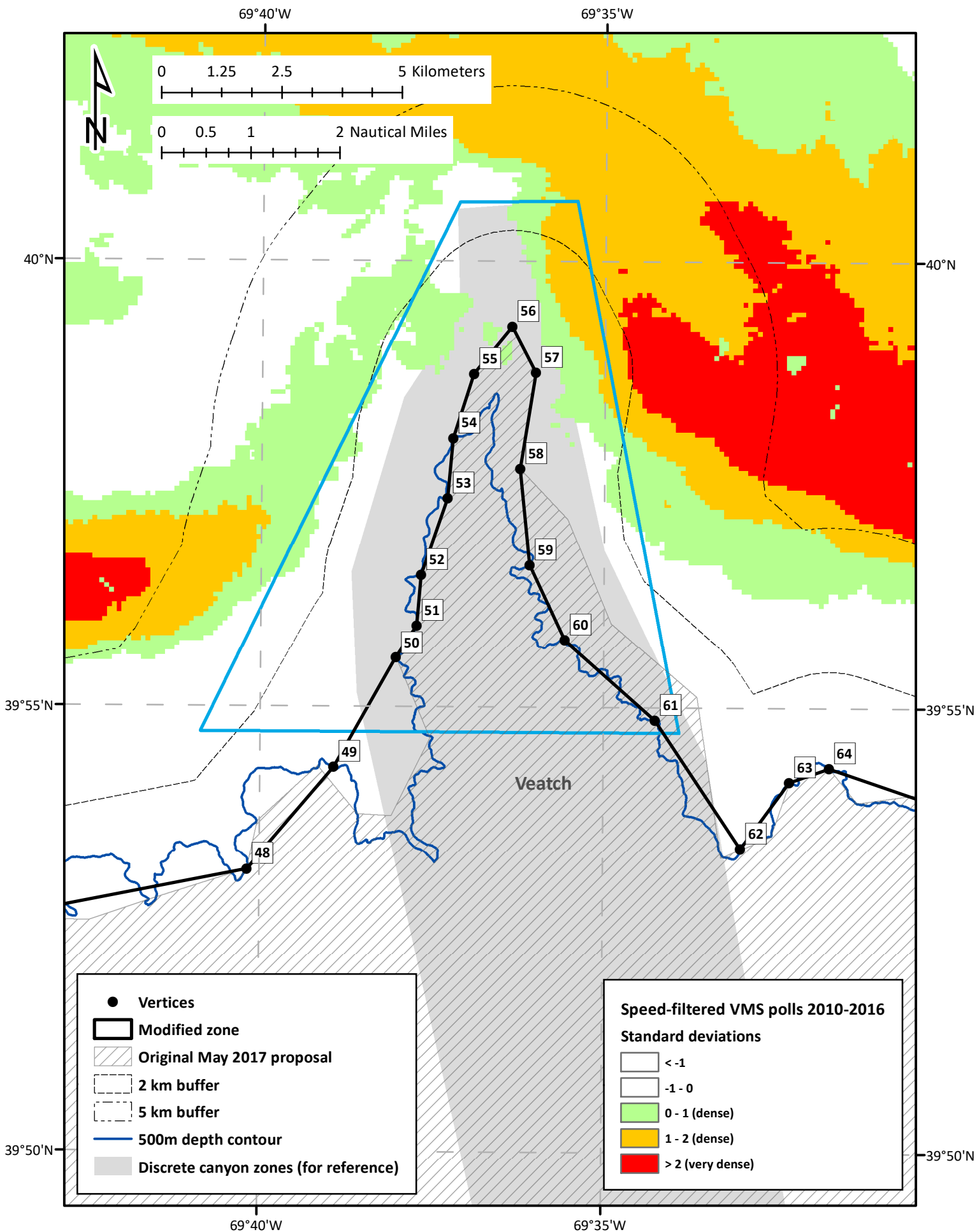


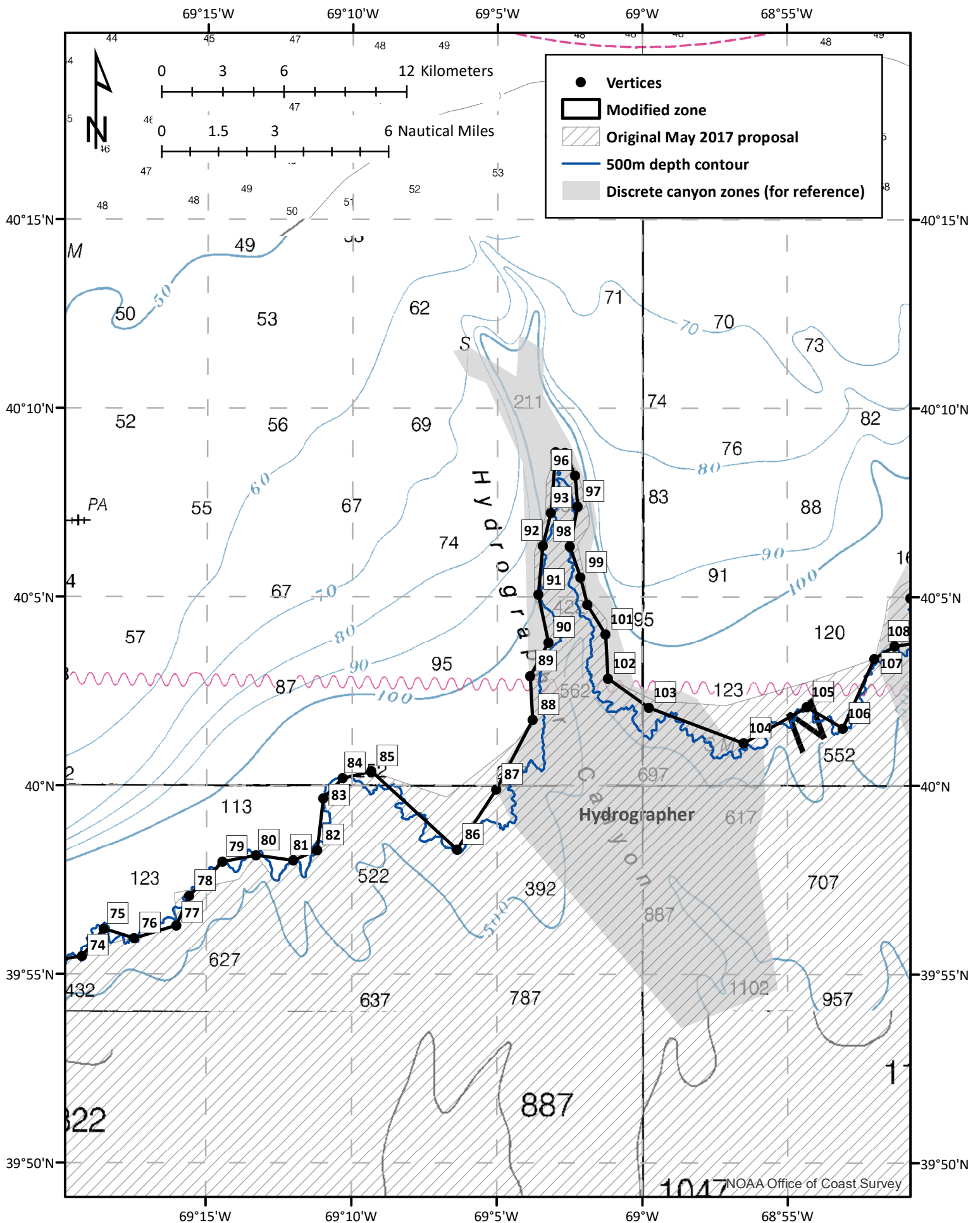




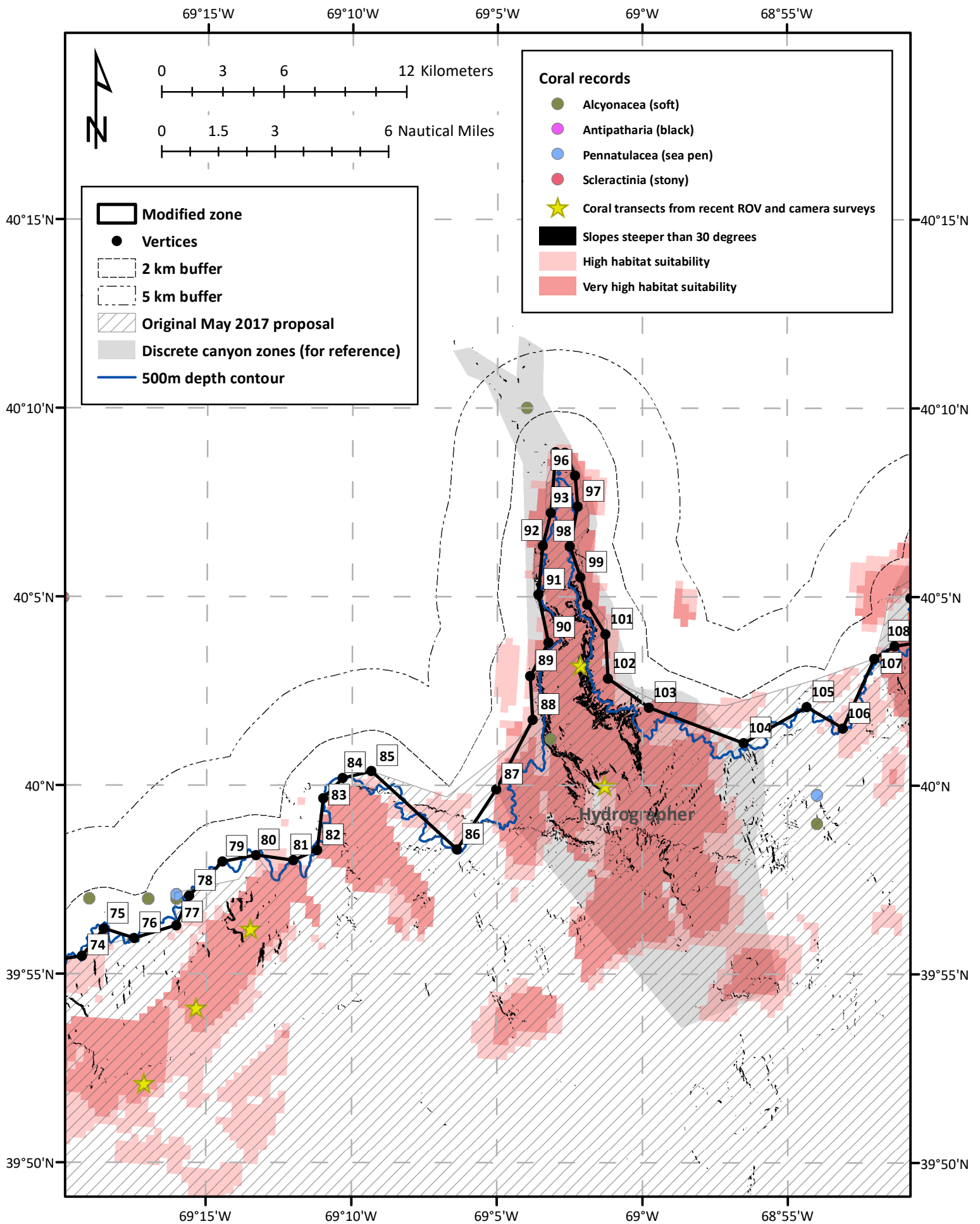


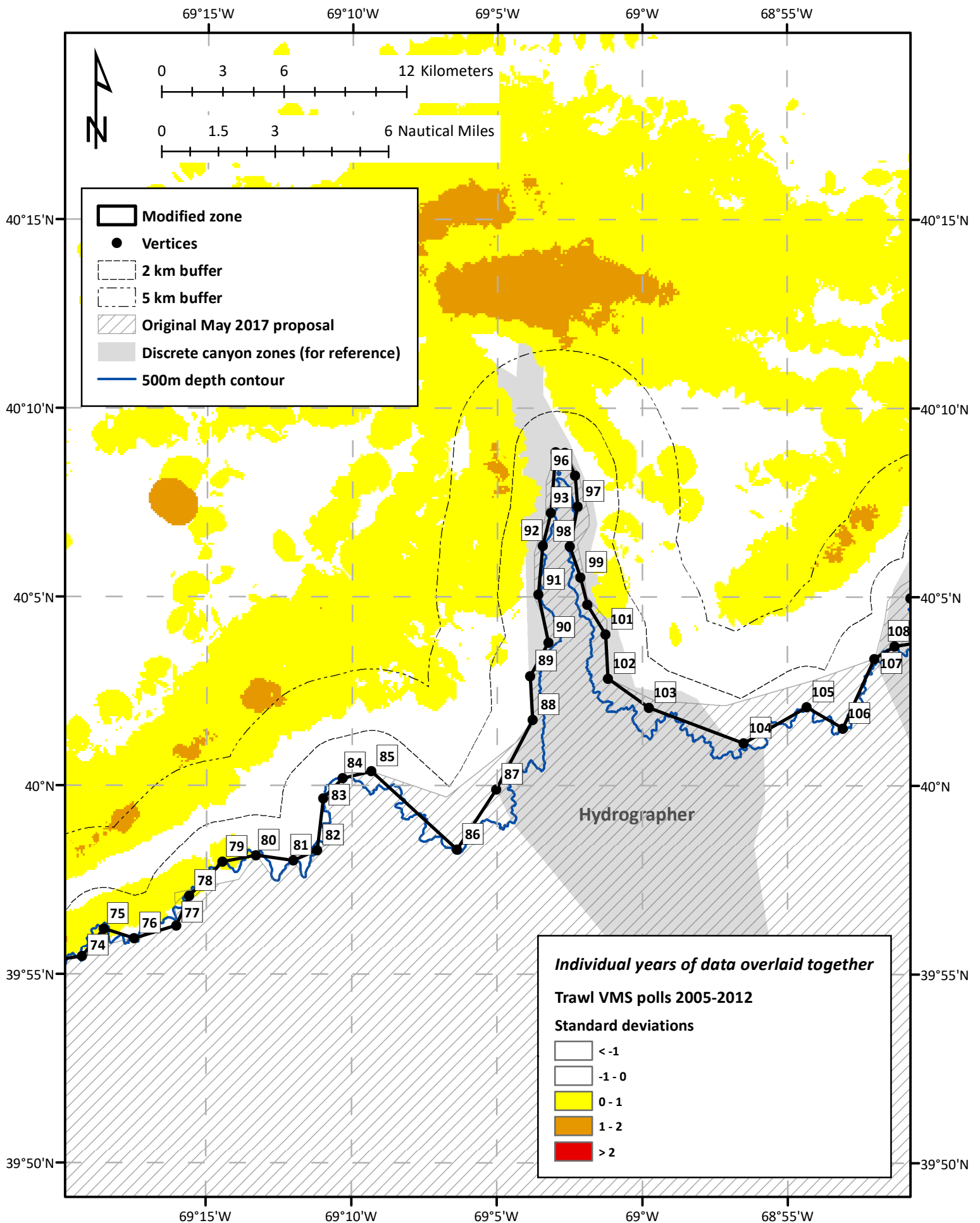


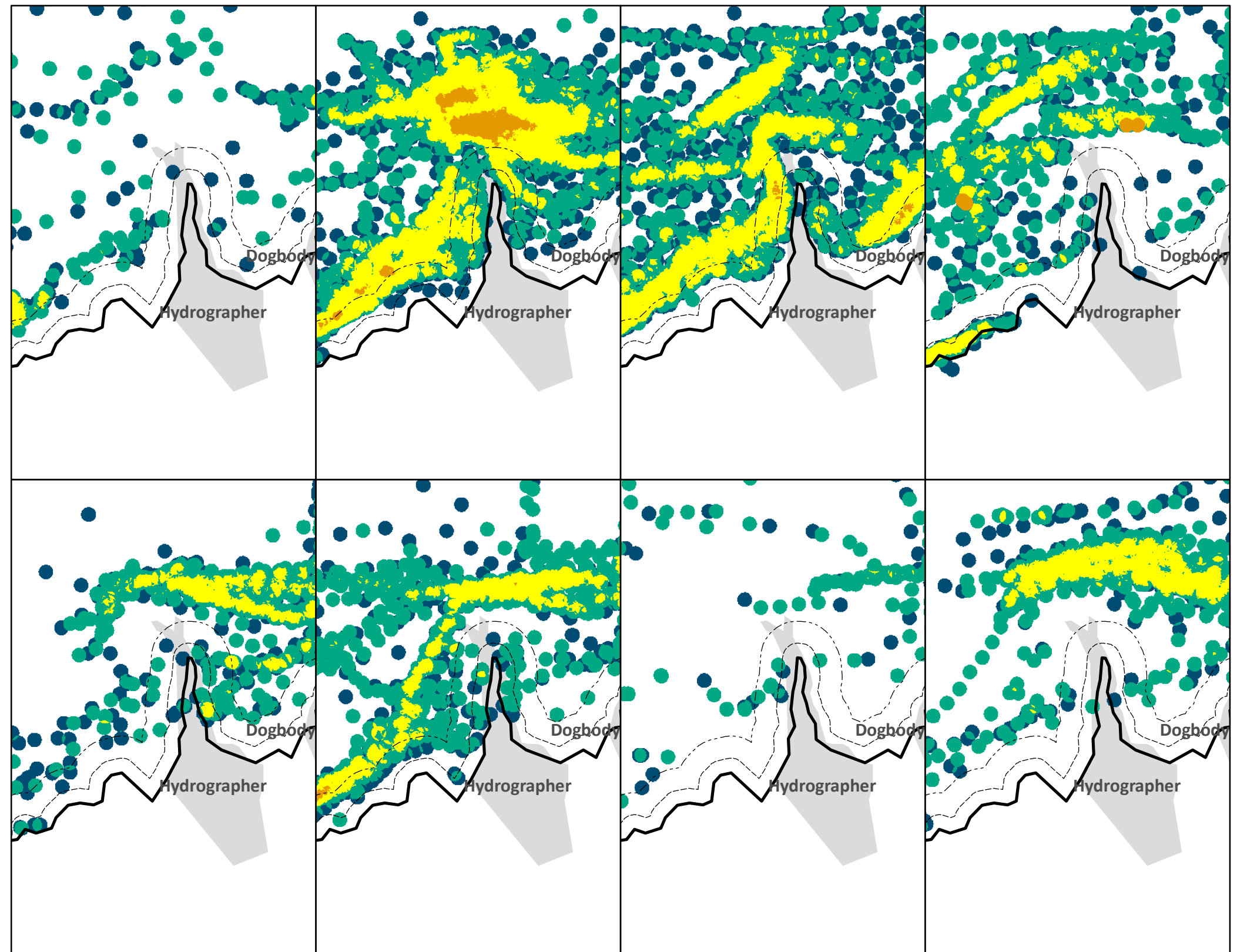


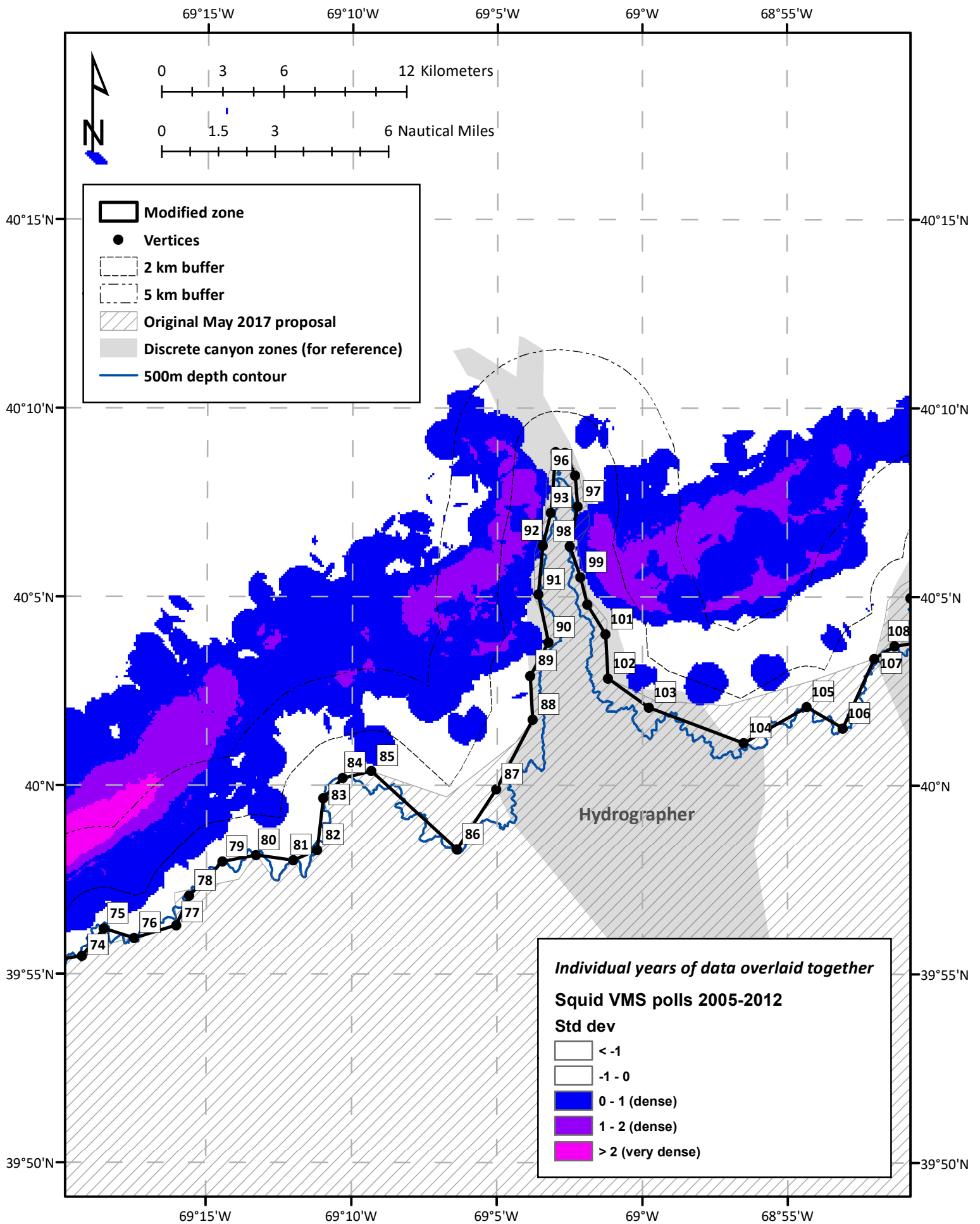


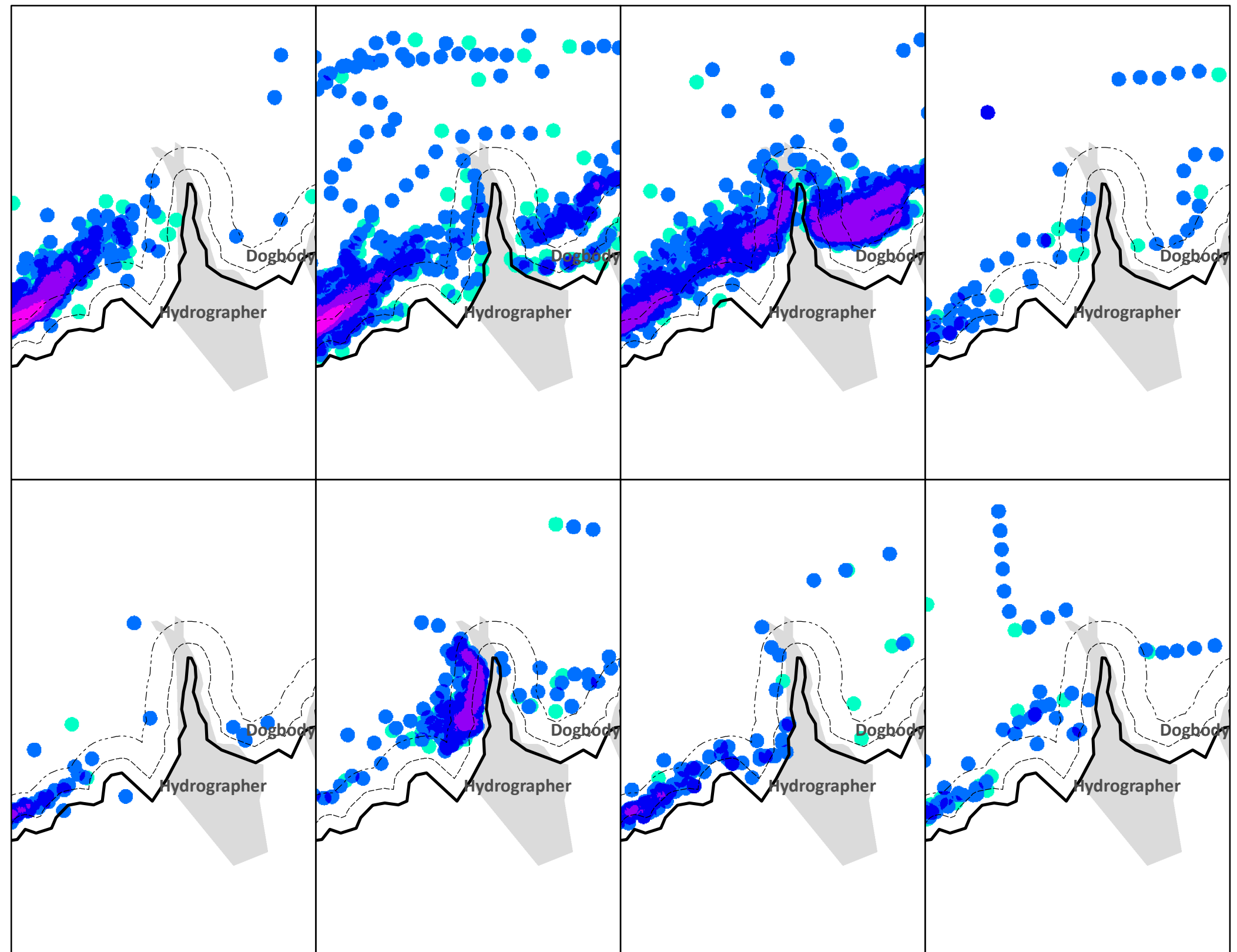




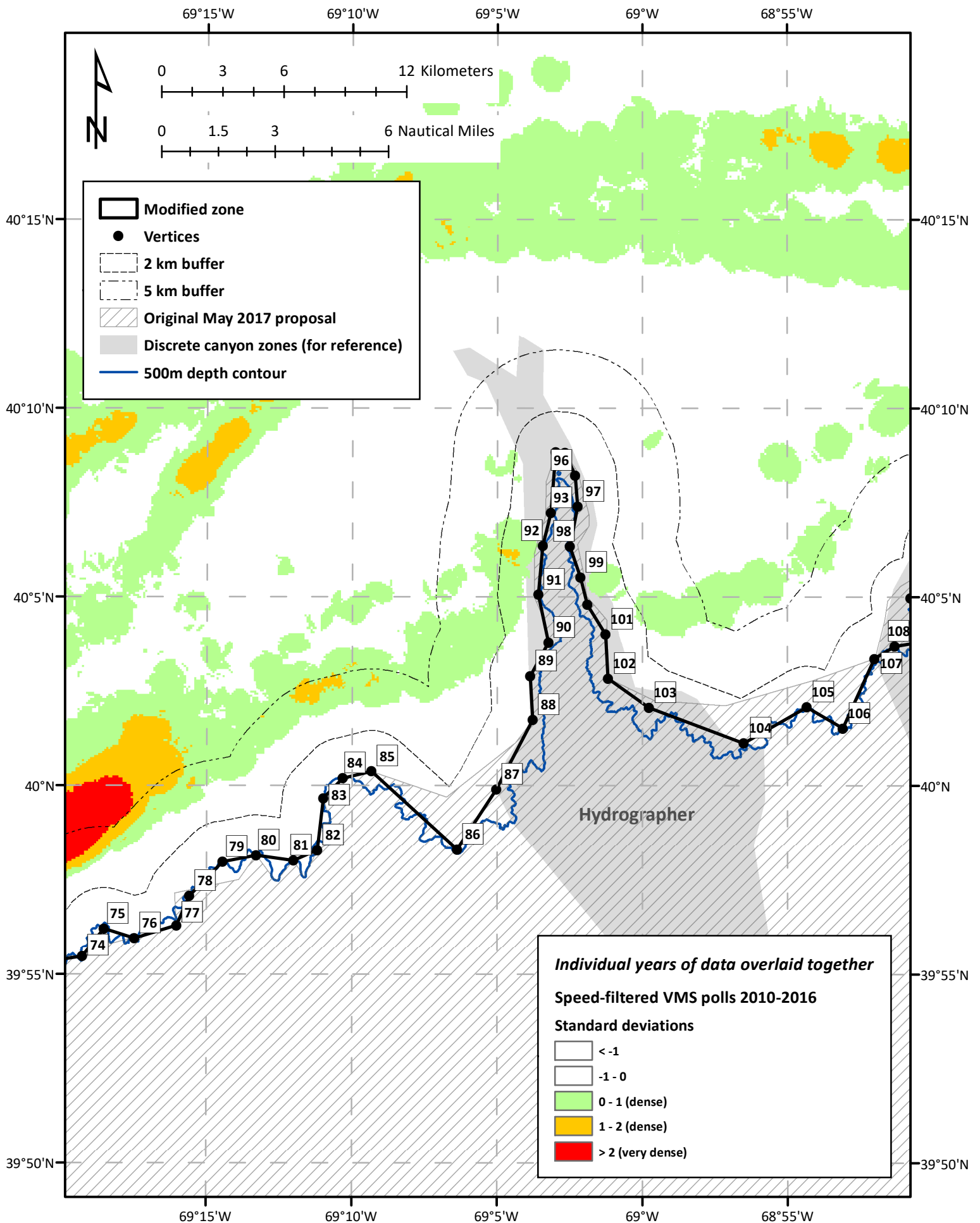


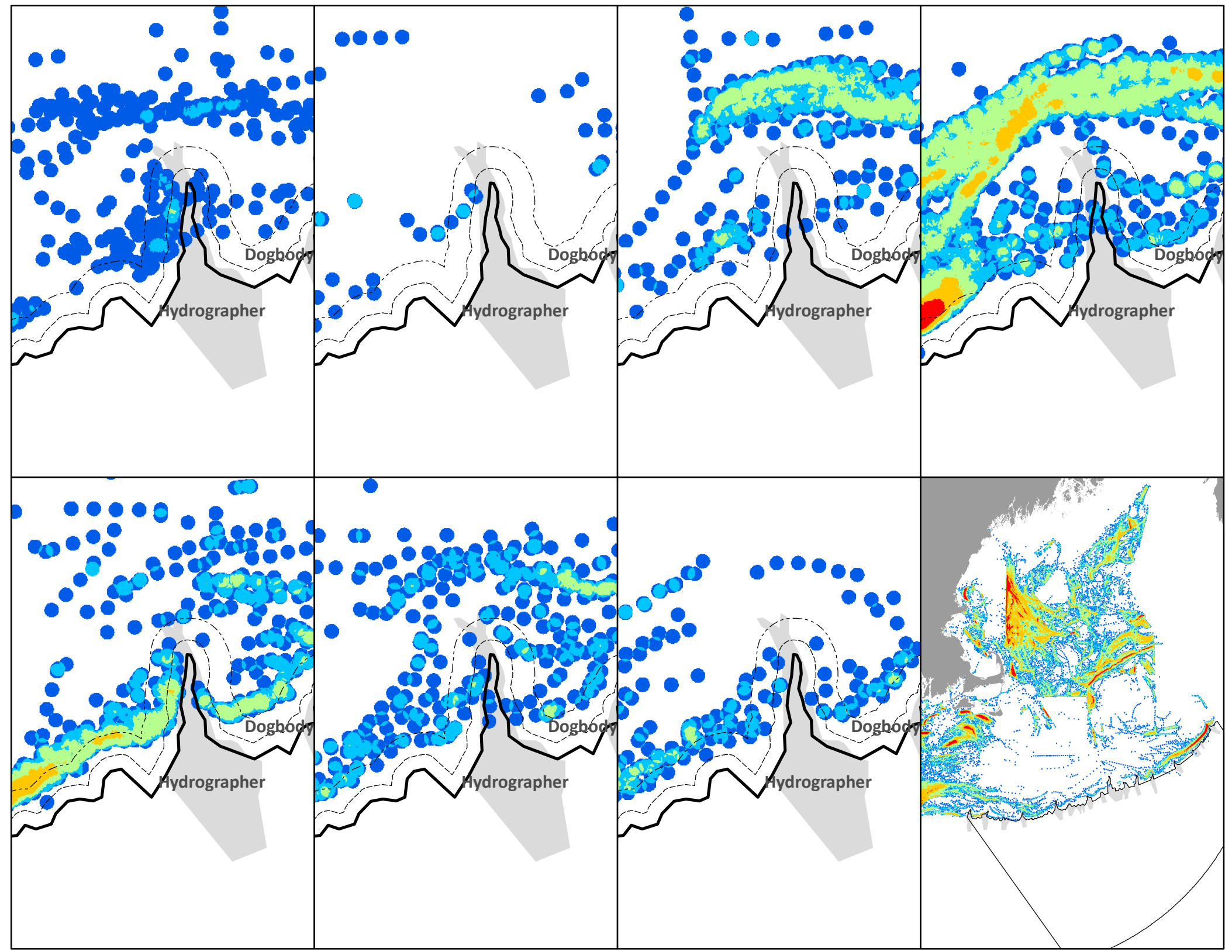




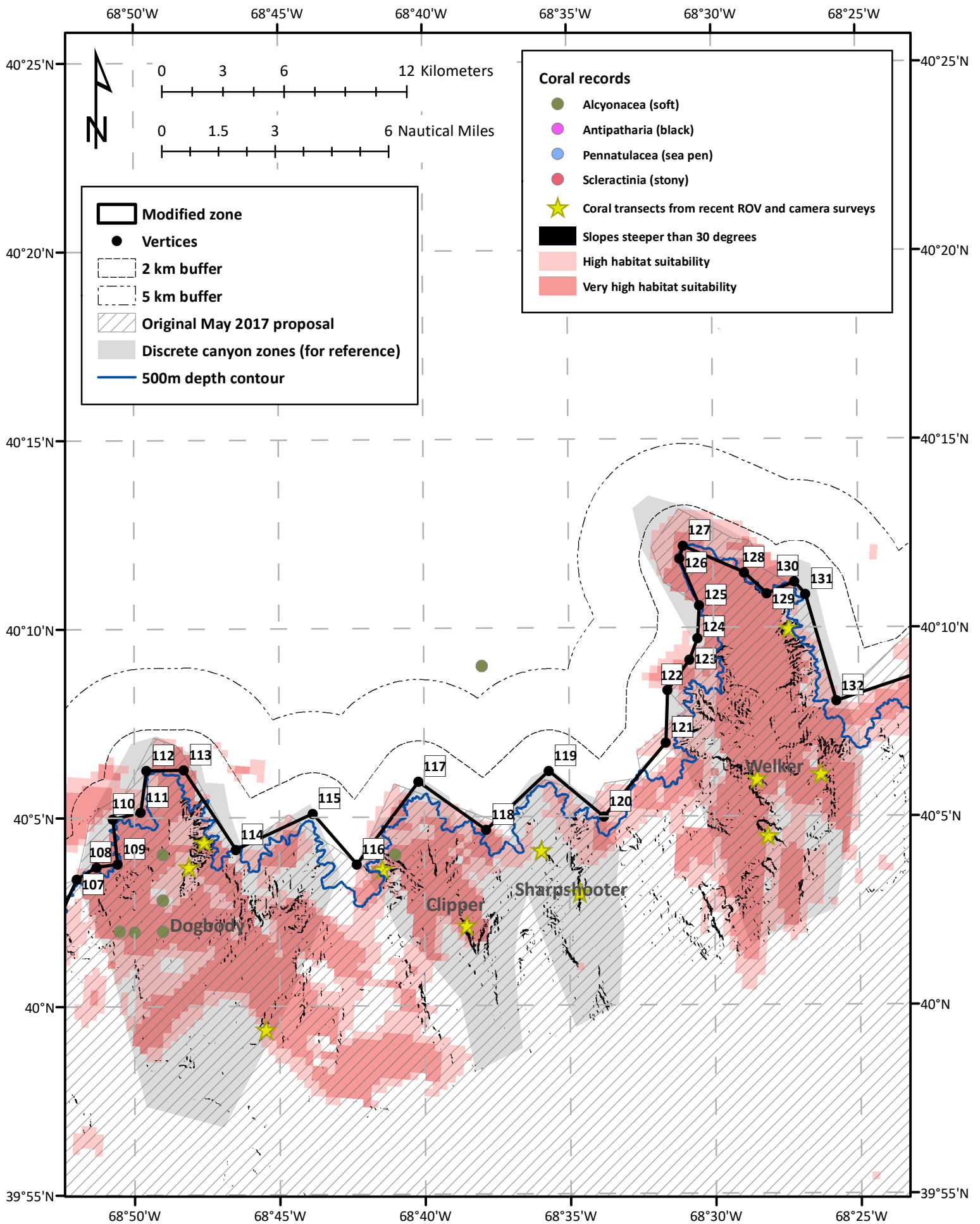




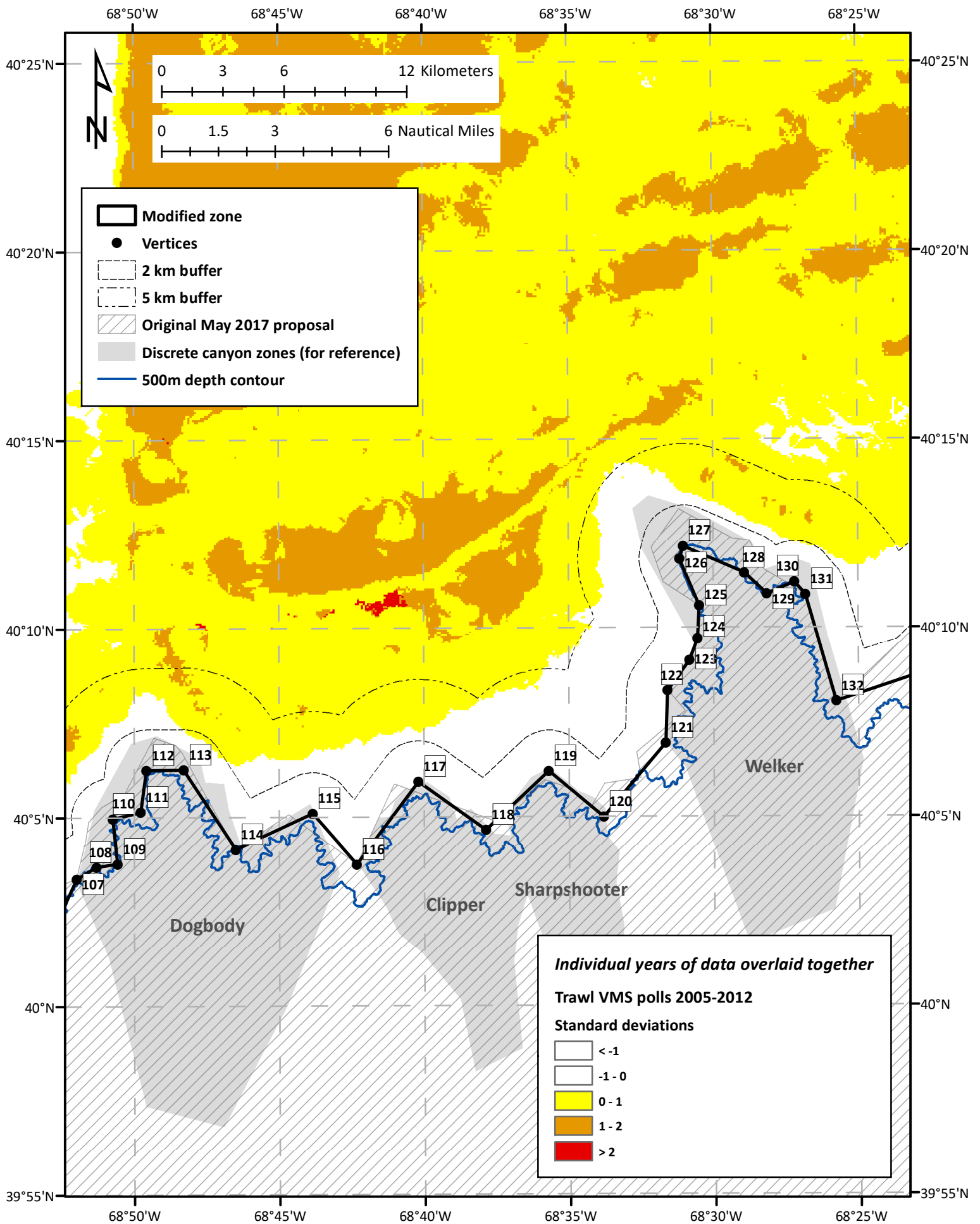




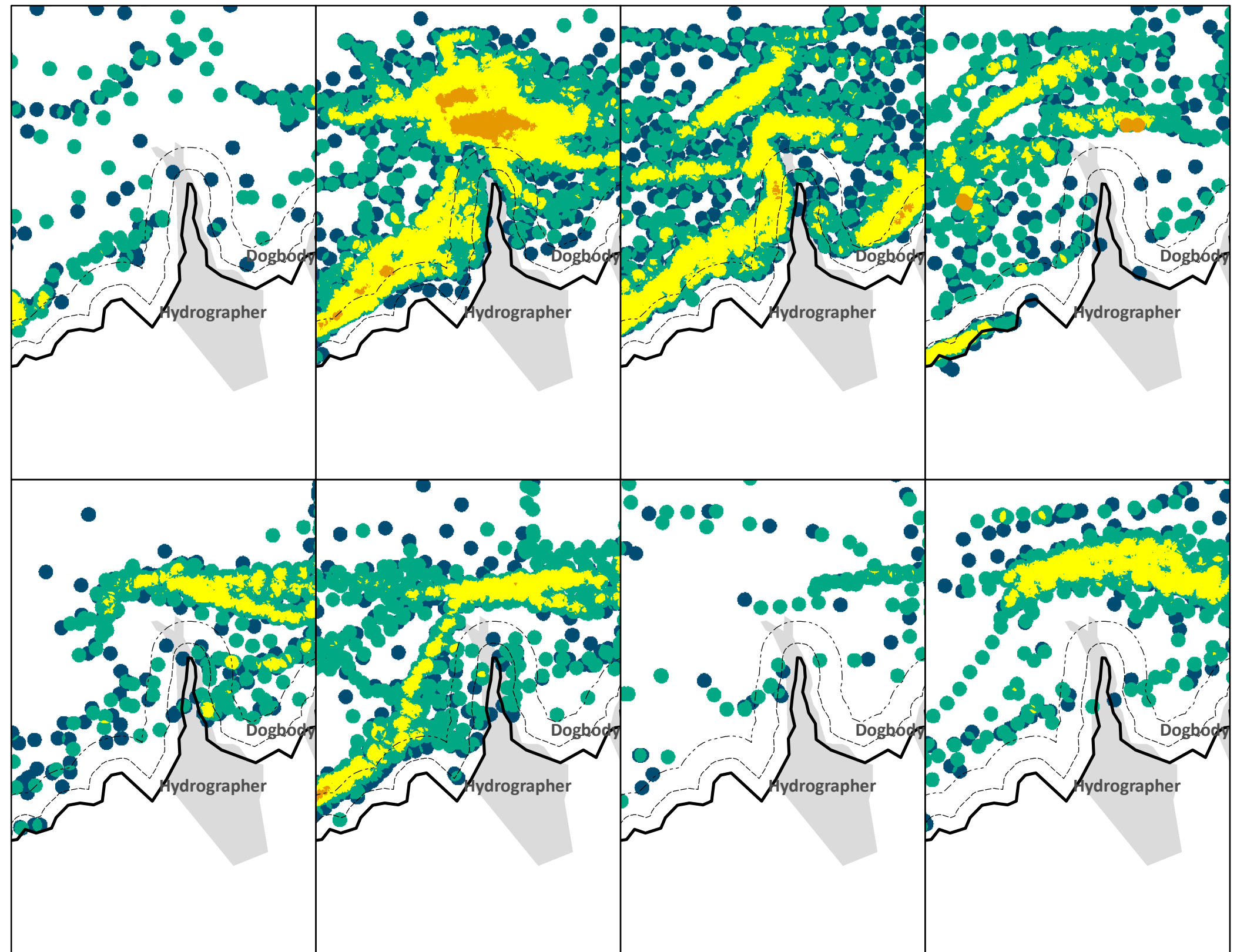


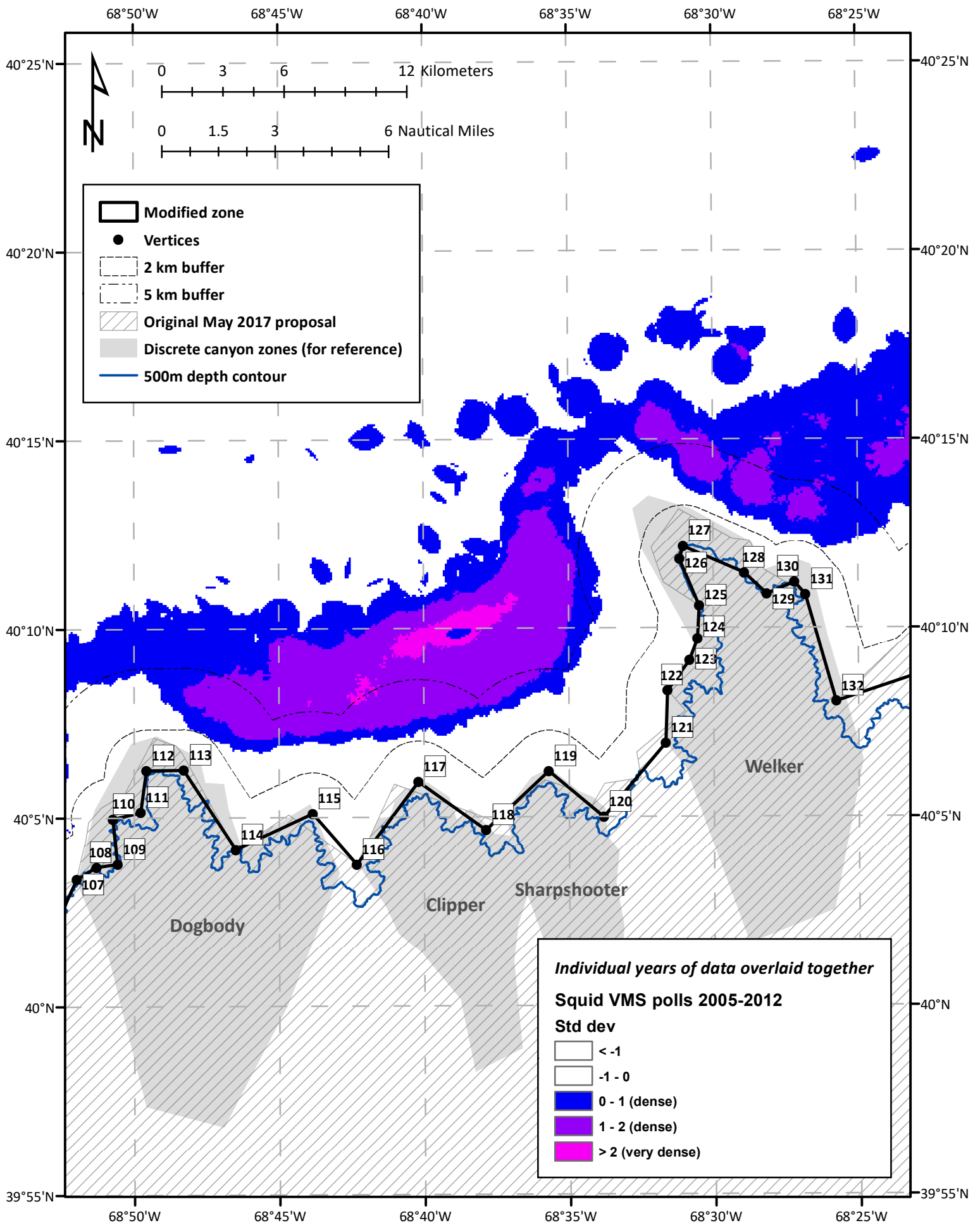


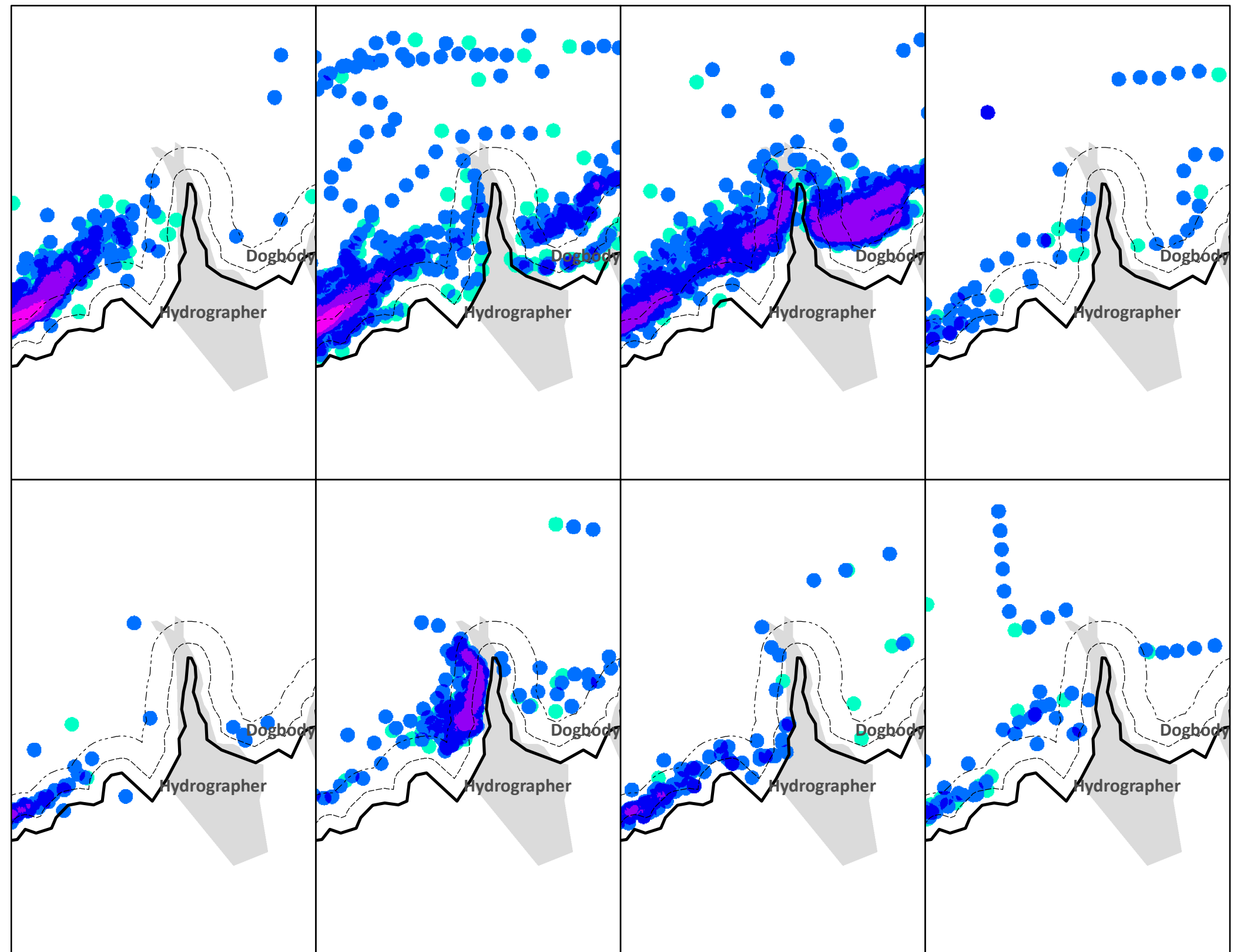


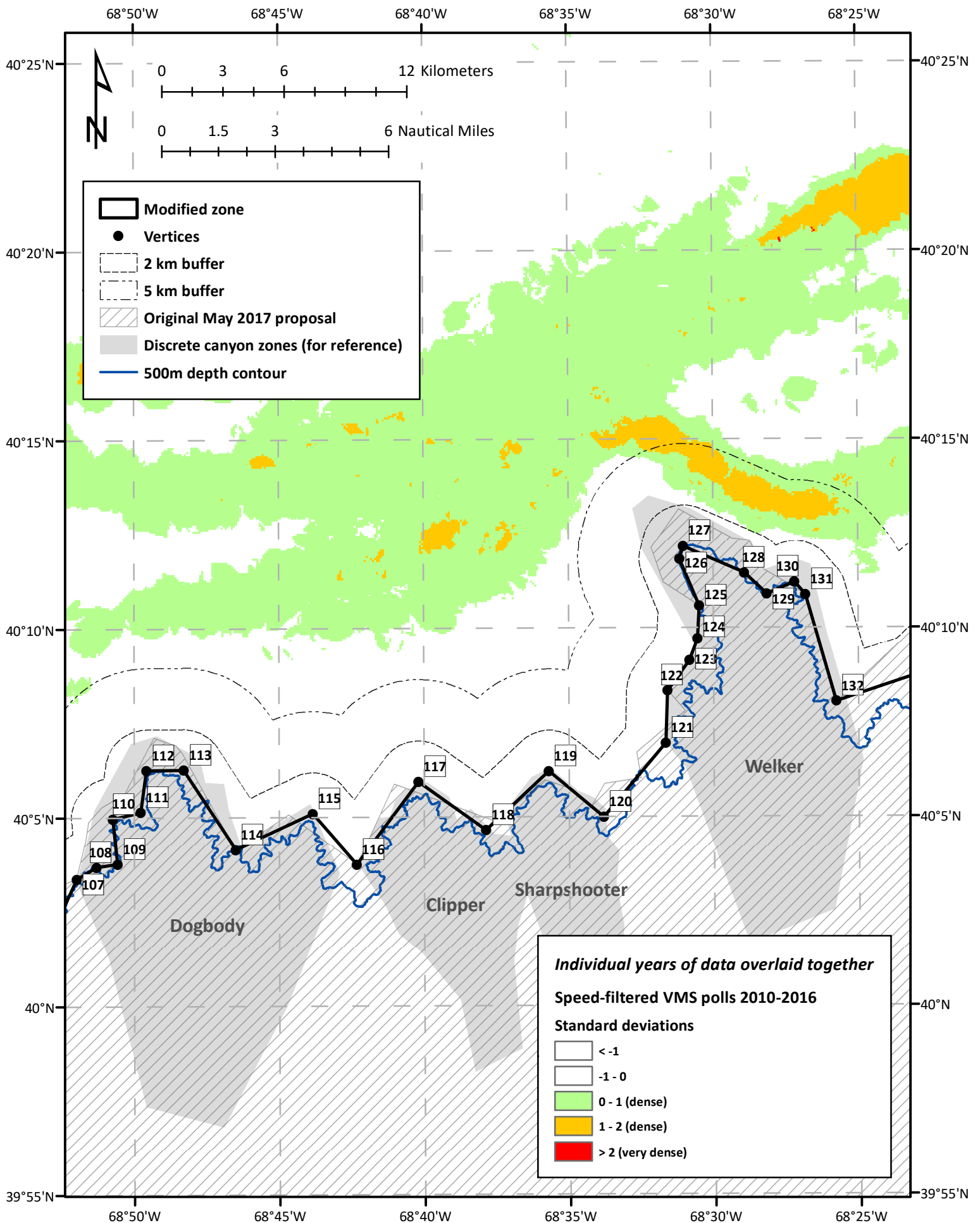


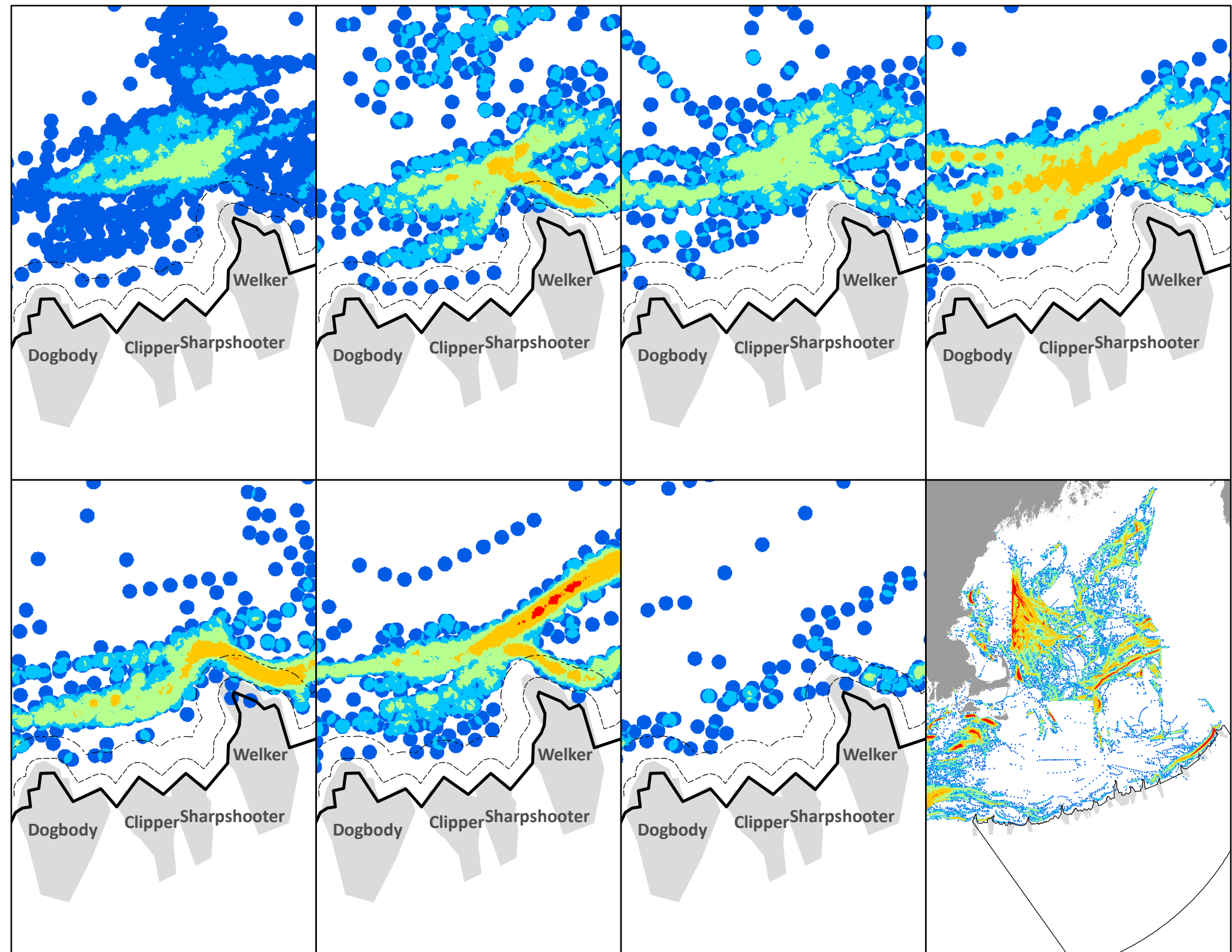




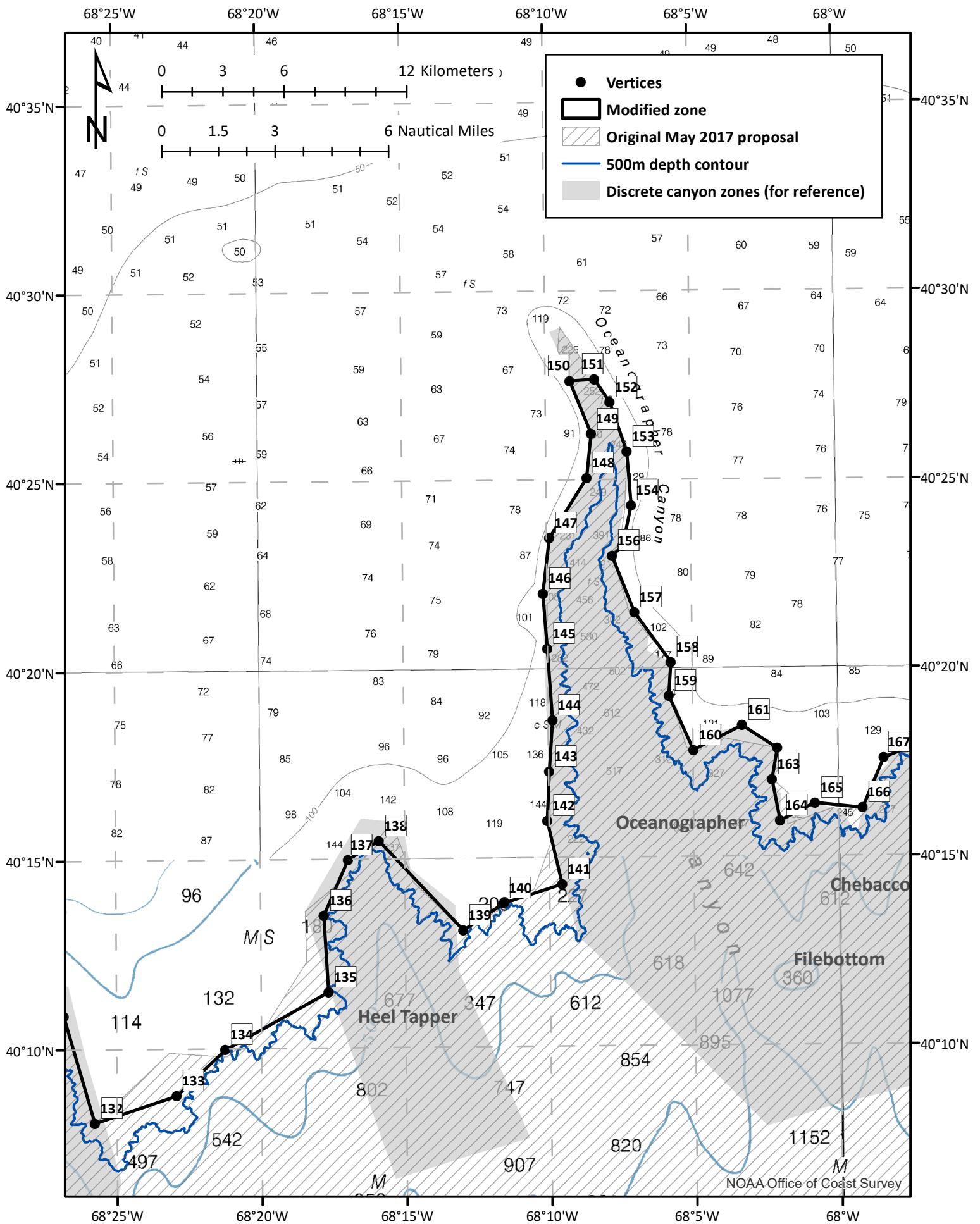


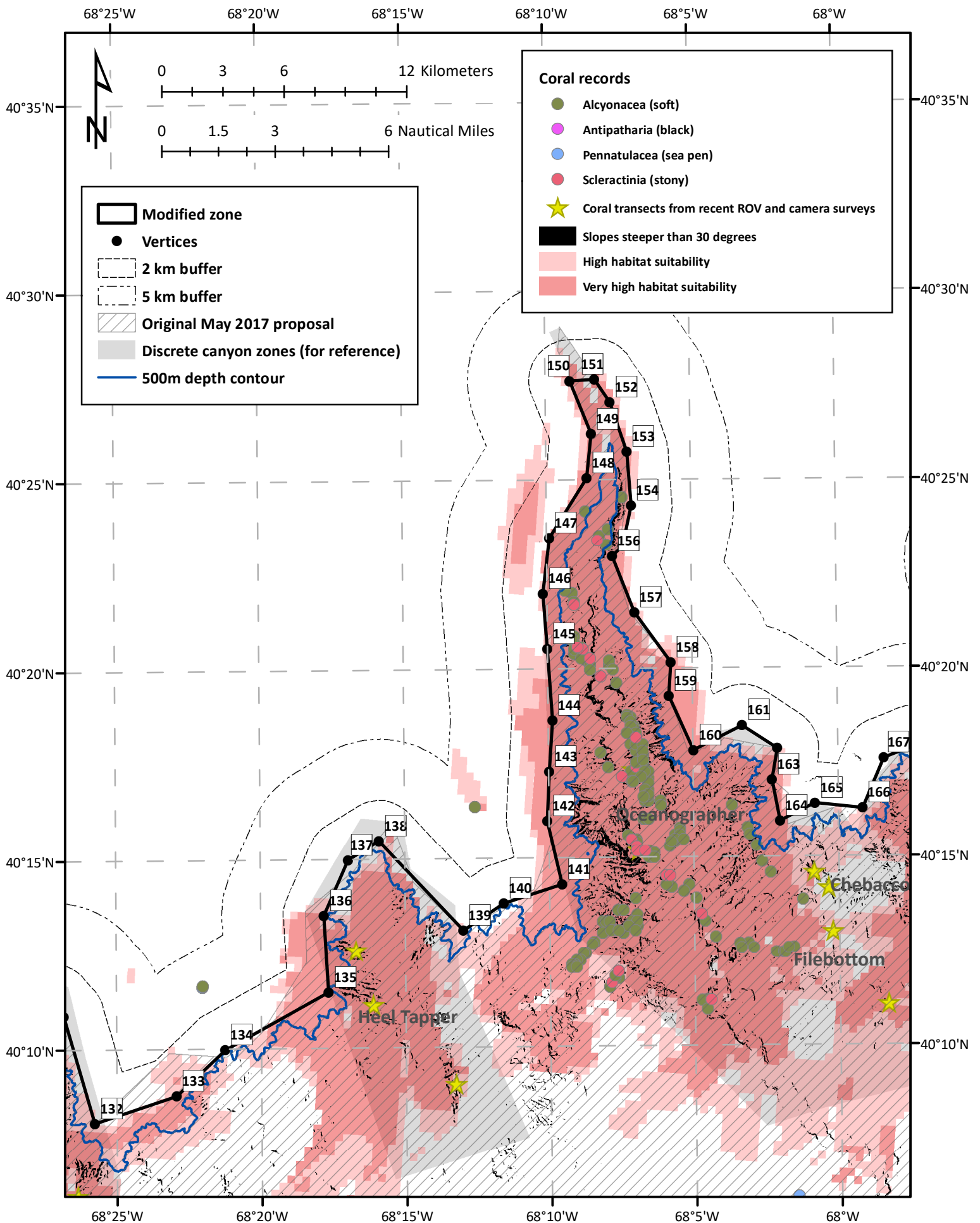


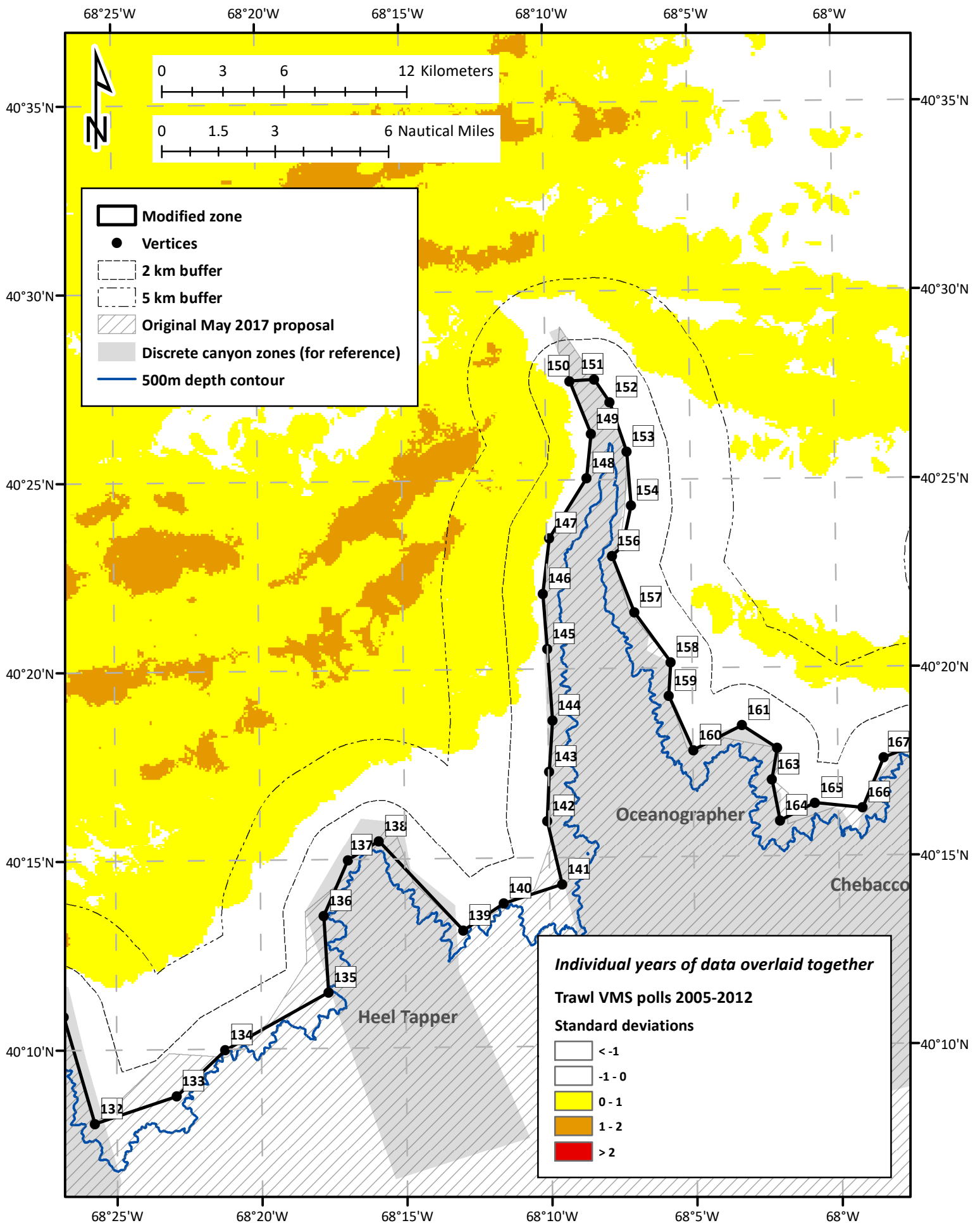


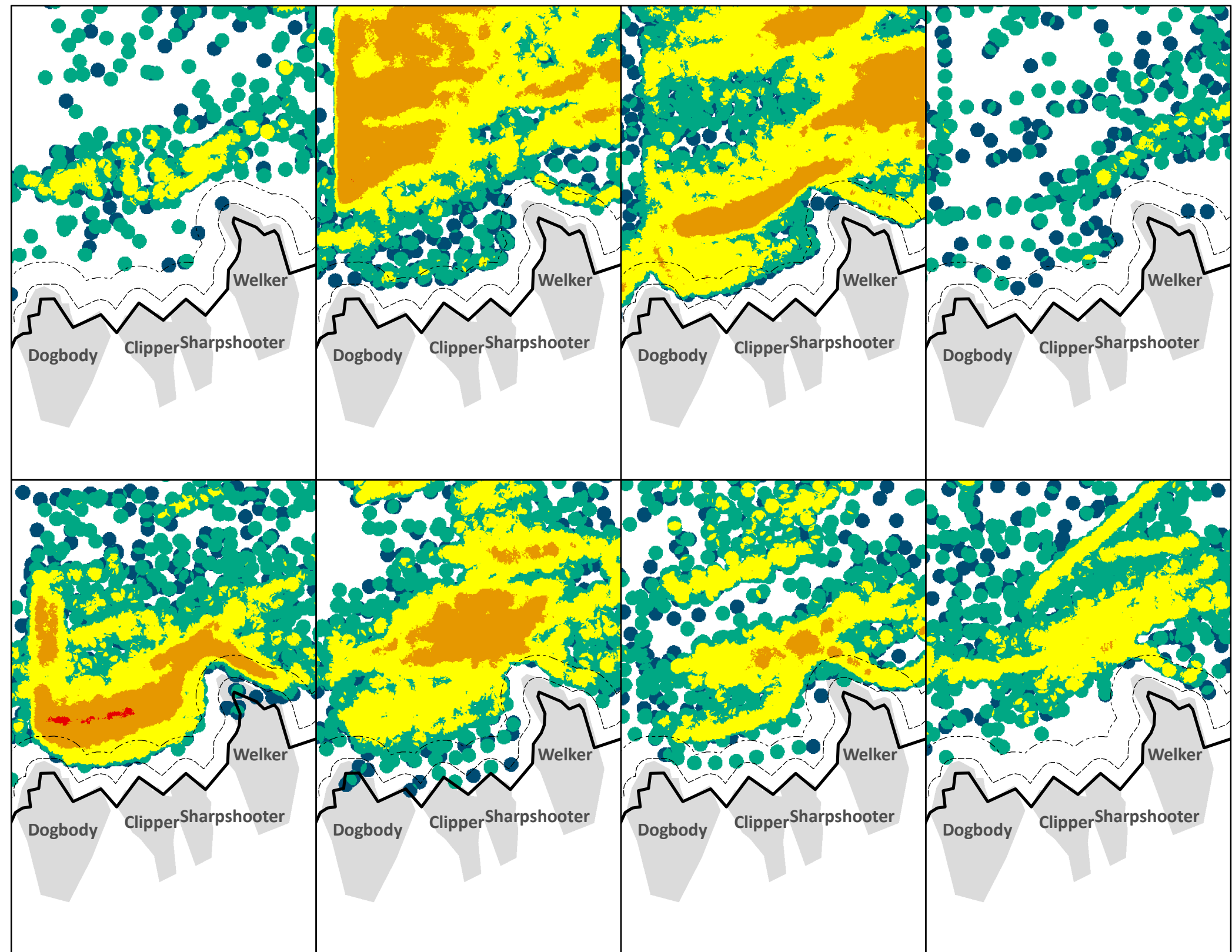




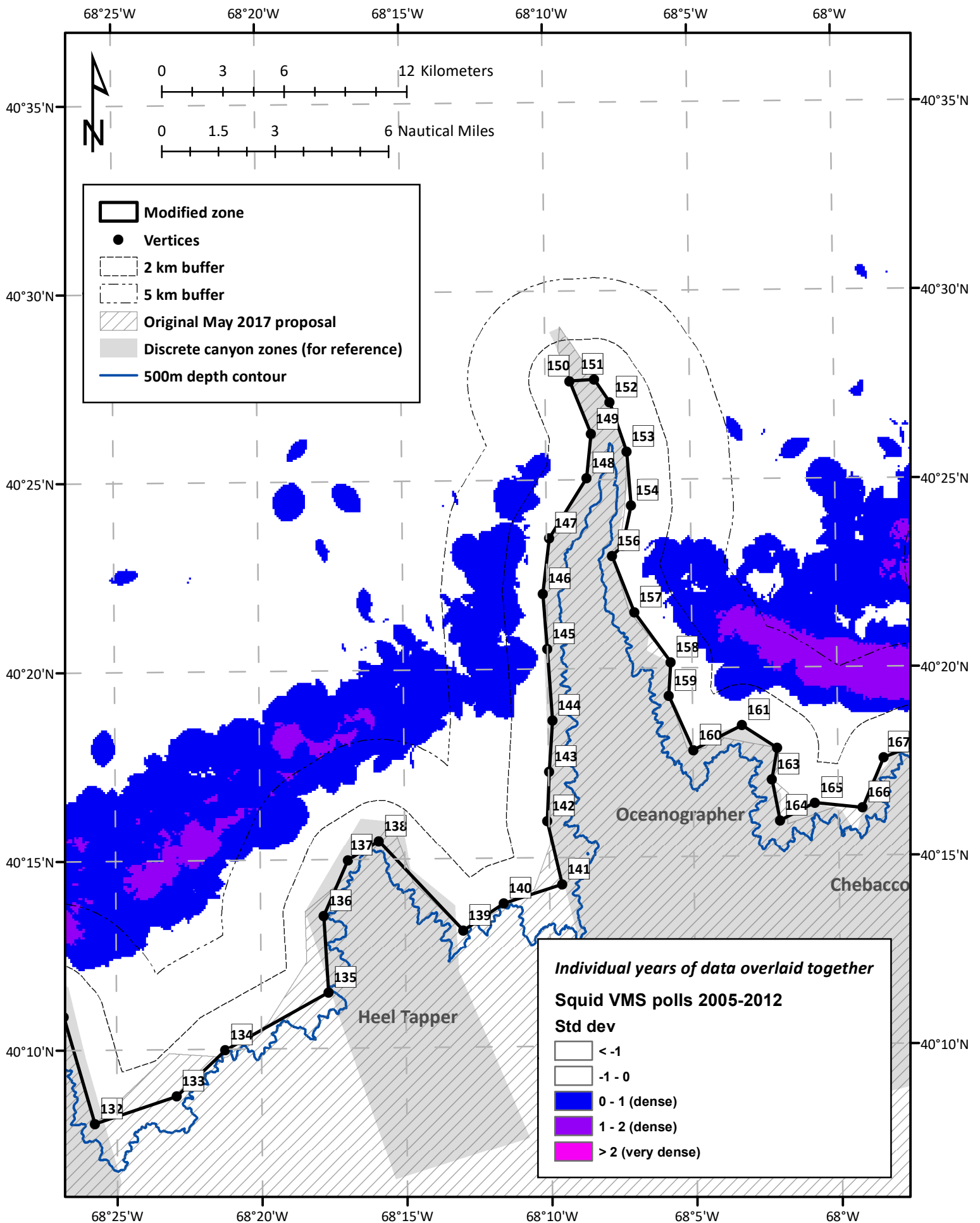




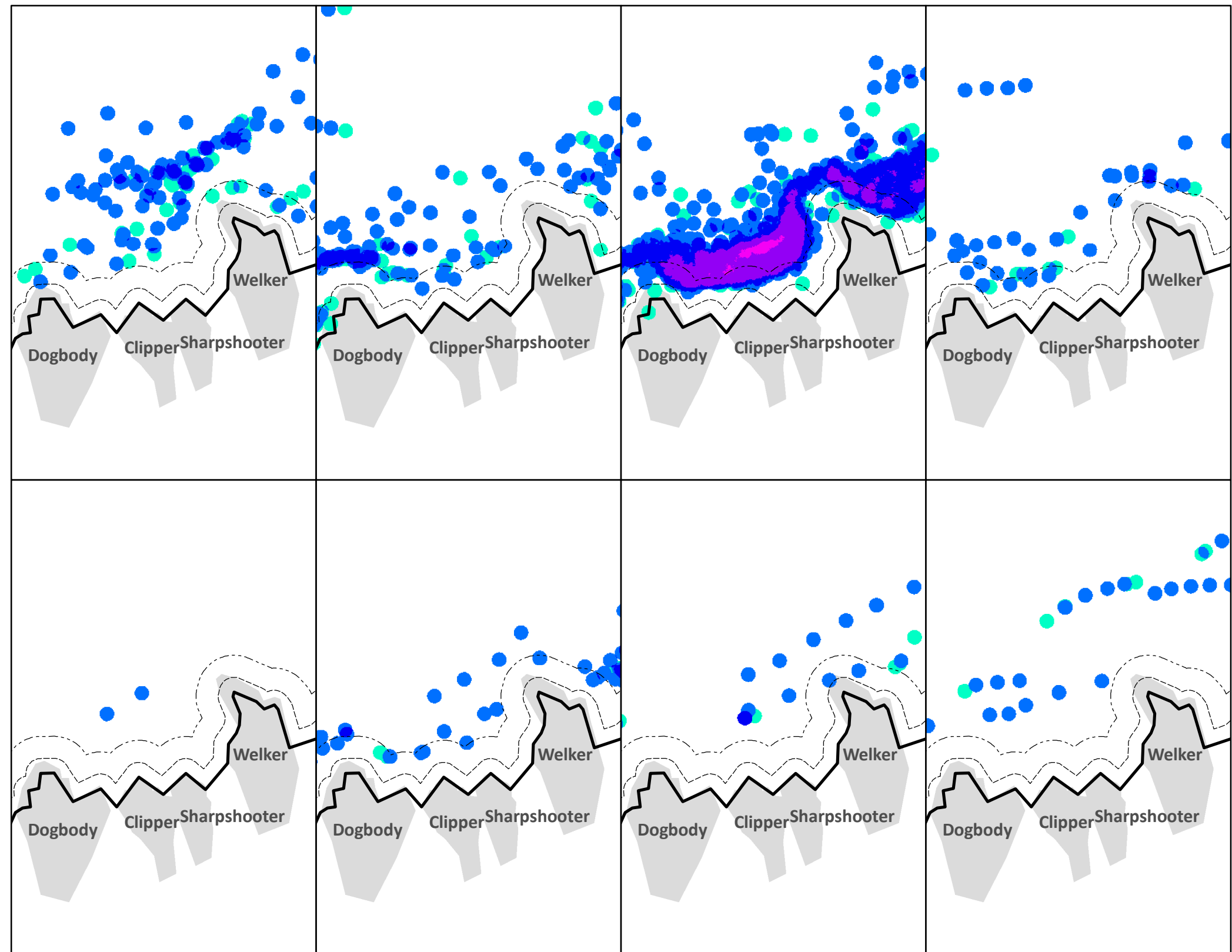


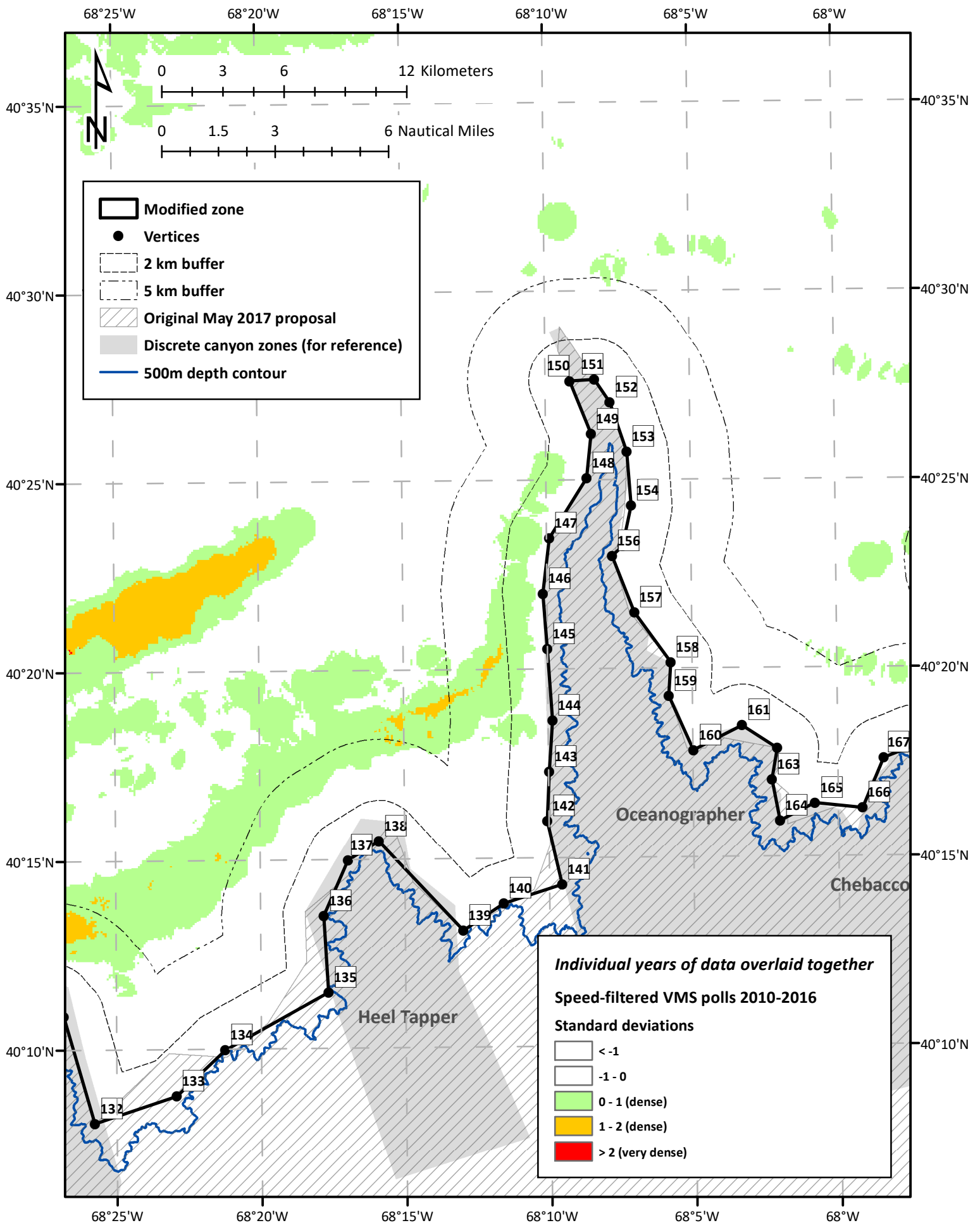


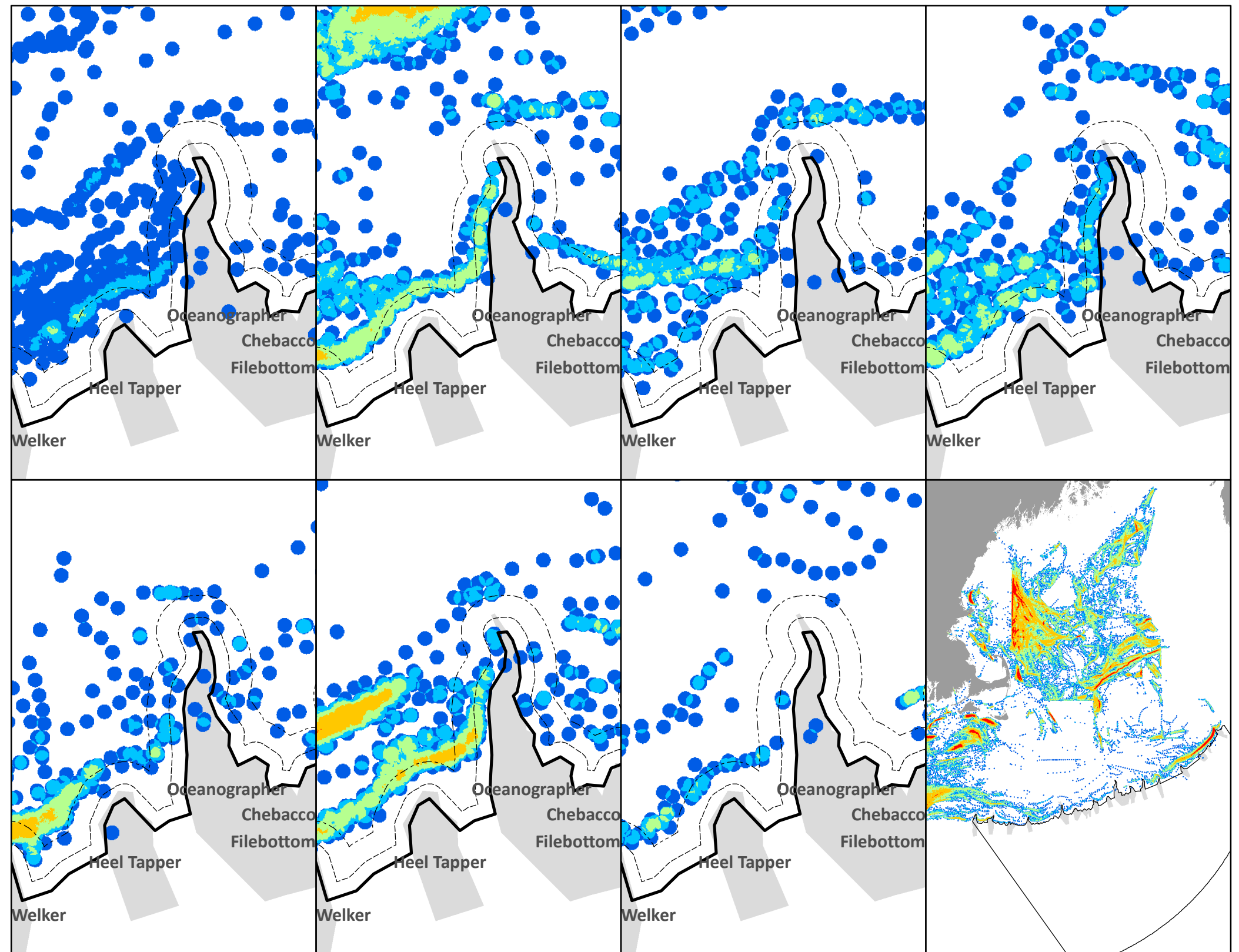


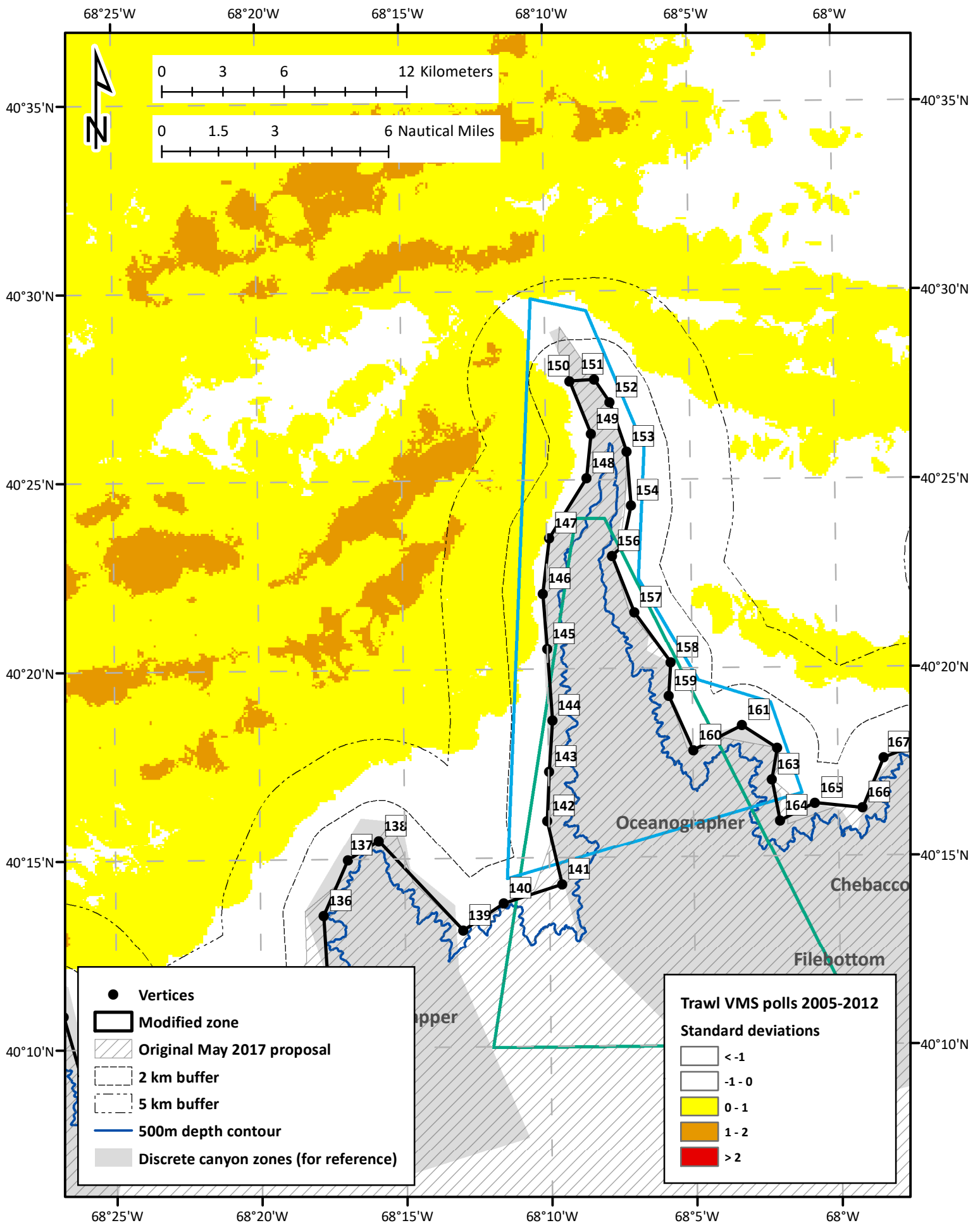


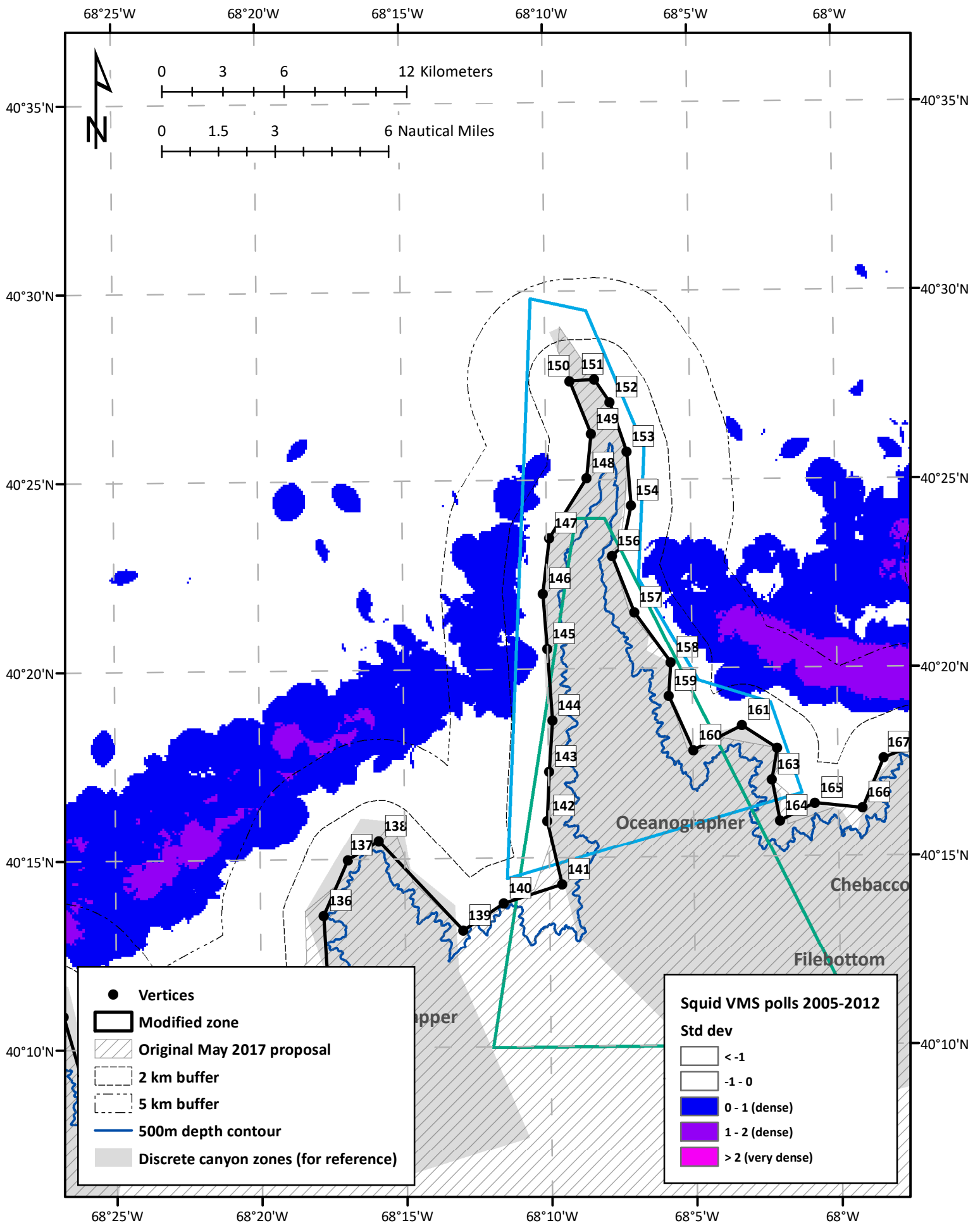




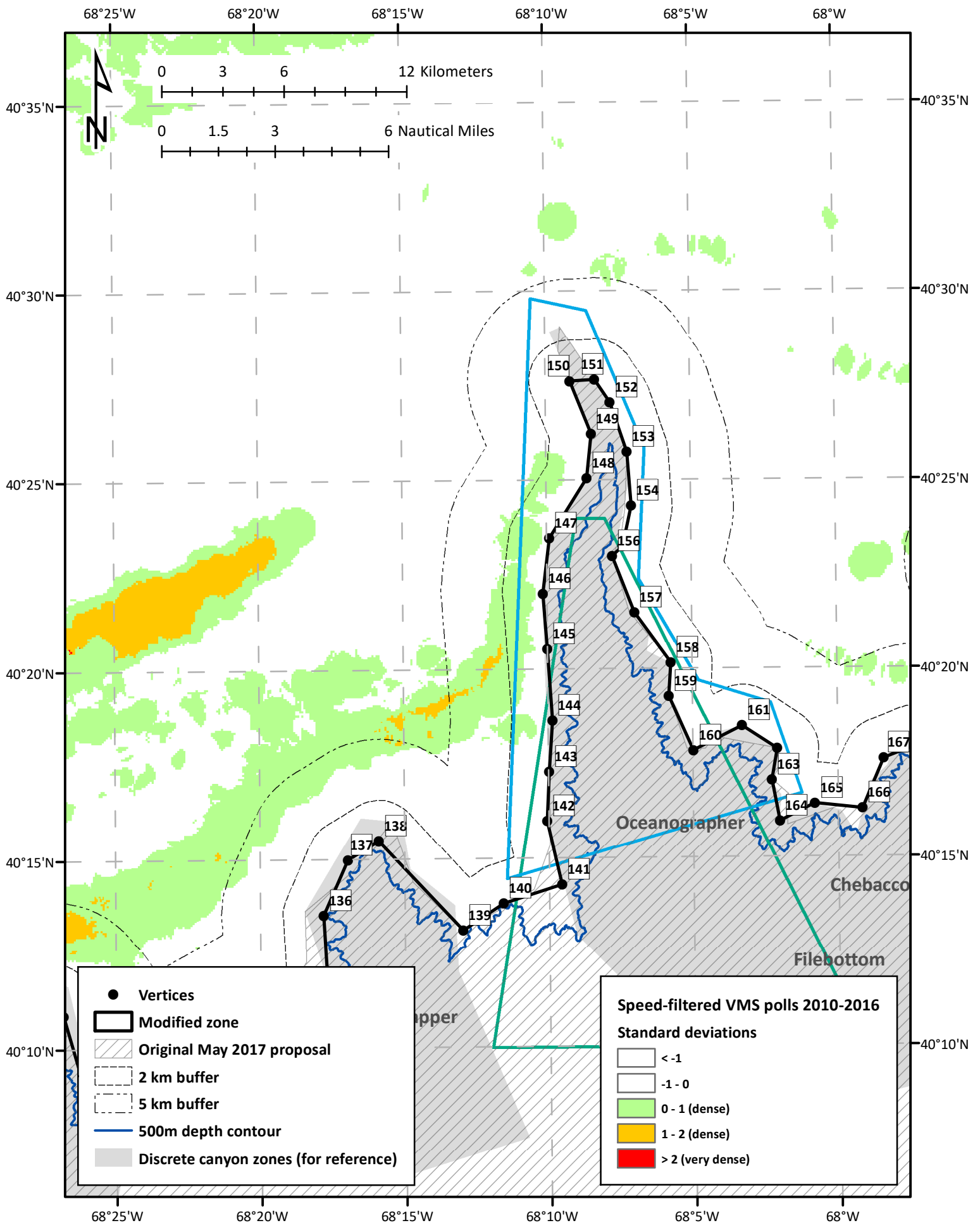


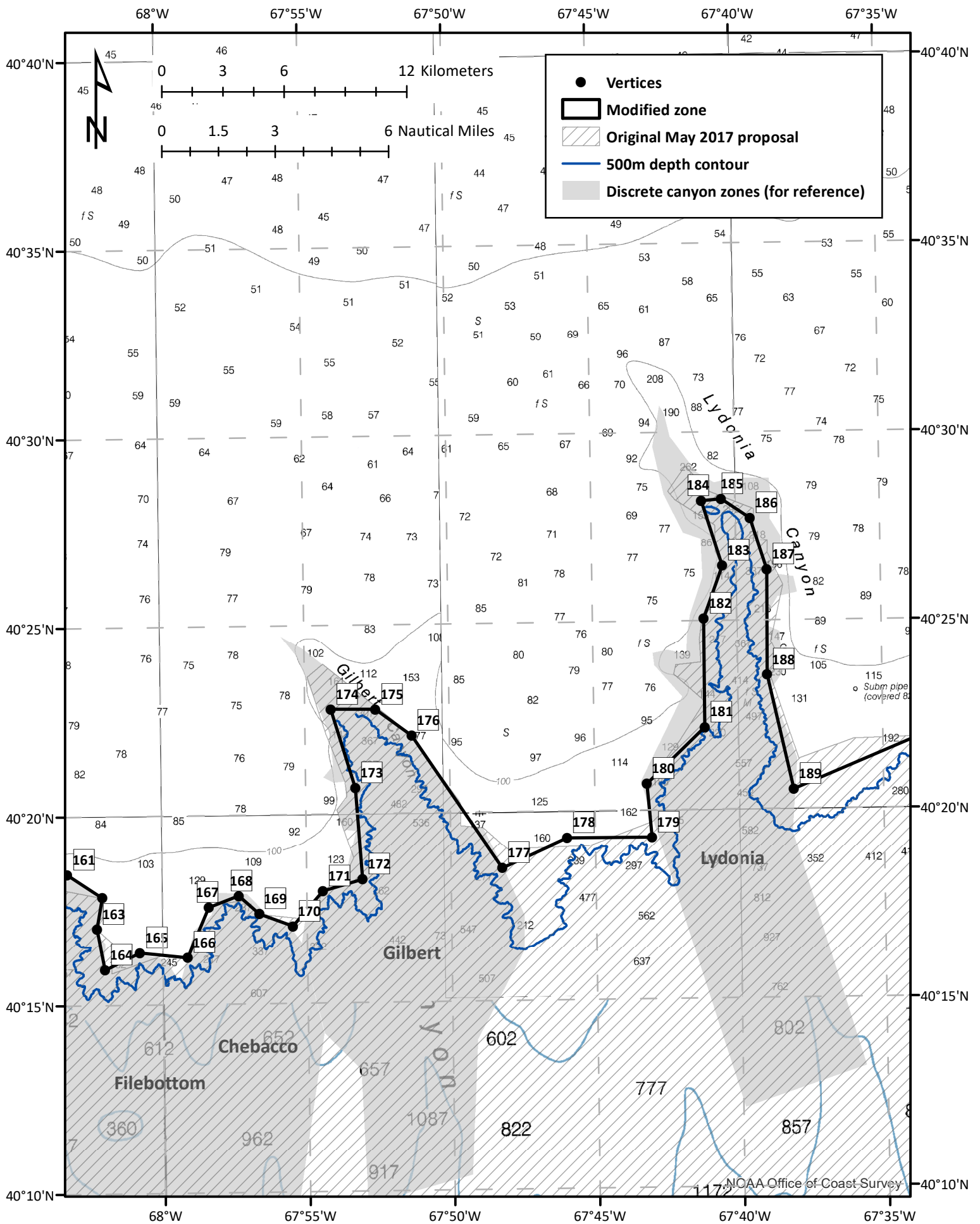


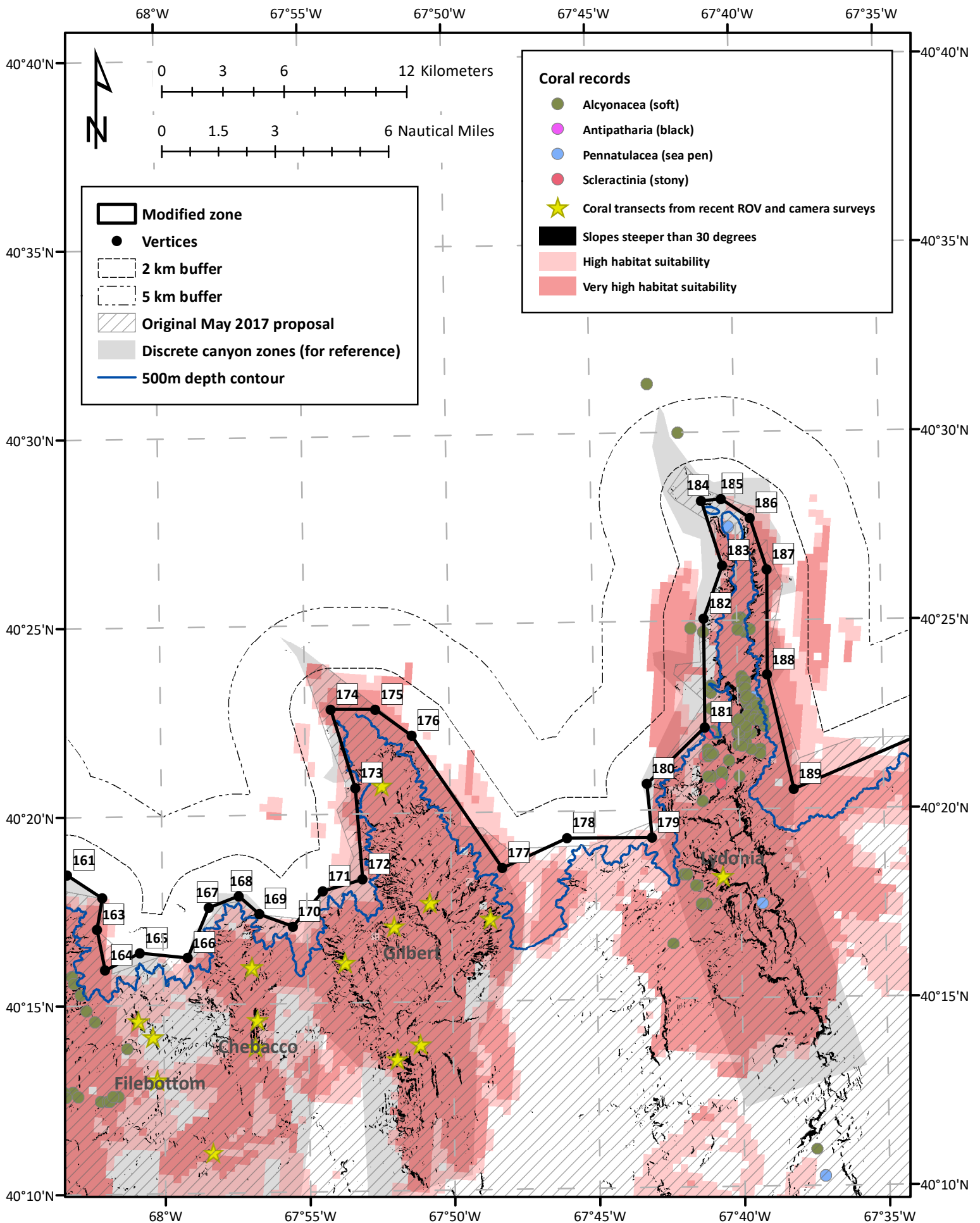


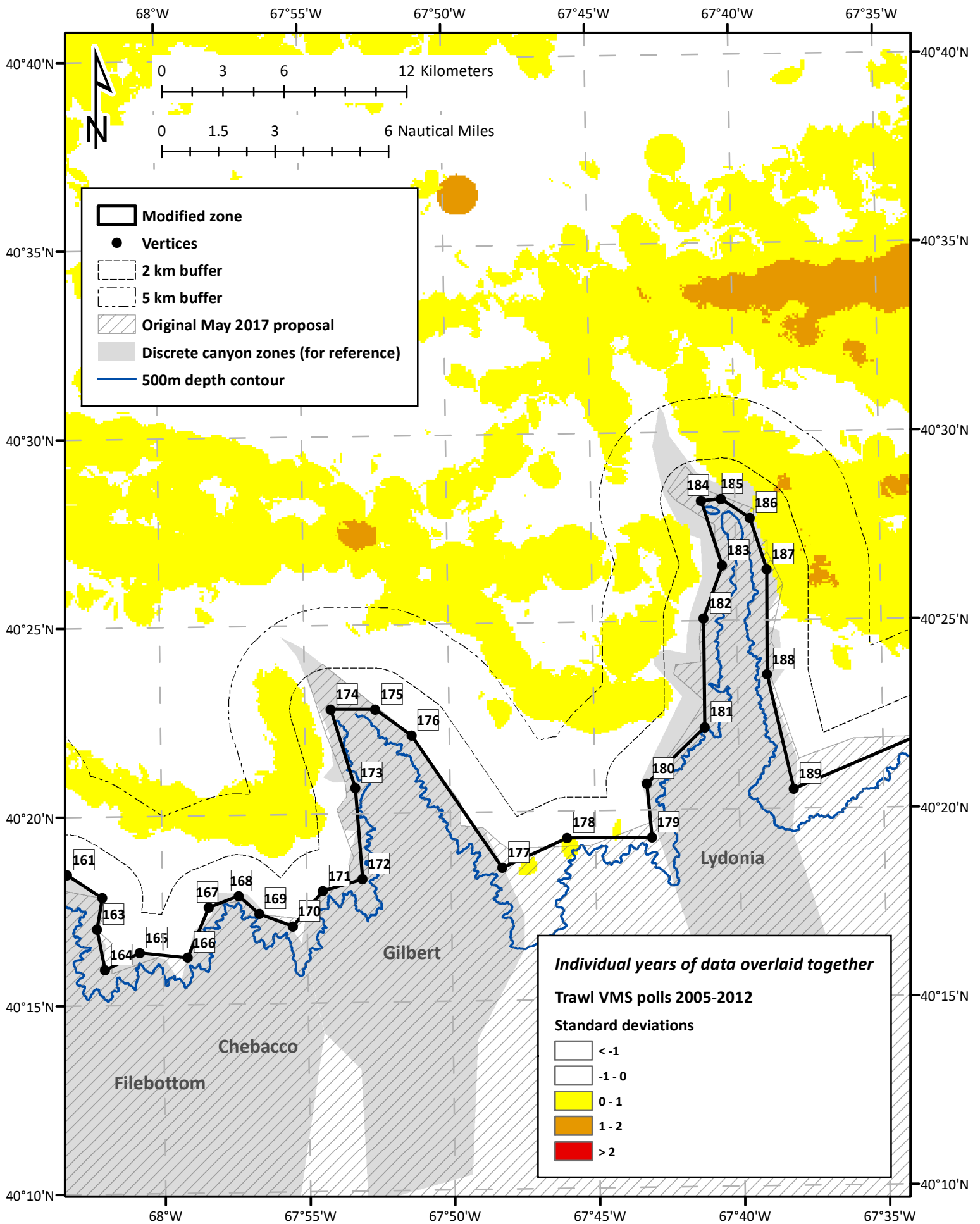




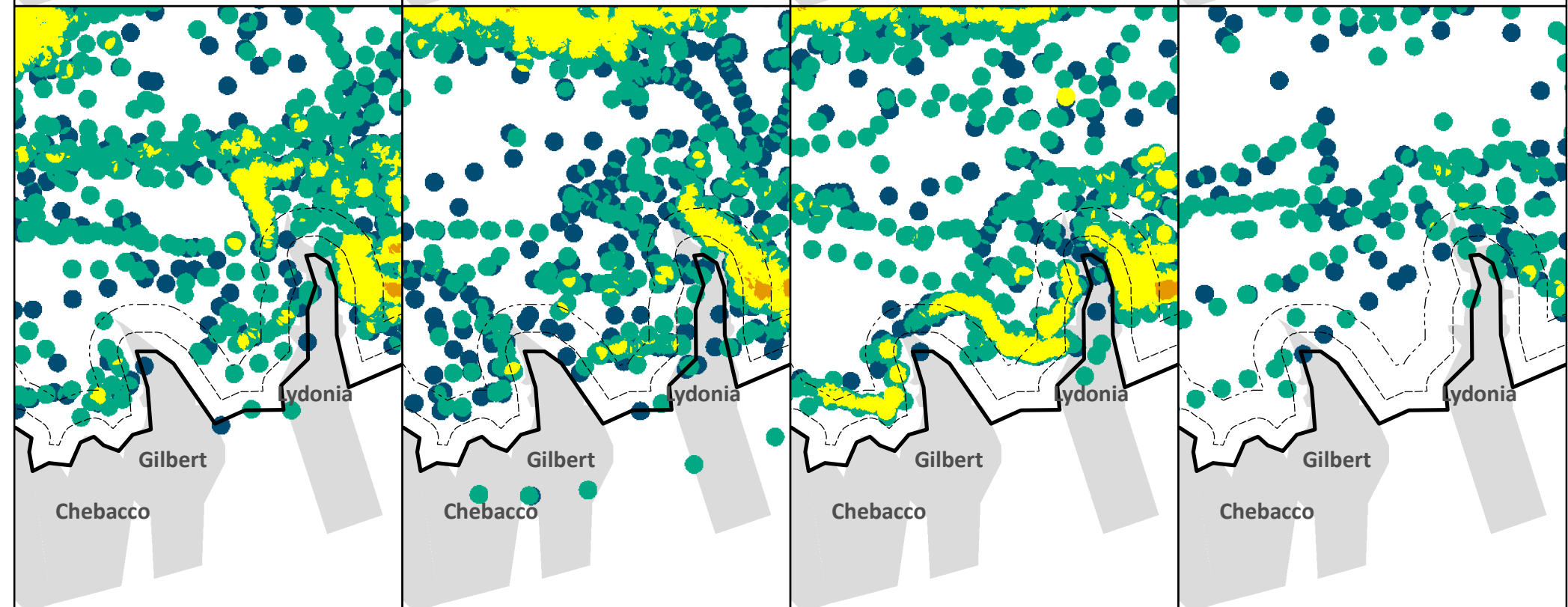
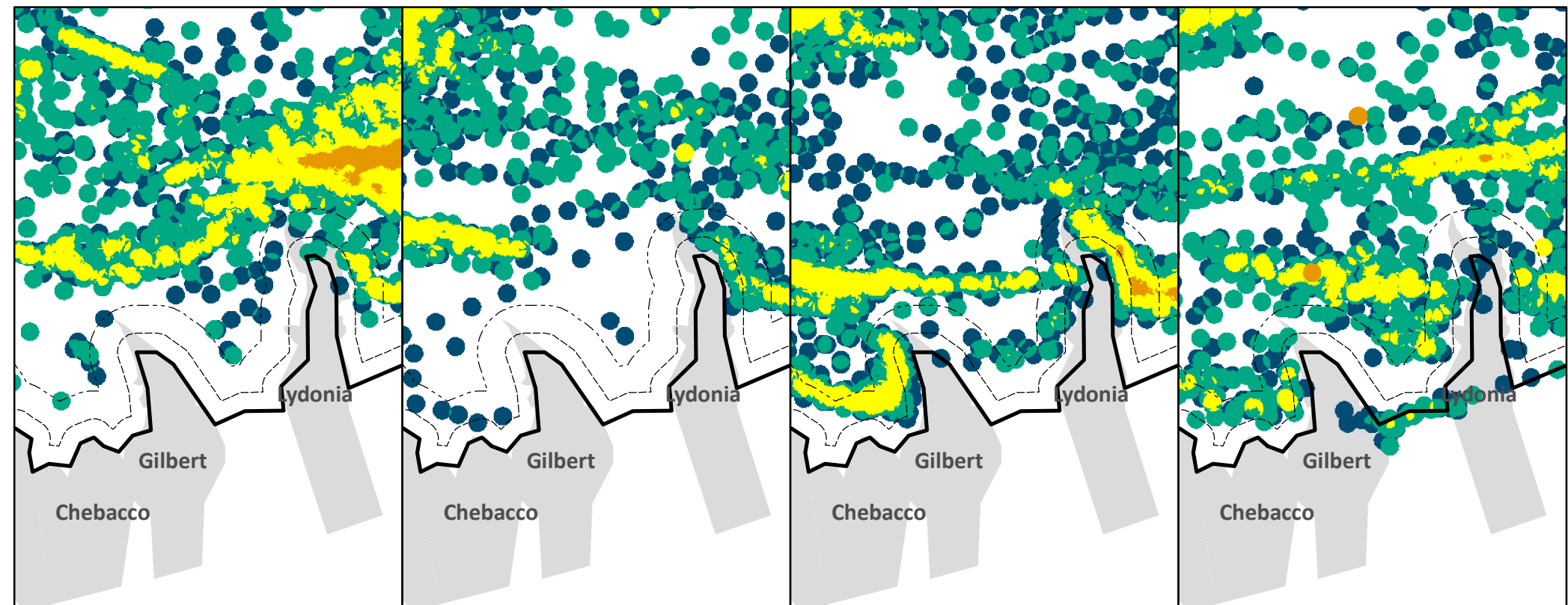




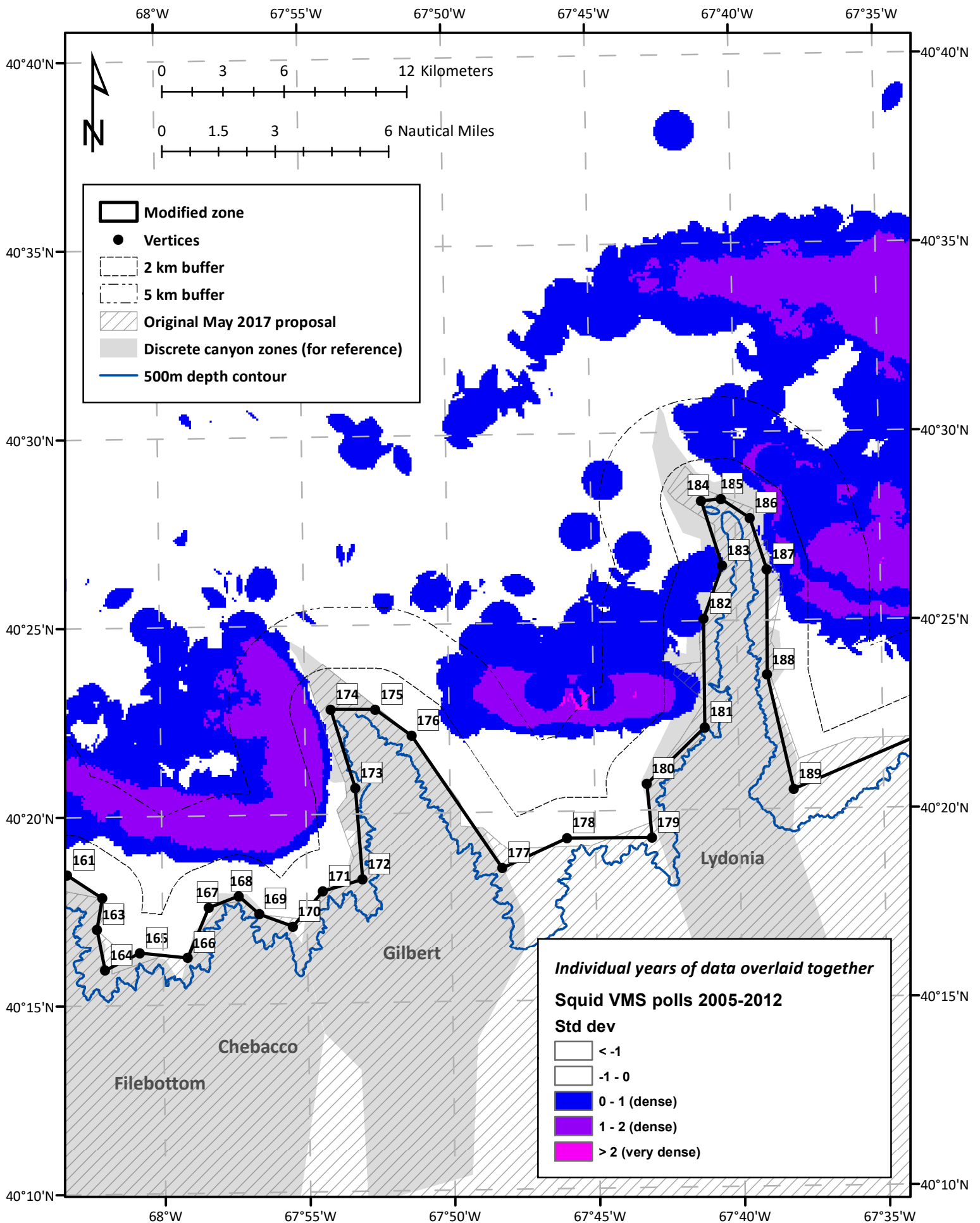


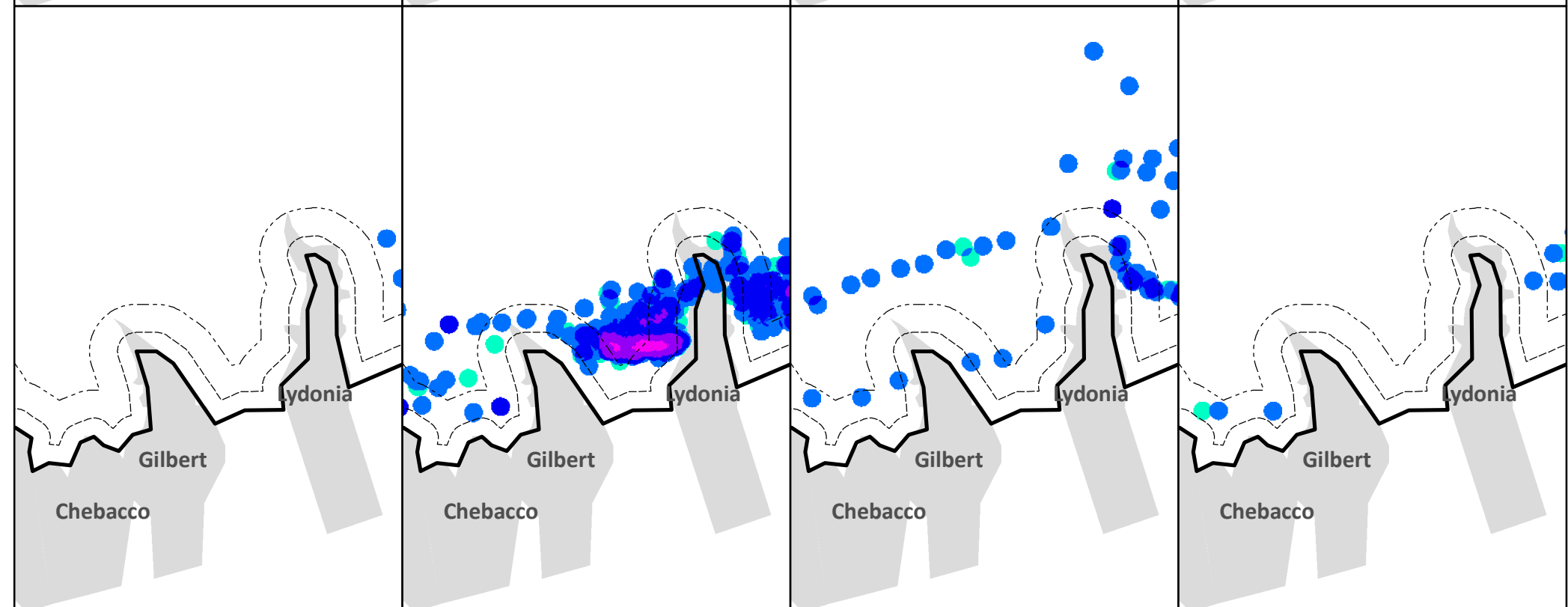
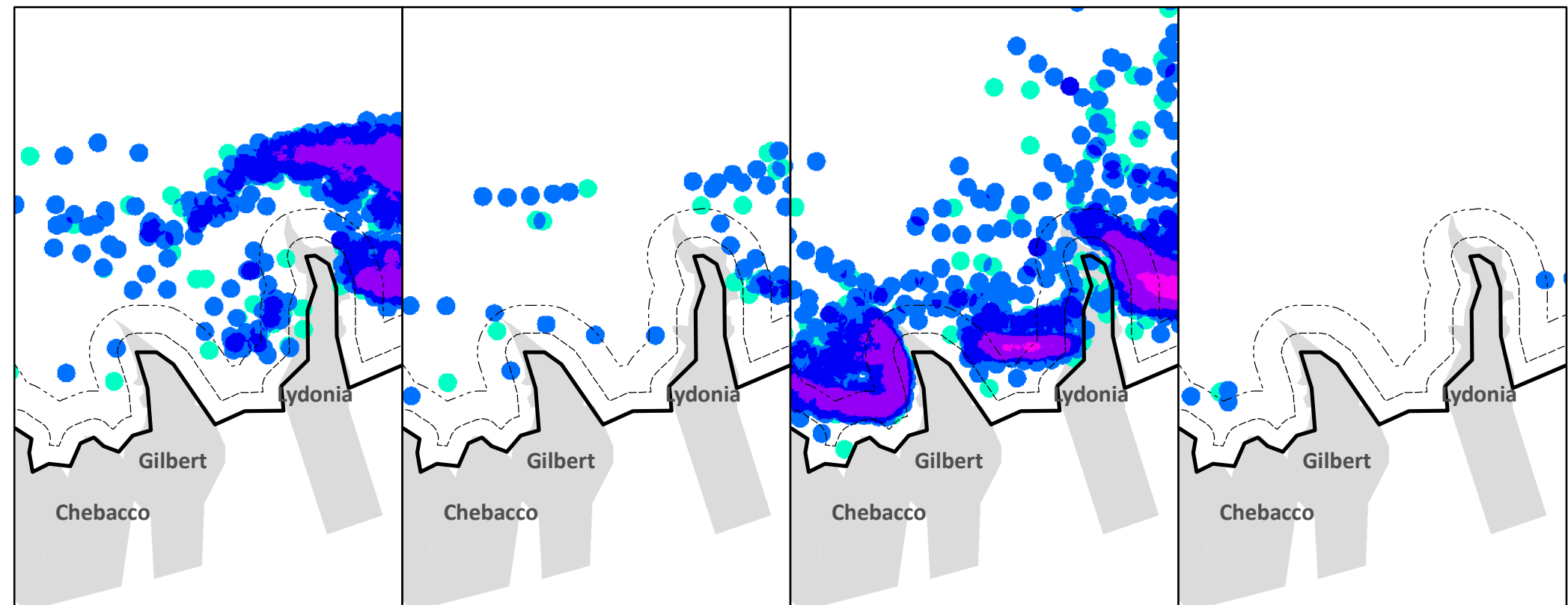


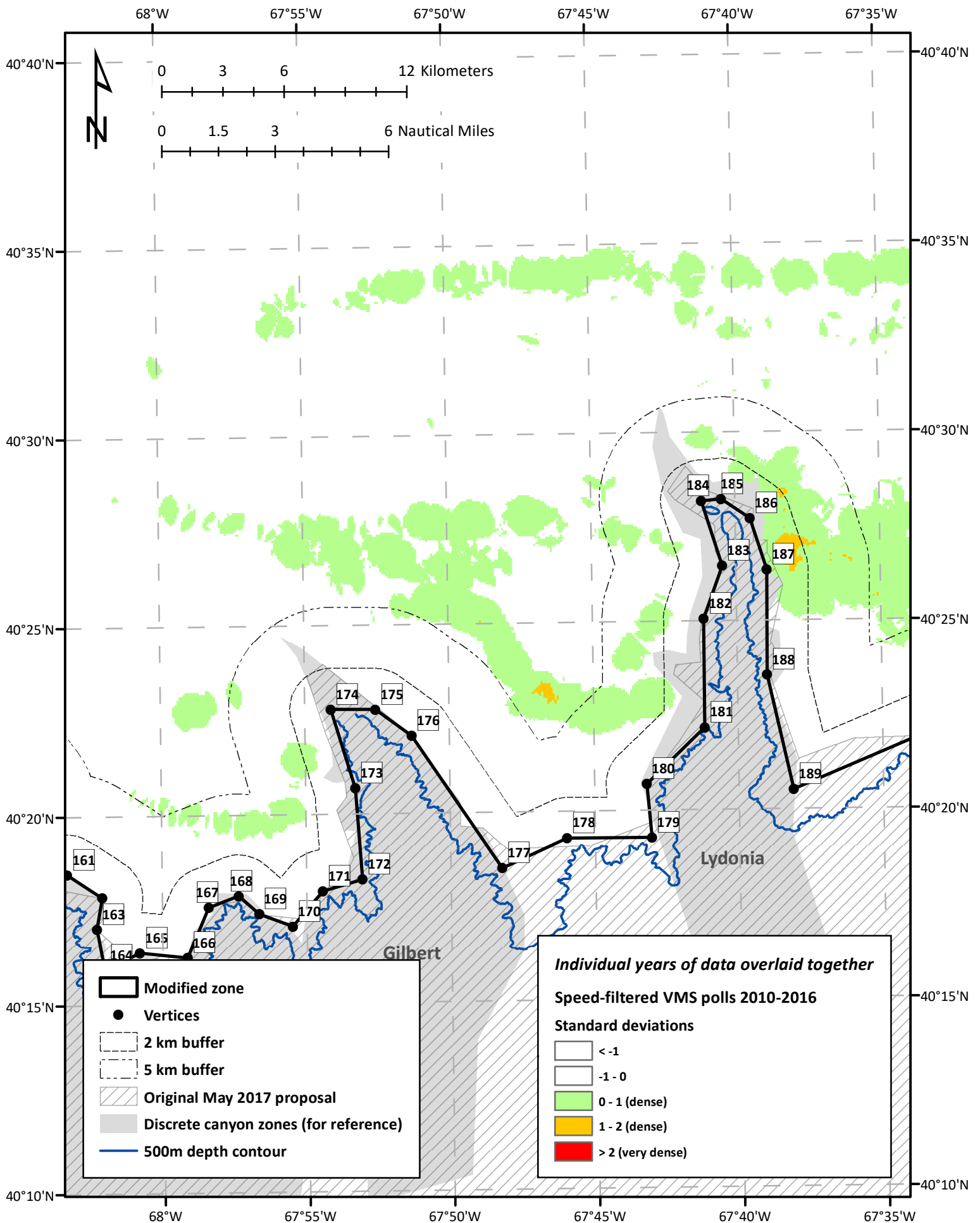


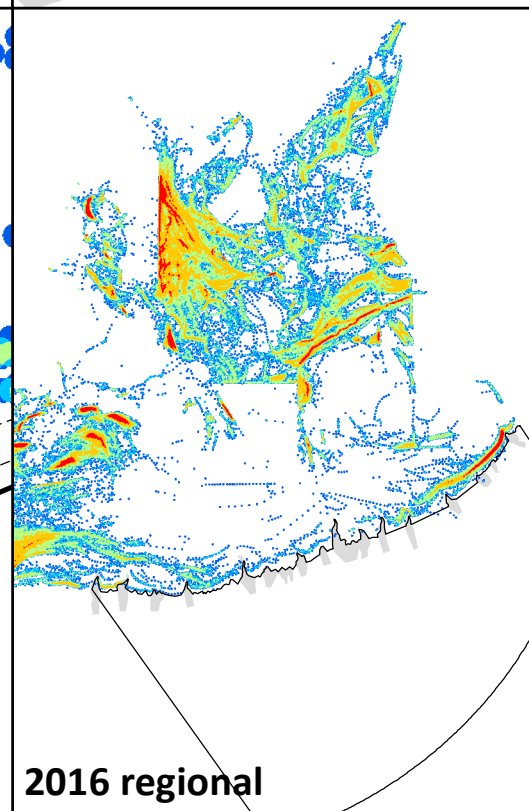
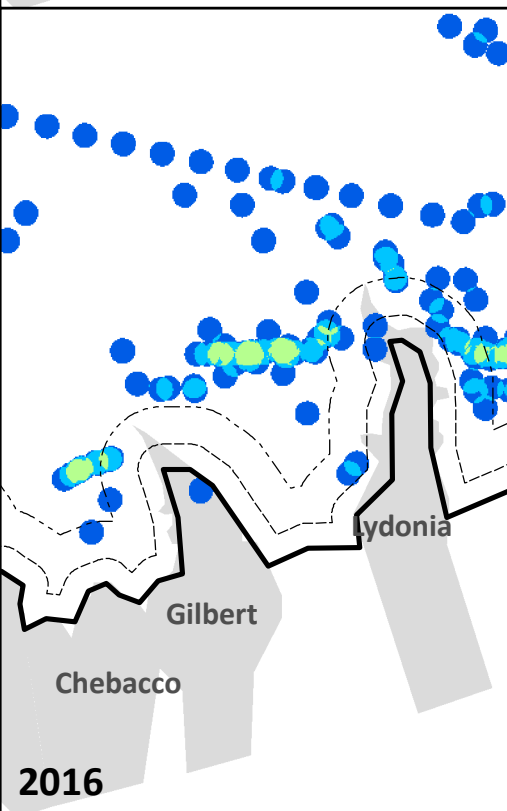
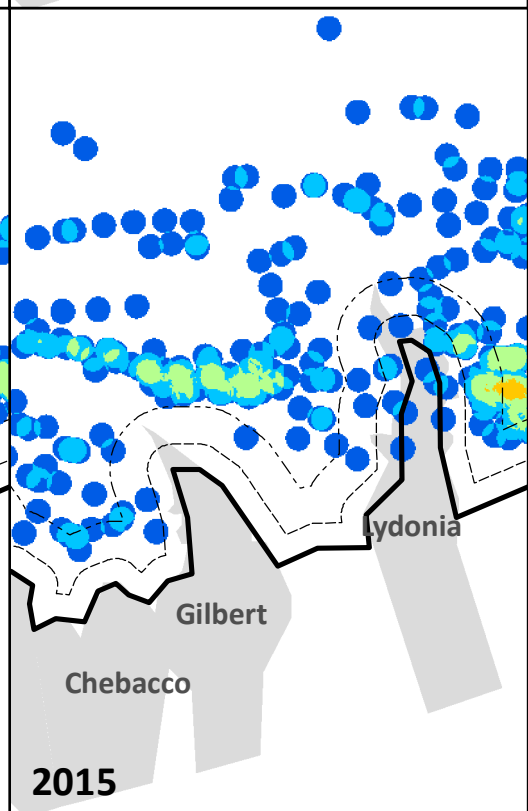
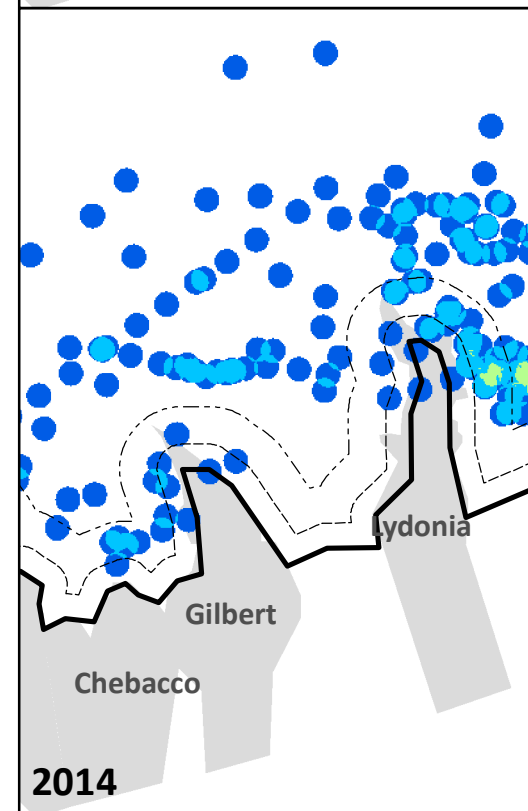
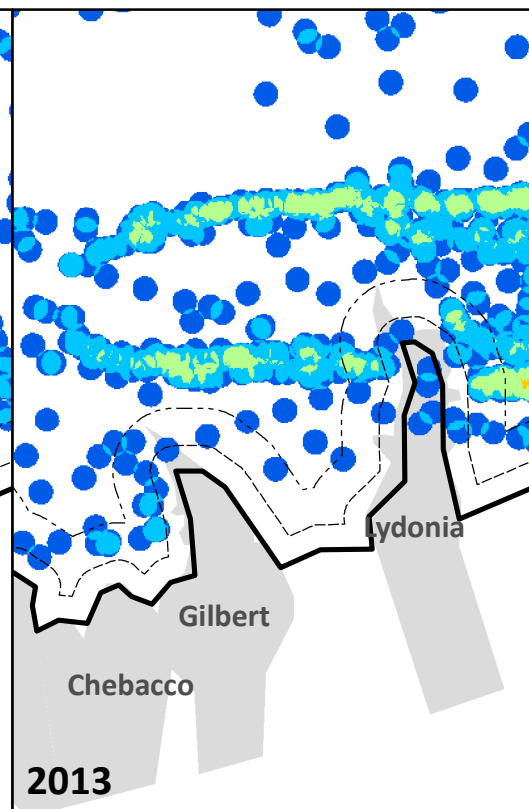
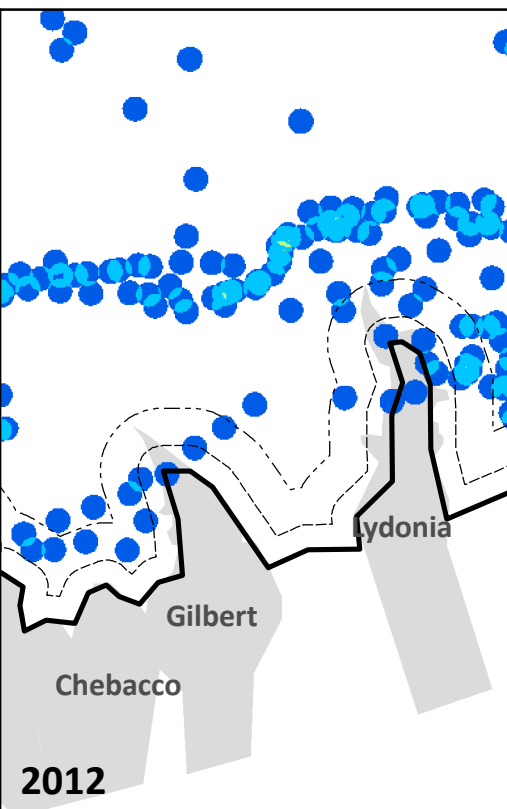
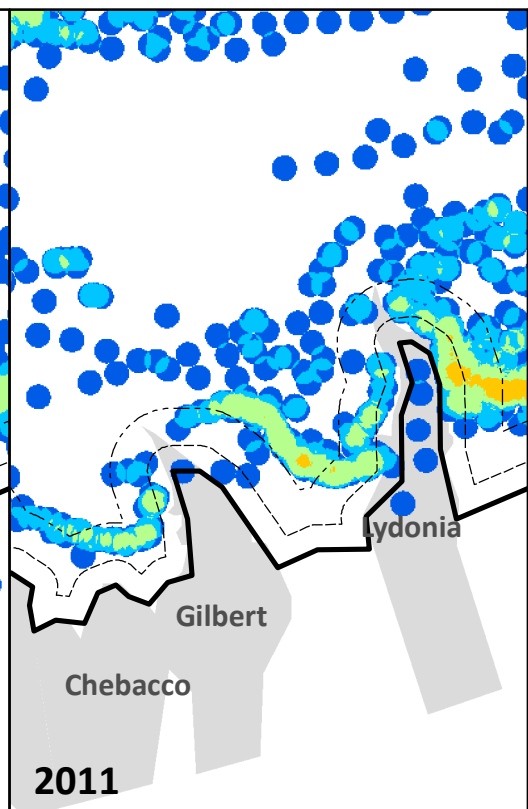
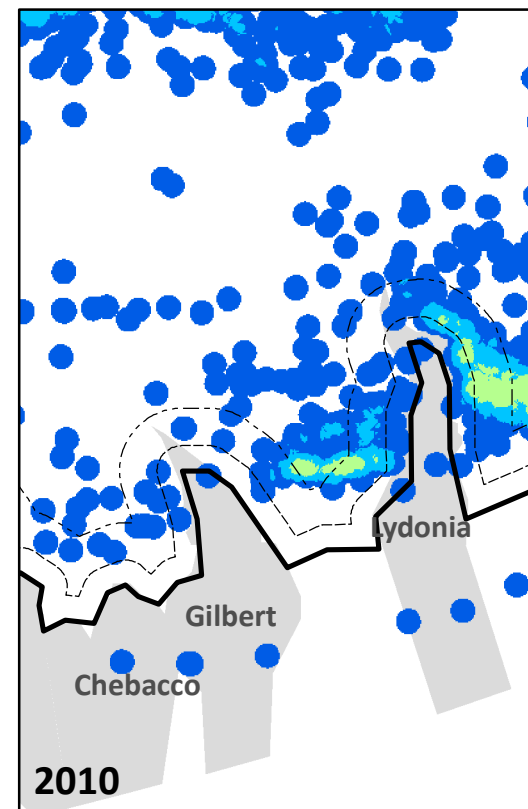


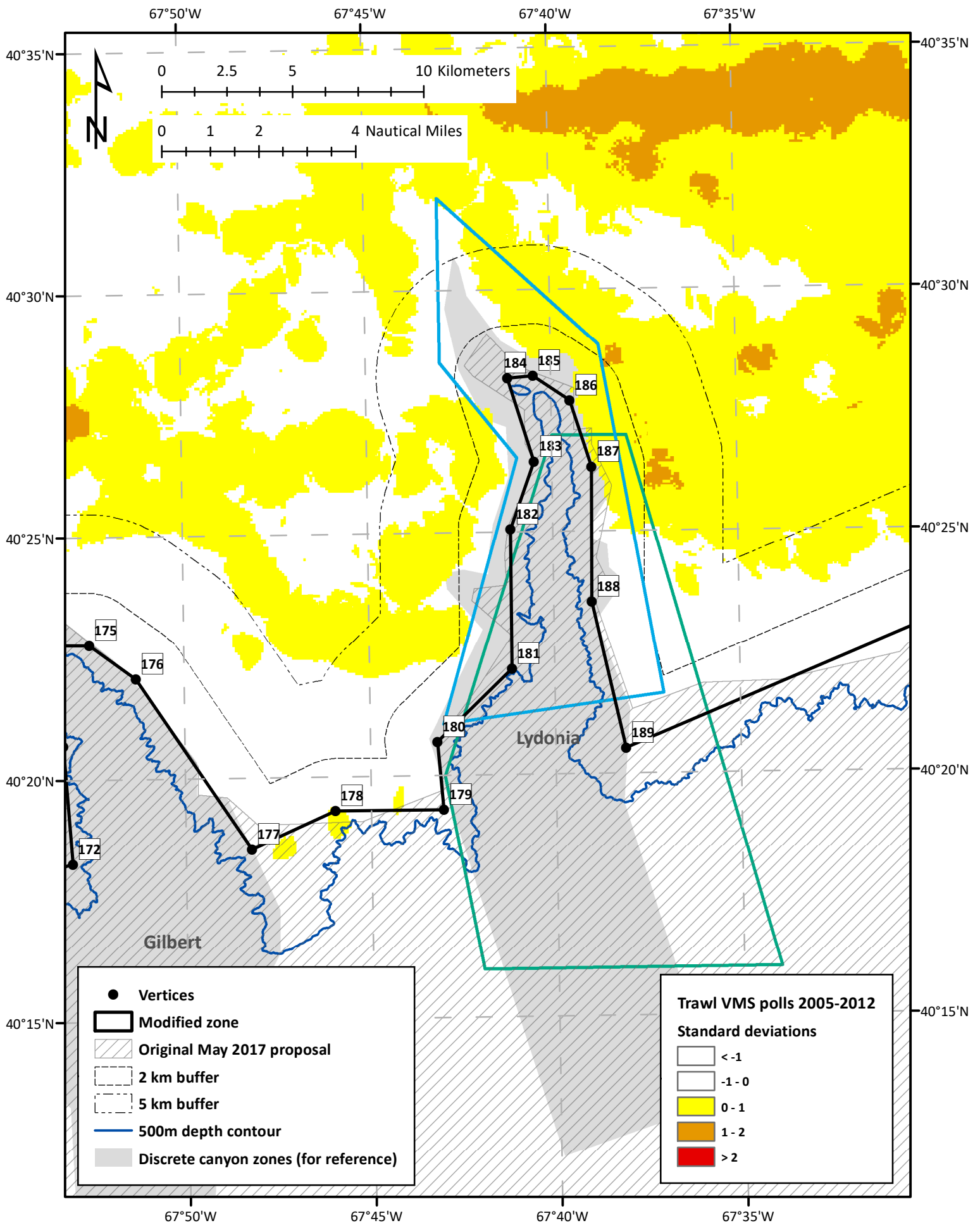




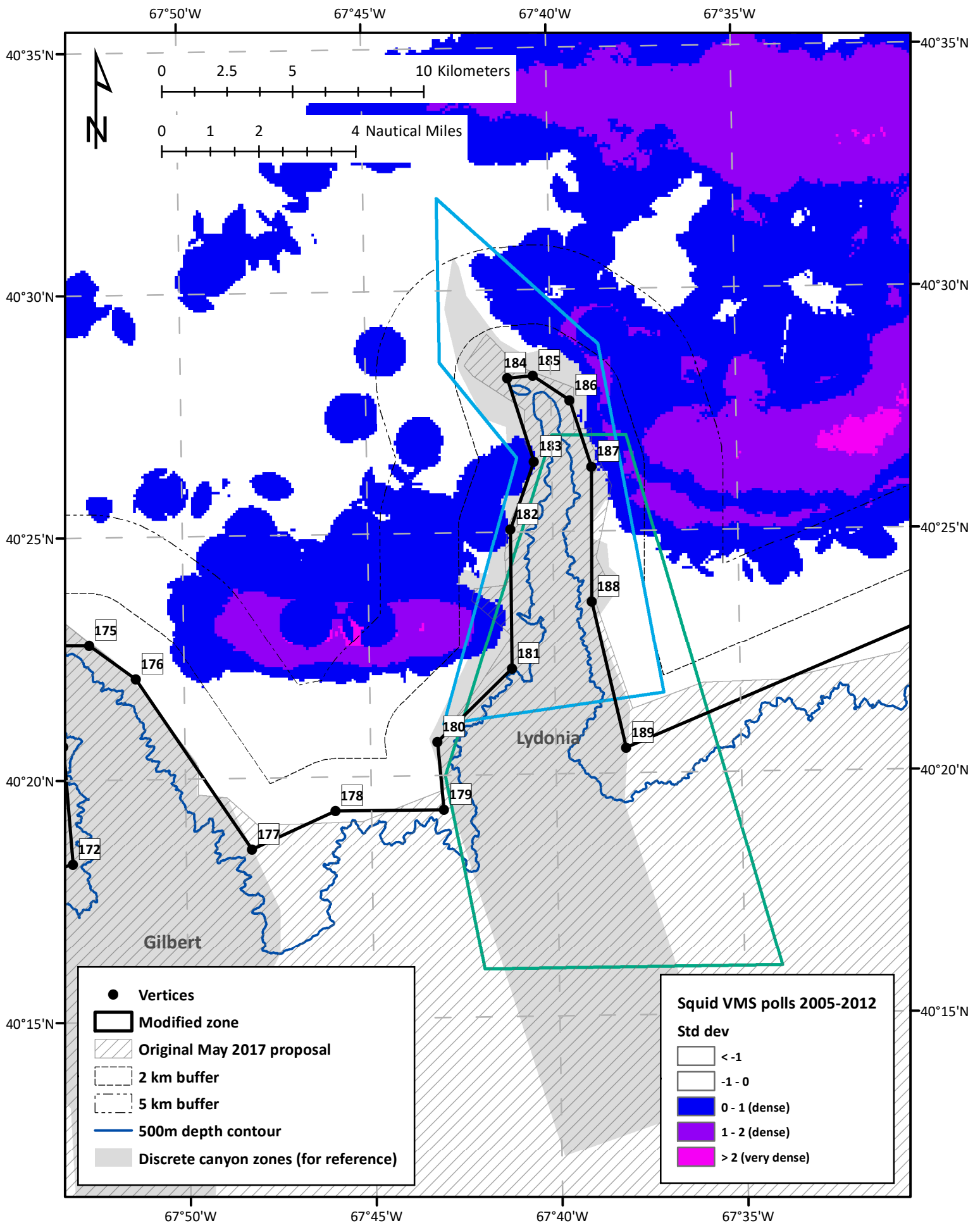


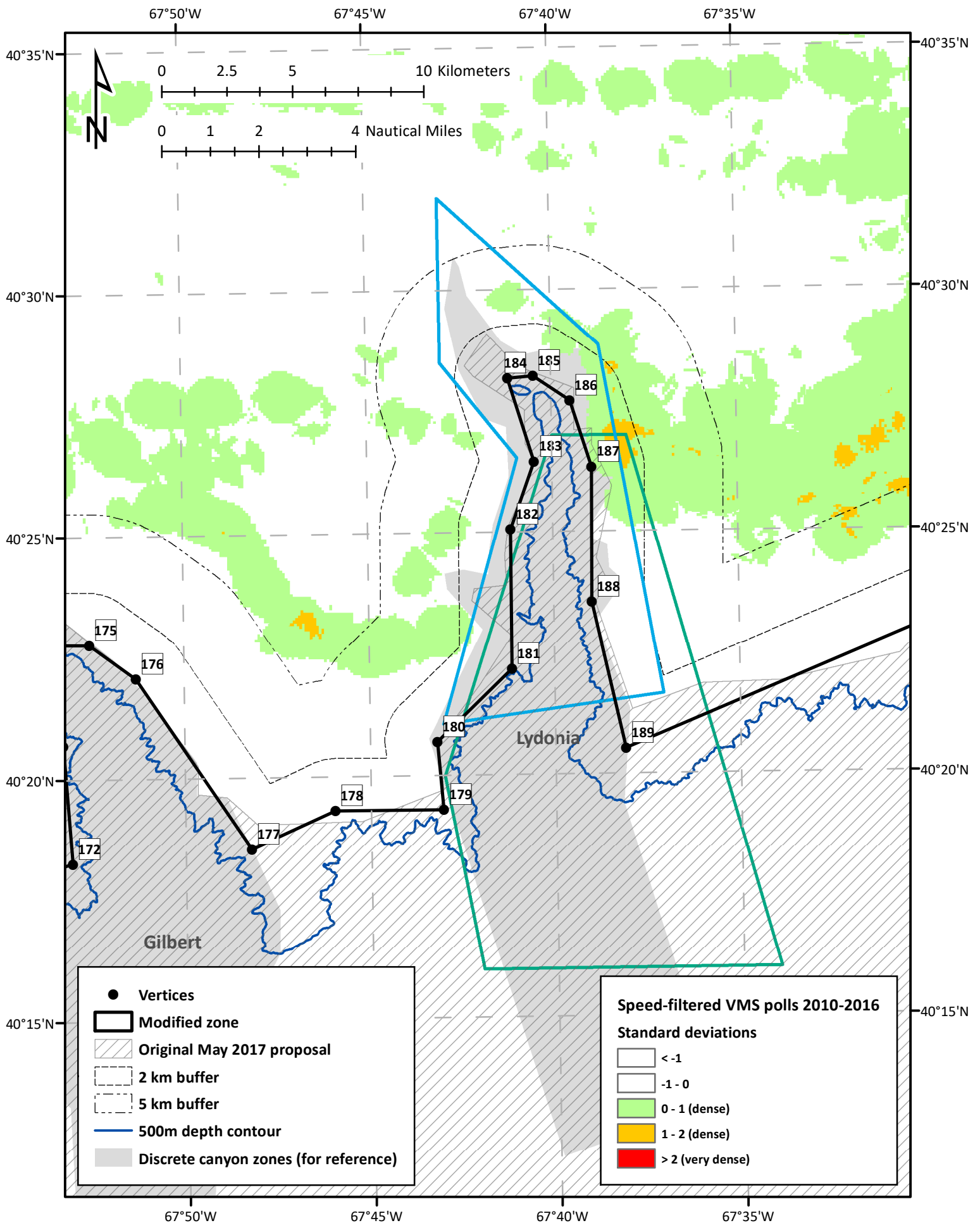


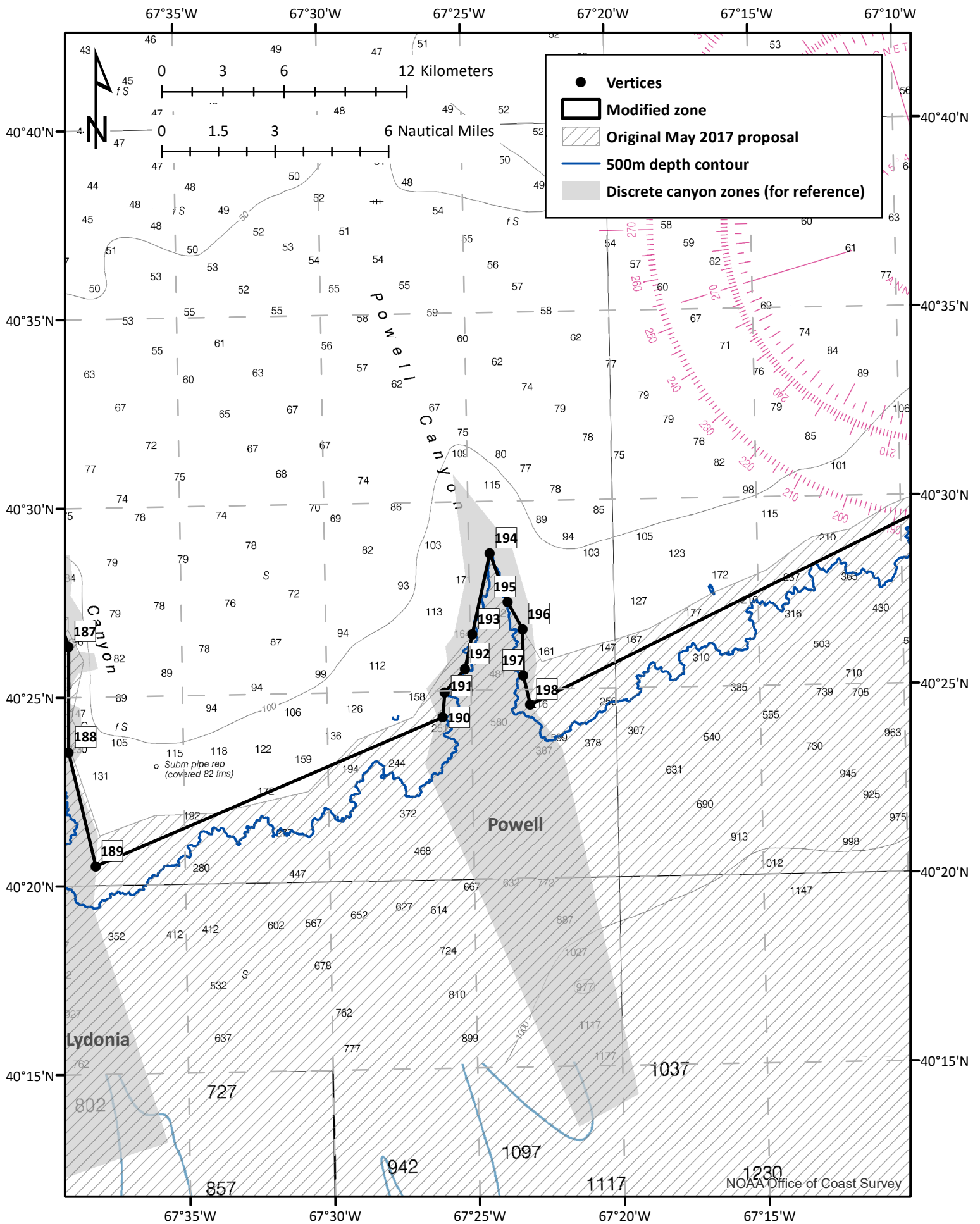


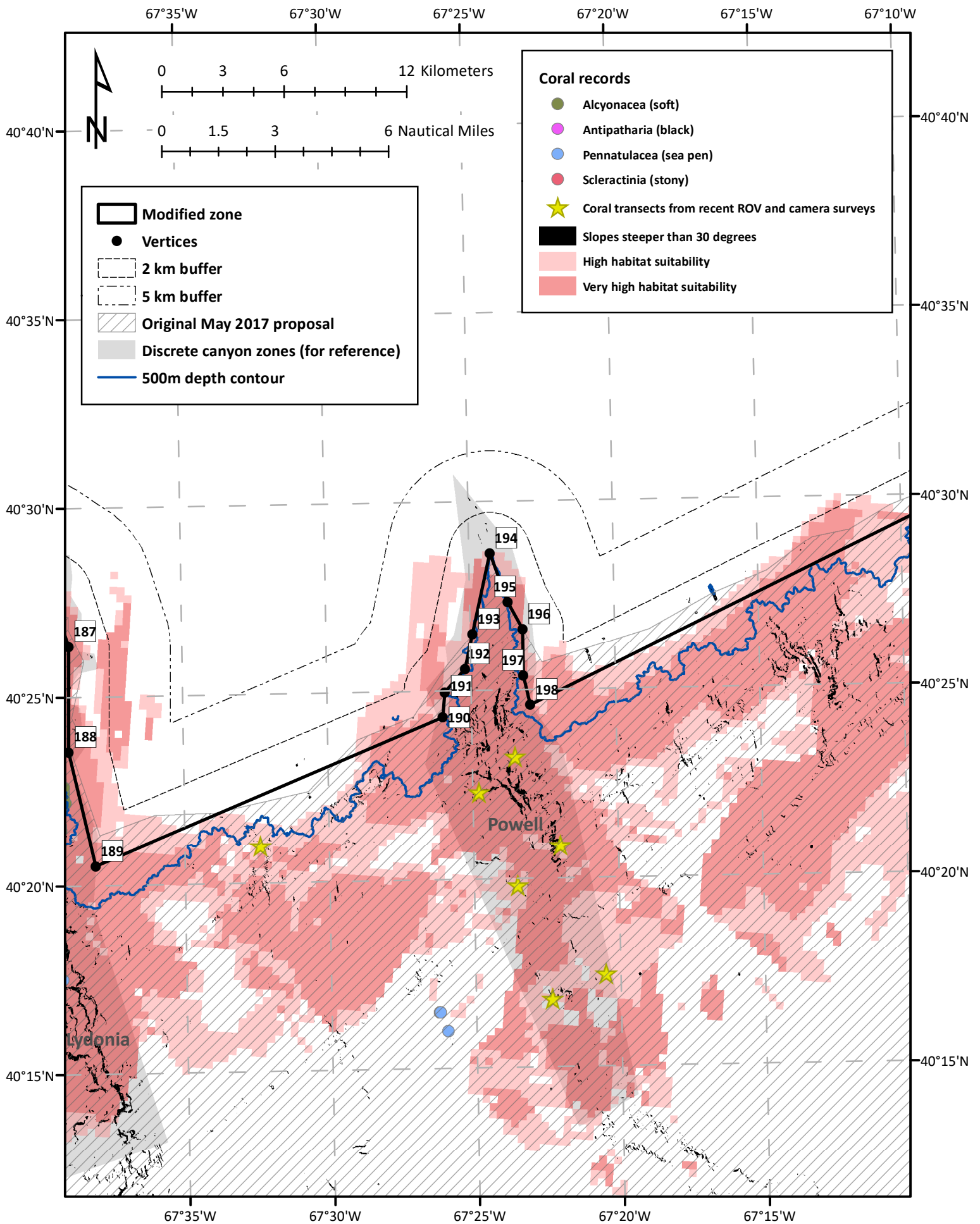




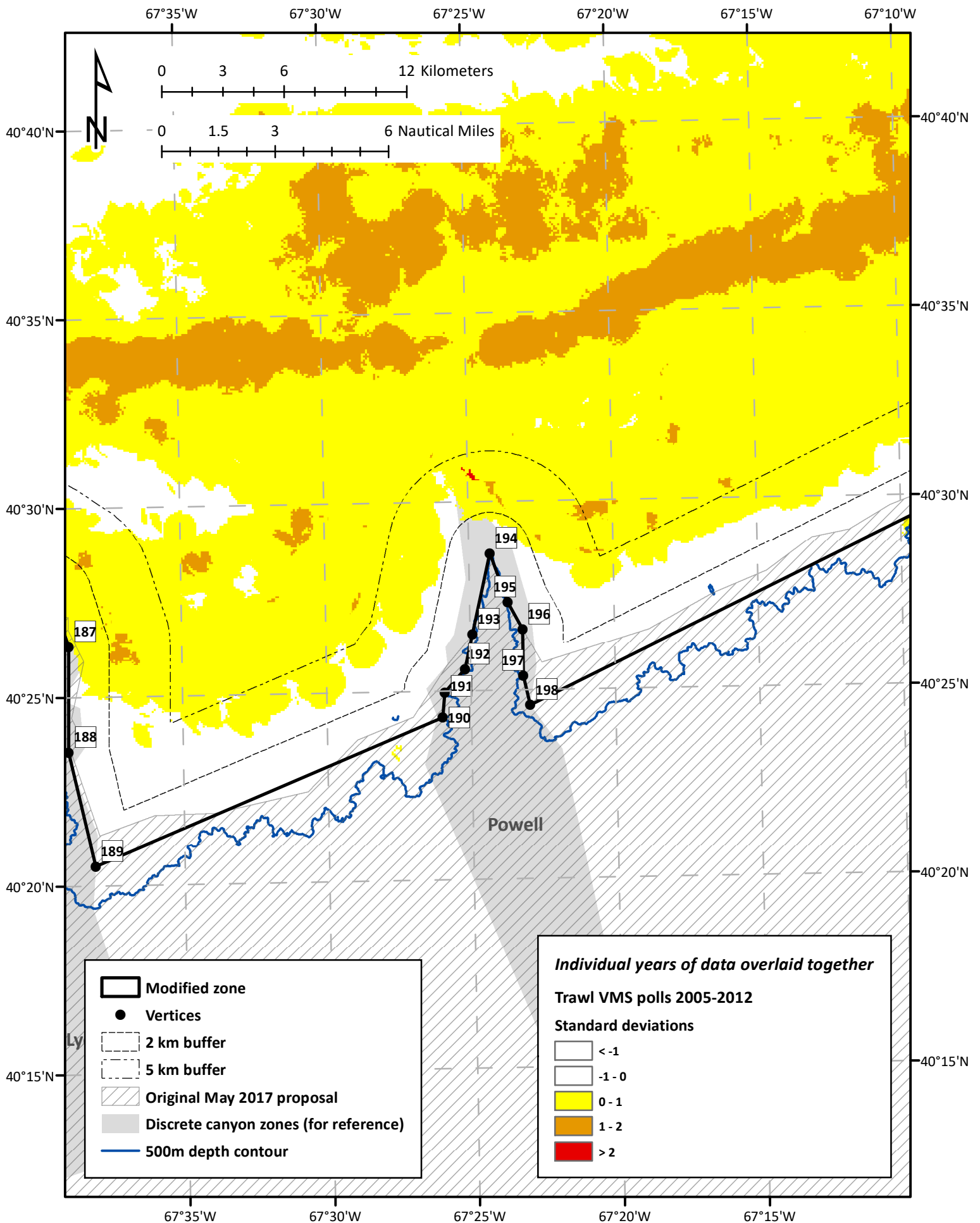




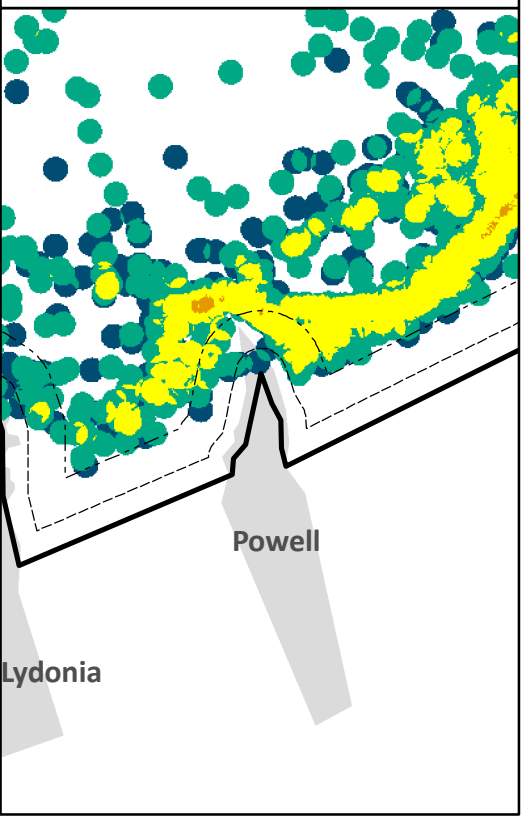
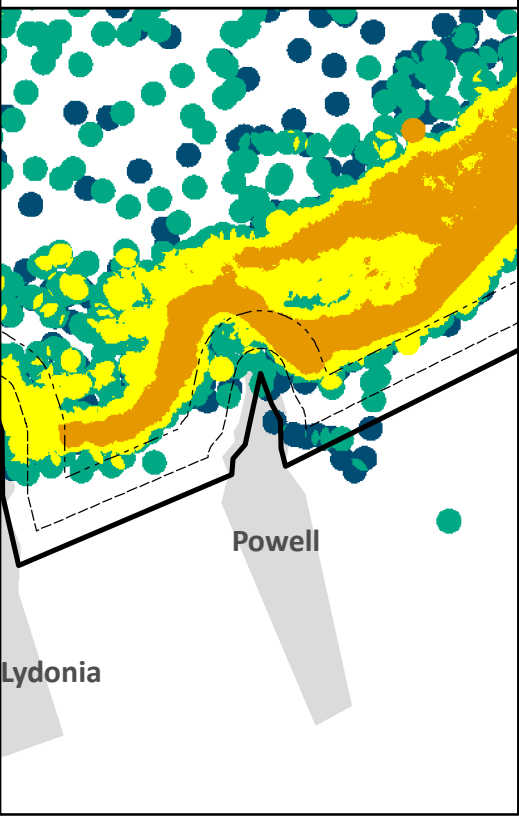
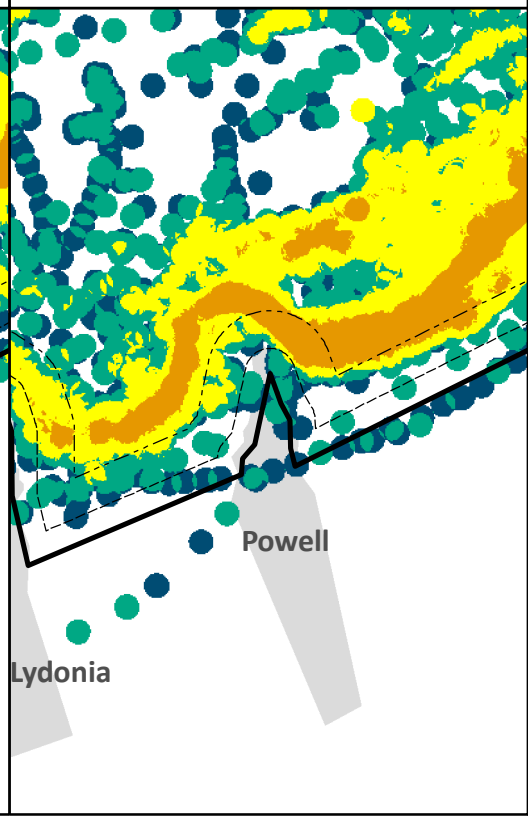
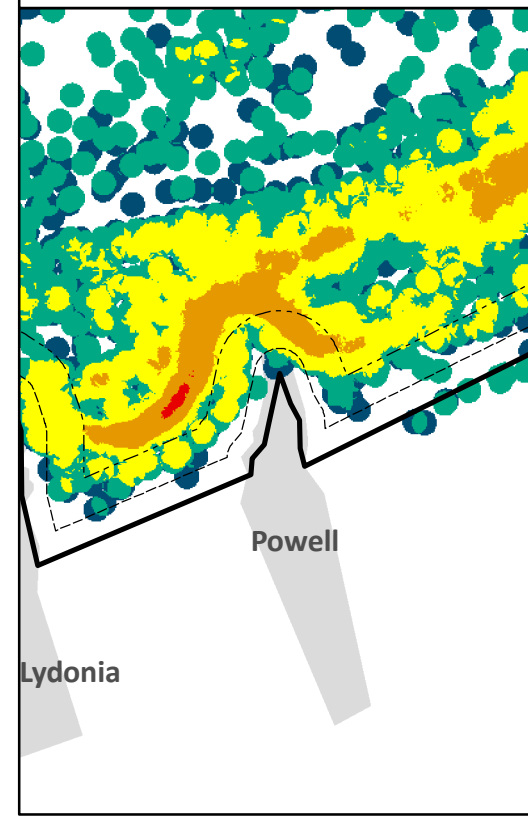
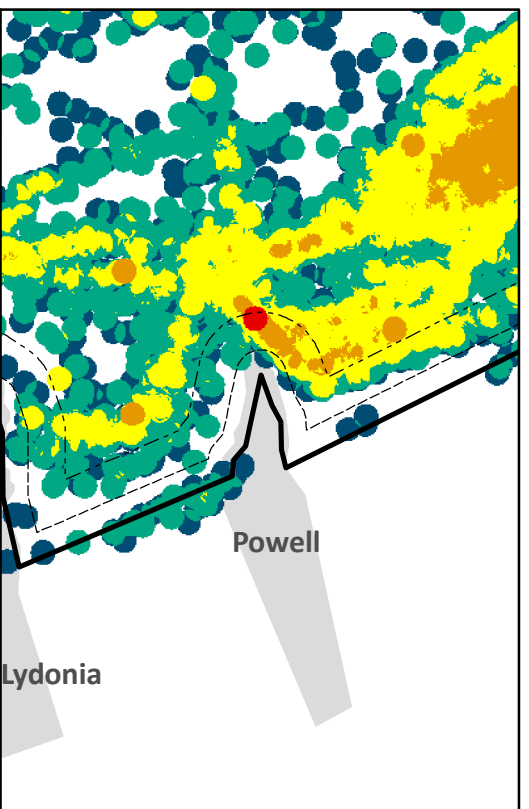
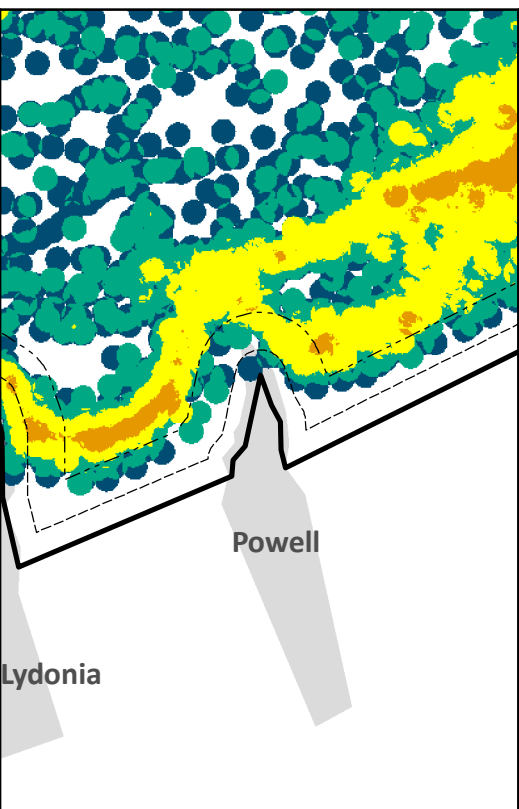
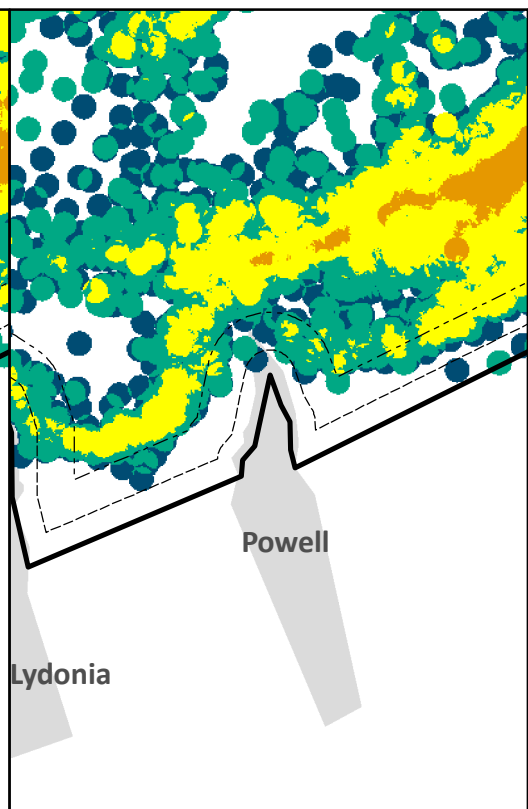
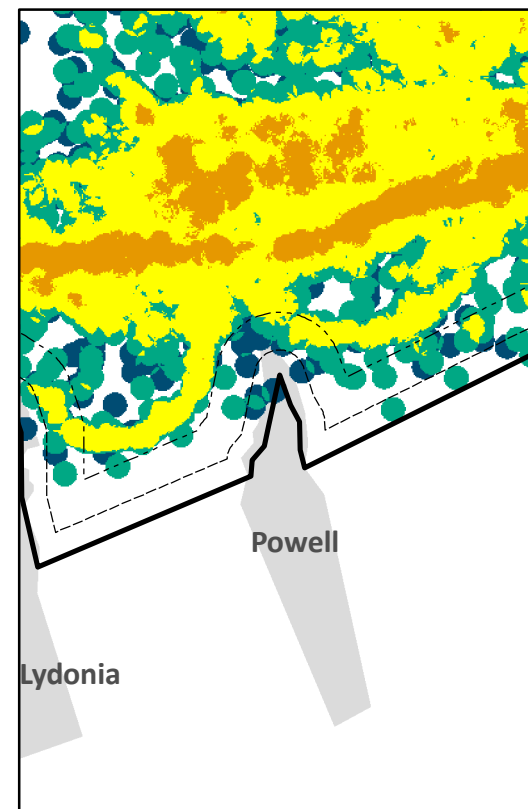


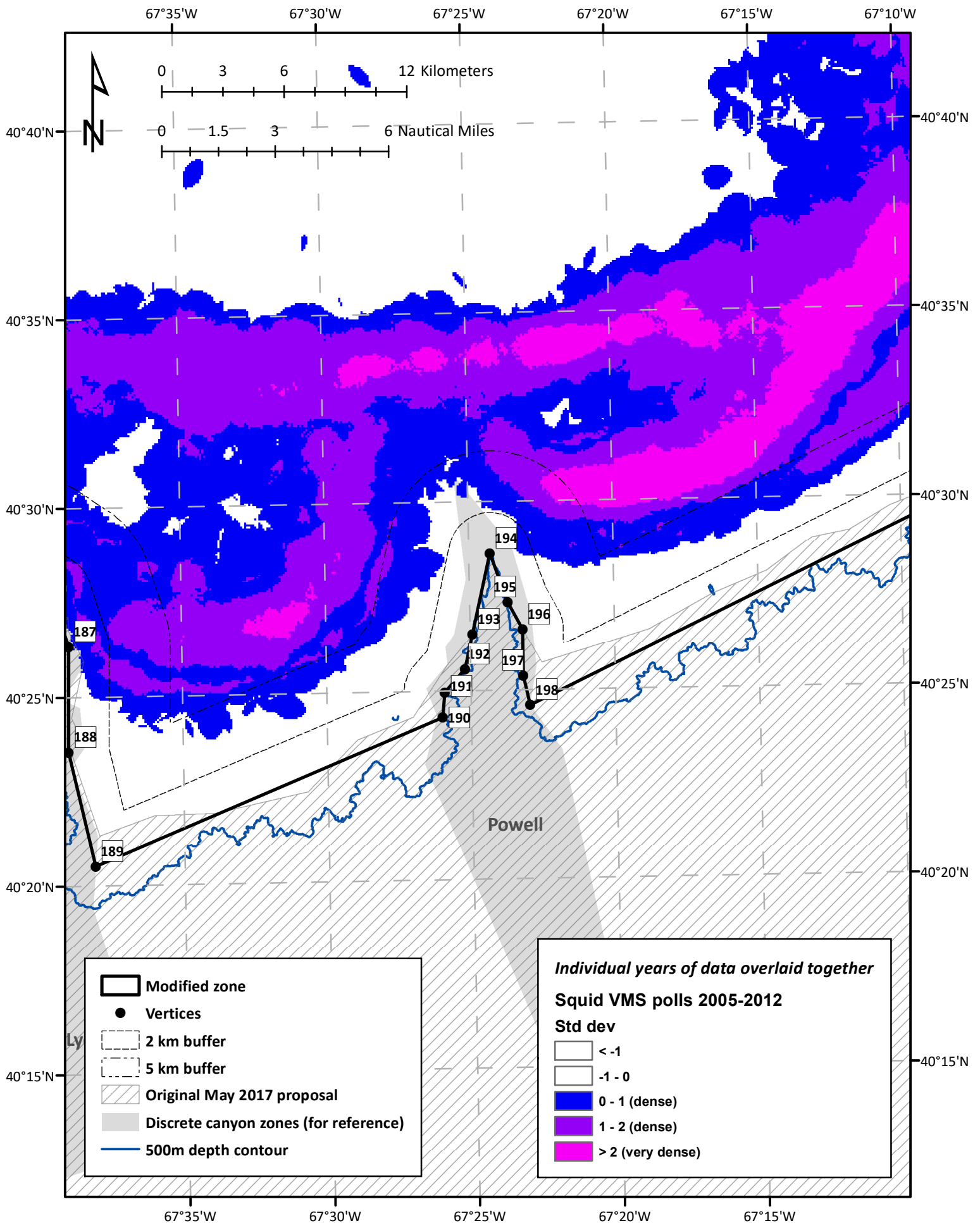


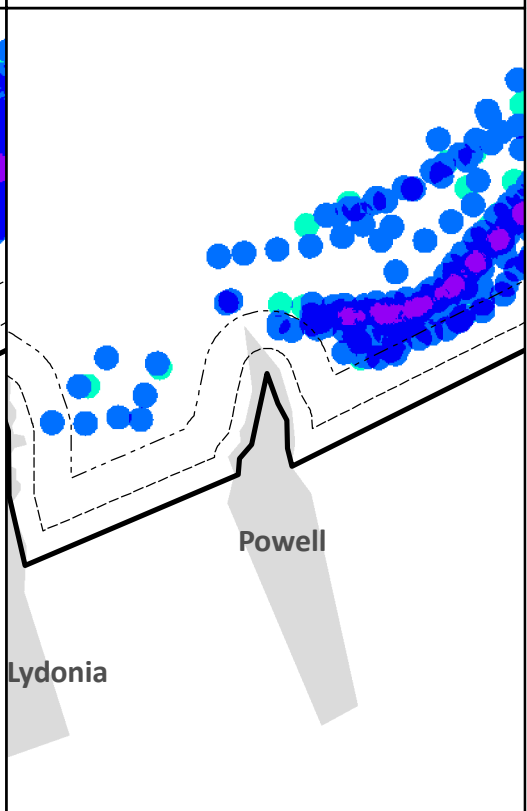
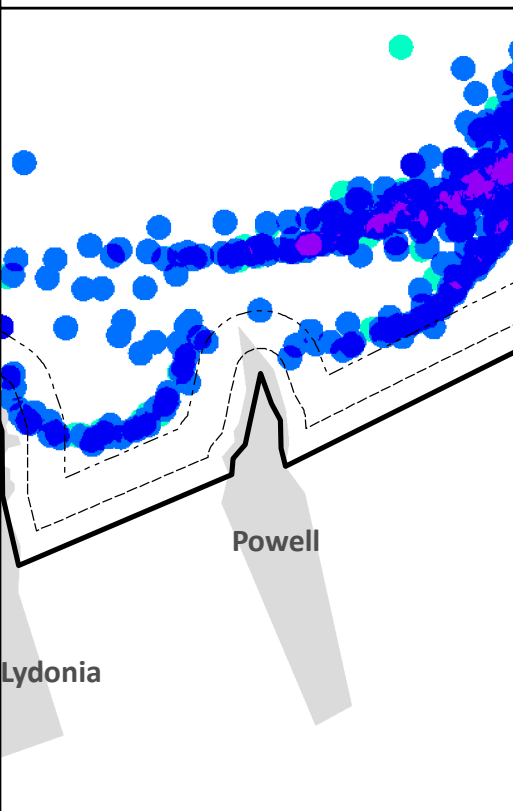
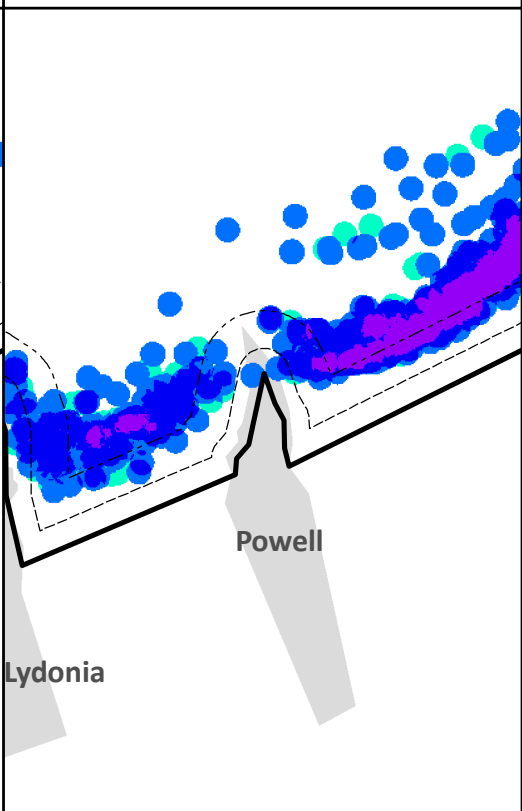
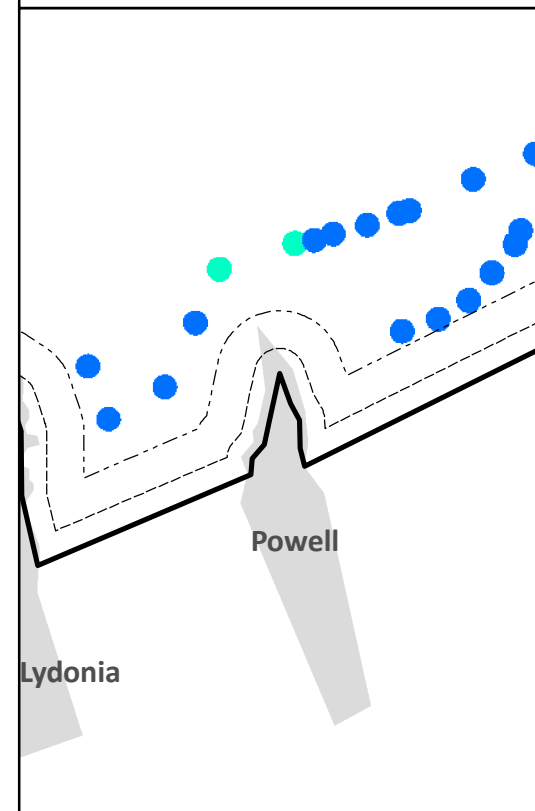
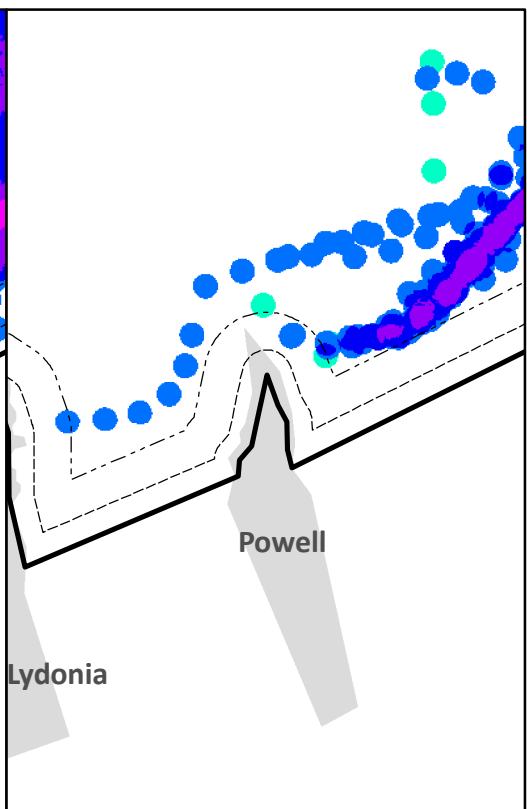
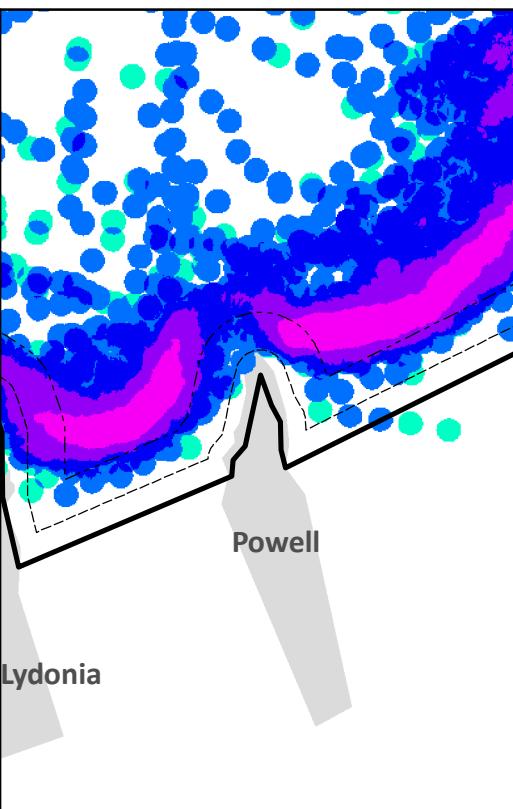
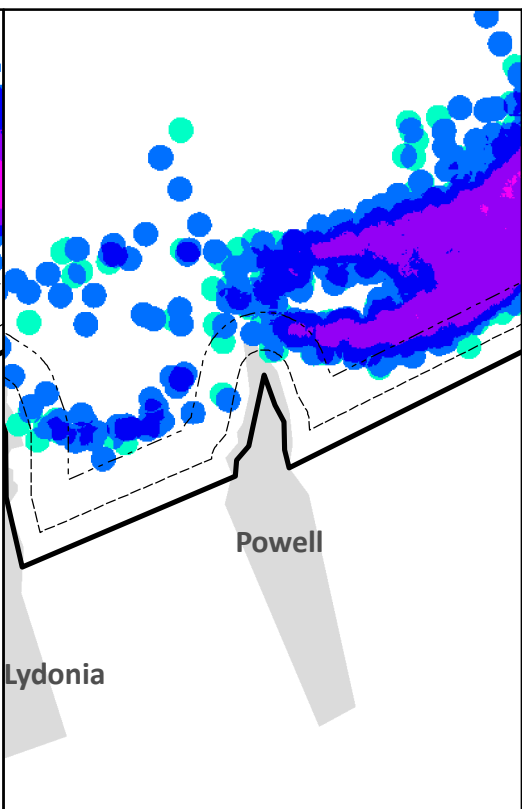
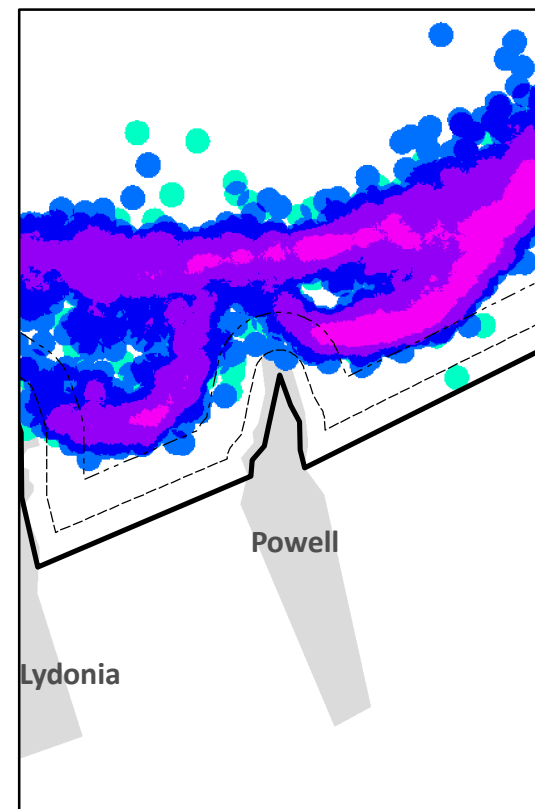


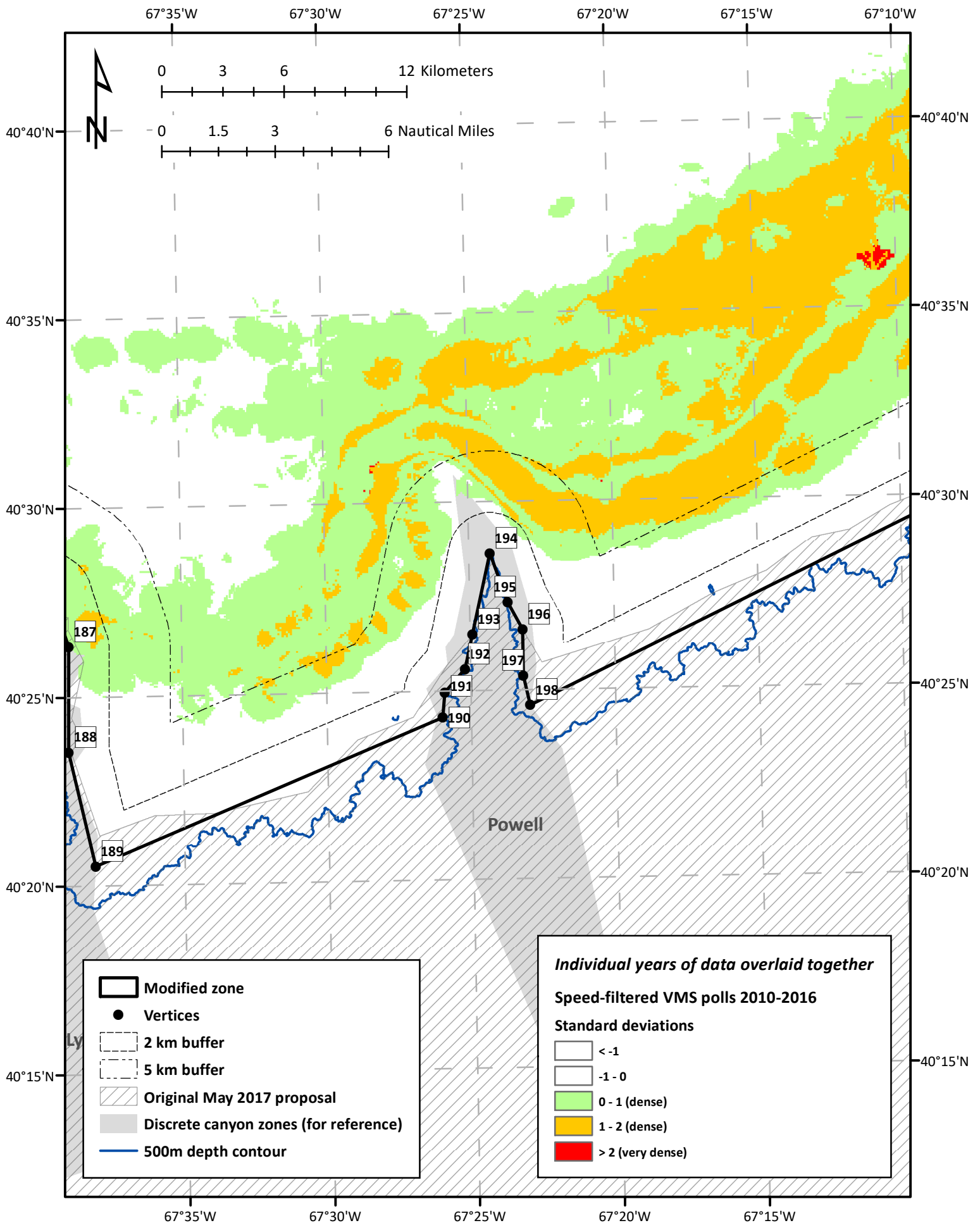


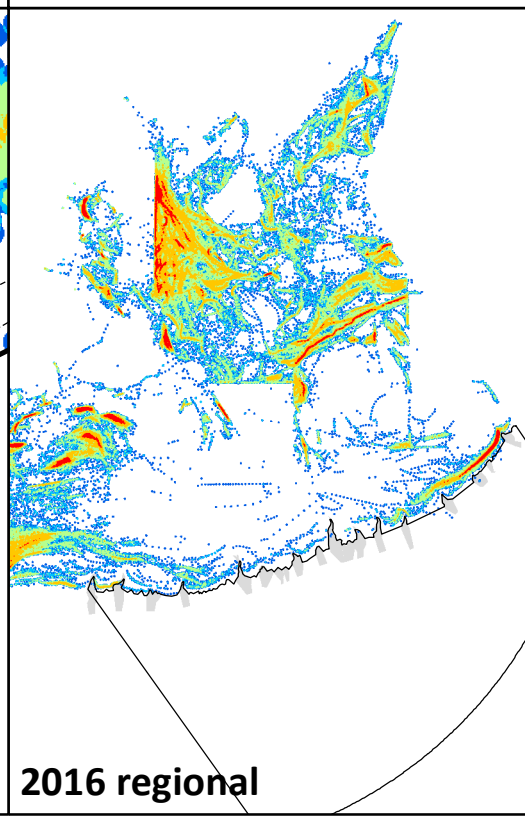
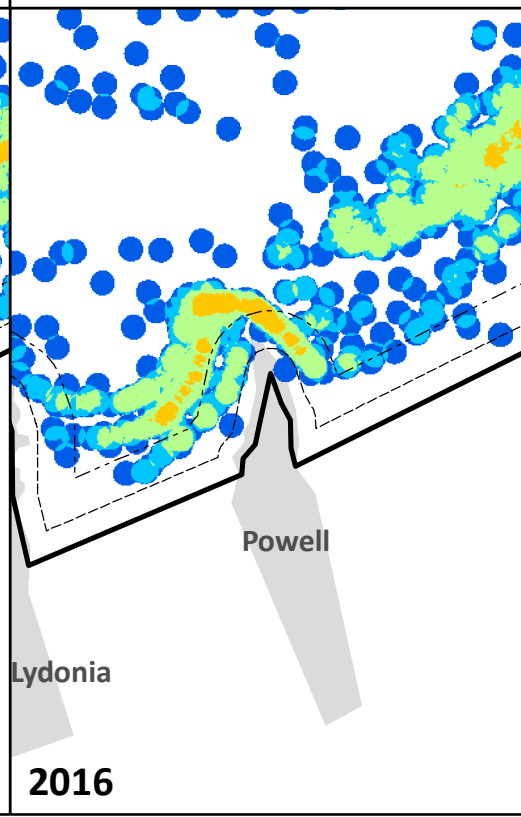
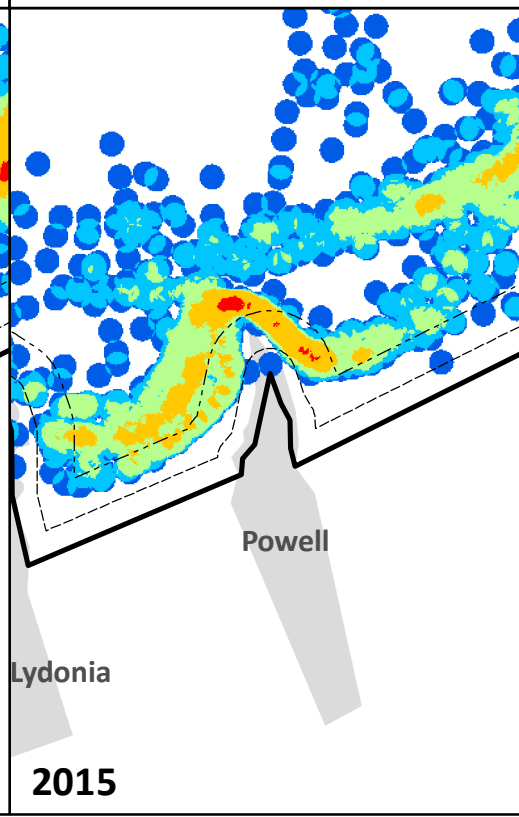
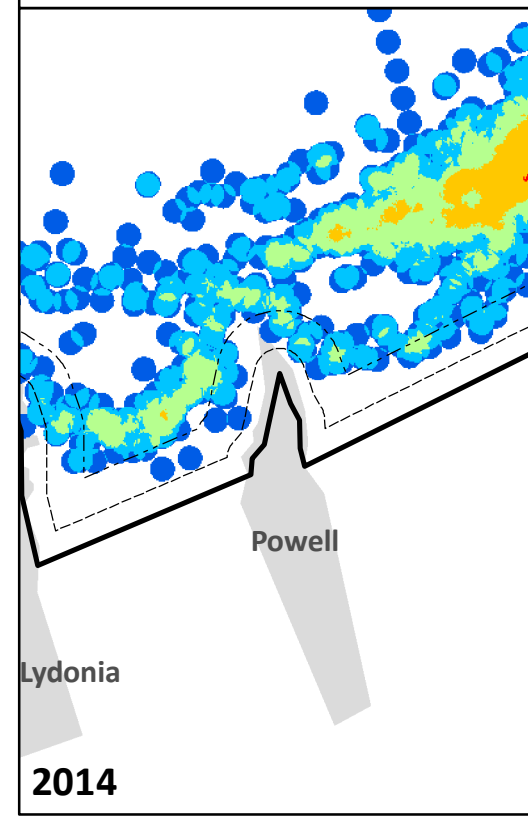
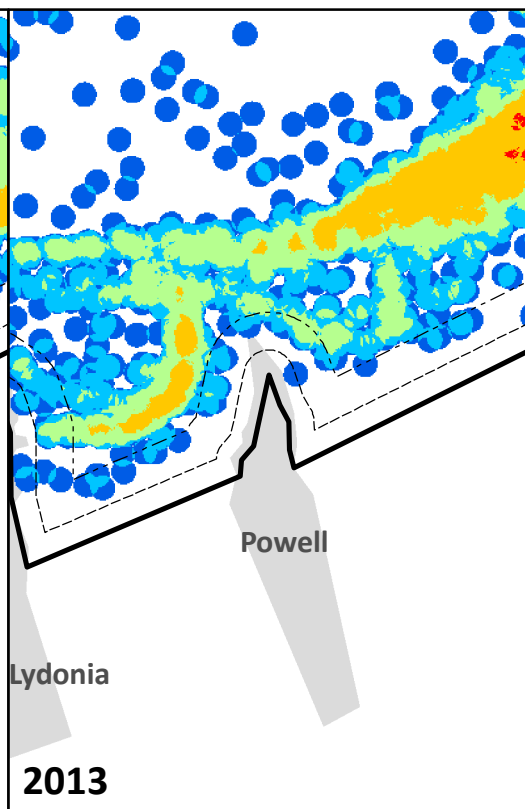
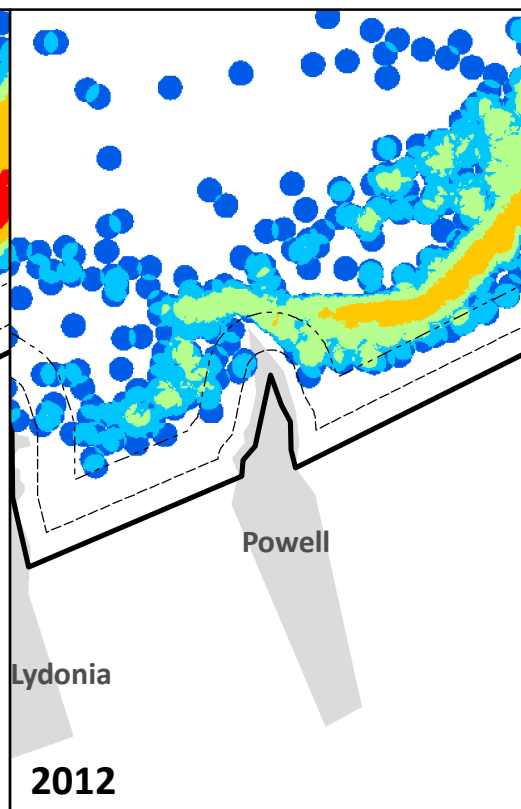
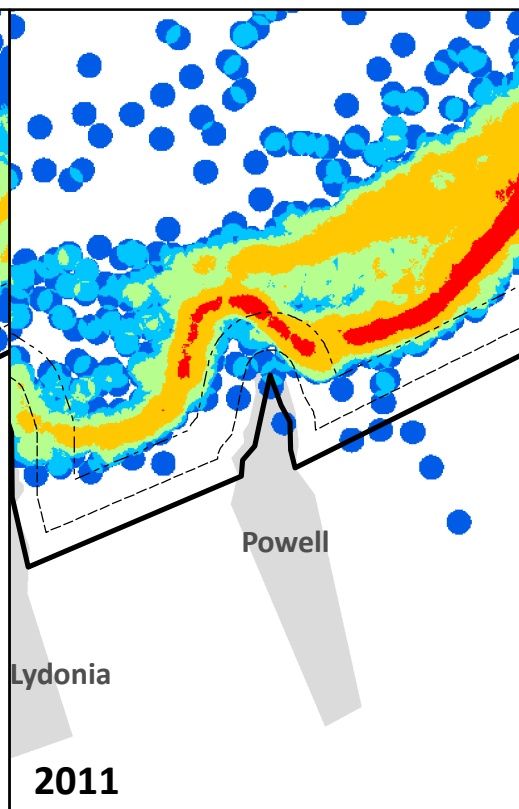
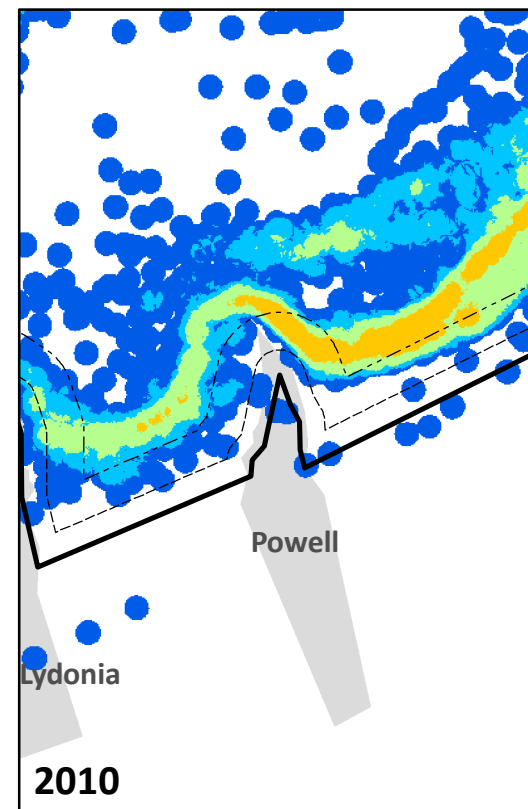




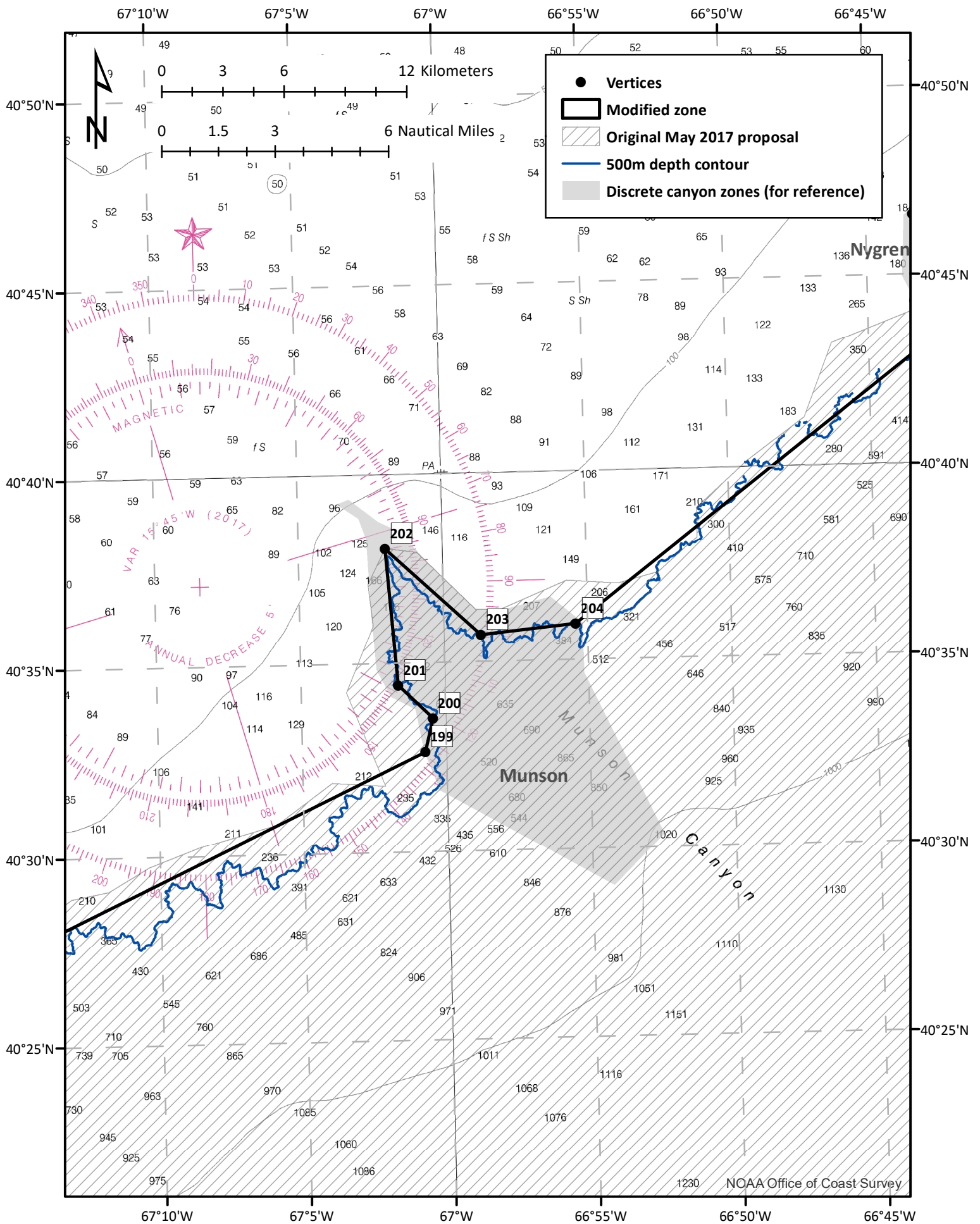


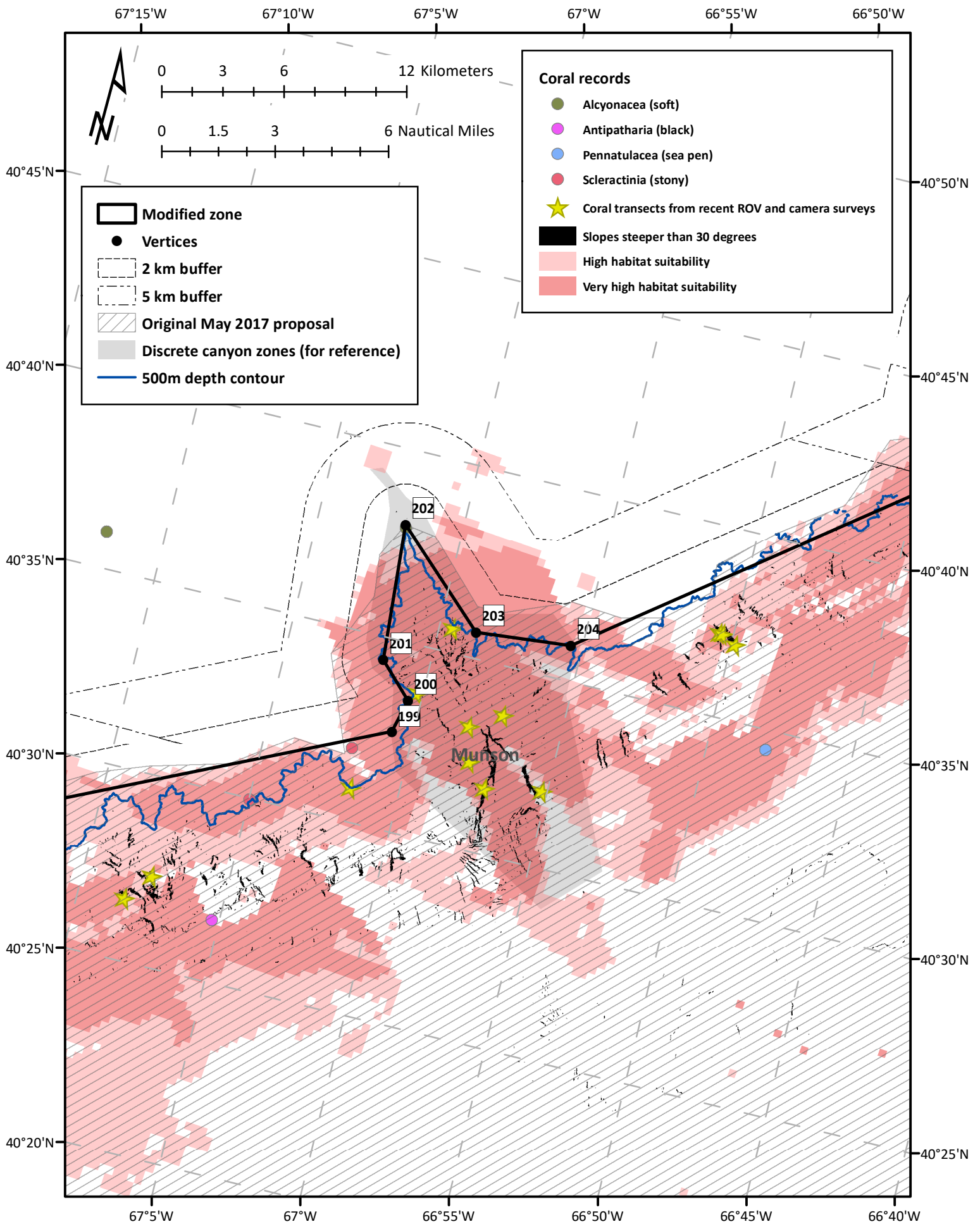


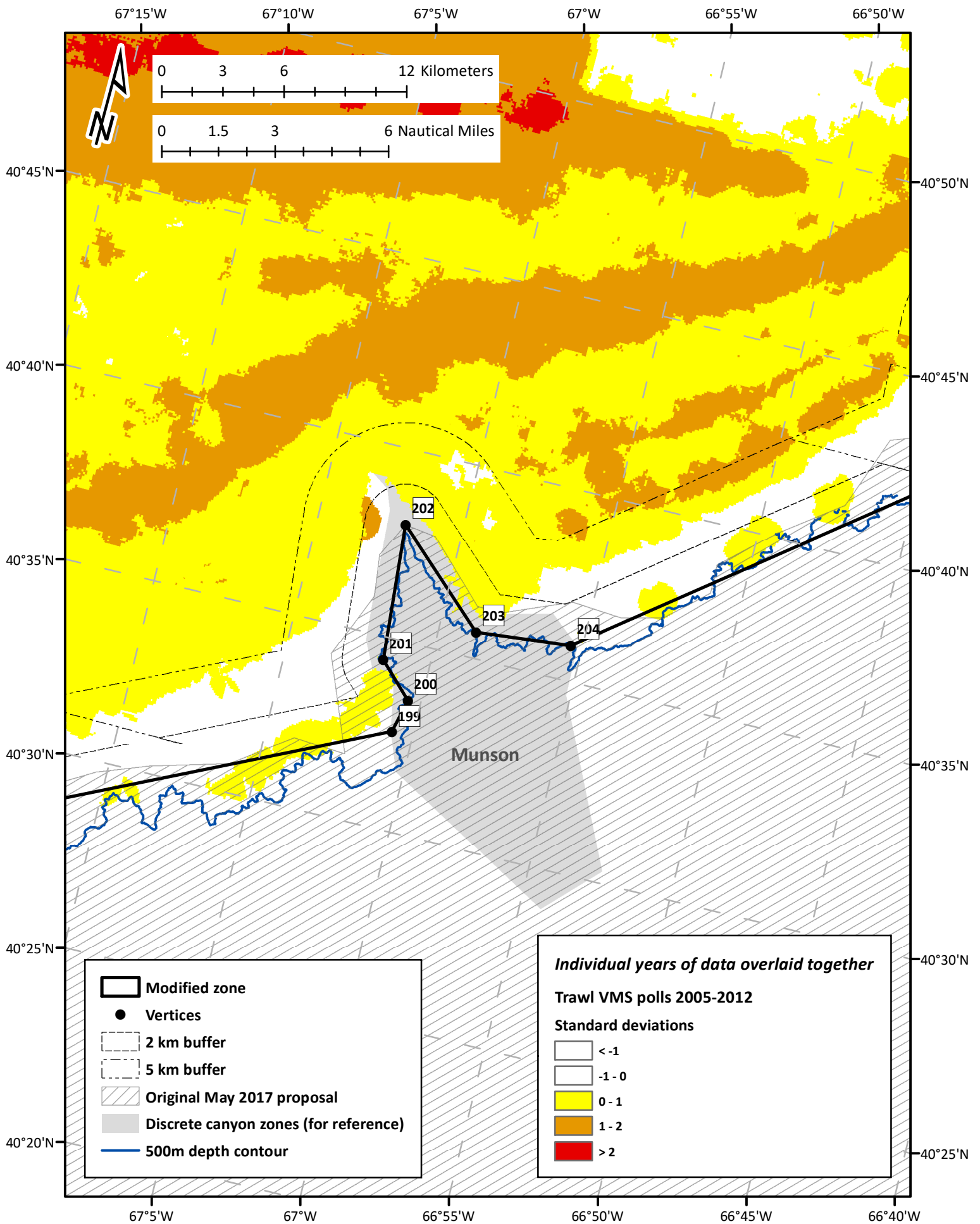




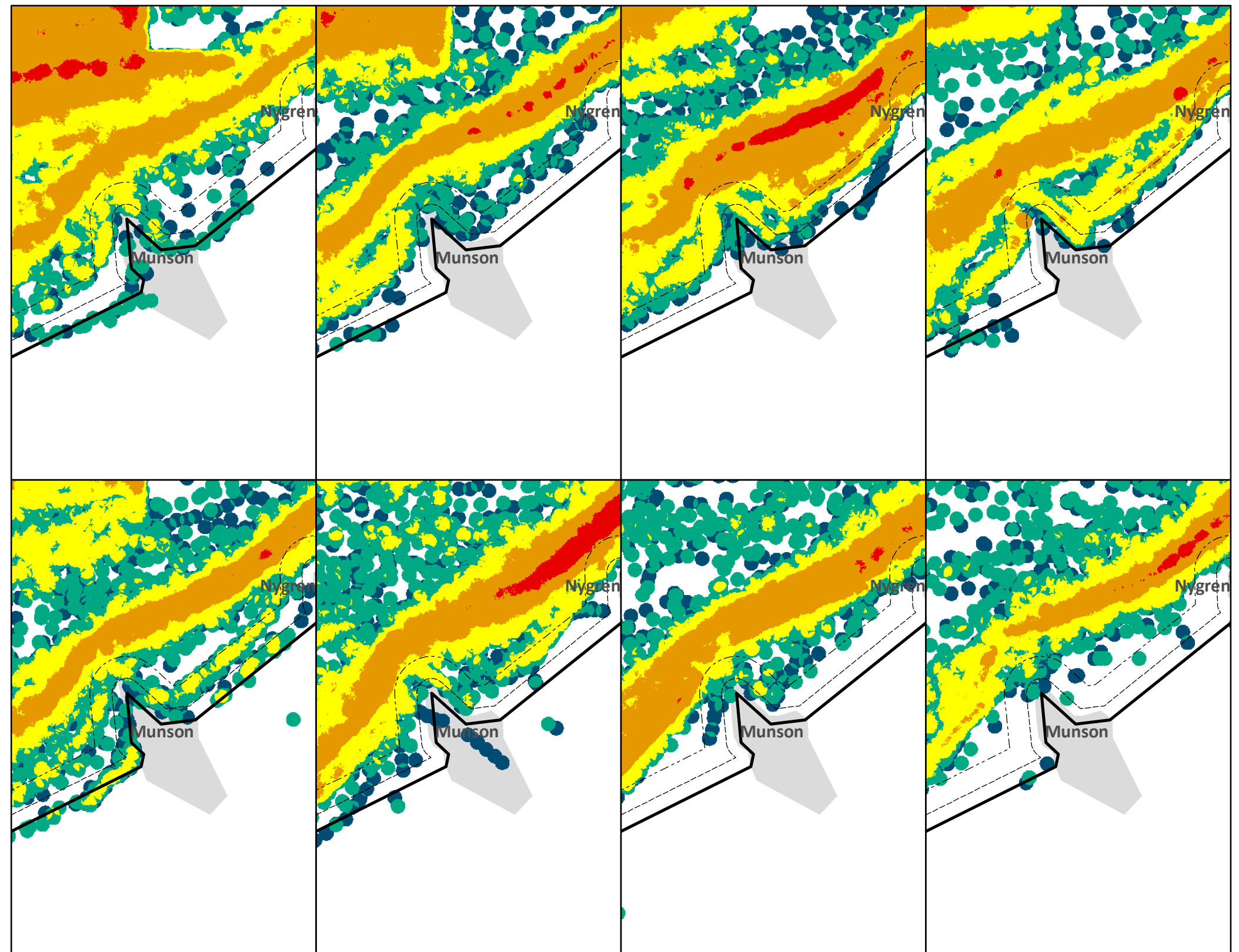


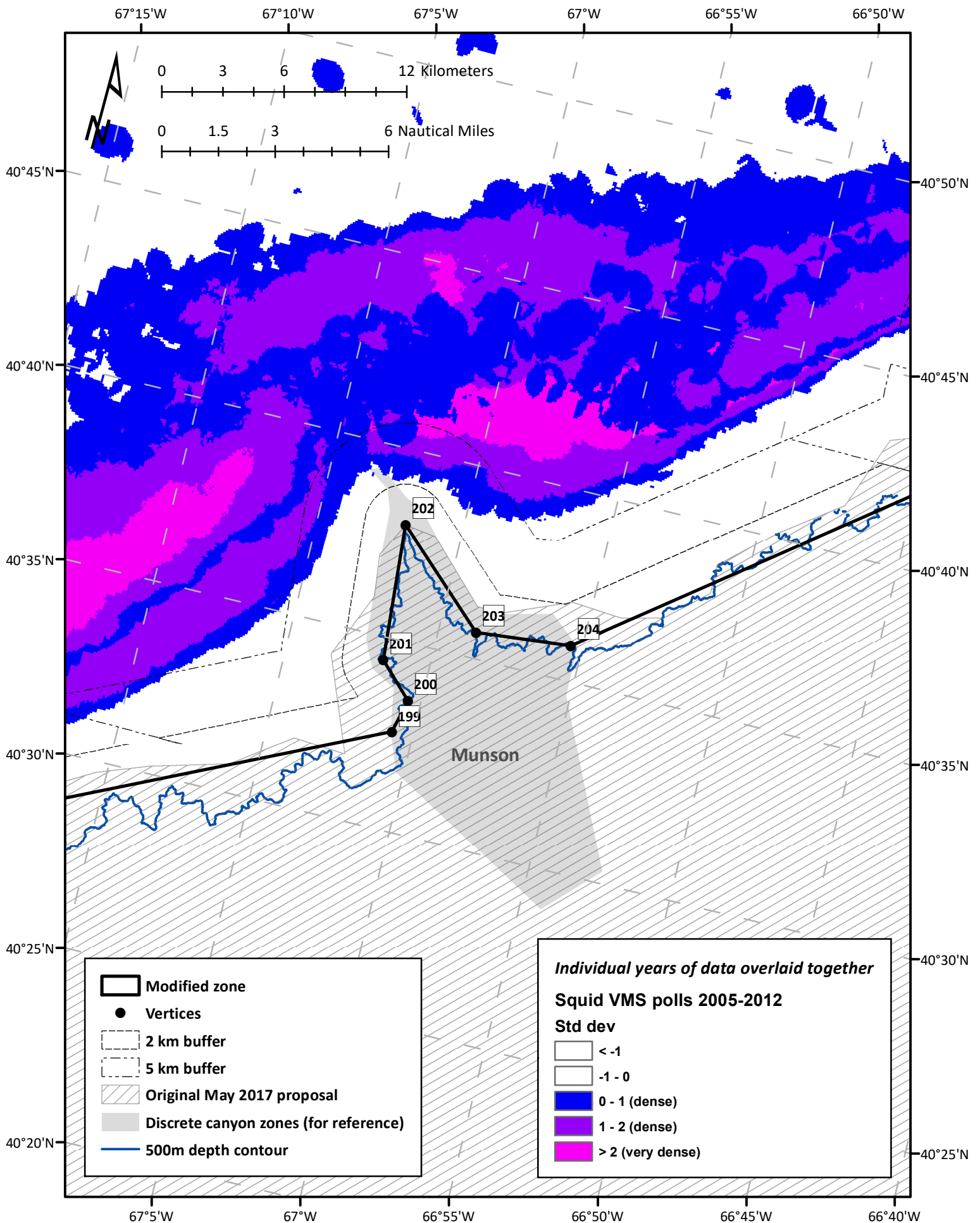




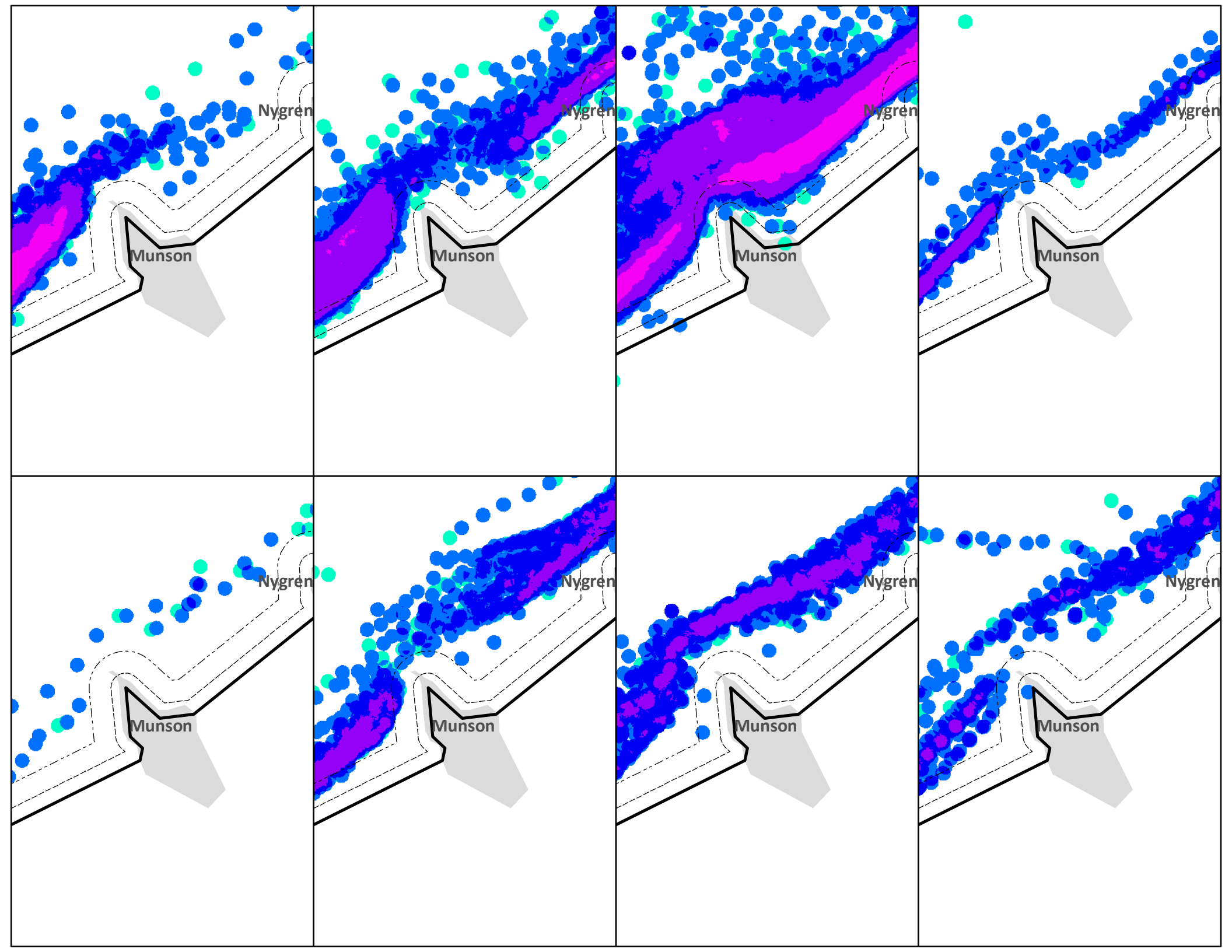


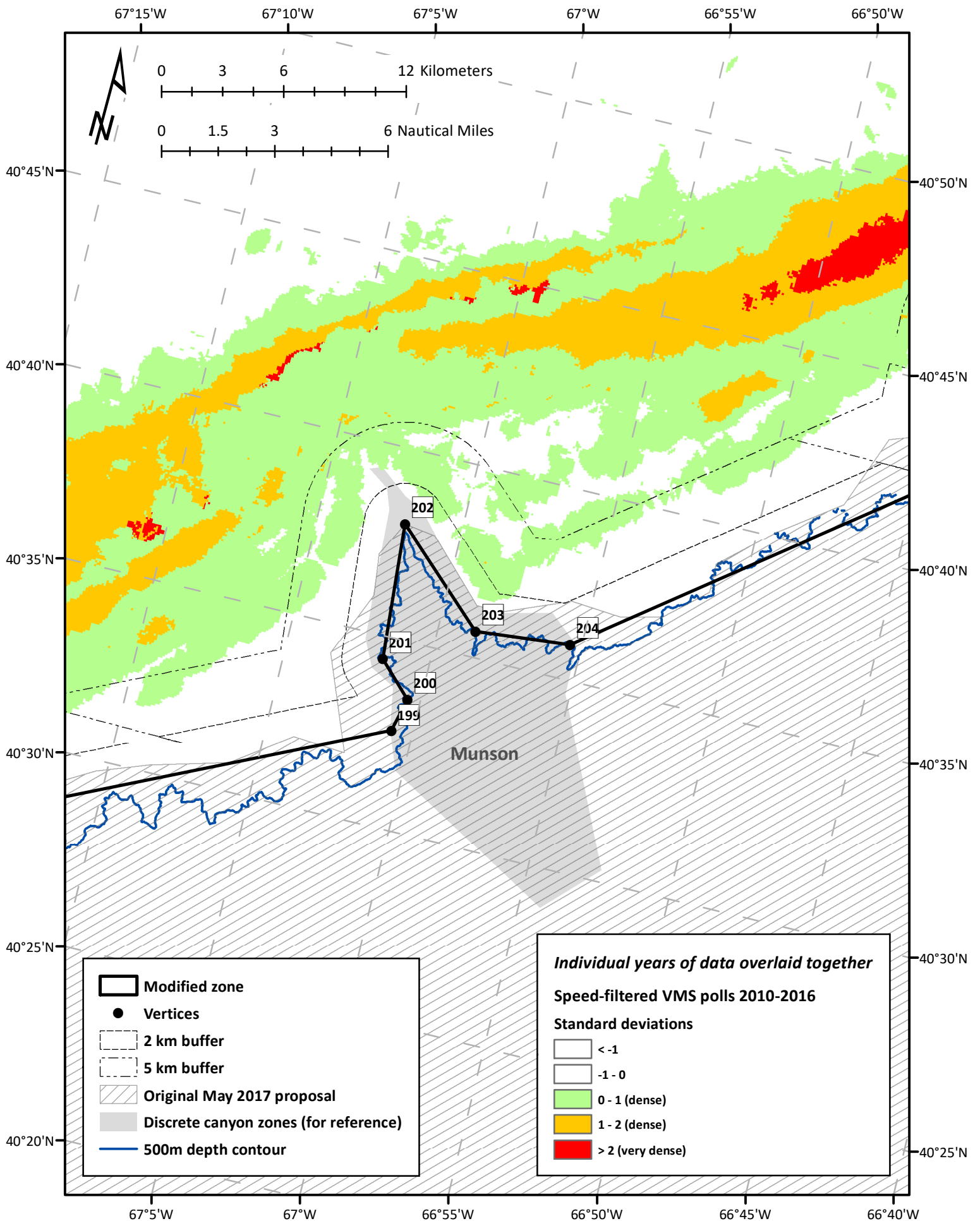


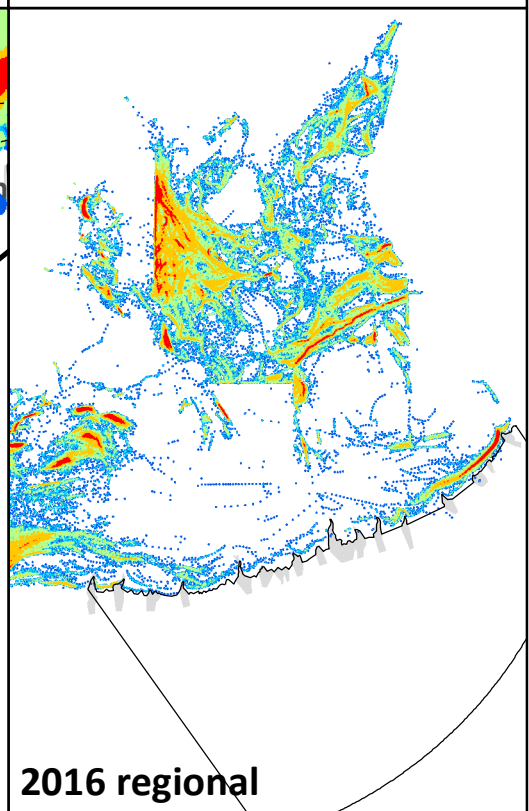
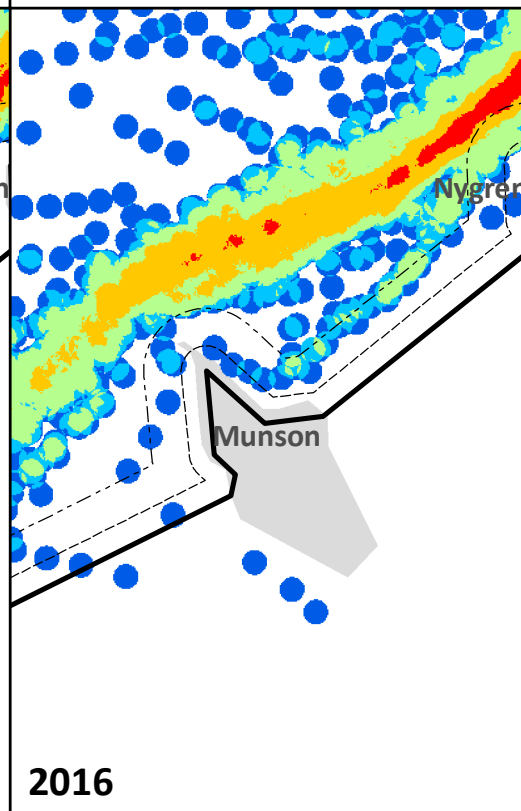
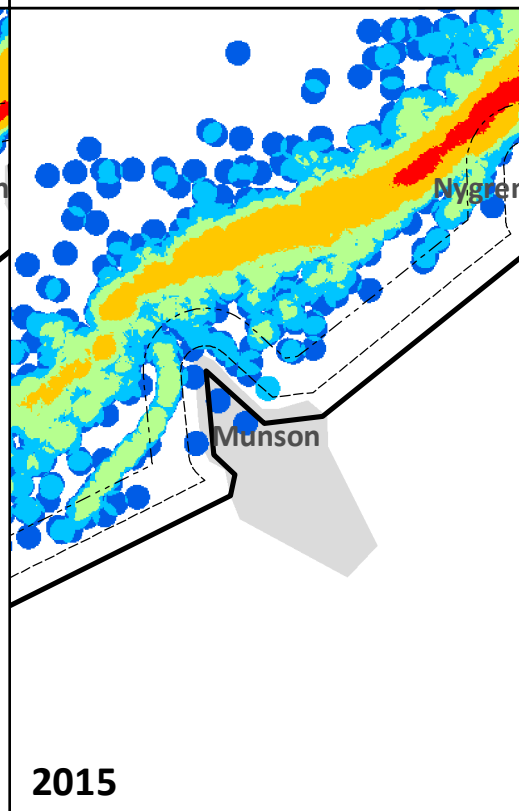
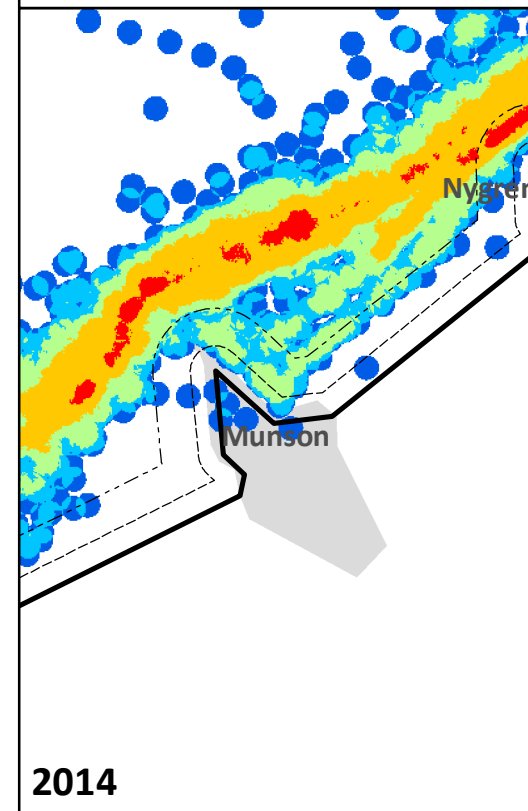
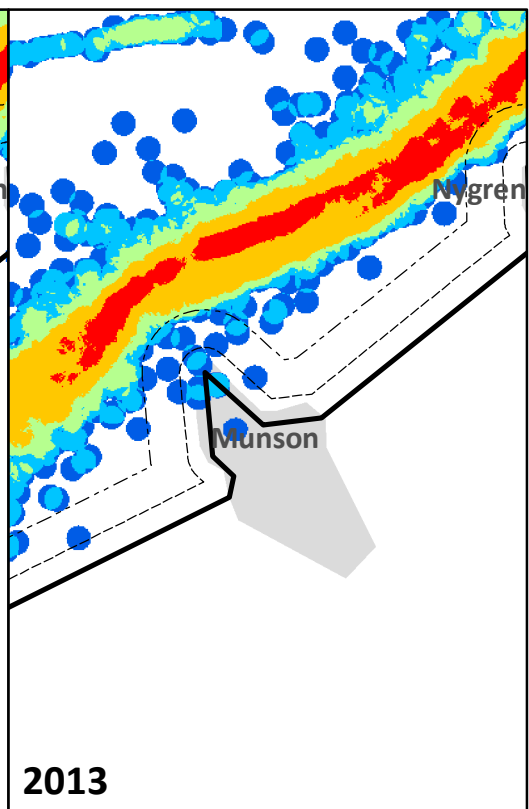
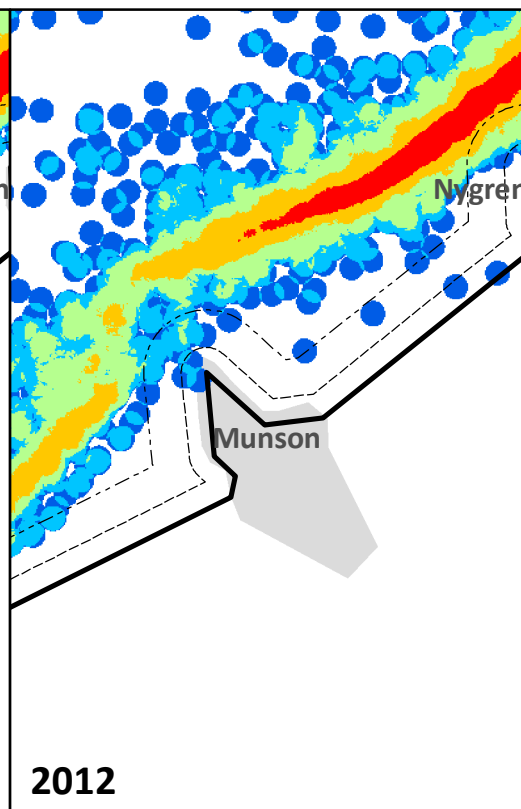
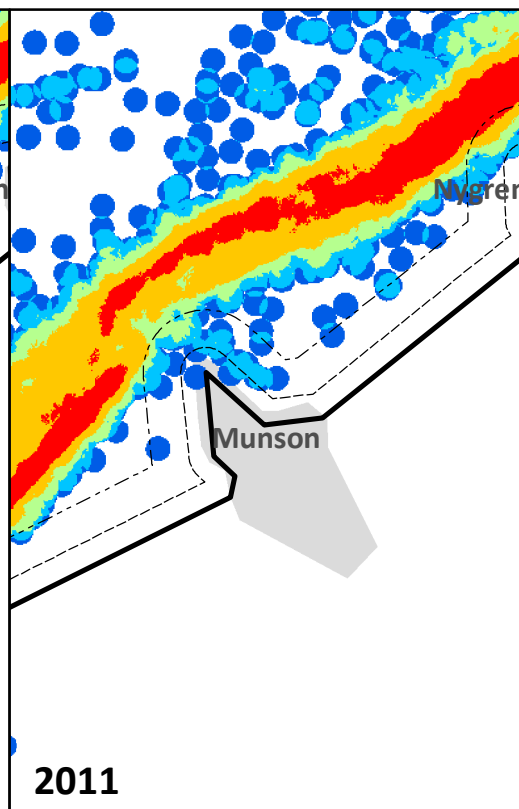
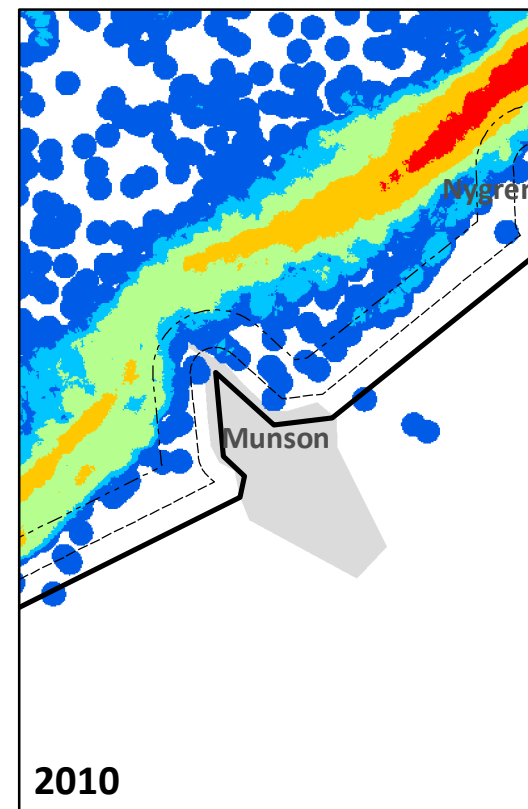


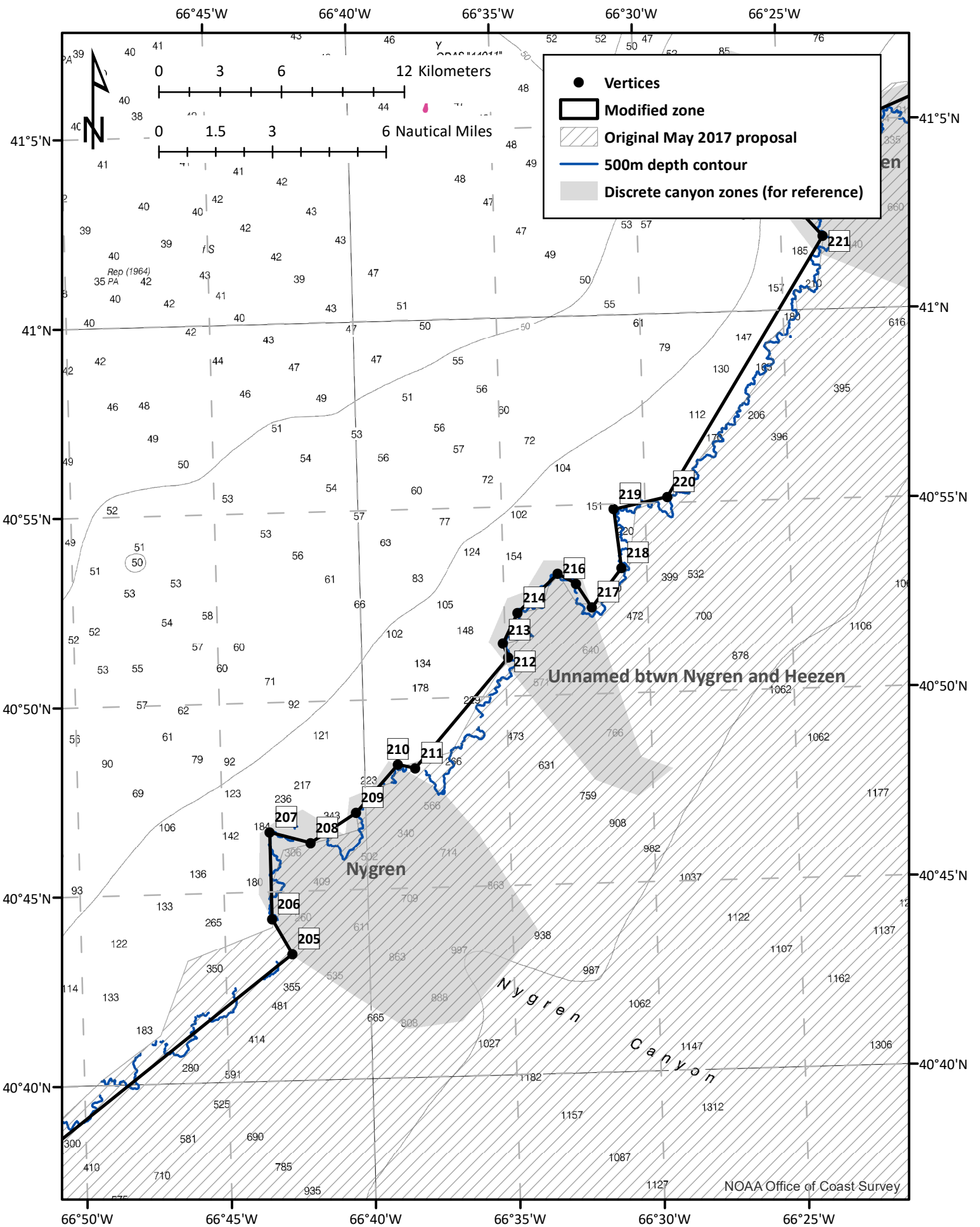




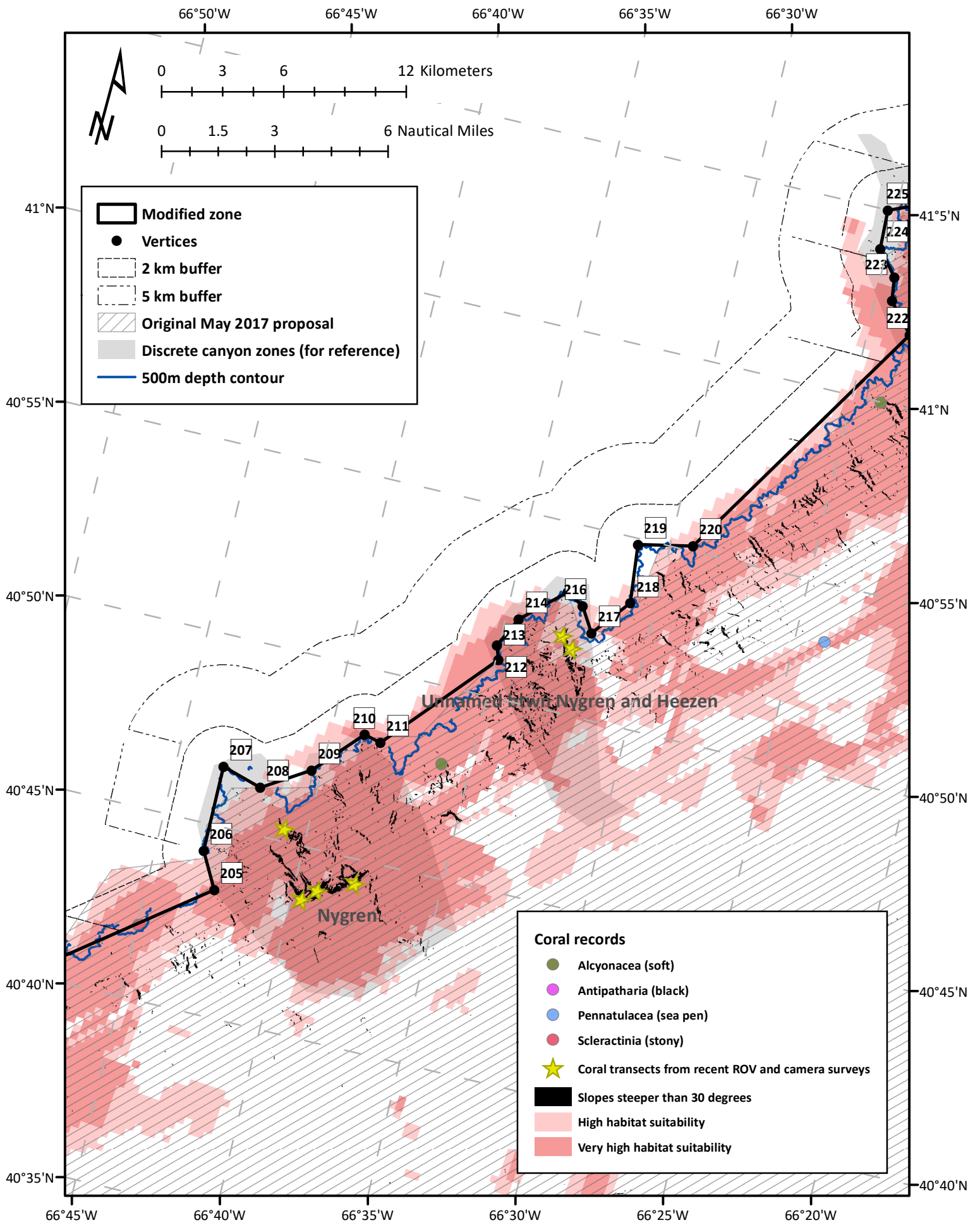




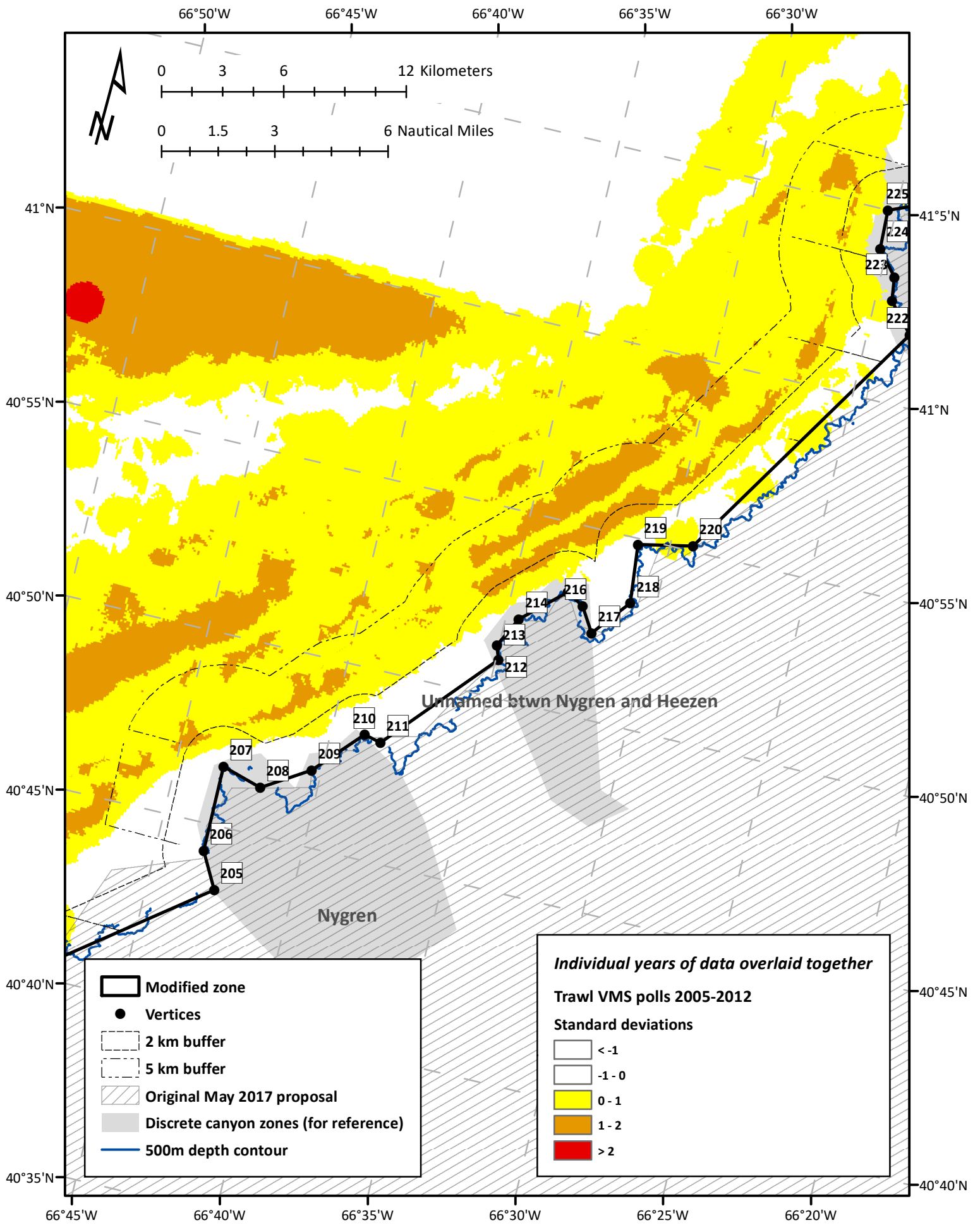


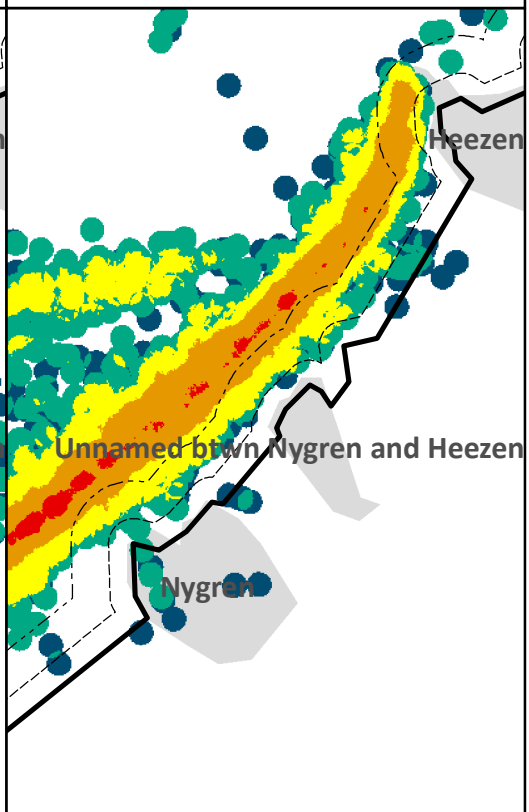
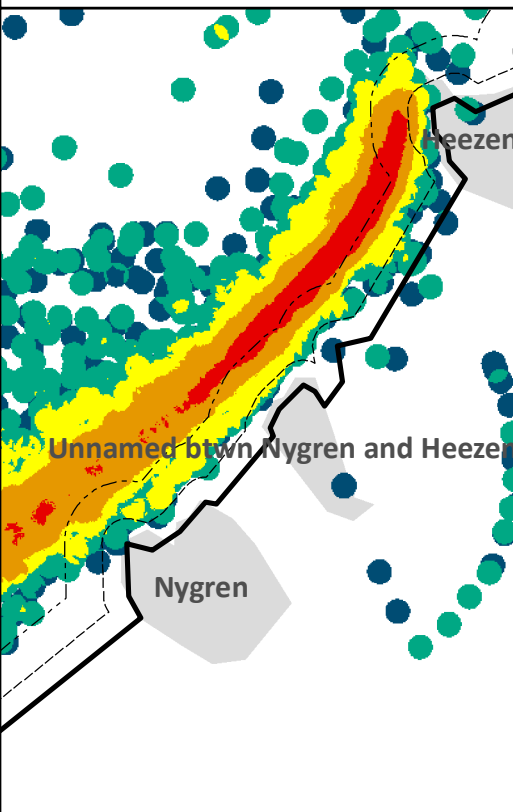
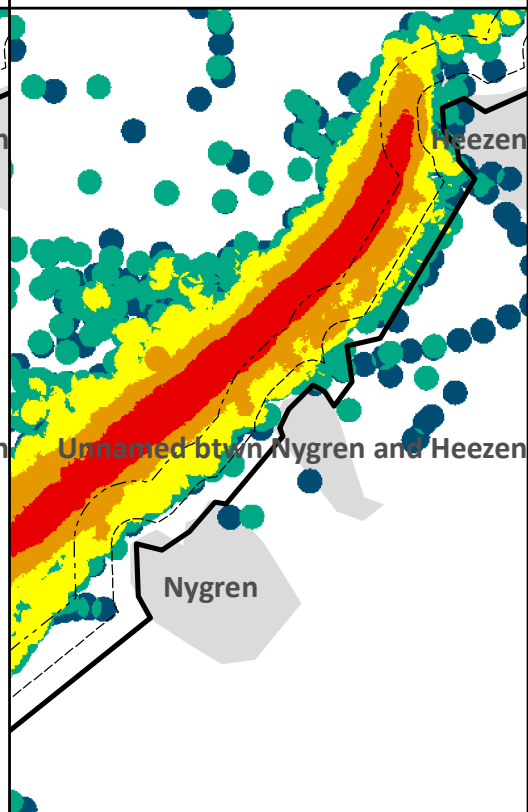
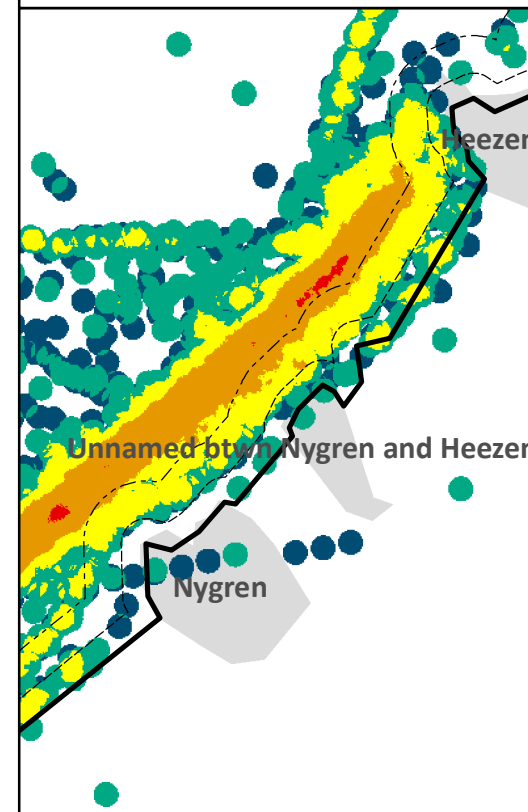
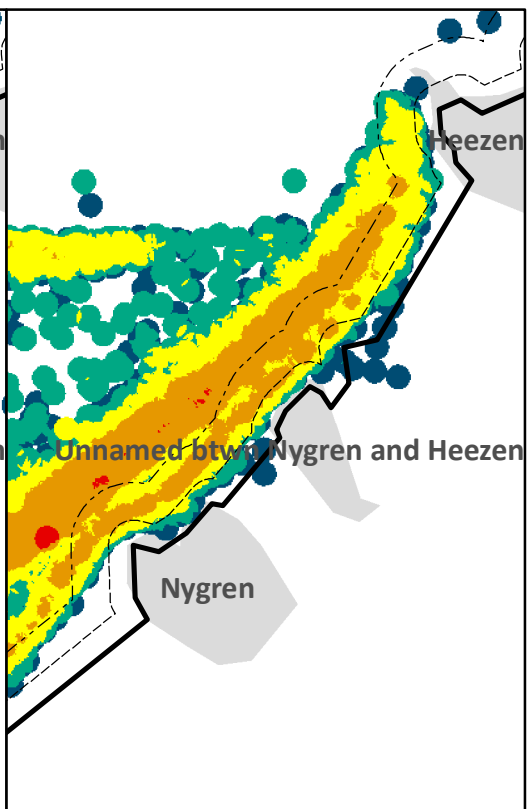
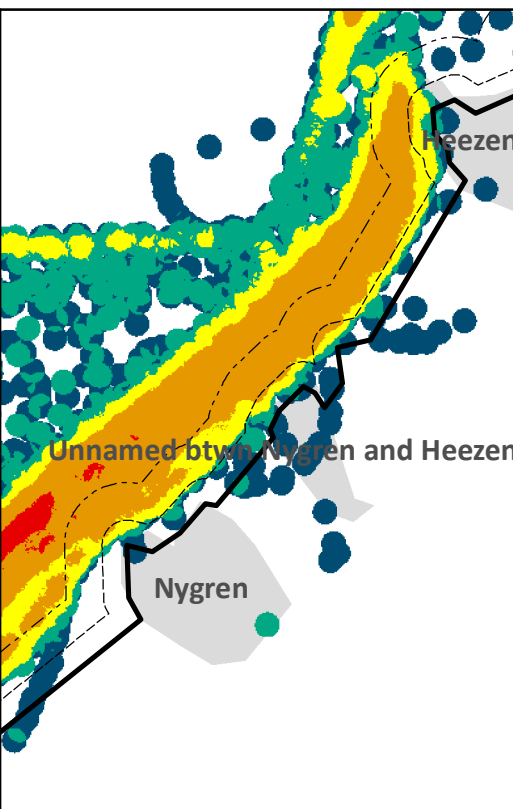
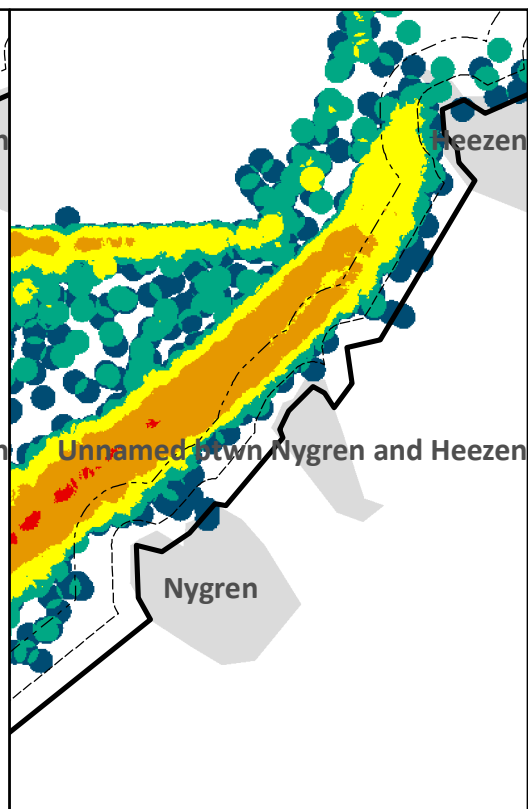
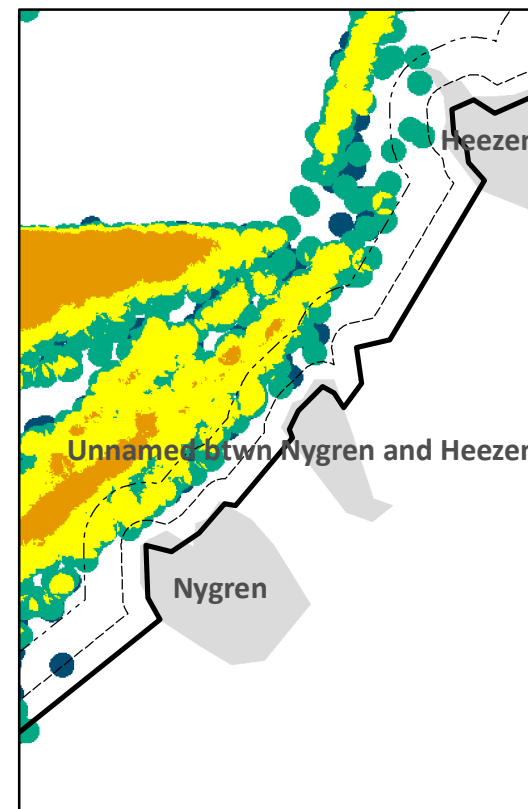


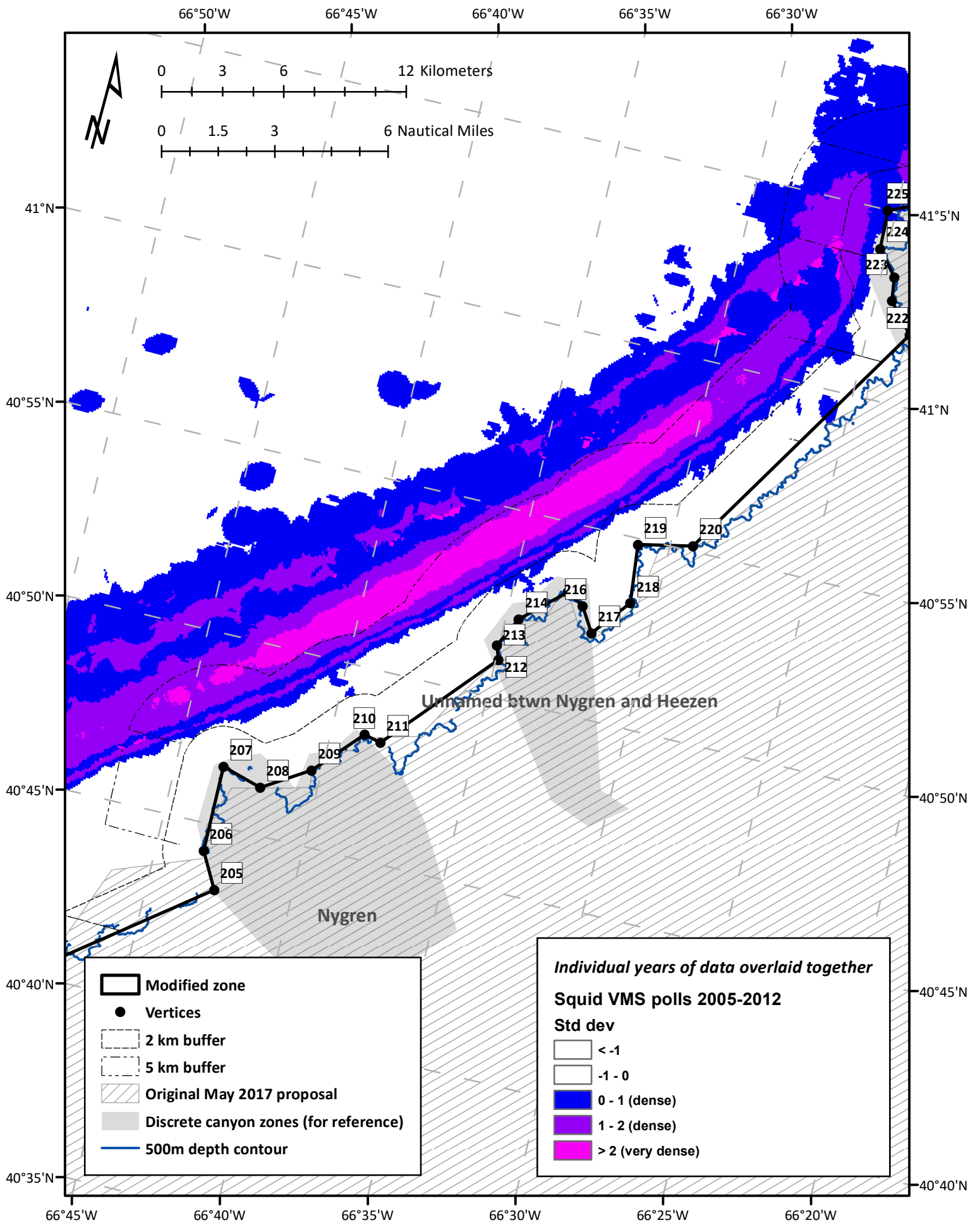


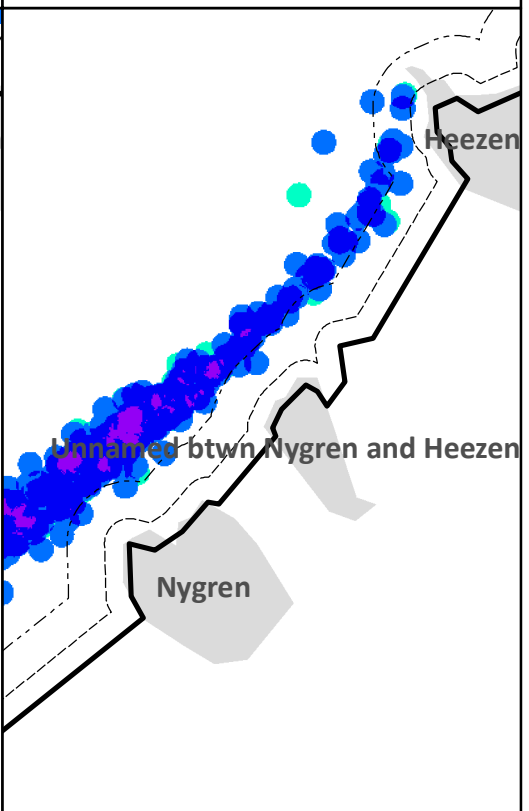
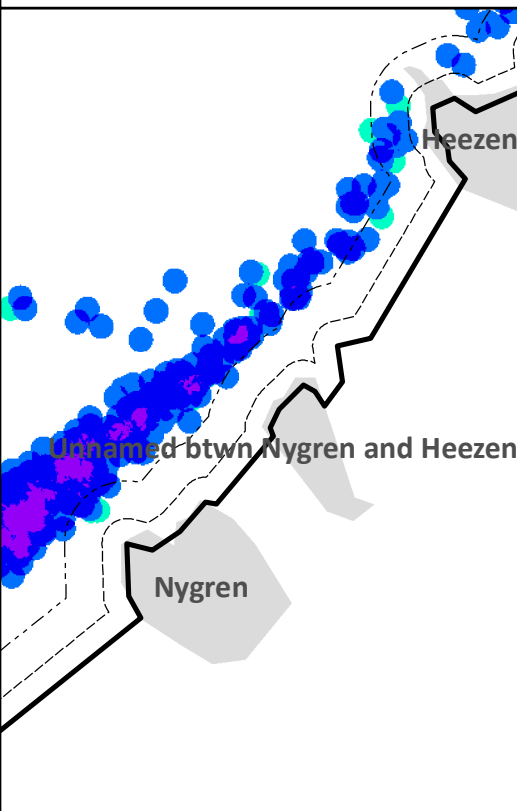
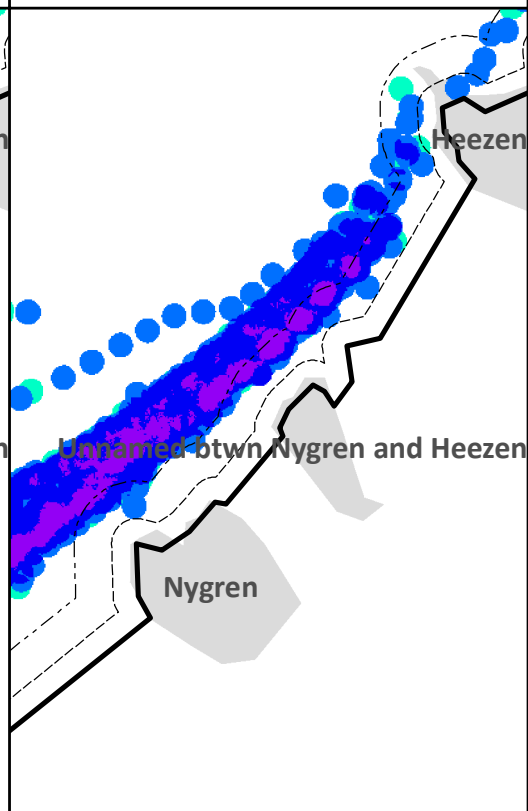
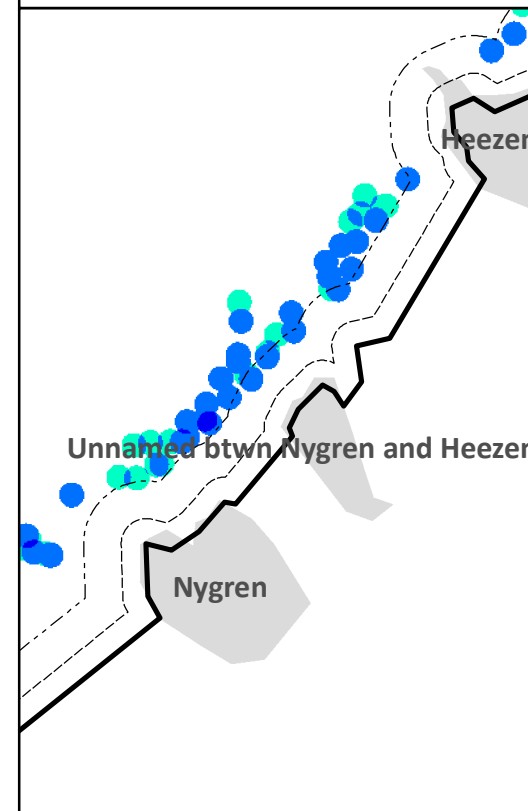
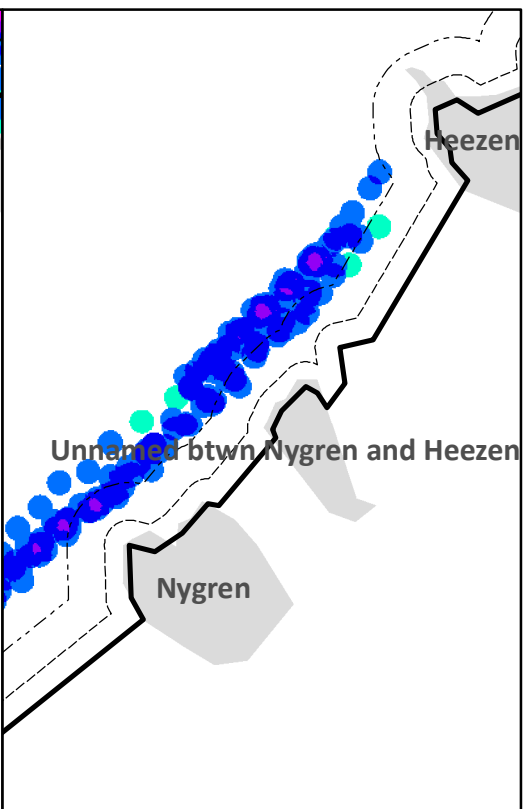
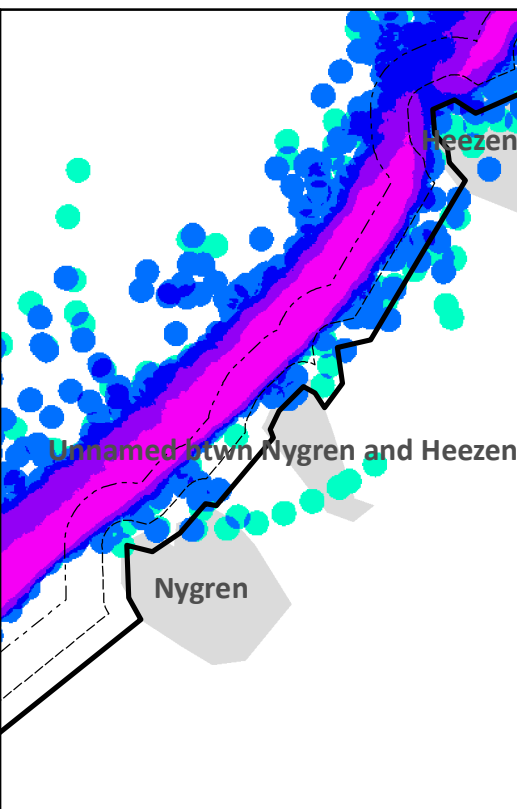
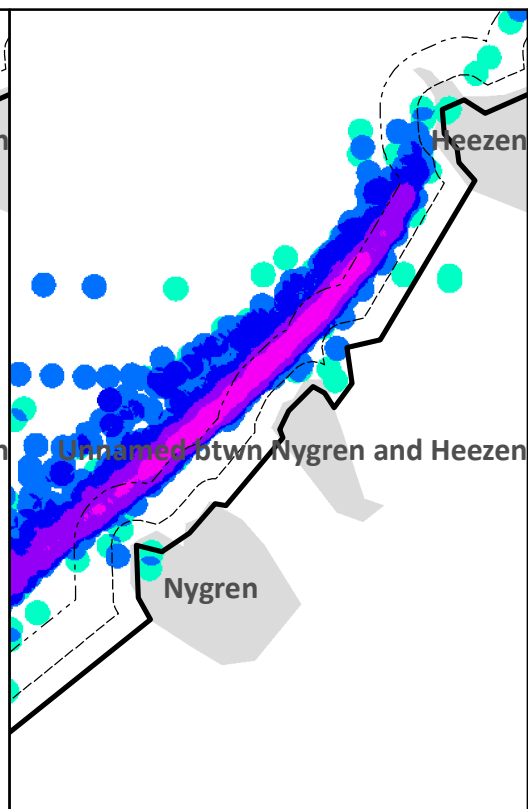
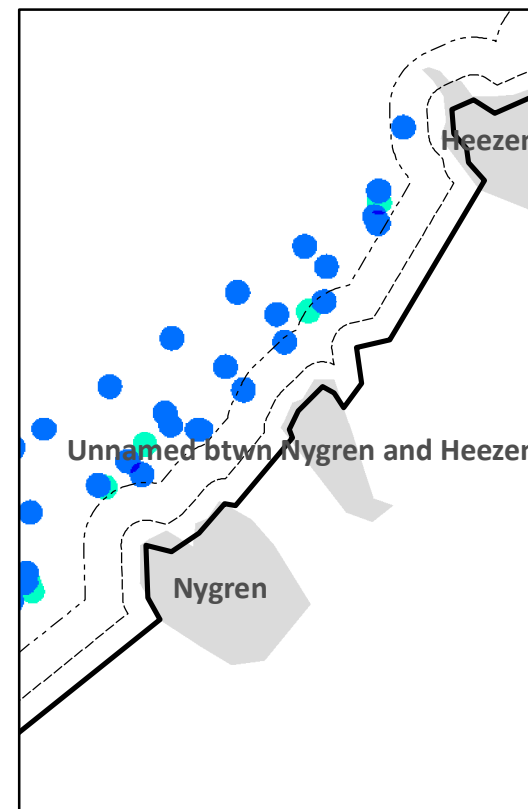




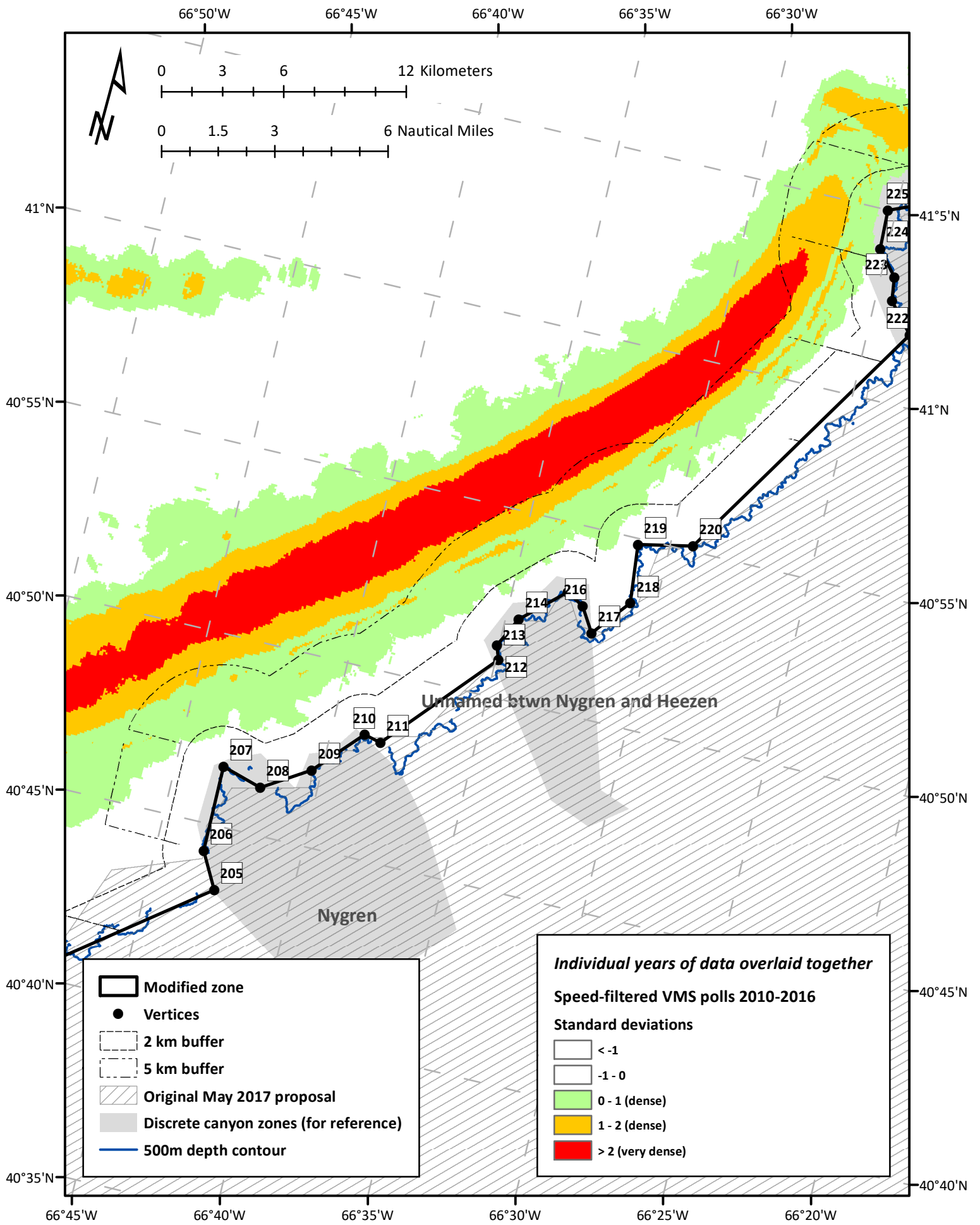




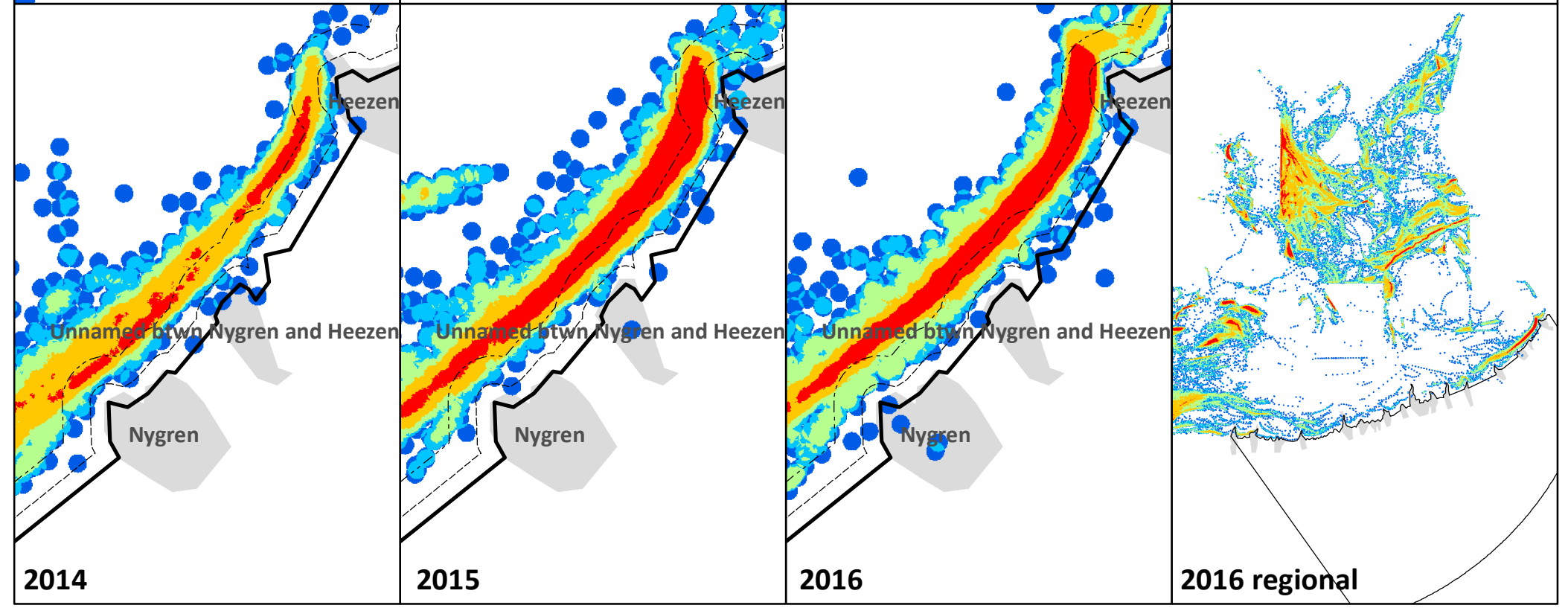
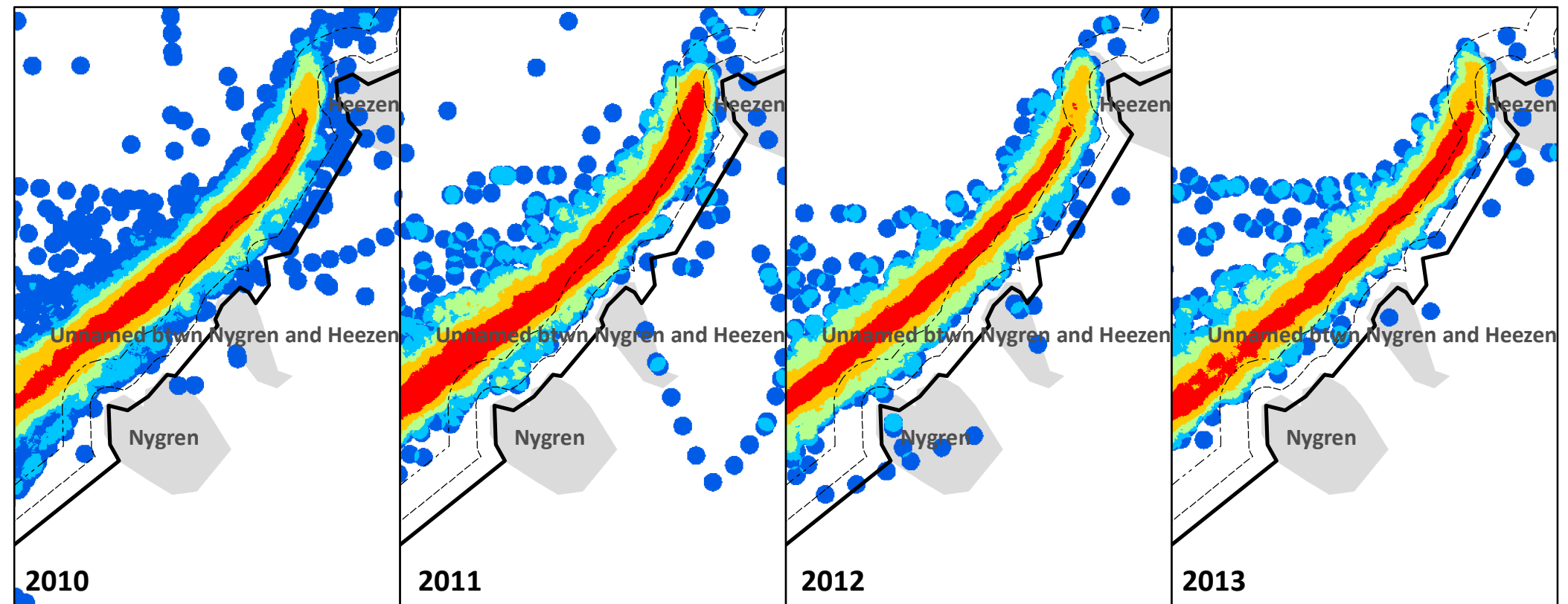


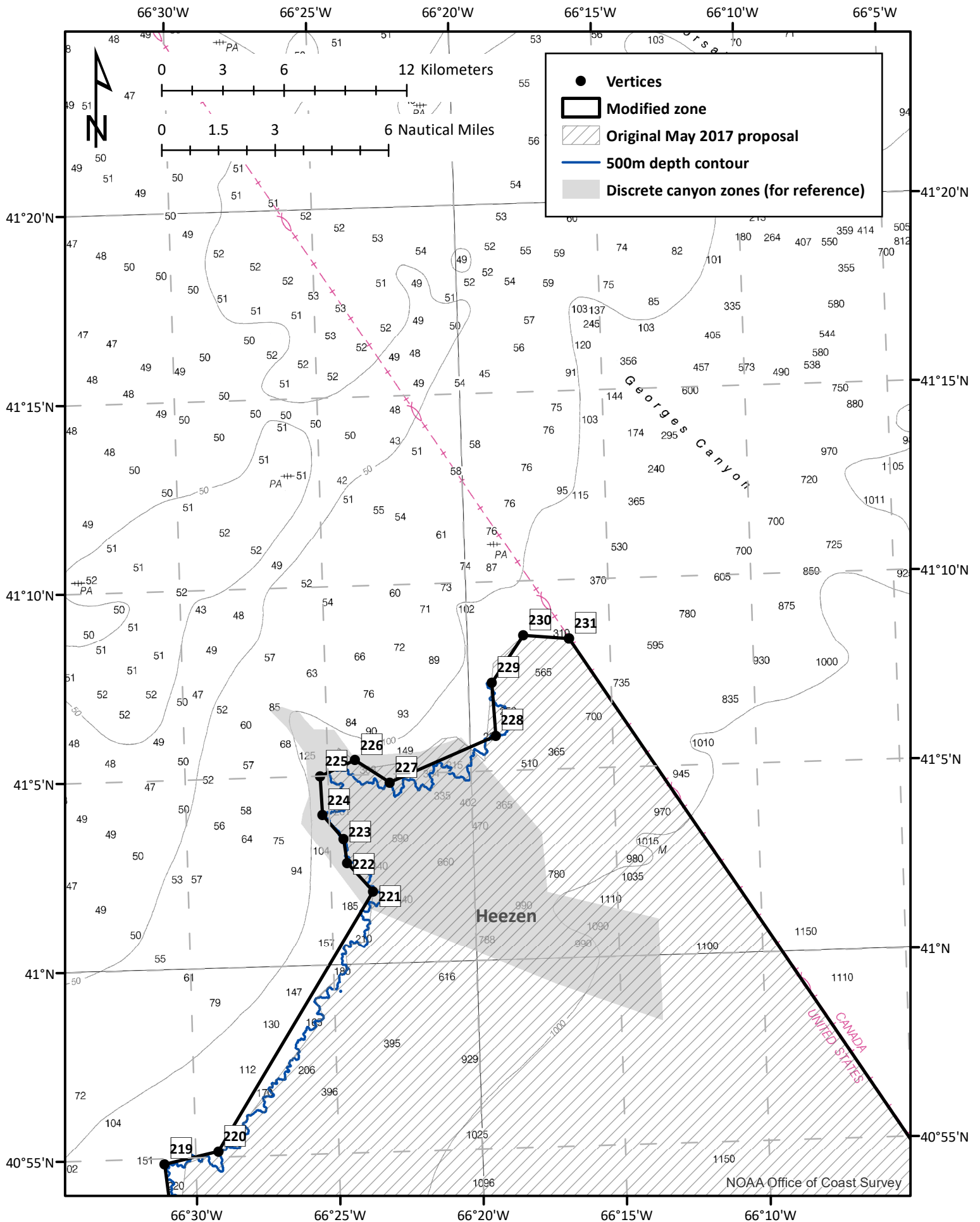


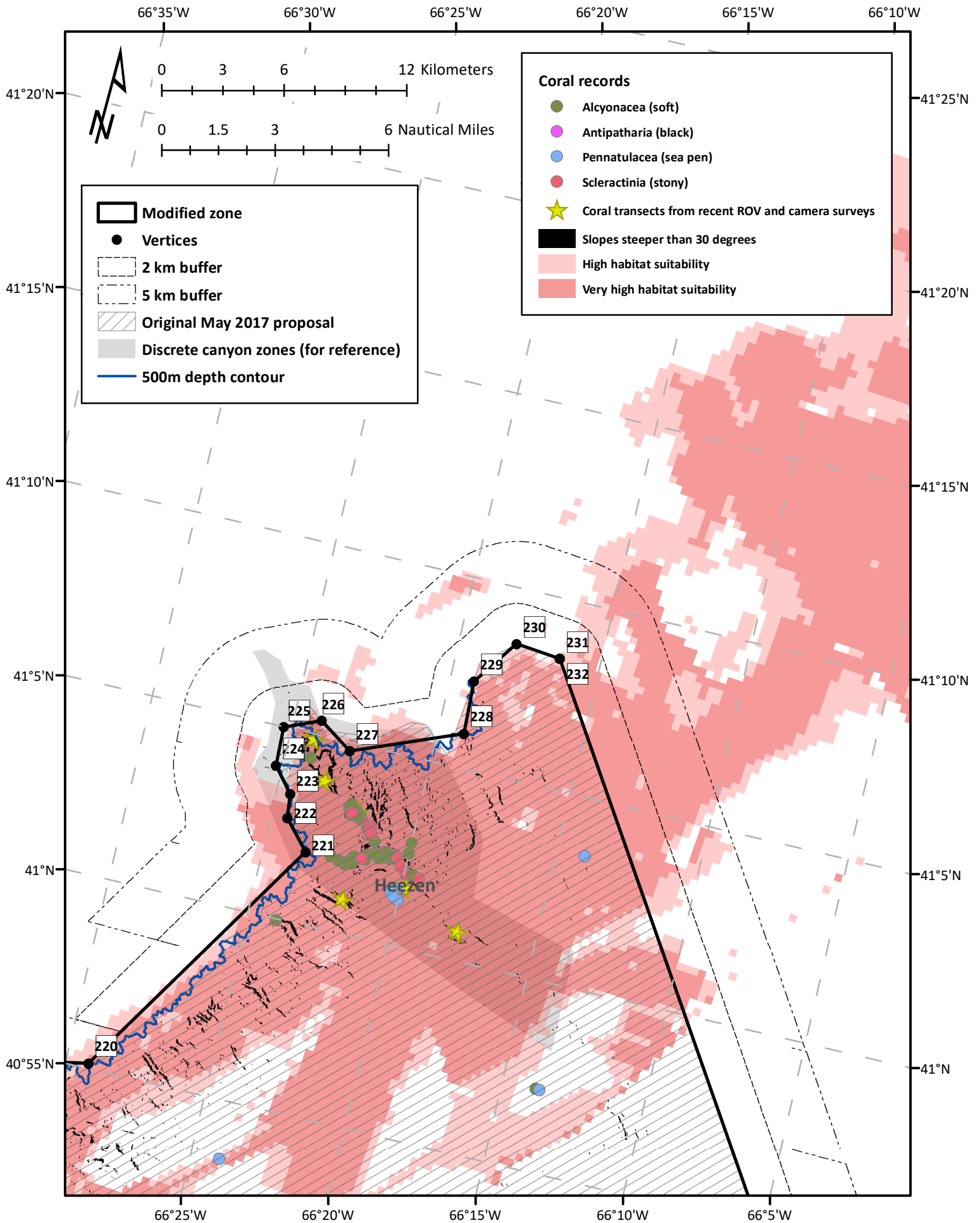


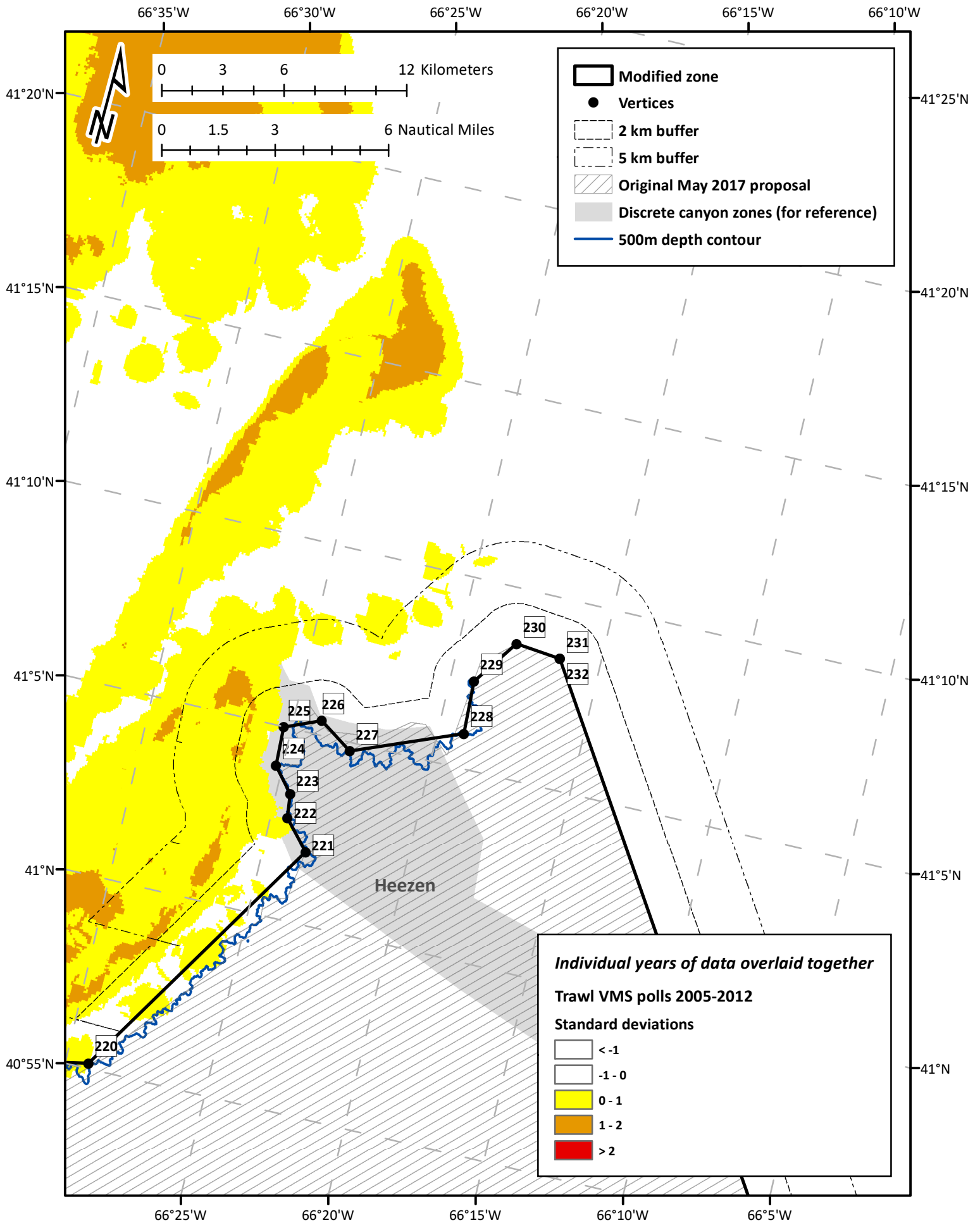


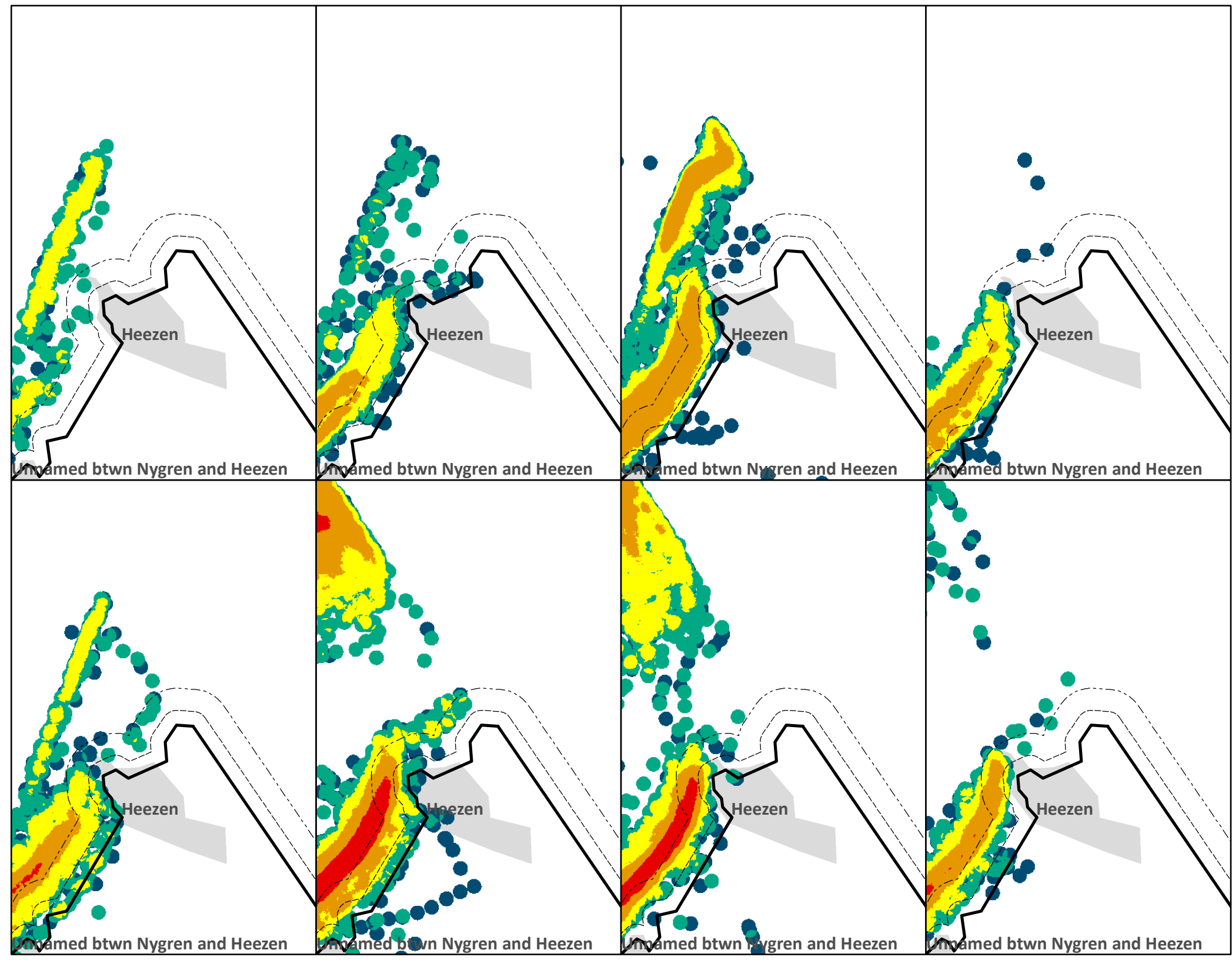




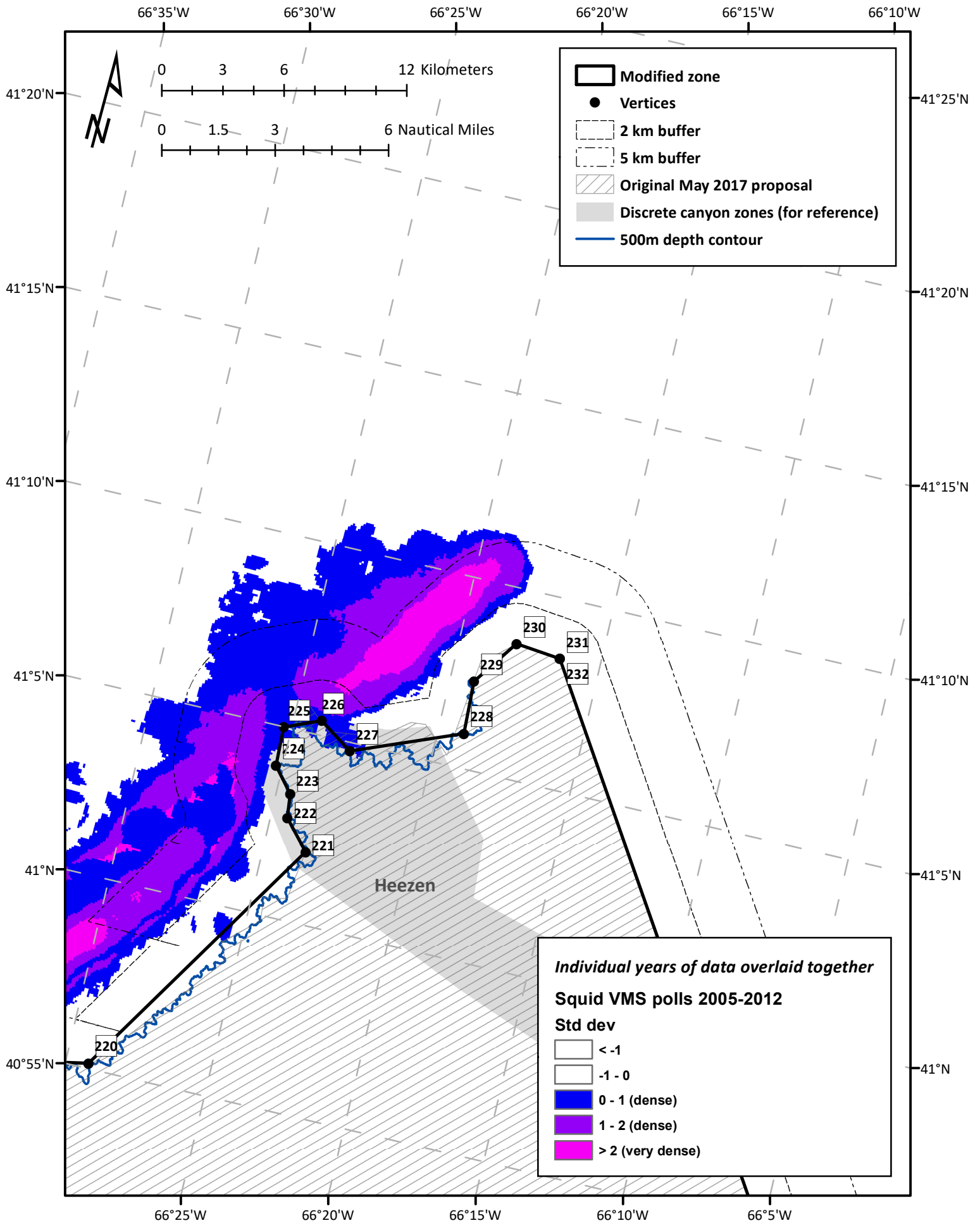


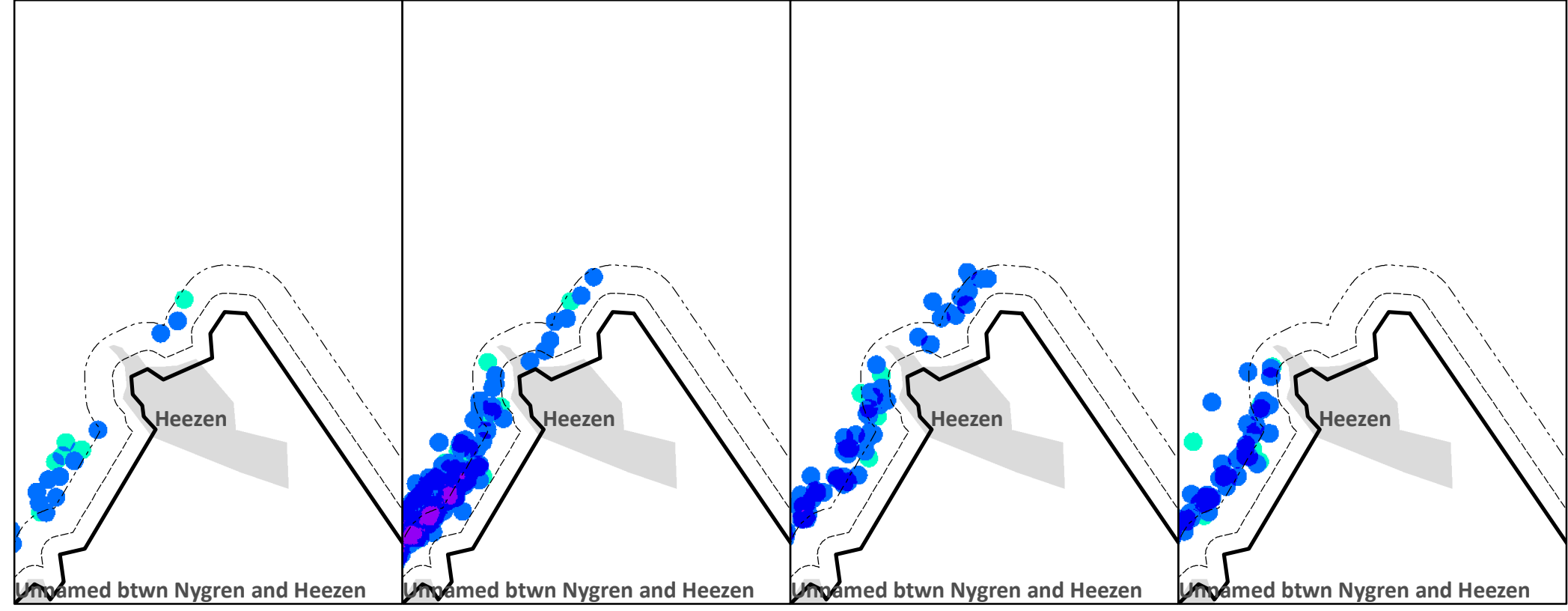
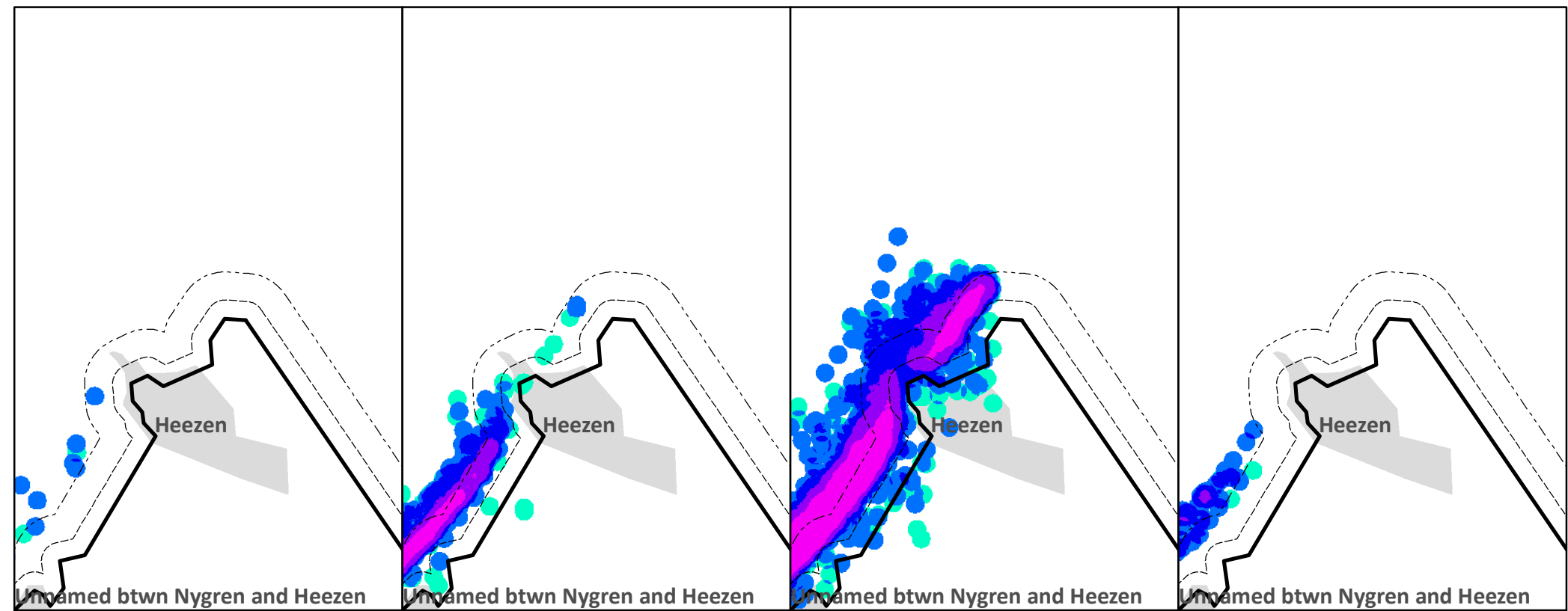


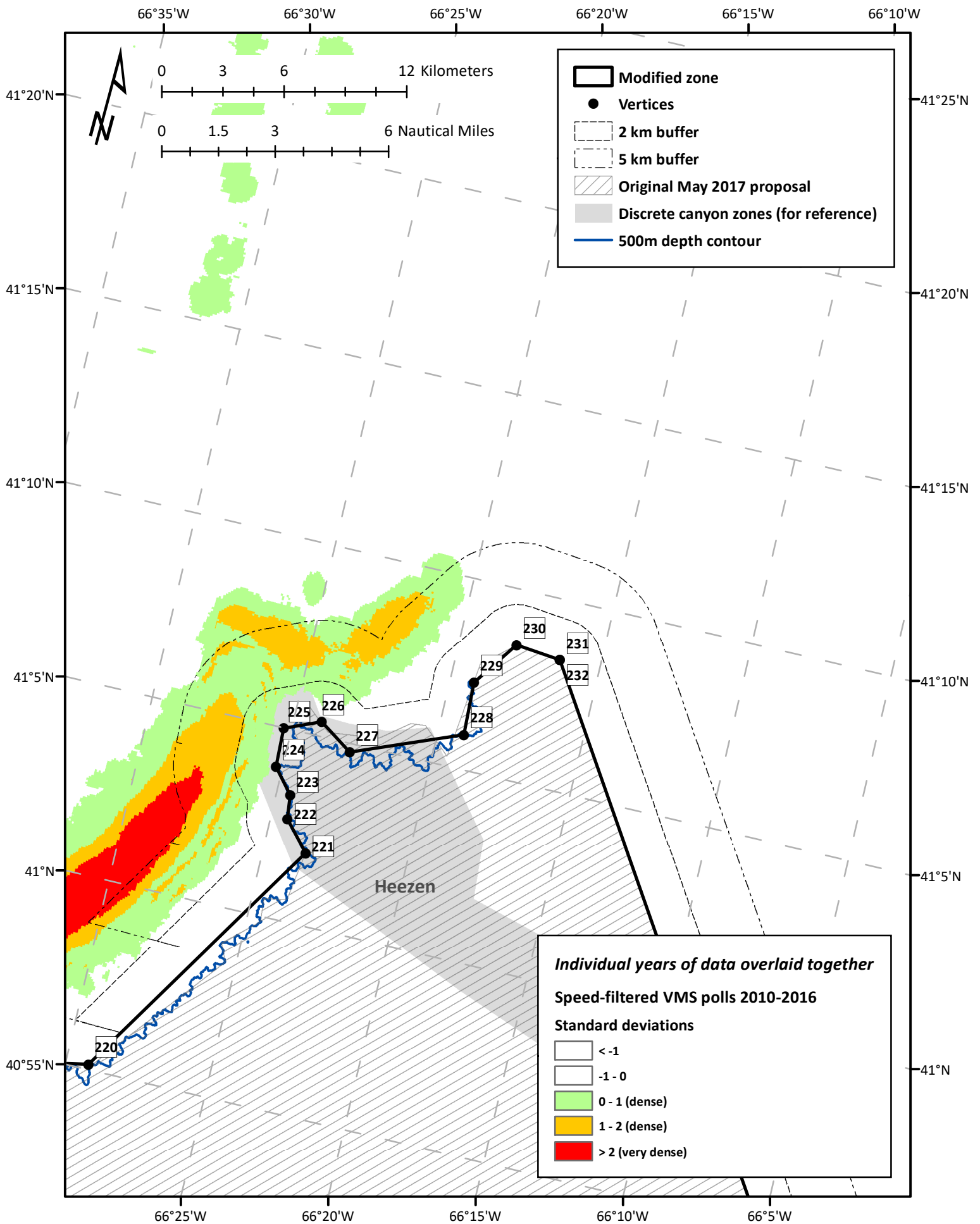










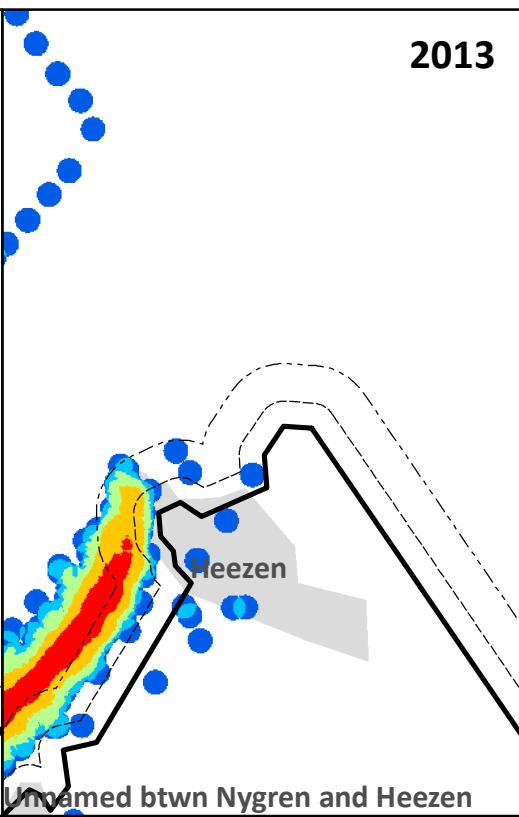
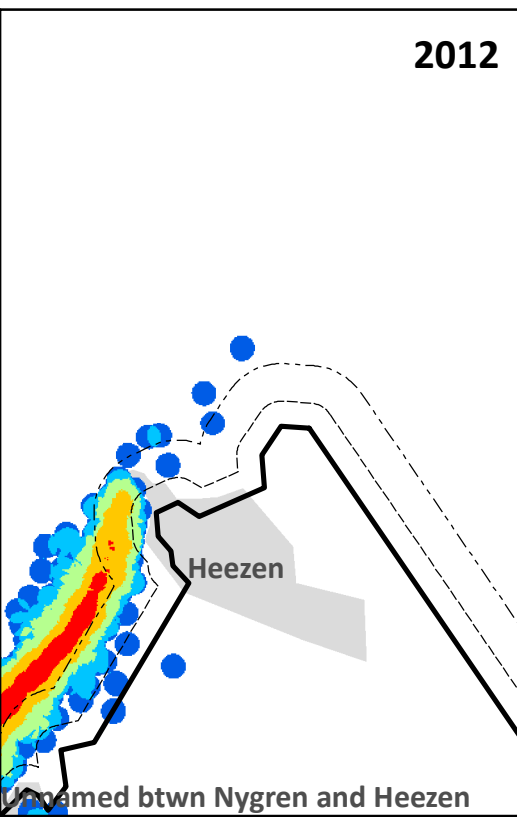
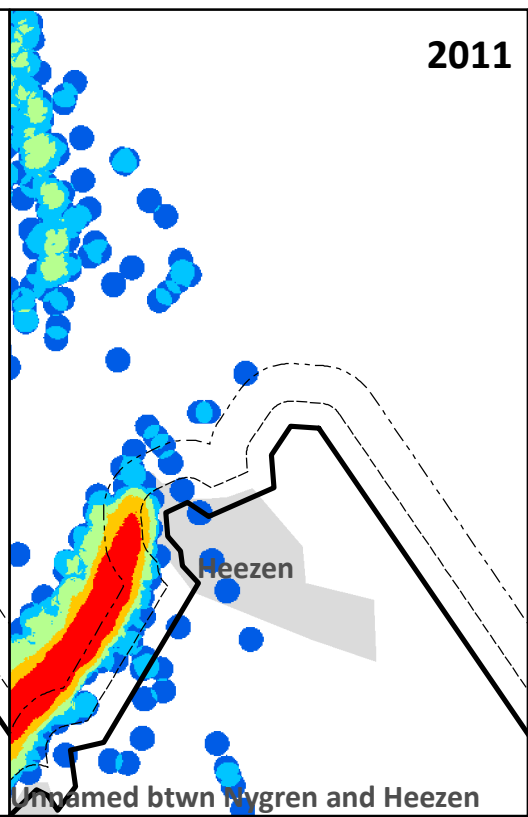
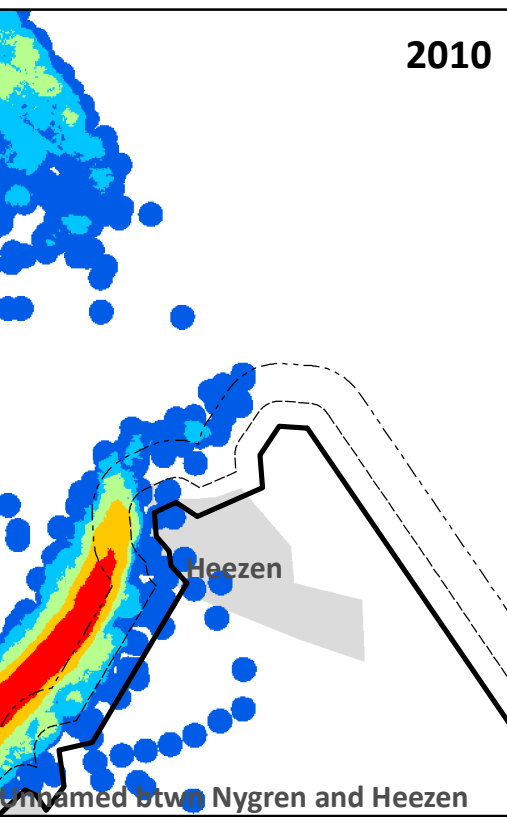


2010

2011

2012

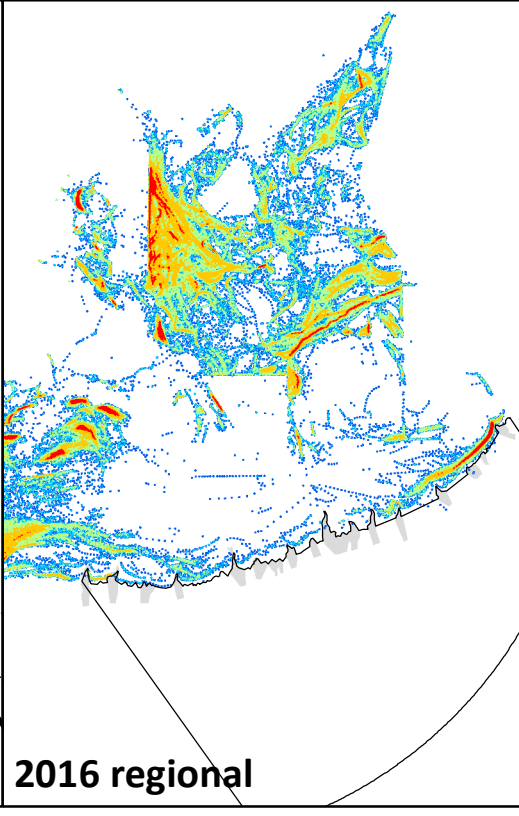
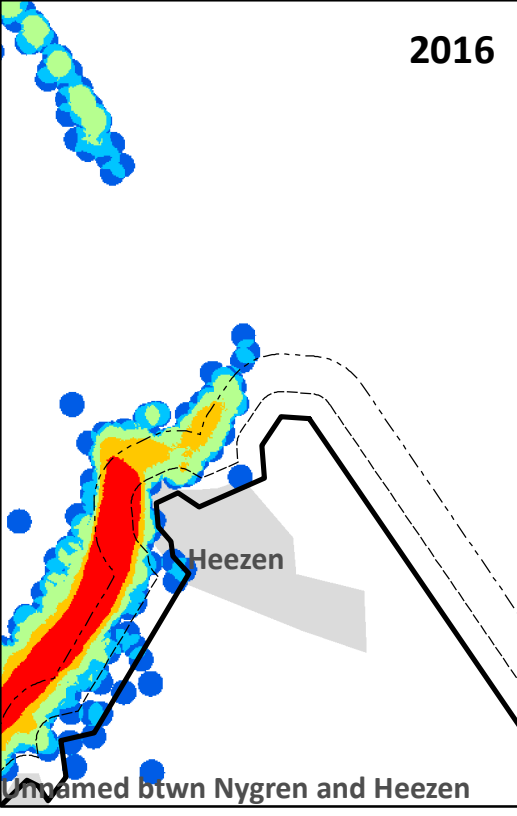
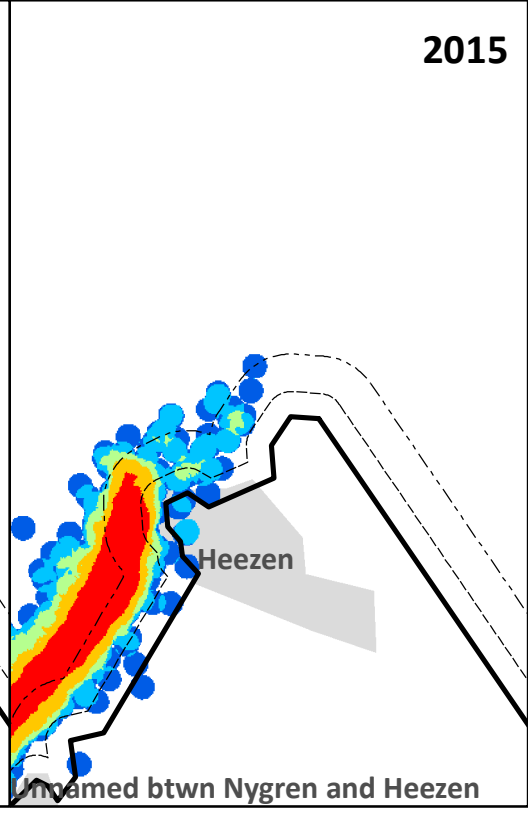
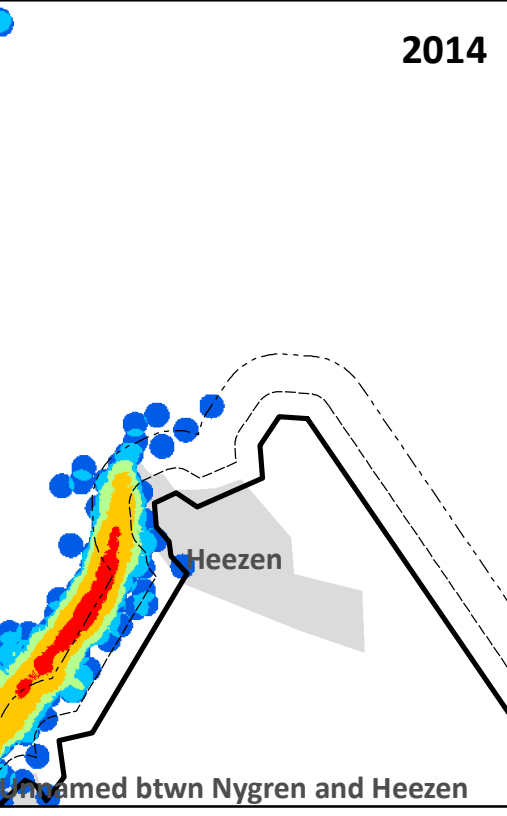
2013



2014

2015

2016



<b>Point</b>	<b>Longitude, decimal degrees</b>	<b>Latitude, decimal degrees</b>	<b>Longitude, degrees, decimal minutes</b>	<b>Latitude, degrees, decimal minutes</b>
2	-70.498783	39.873845	-70° 29.927'	39° 52.431'
3	-70.542885	39.921407	-70° 32.573'	39° 55.284'
4	-70.535134	39.946093	-70° 32.108'	39° 56.766'
5	-70.512985	39.991572	-70° 30.779'	39° 59.494'
6	-70.48816	40.021535	-70° 29.29'	40° 1.292'
7	-70.48266	40.013071	-70° 28.96'	40° 0.784'
8	-70.487059	39.996606	-70° 29.224'	39° 59.796'
9	-70.476937	39.95885	-70° 28.616'	39° 57.531'
10	-70.474015	39.93767	-70° 28.441'	39° 56.26'
11	-70.461234	39.916218	-70° 27.674'	39° 54.973'
12	-70.454233	39.903709	-70° 27.254'	39° 54.223'
13	-70.394461	39.897774	-70° 23.668'	39° 53.866'
14	-70.361348	39.925955	-70° 21.681'	39° 55.557'
15	-70.335059	39.910329	-70° 20.104'	39° 54.62'
16	-70.291754	39.914026	-70° 17.505'	39° 54.842'
17	-70.296863	39.941474	-70° 17.812'	39° 56.488'
18	-70.296069	39.952436	-70° 17.764'	39° 57.146'
19	-70.286145	39.960062	-70° 17.169'	39° 57.604'
20	-70.265808	39.966644	-70° 15.948'	39° 57.999'
21	-70.24811	39.964894	-70° 14.887'	39° 57.894'
22	-70.214302	39.986084	-70° 12.858'	39° 59.165'
23	-70.193702	40.002362	-70° 11.622'	40° 0.142'
24	-70.188833	39.999588	-70° 11.33'	39° 59.975'
25	-70.193385	39.984183	-70° 11.603'	39° 59.051'
26	-70.201358	39.967683	-70° 12.081'	39° 58.061'
27	-70.218814	39.942963	-70° 13.129'	39° 56.578'
28	-70.207848	39.93231	-70° 12.471'	39° 55.939'
29	-70.154634	39.900459	-70° 9.278'	39° 54.028'
30	-70.11576	39.920383	-70° 6.946'	39° 55.223'
31	-70.087195	39.892768	-70° 5.232'	39° 53.566'
32	-70.051704	39.89086	-70° 3.102'	39° 53.452'
33	-70.011864	39.916541	-70° 0.712'	39° 54.992'
34	-69.988006	39.881736	-69° 59.28'	39° 52.904'
35	-69.965933	39.882411	-69° 57.956'	39° 52.945'
36	-69.943492	39.898385	-69° 56.61'	39° 53.903'
37	-69.938236	39.9198	-69° 56.294'	39° 55.188'
38	-69.930196	39.925705	-69° 55.812'	39° 55.542'
39	-69.91754	39.91232	-69° 55.052'	39° 54.739'
40	-69.908565	39.892238	-69° 54.514'	39° 53.534'
41	-69.889476	39.907826	-69° 53.369'	39° 54.47'
42	-69.86698	39.910278	-69° 52.019'	39° 54.617'
43	-69.854466	39.895866	-69° 51.268'	39° 53.752'



<b>Point</b>	<b>Longitude, decimal degrees</b>	<b>Latitude, decimal degrees</b>	<b>Longitude, degrees, decimal minutes</b>	<b>Latitude, degrees, decimal minutes</b>
44	-69.841369	39.901481	-69° 50.482'	39° 54.089'
45	-69.822884	39.888777	-69° 49.373'	39° 53.327'
46	-69.774555	39.879299	-69° 46.473'	39° 52.758'
47	-69.717222	39.878798	-69° 43.033'	39° 52.728'
48	-69.66966	39.886178	-69° 40.18'	39° 53.171'
49	-69.648739	39.905286	-69° 38.924'	39° 54.317'
50	-69.633818	39.925924	-69° 38.029'	39° 55.555'
51	-69.628828	39.931776	-69° 37.73'	39° 55.907'
52	-69.627768	39.941315	-69° 37.666'	39° 56.479'
53	-69.621476	39.955649	-69° 37.289'	39° 57.339'
54	-69.620202	39.966954	-69° 37.212'	39° 58.017'
55	-69.615262	39.978984	-69° 36.916'	39° 58.739'
56	-69.605932	39.98786	-69° 36.356'	39° 59.272'
57	-69.600119	39.97924	-69° 36.007'	39° 58.754'
58	-69.603862	39.961214	-69° 36.232'	39° 57.673'
59	-69.601402	39.94328	-69° 36.084'	39° 56.597'
60	-69.592775	39.929205	-69° 35.567'	39° 55.752'
61	-69.570714	39.914323	-69° 34.243'	39° 54.859'
62	-69.549845	39.89032	-69° 32.991'	39° 53.419'
63	-69.538021	39.902752	-69° 32.281'	39° 54.165'
64	-69.528415	39.905444	-69° 31.705'	39° 54.327'
65	-69.502935	39.898839	-69° 30.176'	39° 53.93'
66	-69.45375	39.915948	-69° 27.225'	39° 54.957'
67	-69.447917	39.899427	-69° 26.875'	39° 53.966'
68	-69.433746	39.905837	-69° 26.025'	39° 54.35'
69	-69.418022	39.900284	-69° 25.081'	39° 54.017'
70	-69.400843	39.91642	-69° 24.051'	39° 54.985'
71	-69.386115	39.914479	-69° 23.167'	39° 54.869'
72	-69.382862	39.906722	-69° 22.972'	39° 54.403'
73	-69.352994	39.920733	-69° 21.18'	39° 55.244'
74	-69.321282	39.924563	-69° 19.277'	39° 55.474'
75	-69.308906	39.936867	-69° 18.534'	39° 56.212'
76	-69.291492	39.932545	-69° 17.49'	39° 55.953'
77	-69.267223	39.938293	-69° 16.033'	39° 56.298'
78	-69.259882	39.951466	-69° 15.593'	39° 57.088'
79	-69.240848	39.966474	-69° 14.451'	39° 57.988'
80	-69.221684	39.969284	-69° 13.301'	39° 58.157'
81	-69.20011	39.967028	-69° 12.007'	39° 58.022'
82	-69.186475	39.971726	-69° 11.189'	39° 58.304'
83	-69.183098	39.994577	-69° 10.986'	39° 59.675'
84	-69.171981	40.00344	-69° 10.319'	40° 0.206'
85	-69.155502	40.006526	-69° 9.33'	40° 0.392'

<b>Point</b>	<b>Longitude, decimal degrees</b>	<b>Latitude, decimal degrees</b>	<b>Longitude, degrees, decimal minutes</b>	<b>Latitude, degrees, decimal minutes</b>
86	-69.10641	39.972075	-69° 6.385'	39° 58.325'
87	-69.08392	39.998452	-69° 5.035'	39° 59.907'
88	-69.062966	40.029324	-69° 3.778'	40° 1.759'
89	-69.06431	40.048644	-69° 3.859'	40° 2.919'
90	-69.054022	40.063491	-69° 3.241'	40° 3.809'
91	-69.059773	40.084498	-69° 3.586'	40° 5.07'
92	-69.057265	40.106117	-69° 3.436'	40° 6.367'
93	-69.052584	40.120531	-69° 3.155'	40° 7.232'
94	-69.049732	40.147432	-69° 2.984'	40° 8.846'
95	-69.044505	40.147082	-69° 2.67'	40° 8.825'
96	-69.038514	40.137165	-69° 2.311'	40° 8.23'
97	-69.037119	40.123417	-69° 2.227'	40° 7.405'
98	-69.041503	40.105745	-69° 2.49'	40° 6.345'
99	-69.035638	40.092253	-69° 2.138'	40° 5.535'
100	-69.031627	40.080075	-69° 1.898'	40° 4.805'
101	-69.02116	40.067051	-69° 1.27'	40° 4.023'
102	-69.019798	40.047523	-69° 1.188'	40° 2.851'
103	-68.996271	40.034626	-68° 59.776'	40° 2.078'
104	-68.941735	40.018969	-68° 56.504'	40° 1.138'
105	-68.905526	40.034809	-68° 54.332'	40° 2.089'
106	-68.884903	40.025516	-68° 53.094'	40° 1.531'
107	-68.866569	40.056275	-68° 51.994'	40° 3.377'
108	-68.854985	40.061603	-68° 51.299'	40° 3.696'
109	-68.842912	40.063052	-68° 50.575'	40° 3.783'
110	-68.845811	40.083025	-68° 50.749'	40° 4.982'
111	-68.829568	40.085774	-68° 49.774'	40° 5.146'
112	-68.826273	40.104338	-68° 49.576'	40° 6.26'
113	-68.804871	40.104486	-68° 48.292'	40° 6.269'
114	-68.775092	40.069373	-68° 46.506'	40° 4.162'
115	-68.730704	40.085309	-68° 43.842'	40° 5.119'
116	-68.705558	40.062851	-68° 42.333'	40° 3.771'
117	-68.670018	40.099287	-68° 40.201'	40° 5.957'
118	-68.631085	40.077799	-68° 37.865'	40° 4.668'
119	-68.594935	40.103804	-68° 35.696'	40° 6.228'
120	-68.563404	40.083441	-68° 33.804'	40° 5.006'
121	-68.52771	40.115977	-68° 31.663'	40° 6.959'
122	-68.526614	40.139061	-68° 31.597'	40° 8.344'
123	-68.513934	40.152425	-68° 30.836'	40° 9.146'
124	-68.509129	40.16206	-68° 30.548'	40° 9.724'
125	-68.508009	40.176584	-68° 30.481'	40° 10.595'
126	-68.51925	40.197123	-68° 31.155'	40° 11.827'
127	-68.517299	40.202972	-68° 31.038'	40° 12.178'

<b>Point</b>	<b>Longitude, decimal degrees</b>	<b>Latitude, decimal degrees</b>	<b>Longitude, degrees, decimal minutes</b>	<b>Latitude, degrees, decimal minutes</b>
128	-68.482059	40.191106	-68° 28.924'	40° 11.466'
129	-68.469084	40.181773	-68° 28.145'	40° 10.906'
130	-68.453134	40.186824	-68° 27.188'	40° 11.209'
131	-68.447048	40.181444	-68° 26.823'	40° 10.887'
132	-68.429426	40.13421	-68° 25.766'	40° 8.053'
133	-68.382323	40.146056	-68° 22.939'	40° 8.763'
134	-68.354323	40.166412	-68° 21.259'	40° 9.985'
135	-68.294457	40.191559	-68° 17.667'	40° 11.494'
136	-68.296909	40.22538	-68° 17.815'	40° 13.523'
137	-68.282638	40.249963	-68° 16.958'	40° 14.998'
138	-68.264827	40.258165	-68° 15.89'	40° 15.49'
139	-68.216635	40.218405	-68° 12.998'	40° 13.104'
140	-68.193173	40.230251	-68° 11.59'	40° 13.815'
141	-68.159446	40.238326	-68° 9.567'	40° 14.3'
142	-68.167782	40.266377	-68° 10.067'	40° 15.983'
143	-68.166271	40.288134	-68° 9.976'	40° 17.288'
144	-68.164146	40.310891	-68° 9.849'	40° 18.653'
145	-68.166755	40.342507	-68° 10.005'	40° 20.55'
146	-68.168994	40.366884	-68° 10.14'	40° 22.013'
147	-68.165001	40.391215	-68° 9.9'	40° 23.473'
148	-68.143197	40.417534	-68° 8.592'	40° 25.052'
149	-68.140442	40.437189	-68° 8.427'	40° 26.231'
150	-68.152546	40.460621	-68° 9.153'	40° 27.637'
151	-68.138107	40.461111	-68° 8.286'	40° 27.667'
152	-68.129367	40.45106	-68° 7.762'	40° 27.064'
153	-68.119852	40.429142	-68° 7.191'	40° 25.749'
154	-68.117675	40.405386	-68° 7.061'	40° 24.323'
155	-68.122845	40.387604	-68° 7.371'	40° 23.256'
156	-68.128852	40.383098	-68° 7.731'	40° 22.986'
157	-68.116439	40.358153	-68° 6.986'	40° 21.489'
158	-68.095632	40.335986	-68° 5.738'	40° 20.159'
159	-68.097012	40.321276	-68° 5.821'	40° 19.277'
160	-68.082991	40.297109	-68° 4.979'	40° 17.827'
161	-68.054822	40.307907	-68° 3.289'	40° 18.474'
162	-68.034668	40.297573	-68° 2.08'	40° 17.854'
163	-68.037935	40.283961	-68° 2.276'	40° 17.038'
164	-68.033628	40.265719	-68° 2.018'	40° 15.943'
165	-68.013292	40.273295	-68° 0.798'	40° 16.398'
166	-67.985925	40.270987	-67° 59.156'	40° 16.259'
167	-67.973381	40.292962	-67° 58.403'	40° 17.578'
168	-67.956155	40.29806	-67° 57.369'	40° 17.884'
169	-67.944262	40.289852	-67° 56.656'	40° 17.391'

<b>Point</b>	<b>Longitude, decimal degrees</b>	<b>Latitude, decimal degrees</b>	<b>Longitude, degrees, decimal minutes</b>	<b>Latitude, degrees, decimal minutes</b>
170	-67.925076	40.284316	-67° 55.505'	40° 17.059'
171	-67.907412	40.299712	-67° 54.445'	40° 17.983'
172	-67.884452	40.304612	-67° 53.067'	40° 18.277'
173	-67.888076	40.345023	-67° 53.285'	40° 20.701'
174	-67.901667	40.379947	-67° 54.1'	40° 22.797'
175	-67.875917	40.3797	-67° 52.555'	40° 22.782'
176	-67.855117	40.367909	-67° 51.307'	40° 22.075'
177	-67.803863	40.308953	-67° 48.232'	40° 18.537'
178	-67.766232	40.321794	-67° 45.974'	40° 19.308'
179	-67.717345	40.32159	-67° 43.041'	40° 19.295'
180	-67.719923	40.345119	-67° 43.195'	40° 20.707'
181	-67.685906	40.369889	-67° 41.154'	40° 22.193'
182	-67.68563	40.417687	-67° 41.138'	40° 25.061'
183	-67.674599	40.441001	-67° 40.476'	40° 26.46'
184	-67.686207	40.469812	-67° 41.172'	40° 28.189'
185	-67.674657	40.470471	-67° 40.479'	40° 28.228'
186	-67.658253	40.461928	-67° 39.495'	40° 27.716'
187	-67.648769	40.439033	-67° 38.926'	40° 26.342'
188	-67.649553	40.392543	-67° 38.973'	40° 23.553'
189	-67.635091	40.342111	-67° 38.105'	40° 20.527'
190	-67.433345	40.405198	-67° 26.001'	40° 24.312'
191	-67.431841	40.416426	-67° 25.91'	40° 24.986'
192	-67.420078	40.426492	-67° 25.205'	40° 25.59'
193	-67.415374	40.441621	-67° 24.922'	40° 26.497'
194	-67.404591	40.477481	-67° 24.275'	40° 28.649'
195	-67.39471	40.455633	-67° 23.683'	40° 27.338'
196	-67.38645	40.443515	-67° 23.187'	40° 26.611'
197	-67.386311	40.423098	-67° 23.179'	40° 25.386'
198	-67.382693	40.410086	-67° 22.962'	40° 24.605'
199	-67.012366	40.544039	-67° 0.742'	40° 32.642'
200	-67.00753	40.558963	-67° 0.452'	40° 33.538'
201	-67.027093	40.573837	-67° 1.626'	40° 34.43'
202	-67.033086	40.634153	-67° 1.985'	40° 38.049'
203	-66.978621	40.595403	-66° 58.717'	40° 35.724'
204	-66.923581	40.599407	-66° 55.415'	40° 35.964'
205	-66.711425	40.722578	-66° 42.686'	40° 43.355'
206	-66.722636	40.738291	-66° 43.358'	40° 44.297'
207	-66.722901	40.776428	-66° 43.374'	40° 46.586'
208	-66.699311	40.771304	-66° 41.959'	40° 46.278'
209	-66.67249	40.783988	-66° 40.349'	40° 47.039'
210	-66.647483	40.804766	-66° 38.849'	40° 48.286'
211	-66.637421	40.803006	-66° 38.245'	40° 48.18'

Point	Longitude, decimal degrees	Latitude, decimal degrees	Longitude, degrees, decimal minutes	Latitude, degrees, decimal minutes
212	-66.581809	40.850687	-66° 34.909'	40° 51.041'
213	-66.58472	40.856829	-66° 35.083'	40° 51.41'
214	-66.575707	40.87012	-66° 34.542'	40° 52.207'
215	-66.551857	40.88683	-66° 33.111'	40° 53.21'
216	-66.541335	40.882387	-66° 32.48'	40° 52.943'
217	-66.532637	40.871596	-66° 31.958'	40° 52.296'
218	-66.514785	40.888477	-66° 30.887'	40° 53.309'
219	-66.518364	40.91445	-66° 31.102'	40° 54.867'
220	-66.486964	40.919442	-66° 29.218'	40° 55.167'
221	-66.392339	41.03212	-66° 23.54'	41° 1.927'
222	-66.407034	41.044992	-66° 24.422'	41° 2.7'
223	-66.408783	41.055497	-66° 24.527'	41° 3.33'
224	-66.420602	41.066288	-66° 25.236'	41° 3.977'
225	-66.421387	41.083461	-66° 25.283'	41° 5.008'
226	-66.400652	41.090144	-66° 24.039'	41° 5.409'
227	-66.380809	41.079872	-66° 22.849'	41° 4.792'
228	-66.318248	41.099077	-66° 19.095'	41° 5.945'
229	-66.319542	41.122447	-66° 19.173'	41° 7.347'
230	-66.300242	41.142882	-66° 18.015'	41° 8.573'
231	-66.273677	41.140857	-66° 16.421'	41° 8.451'
232	-66.273677	41.140857	-66° 16.421'	41° 8.451'