

Supplementary Table S2. Overview of the 52 most sensitive vulnerabilities (v) for predator-prey interactions estimated by step-wise fitting for model M8 with constant primary production forcing. Vs > 2 indicate top-down and Vs < 2 indicate bottom-up interactions.

No Vs	Predator	Prey	Vs
1	2. Minke whale	35. Haddock (0-2)	1.0
2	29. Northeast Arctic cod	50. Capelin (3+)	1.0
3		65. <i>Thysanoessa</i>	> 100
4	35. Haddock (3+)	51. Capelin (0-2)	> 100
5		60. Redfish small	> 100
6		65. <i>Thysanoessa</i>	> 100
7		66. Large krill	1.0
8		68. Pelagic amphipods	> 100
9		79. Northern shrimp	1.0
10		86. Other predatory bent. Inv.	1.0
11		89. Small molluscs	> 100
12		91. Detritivorous echinoderms	> 100
13	36. Haddock (0-2)	60. Redfish small	> 100
14		65. <i>Thysanoessa</i>	3.9
15		75. Appendicularians	1.0
16		79. Northern shrimp	1.0
17		91. Detritivorous echinoderms	> 100
18	38. Large Greenland halibut	60. Redfish small	1.0
19		62. Cephalopods	> 100
20	49. Small herring	71. Medium sized copepods	1.0
21	50. Capelin (3+)	65. <i>Thysanoessa</i>	2.2
22	51. Capelin (0-2)	71. Medium sized copepods	> 100
23		72. Large calanoid copepods	1.3
24		73. Small copepods	> 100
25		74. Other large zooplankton	> 100
26		75. Appendicularians	> 100
27	52. Polar cod (2+)	65. <i>Thysanoessa</i>	> 100
28	59. Redfish small	51. Capelin (0-2)	> 100
29		62. Cephalopods	1.1
30		65. <i>Thysanoessa</i>	1.0
31		66. Large krill	1.0
32		68. Pelagic amphipods	> 100
33		79. Northern shrimp	> 100
34	60. Redfish large	36. Haddock (0-2)	> 100
35		51. Capelin (0-2)	> 100
36		62. Cephalopods	1.0
37		65. <i>Thysanoessa</i>	1.0
38		66. Large krill	1.0
39		68. Pelagic amphipods	> 100
40		71. Medium sized copepods	2.8
41	62. Cephalopods	59. Redfish small	> 100
42		65. <i>Thysanoessa</i>	> 100
43		72. Large calanoids	> 100

Table vulnerB, continuation

No Vs	Predator	Prey	Vs
44	65. <i>Thysanoessa</i>	76. Ciliates	> 100
45		97. Diatoms	1.0
46		102. Detritus from other sources	> 100
47	72. Large calanoid copepods	76. Ciliates	1.0
48		97. Diatoms	> 100
49	75. Other large zooplankton	97. Diatoms	1.0
50	75. Appendicularians	97. Diatoms	> 100
51	77. Heterotrophic dinoflagellates	97. Diatoms	1.0