

Table S1 Summary of the locations, dates, durations, and depths for each of the baited remote underwater video (BRUV) deployments used in our analyses.

| Location | Date (yyyy-mm-dd) | Latitude | Longitude | Duration (minutes) | Depth (metres) |
|-----------------|----------------------|----------|-----------|-----------------------|-------------------|
| Kangalaksiorvik | 2017-10-5 | 59.416 | -63.948 | 58 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.417 | -63.94 | 59 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.416 | -63.937 | 79 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.415 | -63.934 | 78 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.415 | -63.931 | 78 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.388 | -64.046 | 62 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.388 | -64.049 | 73 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.389 | -64.051 | 65 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.39 | -64.052 | 56 | 10 |
| Kangalaksiorvik | 2017-10-5 | 59.392 | -64.056 | 58 | 10 |
| Nachvak | 2017-10-6 | 59.033 | -63.547 | 111 | 10 |
| Nachvak | 2017-10-6 | 59.034 | -63.549 | 126 | 10 |
| Nachvak | 2017-10-6 | 59.036 | -63.552 | 128 | 10 |
| Nachvak | 2017-10-6 | 59.037 | -63.554 | 106 | 10 |
| Nachvak | 2017-10-6 | 59.038 | -63.558 | 88 | 10 |
| Nachvak | 2017-10-6 | 59.039 | -63.562 | 98 | 10 |
| Nachvak | 2017-10-6 | 58.959 | -63.878 | 66 | 10 |
| Nachvak | 2017-10-6 | 58.959 | -63.876 | 65 | 10 |
| Nachvak | 2017-10-6 | 58.96 | -63.872 | 62 | 10 |
| Nachvak | 2017-10-6 | 58.958 | -63.88 | 60 | 10 |
| Nachvak | 2017-10-6 | 58.958 | -63.883 | 61 | 10 |
| Nachvak | 2017-10-6 | 58.957 | -63.885 | 57 | 10 |
| Saglek | 2017-10-7 | 58.463 | -62.796 | 110 | 10 |
| Saglek | 2017-10-7 | 58.465 | -62.797 | 150 | 10 |
| Saglek | 2017-10-7 | 58.468 | -62.781 | 88 | 10 |
| Saglek | 2017-10-7 | 58.458 | -62.786 | 118 | 10 |
| Saglek | 2017-10-8 | 58.511 | -63.437 | 35 | 10 |
| Saglek | 2017-10-8 | 58.514 | -63.439 | 188 | 10 |

| Location | Date (yyyy-mm-dd) | Latitude | Longitude | Duration (minutes) | Depth (metres) |
|-------------|----------------------|----------|-----------|-----------------------|-------------------|
| Saglek | 2017-10-8 | 58.517 | -63.442 | 105 | 10 |
| Saglek | 2017-10-8 | 58.5116 | -63.445 | 96 | 10 |
| Saglek | 2017-10-8 | 58.519 | -63.447 | 161 | 10 |
| Saglek | 2017-10-8 | 58.525 | -63.453 | 107 | 10 |
| Okak | 2017-10-9 | 57.577 | -61.955 | 67 | 10 |
| Okak | 2017-10-9 | 57.579 | -61.953 | 66 | 10 |
| Okak | 2017-10-9 | 57.58 | -61.948 | 64 | 10 |
| Okak | 2017-10-9 | 57.575 | -61.955 | 63 | 10 |
| Okak | 2017-10-9 | 57.571 | -61.958 | 61 | 10 |
| Okak | 2017-10-9 | 57.568 | -61.962 | 60 | 10 |
| Okak | 2017-10-9 | 57.481 | -62.061 | 67 | 10 |
| Okak | 2017-10-9 | 57.49 | -62.061 | 71 | 10 |
| Okak | 2017-10-9 | 57.493 | -62.057 | 68 | 10 |
| Okak | 2017-10-9 | 57.494 | -62.051 | 68 | 10 |
| Okak | 2017-10-9 | 57.497 | -62.065 | 70 | 10 |
| Nain | 2019-11-11 | 56.5156 | -61.5657 | 90 | 9 |
| Nain | 2019-11-11 | 56.5284 | -61.6 | 90 | 8 |
| Nain | 2019-11-15 | 56.5149 | -61.5795 | 78 | 6.5 |
| Nain | 2019-11-15 | 56.5236 | -61.5845 | 90 | 7 |
| Nain | 2019-11-15 | 56.5238 | -61.6438 | 82 | 10.5 |
| Nain | 2019-11-15 | 56.5311 | -61.6388 | 90 | 9 |
| Nain | 2019-11-18 | 56.521 | -61.6116 | 71 | 7.5 |
| Nain | 2019-11-18 | 56.5334 | -61.6451 | 90 | 7 |
| Nain | 2019-11-19 | 56.5239 | -61.6002 | 33 | 8 |
| Nain | 2019-11-19 | 56.5296 | -61.6396 | 90 | 7 |
| Nain | 2019-11-19 | 56.5318 | -61.6421 | 90 | 10 |
| Gilbert Bay | 2021-08-1 | 52.5705 | -55.7943 | 63 | 15 |
| Gilbert Bay | 2021-08-1 | 52.5932 | -55.7672 | 90 | 15 |
| Gilbert Bay | 2021-08-2 | 52.5969 | -55.869 | 90 | 20 |
| Gilbert Bay | 2021-08-3 | 52.5797 | -56.0456 | 90 | 13 |
| Gilbert Bay | 2021-08-3 | 52.5994 | -55.813 | 90 | 23 |

| Location | Date (yyyy-mm-dd) | Latitude | Longitude | Duration (minutes) | Depth (metres) |
|--------------|----------------------|----------|-----------|-----------------------|-------------------|
| Gilbert Bay | 2021-08-3 | 52.5994 | -55.813 | 90 | 23 |
| Gilbert Bay | 2021-08-3 | 52.601 | -55.7983 | 90 | 12 |
| Gilbert Bay | 2021-08-4 | 52.5982 | -55.8142 | 90 | 20 |
| Gilbert Bay | 2021-08-4 | 52.6014 | -55.8122 | 90 | 20 |
| Gilbert Bay | 2021-08-4 | 52.6014 | -55.8122 | 90 | 20 |
| Gilbert Bay | 2021-08-5 | 52.5828 | -55.8297 | 90 | 20 |
| Gilbert Bay | 2021-08-6 | 52.5933 | -56.0167 | 90 | 11 |
| Newman Sound | 2016-11-15 | 48.563 | -53.891 | 22 | 2 |
| Newman Sound | 2016-11-15 | 48.566 | -53.889 | 16 | 20 |
| Newman Sound | 2016-11-16 | 48.571 | -53.869 | 23 | 2 |
| Newman Sound | 2016-11-16 | 48.573 | -53.866 | 19 | 20 |
| Newman Sound | 2016-11-16 | 48.584 | -53.927 | 19 | 2 |
| Newman Sound | 2016-11-16 | 48.582 | -53.925 | 31 | 20 |
| Newman Sound | 2016-11-17 | 48.571 | -53.921 | 27 | 2 |
| Newman Sound | 2016-11-17 | 48.572 | -53.922 | 19 | 20 |
| Newman Sound | 2016-11-17 | 48.564 | -53.961 | 24 | 2 |
| Newman Sound | 2019-07-29 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-07-29 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-07-30 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-07-30 | 48.5871 | -53.9119 | 25 | 6 |
| Newman Sound | 2019-07-30 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-07-30 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-07-30 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-08-13 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-08-13 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-08-14 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-08-14 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-08-14 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-08-14 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-08-14 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-08-14 | 48.5898 | -53.9142 | 30 | 5 |

| Location | Date (yyyy-mm-dd) | Latitude | Longitude | Duration (minutes) | Depth (metres) |
|--------------|----------------------|----------|-----------|-----------------------|-------------------|
| Newman Sound | 2019-08-27 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-08-27 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-08-27 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-08-27 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-08-27 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-08-27 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-08-27 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-08-28 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-09-11 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-09-11 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-09-11 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-09-11 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-09-11 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-09-12 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-09-12 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-09-13 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-09-25 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-09-25 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-09-25 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-09-25 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-09-25 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-09-25 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-09-26 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-09-26 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-11-26 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-11-26 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-11-26 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-11-26 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-11-26 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-11-27 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-11-27 | 48.5872 | -53.9176 | 30 | 5 |

| Location | Date (yyyy-mm-dd) | Latitude | Longitude | Duration (minutes) | Depth (metres) |
|--------------|----------------------|----------|-----------|-----------------------|-------------------|
| Newman Sound | 2019-11-27 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-12-3 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-12-3 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-12-3 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-12-3 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-12-3 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-12-3 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-12-3 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-12-3 | 48.5898 | -53.9142 | 30 | 5 |
| Newman Sound | 2019-12-11 | 48.5832 | -53.9114 | 30 | 7 |
| Newman Sound | 2019-12-11 | 48.5843 | -53.9119 | 30 | 8 |
| Newman Sound | 2019-12-11 | 48.5871 | -53.9119 | 30 | 6 |
| Newman Sound | 2019-12-11 | 48.5871 | -53.9172 | 30 | 7 |
| Newman Sound | 2019-12-11 | 48.5872 | -53.9176 | 30 | 5 |
| Newman Sound | 2019-12-11 | 48.5874 | -53.9173 | 30 | 5 |
| Newman Sound | 2019-12-11 | 48.5886 | -53.9145 | 30 | 6 |
| Newman Sound | 2019-12-11 | 48.5898 | -53.9142 | 30 | 5 |

Table S2. Analysis of Deviance (ANODEV) associated with the multivariate GLM for species relative abundances (MaxN) as a function of location and habitat composition as well as individual species differences compared across northern Labrador (Kangalaksiorvik, Nachvak, Saglek, Okak, and Nain). Deviance (D) from likelihood ratio tests and p-values (p, significant values in bold) are included for each variable.

| Northern Labrador – Kangalaksiorvik, Nachvak, Saglek, Okak, Nain | | | | | | | | | | | | | | | | | | |
|---|---------|---------|------|--------------|---------------|--------------|--------------------------|--------------|---------------|-------|---------------|--------------|-----------|--------------|---------------|-------|---------|-------|
| Parameter | Overall | | | | Greenland cod | | Greenland cod (juvenile) | | Large cottids | | Small cottids | | Toad crab | | Arctic shanny | | Eelpout | |
| | df | Res. df | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Location | 5 | 48 | 129 | 0.001 | 33.4 | 0.001 | 31.3 | 0.001 | 2.33 | 0.847 | 12.5 | 0.041 | 36.3 | 0.001 | 6.36 | 0.274 | 3.18 | 0.847 |
| Soft sediments | 4 | 44 | 68 | 0.001 | 6.01 | 0.519 | 8.42 | 0.259 | 2.53 | 0.651 | 31.3 | 0.001 | 12.2 | 0.112 | 4.05 | 0.613 | 1.58 | 0.697 |
| Coarse substrates | 4 | 40 | 26 | 0.337 | 1.14 | 0.958 | 2.91 | 0.871 | 3.35 | 0.871 | 9.26 | 0.327 | 5.45 | 0.683 | 1.39 | 0.958 | 1.83 | 0.92 |
| Macroalgae | 3 | 37 | 13.8 | 0.364 | 3.93 | 0.704 | 0 | 0.764 | 5.6 | 0.537 | 3.48 | 0.704 | 0.76 | 0.704 | 0 | 0.704 | 0 | 0.764 |
| Rhodoliths | 3 | 35 | 18.9 | 0.179 | 1.69 | 0.955 | 0 | 0.955 | 6.57 | 0.398 | 0.89 | 0.955 | 8.32 | 0.226 | 1.39 | 0.955 | 0 | 0.955 |

| Northern Labrador – Kangalaksiorvik, Nachvak, Saglek, Okak, Nain (continued) | | | | | | | | | | | | | | | | | | |
|---|-------|-------|--------------|---|-------------------------|---|-----------------|---|--------|---|------------|---|-------------|---|--------------------|---|------------------|---|
| Parameter | Skate | | Atlantic cod | | Atlantic cod (juvenile) | | Winter flounder | | Cunner | | White hake | | Rock gunnel | | Atlantic rock crab | | American lobster | |
| | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Location | 3.18 | 0.847 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Soft sediments | 0.9 | 0.697 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Coarse substrates | 0.67 | 0.958 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Macroalgae | 0 | 0.764 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Rhodoliths | 0 | 0.955 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |

Table S3. Analysis of Deviance (ANODEV) associated with the multivariate GLM for species relative abundances (MaxN) as a function of deployment area and habitat composition as well as individual species differences in Gilbert Bay (southern Labrador). Deviance (D) from likelihood ratio tests and p-values (p, significant values in bold) are included for each variable.

| Gilbert Bay – southern Labrador | | | | | | | | | | | | | | | | | | |
|--|---------|---------|--------------|--------------|-------------------------|-------------|--------------------------|-------|---------------|-------|---------------|-------|-------------|-------|--------------------|-------|------------------|---|
| Parameter | Overall | | | | Greenland cod | | Greenland cod (juvenile) | | Large cottids | | Small cottids | | Toad crab | | Arctic shanny | | Eelpout | |
| | df | Res. df | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Area | 2 | 9 | 57.6 | 0.006 | 19 | 0.01 | 3.58 | 0.549 | 4.52 | 0.386 | 4.62 | 0.386 | 11.2 | 0.051 | 2.55 | 0.549 | 0 | 1 |
| Soft sediments | 4 | 5 | 26.9 | 0.277 | 1.9 | 0.897 | 4.71 | 0.668 | 0.59 | 0.939 | 3.86 | 0.668 | 6.63 | 0.464 | 1.07 | 0.939 | 0 | 1 |
| Coarse substrates | 4 | 1 | 45.7 | 0.001 | 2.1 | 0.306 | 11.3 | 0.111 | 2.77 | 0.203 | 2.2 | 0.306 | 0.47 | 0.342 | 4.34 | 0.148 | 0 | 1 |
| Macroalgae | 2 | 2 | 7.35 | 0.135 | 0.96 | 0.686 | 0.71 | 0.75 | 0.44 | 0.75 | 2.2 | 0.467 | 0.05 | 0.75 | 2.2 | 0.435 | 0 | 1 |
| Gilbert Bay – southern Labrador (continued) | | | | | | | | | | | | | | | | | | |
| Parameter | Skate | | Atlantic cod | | Atlantic cod (juvenile) | | Winter flounder | | Cunner | | White hake | | Rock gunnel | | Atlantic rock crab | | American lobster | |
| | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Area | 0 | 1 | 6.92 | 0.231 | 2.43 | 0.549 | 2.77 | 0.549 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Soft sediments | 0 | 1 | 5.41 | 0.649 | 1.9 | 0.897 | 0.81 | 0.939 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Coarse substrates | 0 | 1 | 13.8 | 0.048 | 8.65 | 0.148 | 0 | 0.522 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Macroalgae | 0 | 1 | 0 | 1 | 0.81 | 0.75 | 0 | 0.756 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |

Table S4. Analysis of Deviance (ANODEV) associated with the multivariate GLM for species relative abundances (MaxN) as a function of season and habitat composition as well as individual species differences in Newman Sound (Newfoundland). Deviance (D) from likelihood ratio tests and p-values (p, significant values in bold) are included for each variable.

| Newman Sound – Newfoundland | | | | | | | | | | | | | | | | | | |
|------------------------------------|---------|---------|------|--------------|---------------|-------|--------------------------|-------|---------------|-------|---------------|---|-----------|---|---------------|---|---------|---|
| Parameter | Overall | | | | Greenland cod | | Greenland cod (juvenile) | | Large cottids | | Small cottids | | Toad crab | | Arctic shanny | | Eelpout | |
| | df | Res. df | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Season | 1 | 61 | 135 | 0.001 | 0.74 | 0.826 | 1.49 | 0.826 | 1.3 | 0.826 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Soft sediments | 4 | 57 | 76.6 | 0.004 | 2.51 | 0.992 | 1.51 | 0.997 | 12.1 | 0.137 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Coarse substrates | 4 | 53 | 51.5 | 0.154 | 5.59 | 0.779 | 3.88 | 0.89 | 4 | 0.89 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Macroalgae | 4 | 49 | 70.6 | 0.007 | 11.5 | 0.234 | 8.66 | 0.422 | 3.3 | 0.902 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Eelgrass | 4 | 45 | 37.3 | 0.137 | 3.31 | 0.839 | 6.62 | 0.687 | 5.22 | 0.792 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |

| Newman Sound – Newfoundland (continued) | | | | | | | | | | | | | | | | | | |
|--|-------|---|--------------|--------------|-------------------------|-------|-----------------|--------------|--------|--------------|------------|-------|-------------|-------|--------------------|-------|------------------|-------|
| Parameter | Skate | | Atlantic cod | | Atlantic cod (juvenile) | | Winter flounder | | Cunner | | White hake | | Rock gunnel | | Atlantic rock crab | | American lobster | |
| | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p | D | p |
| Season | 0 | 1 | 21.1 | 0.001 | 1.34 | 0.826 | 28.9 | 0.001 | 69.6 | 0.001 | 0.96 | 0.826 | 1.92 | 0.826 | 1.59 | 0.826 | 6.23 | 0.105 |
| Soft sediments | 0 | 1 | 5.09 | 0.877 | 15.2 | 0.056 | 11.4 | 0.137 | 9.45 | 0.25 | 2.93 | 0.989 | 1.82 | 0.997 | 12.7 | 0.124 | 1.85 | 0.997 |
| Coarse substrates | 0 | 1 | 6.83 | 0.766 | 1.37 | 0.981 | 3.8 | 0.89 | 6.38 | 0.779 | 0.81 | 0.981 | 0.71 | 0.981 | 12.2 | 0.184 | 5.92 | 0.779 |
| Macroalgae | 0 | 1 | 14.4 | 0.1 | 3.7 | 0.902 | 4.94 | 0.874 | 2.49 | 0.902 | 1.39 | 0.902 | 5.77 | 0.802 | 4.79 | 0.874 | 9.69 | 0.362 |
| Eelgrass | 0 | 1 | 4.13 | 0.839 | 6.22 | 0.729 | 1.72 | 0.839 | 4.24 | 0.839 | 0 | 0.839 | 0 | 0.839 | 4.43 | 0.839 | 1.43 | 0.839 |

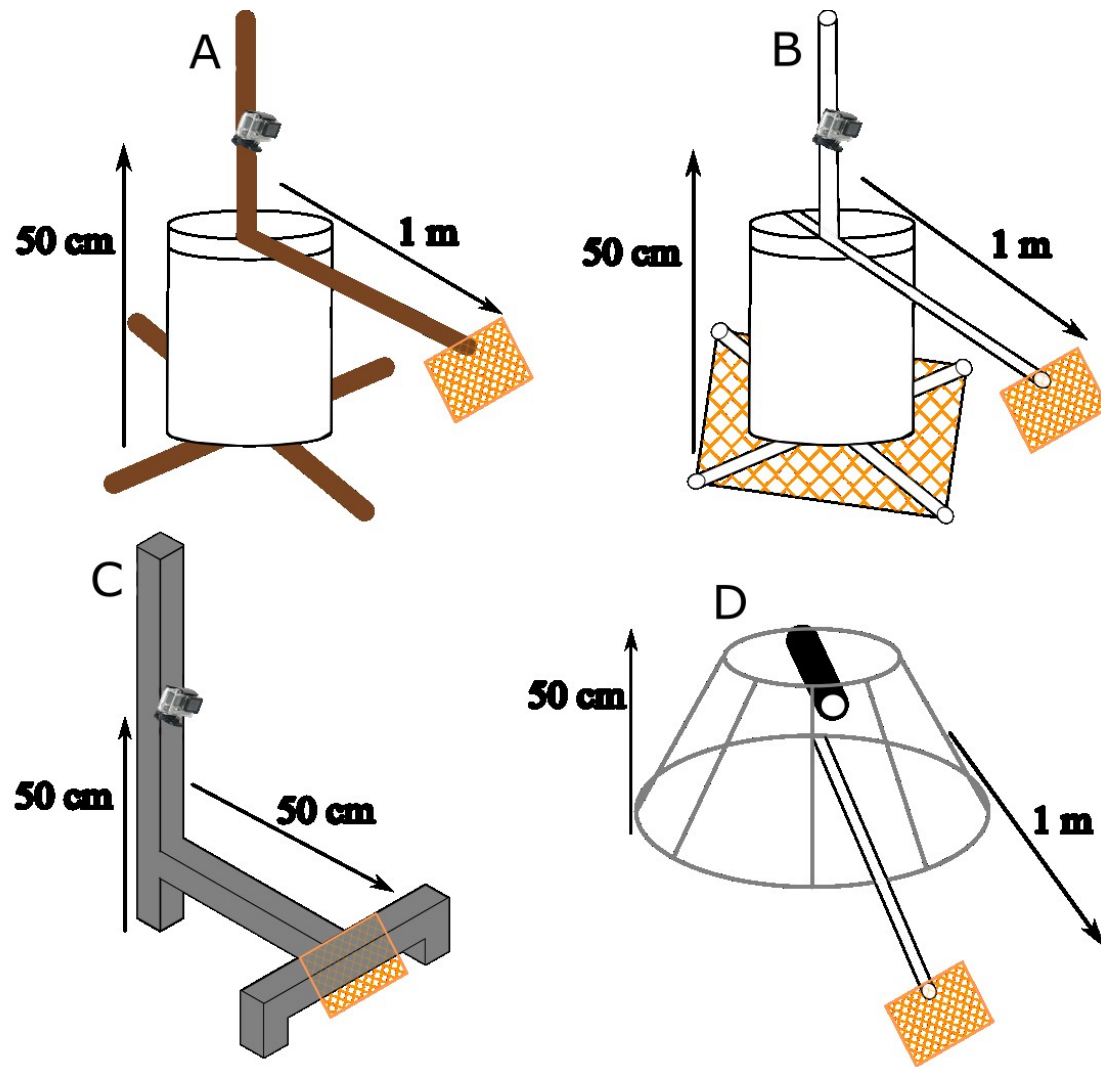


Fig. S1. Illustrations of the baited remote underwater video (BRUV) frame designs from deployments in Newman Sound 2016 (A), Kangalaksiorvik, Nachvak, Saglek, Okak 2017 (B), Newman Sound and Nain 2019 (C), and Gilbert Bay 2021 (D).



Fig. S2. Example images of fish and decapod crustacean species identified from BRUV deployments.

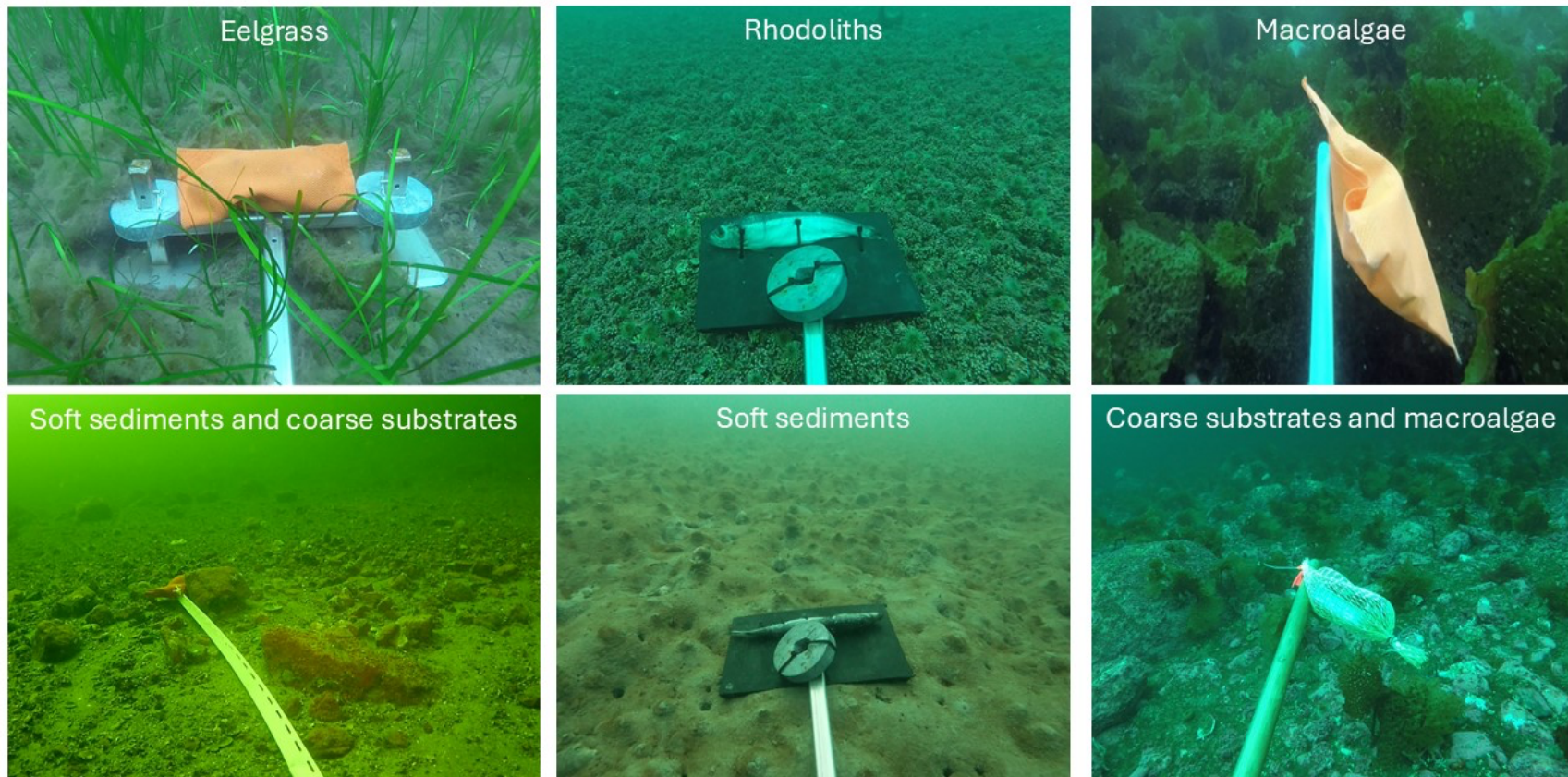


Fig. S3. Example images of habitats identified from BRUV deployments.

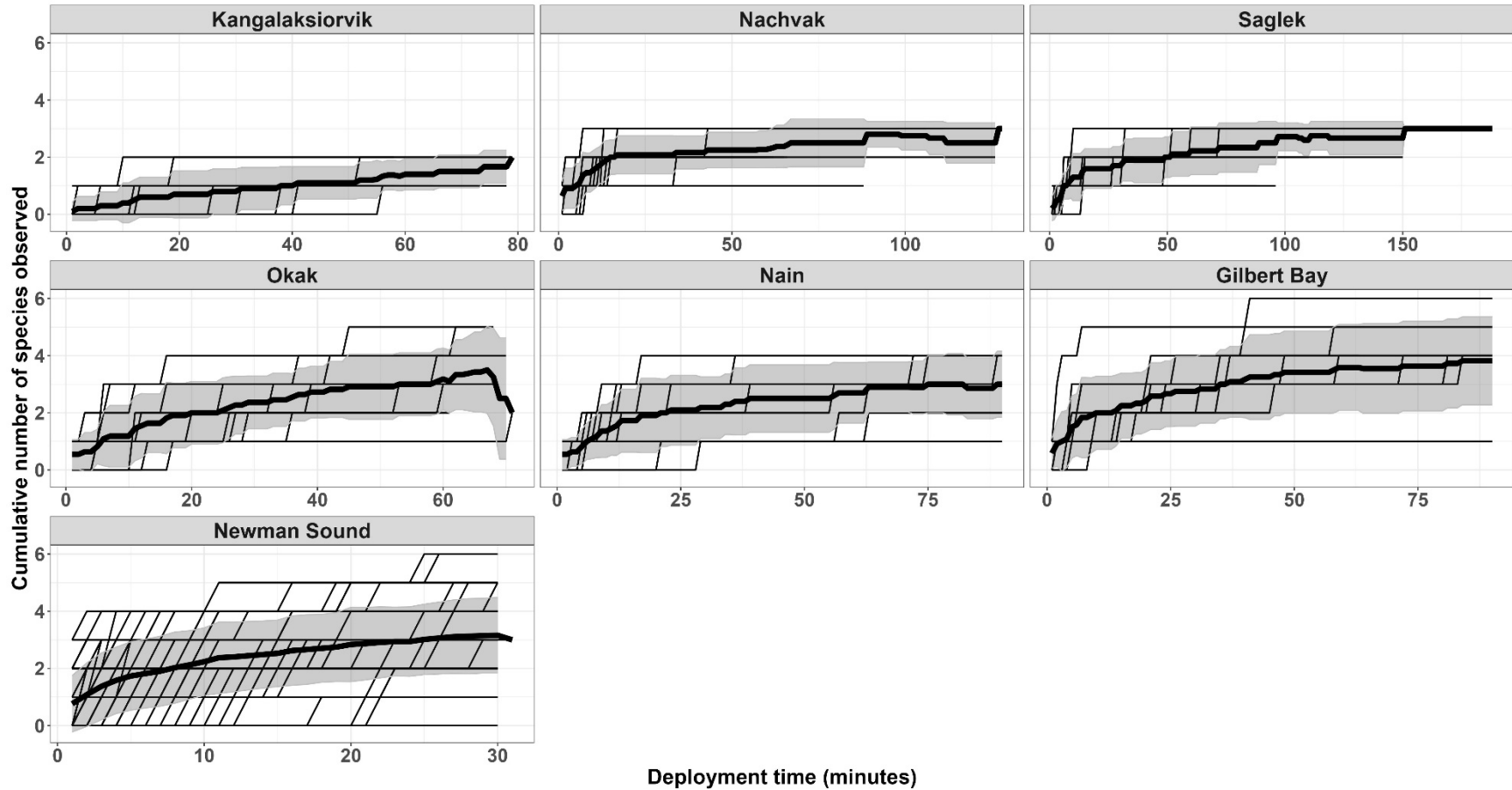


Fig. S4. Species accumulation curves as a function of deployment times in each location. Thin black lines represent species accumulation curves for each deployment and the thick black lines depicts the average species accumulation in each location with grey shading as ± 1 standard deviation.

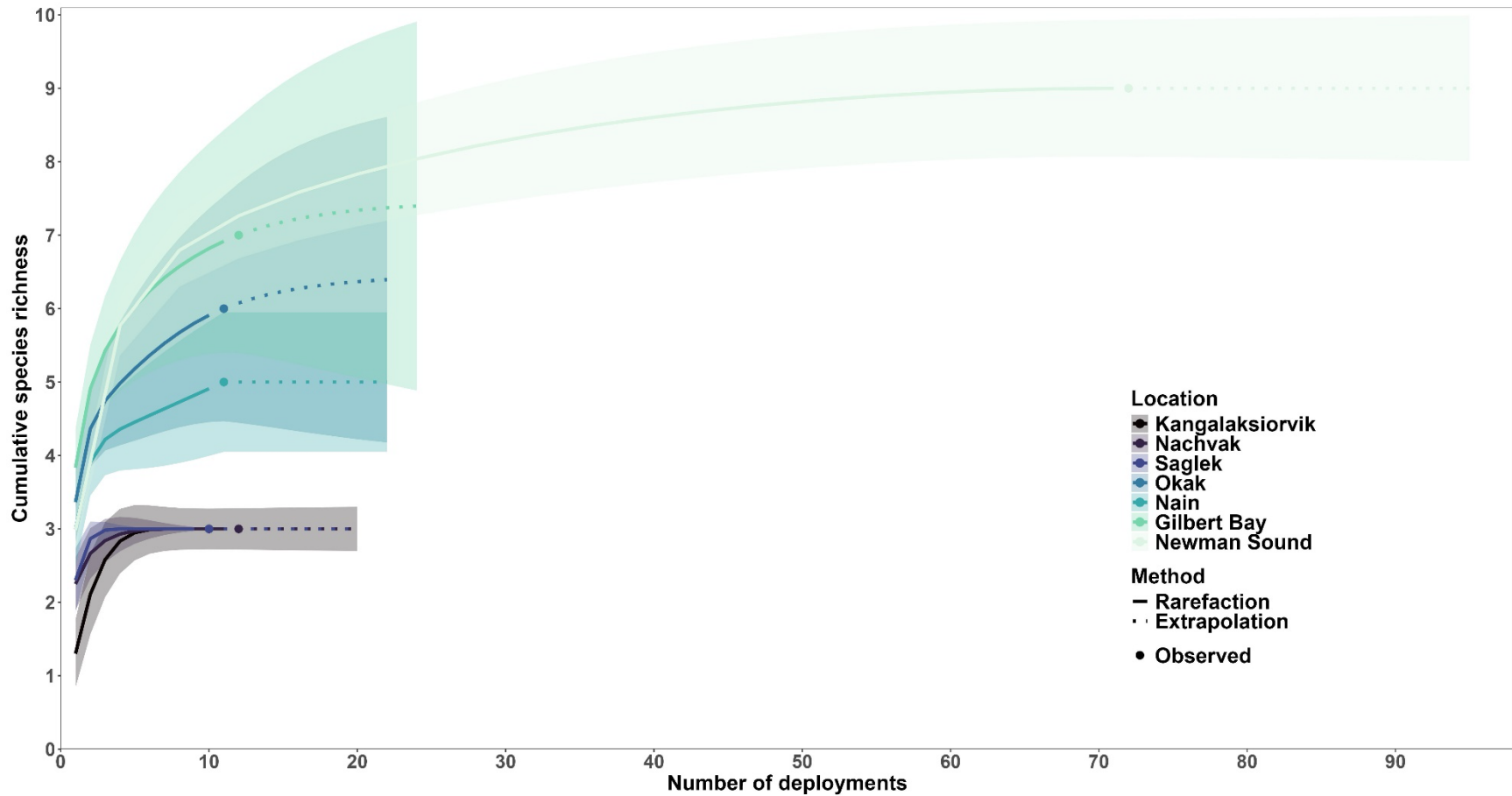


Fig. S5. Species accumulation curves as a function of the number of deployments in each location. Solid lines represent rarefaction curves for species richness, dotted lines represent extrapolated species richness, and shaded regions indicate 95% confidence intervals.

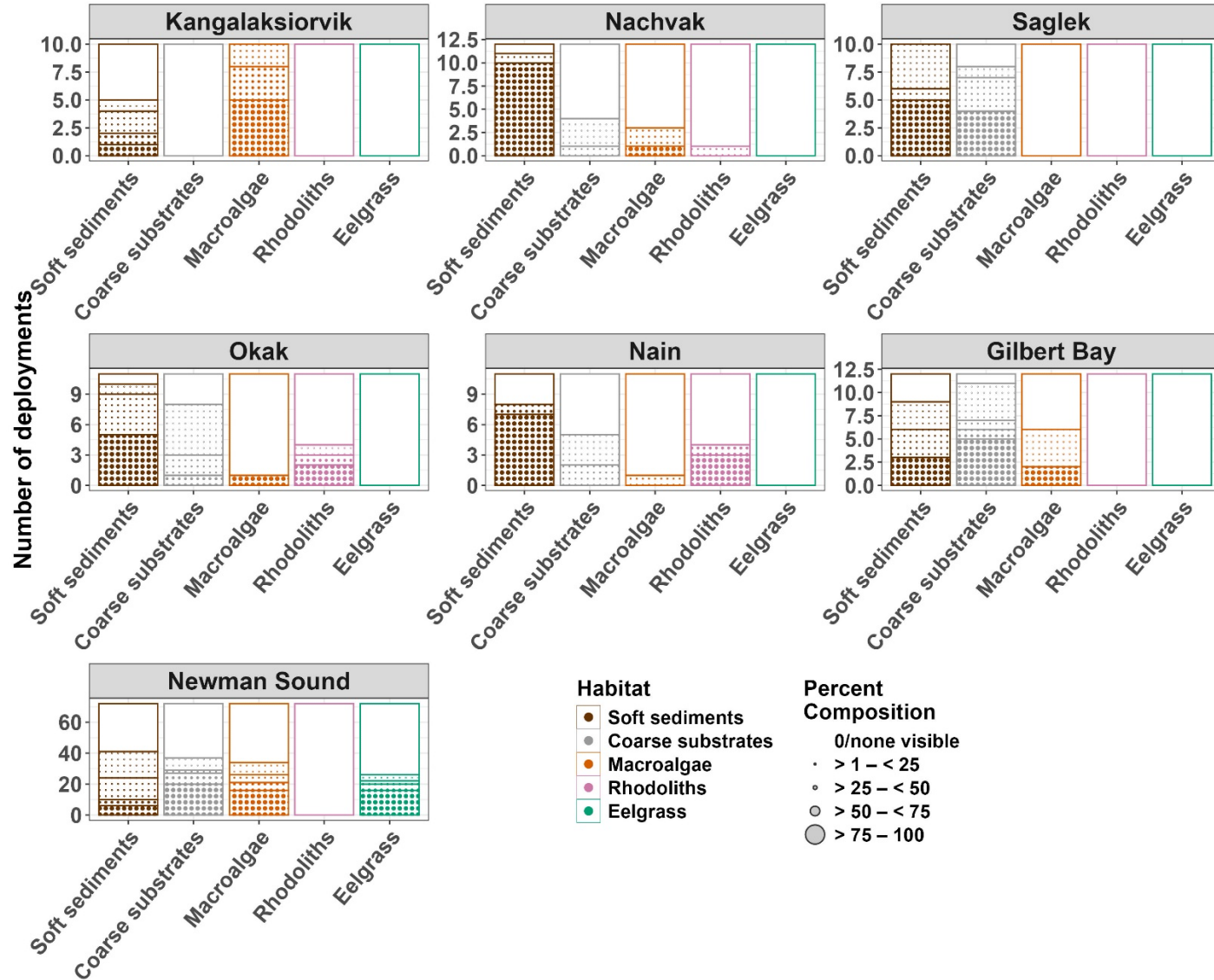


Fig. S6. Percent composition of habitats observed from BRUV deployments across study locations.