Note on changes for reviews to add to review response: misalignment between in text references of results were not aligned with figures. For the Yukon (US) and Yukon (CA) regional effects (Figure 3 b and c) and the population-level effects (Figure 4) the plotted error bars did not represent the 80% credible intervals of θp,c and *μr,c.* Figures 3 and 4 were revised to ensure consistency with in text reported results, figure captions and methods. This did not change interpretation of results. The initial draft had more conservative estimates of uncertainty (i.e., Figure 4 was showing 95% credible intervals).

Table S7.

Subregional-specific covariate effects on Chinook salmon productivity. Effect size can be interpreted in the percent change in recruits per spawner for 1 standard deviation increase in in the covariate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Covariate | Region | Mean | Lower 80% | Upper 80% |
| Winter Sea Surface Temperature | Kuskokwim | 22.7 | 15.7 | 30.2 |
| Summer Sea Surface Temperature | Kuskokwim | -16.1 | -21.6 | -10.6 |
| Median daily streamflow | Kuskokwim | -0.3 | -6.5 | 5.8 |
| Body Size | Kuskokwim | -2.8 | -17.8 | 12.3 |
| Marine Competitors | Kuskokwim | -15.4 | -31.0 | 0.5 |
| Cross-shelf wind | Kuskokwim | 3.3 | -2.1 | 8.6 |
| Sea Ice Cover | Kuskokwim | -15.2 | -23.5 | -6.7 |
| River Ice Breakup Date | Kuskokwim | 3.6 | -2.5 | 9.5 |
| Maximum daily streamflow | Kuskokwim | 3.0 | -2.2 | 8.1 |
| Maximum Daily Migration Temp | Kuskokwim | -0.8 | -5.9 | 4.4 |
| Daily stream temp | Kuskokwim | -3.8 | -11.6 | 3.9 |
| Winter Sea Surface Temperature | Yukon (CA) | 12.8 | 5.8 | 20.2 |
| Summer Sea Surface Temperature | Yukon (CA) | -0.9 | -8.6 | 6.8 |
| Median daily streamflow | Yukon (CA) | -2.4 | -9.8 | 4.9 |
| Body Size | Yukon (CA) | 24.8 | 17.5 | 32.2 |
| Marine Competitors | Yukon (CA) | -18.9 | -39.0 | 0.5 |
| Cross-shelf wind | Yukon (CA) | -4.0 | -11.4 | 3.7 |
| Sea Ice Cover | Yukon (CA) | -6.6 | -12.1 | -1.2 |
| River Ice Breakup Date | Yukon (CA) | -9.6 | -18.6 | -2.4 |
| **Maximum daily streamflow** | **Yukon (CA)** | **-10.0** | **-19.7** | **-0.9** |
| Maximum Daily Migration Temp | Yukon (CA) | -10.5 | -20.5 | -0.3 |
| Daily stream temp | Yukon (CA) | -2.3 | -10.6 | 6.2 |
| Winter Sea Surface Temperature | Yukon (US) | 19.5 | 8.1 | 31.8 |
| Summer Sea Surface Temperature | Yukon (US) | -19.2 | -30.9 | -5.3 |
| Median daily streamflow | Yukon (US) | -4.4 | -19.5 | 10.7 |
| Body Size | Yukon (US) | 36.0 | 14.6 | 57.3 |
| Marine Competitors | Yukon (US) | -8.1 | -62.9 | 54.2 |
| Cross-shelf wind | Yukon (US) | -12.1 | -22.6 | -1.4 |
| Sea Ice Cover | Yukon (US) | -1.4 | -12.4 | 9.2 |
| River Ice Breakup Date | Yukon (US) | 3.0 | -20.3 | 30.9 |
| Maximum daily streamflow | Yukon (US) | -5.8 | -18.2 | 6.6 |
| Maximum Daily Migration Temp | Yukon (US) | -16.1 | -31.3 | -0.8 |
| Daily stream temp | Yukon (US) | 4.3 | -7.4 | 16.8 |

Population-specific covariate effects on Chinook salmon productivity. Effect size can be interpreted in the percent change in recruits per spawner for 1 standard deviation increase in in the covariate

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Covariate | Region | Population | Mean | Lower 80% | Upper 80% |
| Body Size | Kuskokwim | Aniak | -10.3 | -29.4 | 8.1 |
| Body Size | Kuskokwim | George | 3.6 | -16.7 | 26.2 |
| Body Size | Kuskokwim | Goodnews | -3.0 | -22.4 | 17.2 |
| Body Size | Kuskokwim | Holitna | 3.4 | -17.8 | 27.4 |
| Body Size | Kuskokwim | Holokuk | 1.9 | -20.1 | 27.1 |
| Body Size | Kuskokwim | Kisaralik | -6.2 | -26.6 | 14.1 |
| Body Size | Kuskokwim | Kogrukluk | -14.5 | -34.0 | 4.2 |
| Body Size | Kuskokwim | Kwethluk | 3.1 | -17.4 | 25.9 |
| Body Size | Kuskokwim | Oskawalik | -1.0 | -22.6 | 22.0 |
| Body Size | Kuskokwim | Pitka | -7.2 | -29.0 | 14.0 |
| Body Size | Kuskokwim | Swift | -5.2 | -24.7 | 14.1 |
| Body Size | Kuskokwim | Takotna | -4.3 | -24.3 | 16.0 |
| Body Size | Kuskokwim | Tatlawiksuk | -3.4 | -22.7 | 16.5 |
| Body Size | Kuskokwim | Tuluksak | 4.2 | -16.8 | 28.0 |
| Cross-shelf wind | Kuskokwim | Aniak | 1.8 | -5.9 | 8.9 |
| Cross-shelf wind | Kuskokwim | George | 3.5 | -3.6 | 10.5 |
| Cross-shelf wind | Kuskokwim | Goodnews | 1.0 | -7.1 | 8.2 |
| Cross-shelf wind | Kuskokwim | Holitna | 4.1 | -3.9 | 12.1 |
| Cross-shelf wind | Kuskokwim | Holokuk | 3.0 | -5.6 | 11.0 |
| Cross-shelf wind | Kuskokwim | Kisaralik | 2.4 | -5.8 | 10.1 |
| Cross-shelf wind | Kuskokwim | Kogrukluk | 4.4 | -2.1 | 11.0 |
| Cross-shelf wind | Kuskokwim | Kwethluk | 1.2 | -7.1 | 8.8 |
| Cross-shelf wind | Kuskokwim | Oskawalik | 3.2 | -5.0 | 11.1 |
| Cross-shelf wind | Kuskokwim | Pitka | 2.3 | -6.1 | 10.1 |
| Cross-shelf wind | Kuskokwim | Swift | 4.8 | -2.7 | 12.9 |
| Cross-shelf wind | Kuskokwim | Takotna | 6.8 | -0.8 | 15.2 |
| Cross-shelf wind | Kuskokwim | Tatlawiksuk | 2.6 | -5.3 | 9.8 |
| Cross-shelf wind | Kuskokwim | Tuluksak | 5.8 | -1.7 | 14.0 |
| Daily stream temp | Kuskokwim | Aniak | 3.8 | -7.7 | 15.3 |
| Daily stream temp | Kuskokwim | George | 17.7 | 3.1 | 31.1 |
| Daily stream temp | Kuskokwim | Goodnews | -5.1 | -19.0 | 8.1 |
| Daily stream temp | Kuskokwim | Holitna | -8.3 | -25.6 | 7.1 |
| Daily stream temp | Kuskokwim | Holokuk | -4.8 | -22.4 | 12.5 |
| Daily stream temp | Kuskokwim | Kisaralik | -5.9 | -22.2 | 9.5 |
| Daily stream temp | Kuskokwim | Kogrukluk | -4.6 | -15.5 | 6.1 |
| Daily stream temp | Kuskokwim | Kwethluk | -18.5 | -34.4 | -2.7 |
| Daily stream temp | Kuskokwim | Oskawalik | -5.7 | -24.6 | 11.5 |
| Daily stream temp | Kuskokwim | Pitka | 1.2 | -13.1 | 15.6 |
| Daily stream temp | Kuskokwim | Swift | -8.3 | -23.6 | 5.5 |
| Daily stream temp | Kuskokwim | Takotna | 3.7 | -7.5 | 15.3 |
| Daily stream temp | Kuskokwim | Tatlawiksuk | -4.6 | -14.8 | 5.9 |
| Daily stream temp | Kuskokwim | Tuluksak | -12.4 | -26.9 | 2.0 |
| Marine Competitors | Kuskokwim | Aniak | -20.8 | -39.2 | -2.4 |
| Marine Competitors | Kuskokwim | George | -20.0 | -41.0 | 0.4 |
| Marine Competitors | Kuskokwim | Goodnews | -14.1 | -36.4 | 7.9 |
| Marine Competitors | Kuskokwim | Holitna | -17.4 | -36.8 | 2.5 |
| Marine Competitors | Kuskokwim | Holokuk | -16.4 | -37.8 | 5.0 |
| Marine Competitors | Kuskokwim | Kisaralik | -18.8 | -39.5 | 1.6 |
| Marine Competitors | Kuskokwim | Kogrukluk | -13.6 | -30.6 | 4.1 |
| Marine Competitors | Kuskokwim | Kwethluk | -10.3 | -31.2 | 12.3 |
| Marine Competitors | Kuskokwim | Oskawalik | -13.3 | -33.9 | 8.6 |
| Marine Competitors | Kuskokwim | Pitka | -13.4 | -33.9 | 8.7 |
| Marine Competitors | Kuskokwim | Swift | -17.0 | -36.3 | 2.3 |
| Marine Competitors | Kuskokwim | Takotna | -17.8 | -39.4 | 3.2 |
| Marine Competitors | Kuskokwim | Tatlawiksuk | -12.7 | -32.6 | 8.5 |
| Marine Competitors | Kuskokwim | Tuluksak | -11.2 | -32.0 | 11.4 |
| Maximum Daily Migration Temp | Kuskokwim | Aniak | 0.1 | -7.1 | 7.4 |
| Maximum Daily Migration Temp | Kuskokwim | George | -0.4 | -6.8 | 6.1 |
| Maximum Daily Migration Temp | Kuskokwim | Goodnews | 0.1 | -7.4 | 8.0 |
| Maximum Daily Migration Temp | Kuskokwim | Holitna | -0.9 | -9.5 | 7.6 |
| Maximum Daily Migration Temp | Kuskokwim | Holokuk | -3.3 | -13.9 | 5.9 |
| Maximum Daily Migration Temp | Kuskokwim | Kisaralik | 2.5 | -6.1 | 12.5 |
| Maximum Daily Migration Temp | Kuskokwim | Kogrukluk | 5.3 | -3.0 | 14.5 |
| Maximum Daily Migration Temp | Kuskokwim | Kwethluk | 2.6 | -5.4 | 10.9 |
| Maximum Daily Migration Temp | Kuskokwim | Oskawalik | -2.9 | -12.9 | 5.9 |
| Maximum Daily Migration Temp | Kuskokwim | Pitka | -0.9 | -9.3 | 7.3 |
| Maximum Daily Migration Temp | Kuskokwim | Swift | -2.3 | -11.2 | 5.7 |
| Maximum Daily Migration Temp | Kuskokwim | Takotna | -3.8 | -13.1 | 4.2 |
| Maximum Daily Migration Temp | Kuskokwim | Tatlawiksuk | -2.0 | -9.7 | 5.4 |
| Maximum Daily Migration Temp | Kuskokwim | Tuluksak | -4.6 | -13.8 | 3.4 |
| Maximum daily streamflow | Kuskokwim | Aniak | 0.0 | -8.9 | 7.3 |
| Maximum daily streamflow | Kuskokwim | George | 1.3 | -6.1 | 8.0 |
| Maximum daily streamflow | Kuskokwim | Goodnews | 4.4 | -3.1 | 12.5 |
| Maximum daily streamflow | Kuskokwim | Holitna | 2.6 | -4.9 | 9.7 |
| Maximum daily streamflow | Kuskokwim | Holokuk | 2.0 | -6.6 | 10.0 |
| Maximum daily streamflow | Kuskokwim | Kisaralik | 2.8 | -5.3 | 10.6 |
| Maximum daily streamflow | Kuskokwim | Kogrukluk | 4.6 | -1.7 | 11.2 |
| Maximum daily streamflow | Kuskokwim | Kwethluk | 3.3 | -3.6 | 10.3 |
| Maximum daily streamflow | Kuskokwim | Oskawalik | 2.1 | -6.3 | 9.9 |
| Maximum daily streamflow | Kuskokwim | Pitka | 4.1 | -3.2 | 12.2 |
| Maximum daily streamflow | Kuskokwim | Swift | 2.8 | -4.9 | 10.1 |
| Maximum daily streamflow | Kuskokwim | Takotna | 2.2 | -5.3 | 9.0 |
| Maximum daily streamflow | Kuskokwim | Tatlawiksuk | 4.4 | -2.0 | 11.1 |
| Maximum daily streamflow | Kuskokwim | Tuluksak | 5.0 | -2.5 | 13.8 |
| Median daily streamflow | Kuskokwim | Aniak | 2.1 | -5.7 | 10.4 |
| Median daily streamflow | Kuskokwim | George | -2.2 | -11.4 | 6.3 |
| Median daily streamflow | Kuskokwim | Goodnews | -1.7 | -10.8 | 6.8 |
| Median daily streamflow | Kuskokwim | Holitna | -1.3 | -10.5 | 7.7 |
| Median daily streamflow | Kuskokwim | Holokuk | -3.0 | -14.4 | 6.7 |
| Median daily streamflow | Kuskokwim | Kisaralik | -3.1 | -13.8 | 6.2 |
| Median daily streamflow | Kuskokwim | Kogrukluk | -0.7 | -8.2 | 6.5 |
| Median daily streamflow | Kuskokwim | Kwethluk | -0.2 | -8.7 | 8.2 |
| Median daily streamflow | Kuskokwim | Oskawalik | -1.5 | -11.6 | 7.8 |
| Median daily streamflow | Kuskokwim | Pitka | -0.8 | -9.8 | 7.6 |
| Median daily streamflow | Kuskokwim | Swift | 1.2 | -7.5 | 10.5 |
| Median daily streamflow | Kuskokwim | Takotna | 2.3 | -6.8 | 12.0 |
| Median daily streamflow | Kuskokwim | Tatlawiksuk | 0.4 | -7.8 | 8.6 |
| Median daily streamflow | Kuskokwim | Tuluksak | 4.6 | -4.8 | 15.8 |
| River Ice Breakup Date | Kuskokwim | Aniak | 1.9 | -6.4 | 9.5 |
| River Ice Breakup Date | Kuskokwim | George | 4.6 | -2.6 | 11.8 |
| River Ice Breakup Date | Kuskokwim | Goodnews | 0.9 | -9.0 | 9.4 |
| River Ice Breakup Date | Kuskokwim | Holitna | 1.4 | -8.2 | 9.7 |
| River Ice Breakup Date | Kuskokwim | Holokuk | 4.9 | -3.8 | 13.6 |
| River Ice Breakup Date | Kuskokwim | Kisaralik | 2.7 | -6.1 | 11.2 |
| River Ice Breakup Date | Kuskokwim | Kogrukluk | 4.3 | -2.9 | 11.6 |
| River Ice Breakup Date | Kuskokwim | Kwethluk | 3.9 | -3.9 | 11.8 |
| River Ice Breakup Date | Kuskokwim | Oskawalik | 4.3 | -4.1 | 12.8 |
| River Ice Breakup Date | Kuskokwim | Pitka | 5.1 | -3.1 | 13.7 |
| River Ice Breakup Date | Kuskokwim | Swift | 3.2 | -5.2 | 11.3 |
| River Ice Breakup Date | Kuskokwim | Takotna | 4.8 | -2.7 | 12.6 |
| River Ice Breakup Date | Kuskokwim | Tatlawiksuk | 4.5 | -2.9 | 12.1 |
| River Ice Breakup Date | Kuskokwim | Tuluksak | 2.9 | -5.5 | 11.3 |
| Sea Ice Cover | Kuskokwim | Aniak | -22.2 | -33.6 | -11.3 |
| Sea Ice Cover | Kuskokwim | George | -12.8 | -20.9 | -4.6 |
| Sea Ice Cover | Kuskokwim | Goodnews | 0.9 | -13.6 | 15.8 |
| Sea Ice Cover | Kuskokwim | Holitna | -7.5 | -22.5 | 8.7 |
| Sea Ice Cover | Kuskokwim | Holokuk | -37.9 | -64.4 | -14.9 |
| Sea Ice Cover | Kuskokwim | Kisaralik | -4.3 | -20.0 | 13.2 |
| Sea Ice Cover | Kuskokwim | Kogrukluk | -22.9 | -34.2 | -12.0 |
| Sea Ice Cover | Kuskokwim | Kwethluk | -25.4 | -38.0 | -13.1 |
| Sea Ice Cover | Kuskokwim | Oskawalik | -32.7 | -55.8 | -12.6 |
| Sea Ice Cover | Kuskokwim | Pitka | -3.2 | -16.7 | 11.3 |
| Sea Ice Cover | Kuskokwim | Swift | -22.9 | -38.2 | -8.9 |
| Sea Ice Cover | Kuskokwim | Takotna | -11.6 | -21.1 | -2.0 |
| Sea Ice Cover | Kuskokwim | Tatlawiksuk | -5.0 | -14.6 | 4.6 |
| Sea Ice Cover | Kuskokwim | Tuluksak | -8.1 | -19.3 | 2.9 |
| Summer Sea Surface Temperature | Kuskokwim | Aniak | -16.2 | -24.5 | -8.2 |
| Summer Sea Surface Temperature | Kuskokwim | George | -11.6 | -18.8 | -3.6 |
| Summer Sea Surface Temperature | Kuskokwim | Goodnews | -12.5 | -20.7 | -3.2 |
| Summer Sea Surface Temperature | Kuskokwim | Holitna | -14.6 | -23.6 | -4.6 |
| Summer Sea Surface Temperature | Kuskokwim | Holokuk | -15.6 | -25.9 | -5.4 |
| Summer Sea Surface Temperature | Kuskokwim | Kisaralik | -19.3 | -29.9 | -10.1 |
| Summer Sea Surface Temperature | Kuskokwim | Kogrukluk | -17.4 | -25.6 | -10.1 |
| Summer Sea Surface Temperature | Kuskokwim | Kwethluk | -23.1 | -33.9 | -13.7 |
| Summer Sea Surface Temperature | Kuskokwim | Oskawalik | -15.2 | -25.2 | -4.8 |
| Summer Sea Surface Temperature | Kuskokwim | Pitka | -17.2 | -27.2 | -8.0 |
| Summer Sea Surface Temperature | Kuskokwim | Swift | -18.9 | -29.8 | -9.9 |
| Summer Sea Surface Temperature | Kuskokwim | Takotna | -13.5 | -20.8 | -6.0 |
| Summer Sea Surface Temperature | Kuskokwim | Tatlawiksuk | -13.0 | -20.3 | -5.1 |
| Summer Sea Surface Temperature | Kuskokwim | Tuluksak | -18.6 | -26.9 | -10.8 |
| Winter Sea Surface Temperature | Kuskokwim | Aniak | 18.9 | 8.8 | 28.3 |
| Winter Sea Surface Temperature | Kuskokwim | George | 19.7 | 10.9 | 28.3 |
| Winter Sea Surface Temperature | Kuskokwim | Goodnews | 19.6 | 8.9 | 30.0 |
| Winter Sea Surface Temperature | Kuskokwim | Holitna | 21.8 | 11.2 | 33.0 |
| Winter Sea Surface Temperature | Kuskokwim | Holokuk | 29.1 | 16.6 | 44.4 |
| Winter Sea Surface Temperature | Kuskokwim | Kisaralik | 25.0 | 14.1 | 37.6 |
| Winter Sea Surface Temperature | Kuskokwim | Kogrukluk | 24.9 | 15.7 | 35.3 |
| Winter Sea Surface Temperature | Kuskokwim | Kwethluk | 31.1 | 19.0 | 45.5 |
| Winter Sea Surface Temperature | Kuskokwim | Oskawalik | 23.6 | 12.6 | 35.4 |
| Winter Sea Surface Temperature | Kuskokwim | Pitka | 19.2 | 6.6 | 30.9 |
| Winter Sea Surface Temperature | Kuskokwim | Swift | 21.2 | 9.6 | 31.9 |
| Winter Sea Surface Temperature | Kuskokwim | Takotna | 19.4 | 9.9 | 28.2 |
| Winter Sea Surface Temperature | Kuskokwim | Tatlawiksuk | 19.3 | 9.3 | 28.4 |
| Winter Sea Surface Temperature | Kuskokwim | Tuluksak | 23.9 | 14.5 | 34.4 |
| Body Size | Yukon (CA) | Carmacks | 22.4 | 13.6 | 30.7 |
| Body Size | Yukon (CA) | Lower Mainstem | 28.1 | 18.5 | 39.1 |
| Body Size | Yukon (CA) | Mid Mainstem | 23.9 | 14.5 | 33.1 |
| Body Size | Yukon (CA) | Pelly | 22.7 | 14.1 | 31.1 |
| Body Size | Yukon (CA) | Stewart | 25.7 | 16.8 | 34.9 |
| Body Size | Yukon (CA) | Teslin | 24.8 | 15.7 | 34.1 |
| Body Size | Yukon (CA) | Upper Lakes Mainstem | 26.0 | 16.6 | 36.2 |
| Body Size | Yukon (CA) | White-Donjek | 24.6 | 15.7 | 33.6 |
| Cross-shelf wind | Yukon (CA) | Carmacks | -7.4 | -16.7 | 1.5 |
| Cross-shelf wind | Yukon (CA) | Lower Mainstem | -6.9 | -17.0 | 2.3 |
| Cross-shelf wind | Yukon (CA) | Mid Mainstem | 0.4 | -9.5 | 11.8 |
| Cross-shelf wind | Yukon (CA) | Pelly | -6.1 | -14.9 | 2.9 |
| Cross-shelf wind | Yukon (CA) | Stewart | 1.3 | -8.8 | 12.8 |
| Cross-shelf wind | Yukon (CA) | Teslin | -4.4 | -13.5 | 4.3 |
| Cross-shelf wind | Yukon (CA) | Upper Lakes Mainstem | -5.6 | -15.3 | 3.7 |
| Cross-shelf wind | Yukon (CA) | White-Donjek | -4.0 | -13.1 | 4.8 |
| Daily stream temp | Yukon (CA) | Carmacks | -7.2 | -19.8 | 3.8 |
| Daily stream temp | Yukon (CA) | Lower Mainstem | 3.7 | -8.4 | 19.2 |
| Daily stream temp | Yukon (CA) | Mid Mainstem | -0.2 | -11.7 | 12.1 |
| Daily stream temp | Yukon (CA) | Pelly | 0.8 | -9.3 | 11.4 |
| Daily stream temp | Yukon (CA) | Stewart | -3.9 | -14.7 | 6.9 |
| Daily stream temp | Yukon (CA) | Teslin | -5.1 | -16.3 | 5.6 |
| Daily stream temp | Yukon (CA) | Upper Lakes Mainstem | -1.7 | -12.8 | 10.8 |
| Daily stream temp | Yukon (CA) | White-Donjek | -5.3 | -14.8 | 4.1 |
| Marine Competitors | Yukon (CA) | Carmacks | 0.9 | -21.1 | 23.2 |
| Marine Competitors | Yukon (CA) | Lower Mainstem | -33.5 | -62.5 | -6.9 |
| Marine Competitors | Yukon (CA) | Mid Mainstem | -46.6 | -78.0 | -16.2 |
| Marine Competitors | Yukon (CA) | Pelly | -10.2 | -30.9 | 11.6 |
| Marine Competitors | Yukon (CA) | Stewart | -4.0 | -30.2 | 23.2 |
| Marine Competitors | Yukon (CA) | Teslin | -8.0 | -31.2 | 17.0 |
| Marine Competitors | Yukon (CA) | Upper Lakes Mainstem | -50.3 | -86.9 | -16.2 |
| Marine Competitors | Yukon (CA) | White-Donjek | 0.9 | -23.2 | 27.5 |
| Maximum Daily Migration Temp | Yukon (CA) | Carmacks | -8.6 | -18.6 | 1.5 |
| Maximum Daily Migration Temp | Yukon (CA) | Lower Mainstem | -2.6 | -15.6 | 11.4 |
| Maximum Daily Migration Temp | Yukon (CA) | Mid Mainstem | 5.3 | -10.7 | 21.0 |
| Maximum Daily Migration Temp | Yukon (CA) | Pelly | -17.1 | -27.8 | -6.9 |
| Maximum Daily Migration Temp | Yukon (CA) | Stewart | -25.2 | -40.2 | -10.9 |
| Maximum Daily Migration Temp | Yukon (CA) | Teslin | -6.3 | -18.9 | 6.9 |
| Maximum Daily Migration Temp | Yukon (CA) | Upper Lakes Mainstem | 0.5 | -14.9 | 17.5 |
| Maximum Daily Migration Temp | Yukon (CA) | White-Donjek | -29.5 | -44.9 | -13.2 |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Carmacks*** | ***6.9*** | ***-6.4*** | ***19.3*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Lower Mainstem*** | ***-13.4*** | ***-28.2*** | ***-0.2*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Mid Mainstem*** | ***-19.0*** | ***-33.8*** | ***-5.4*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Pelly*** | ***-11.1*** | ***-21.4*** | ***-0.8*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Stewart*** | ***-6.5*** | ***-17.6*** | ***4.6*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Teslin*** | ***-2.9*** | ***-16.1*** | ***10.9*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***Upper Lakes Mainstem*** | ***-18.2*** | ***-34.0*** | ***-4.0*** |
| ***Maximum daily streamflow*** | ***Yukon (CA)*** | ***White-Donjek*** | ***-15.3*** | ***-26.8*** | ***-4.2*** |
| Median daily streamflow | Yukon (CA) | Carmacks | -1.2 | -9.5 | 7.5 |
| Median daily streamflow | Yukon (CA) | Lower Mainstem | -2.8 | -12.4 | 6.4 |
| Median daily streamflow | Yukon (CA) | Mid Mainstem | -5.0 | -16.4 | 5.5 |
| Median daily streamflow | Yukon (CA) | Pelly | -2.1 | -11.4 | 7.0 |
| Median daily streamflow | Yukon (CA) | Stewart | -5.0 | -15.6 | 4.4 |
| Median daily streamflow | Yukon (CA) | Teslin | 1.4 | -8.5 | 11.9 |
| Median daily streamflow | Yukon (CA) | Upper Lakes Mainstem | -3.5 | -13.5 | 5.9 |
| Median daily streamflow | Yukon (CA) | White-Donjek | -0.9 | -9.3 | 7.4 |
| River Ice Breakup Date | Yukon (CA) | Carmacks | -10.9 | -19.7 | -2.0 |
| River Ice Breakup Date | Yukon (CA) | Lower Mainstem | -8.3 | -18.1 | 1.9 |
| River Ice Breakup Date | Yukon (CA) | Mid Mainstem | -13.6 | -24.5 | -3.3 |
| River Ice Breakup Date | Yukon (CA) | Pelly | -10.4 | -19.6 | -0.9 |
| River Ice Breakup Date | Yukon (CA) | Stewart | -9.8 | -19.6 | 0.1 |
| River Ice Breakup Date | Yukon (CA) | Teslin | -9.1 | -19.1 | 1.1 |
| River Ice Breakup Date | Yukon (CA) | Upper Lakes Mainstem | -13.0 | -23.8 | -2.5 |
| River Ice Breakup Date | Yukon (CA) | White-Donjek | -9.2 | -18.8 | 0.9 |
| Sea Ice Cover | Yukon (CA) | Carmacks | -6.4 | -12.4 | -0.1 |
| Sea Ice Cover | Yukon (CA) | Lower Mainstem | -6.8 | -13.8 | 0.2 |
| Sea Ice Cover | Yukon (CA) | Mid Mainstem | -4.7 | -11.8 | 3.0 |
| Sea Ice Cover | Yukon (CA) | Pelly | -8.2 | -14.9 | -1.9 |
| Sea Ice Cover | Yukon (CA) | Stewart | -6.7 | -13.4 | -0.1 |
| Sea Ice Cover | Yukon (CA) | Teslin | -6.9 | -13.7 | -0.4 |
| Sea Ice Cover | Yukon (CA) | Upper Lakes Mainstem | -5.3 | -12.4 | 2.3 |
| Sea Ice Cover | Yukon (CA) | White-Donjek | -8.2 | -15.4 | -1.4 |
| Summer Sea Surface Temperature | Yukon (CA) | Carmacks | -3.7 | -14.2 | 5.7 |
| Summer Sea Surface Temperature | Yukon (CA) | Lower Mainstem | -6.3 | -19.2 | 4.4 |
| Summer Sea Surface Temperature | Yukon (CA) | Mid Mainstem | 1.2 | -8.5 | 11.8 |
| Summer Sea Surface Temperature | Yukon (CA) | Pelly | -2.8 | -11.7 | 6.0 |
| Summer Sea Surface Temperature | Yukon (CA) | Stewart | 3.6 | -7.1 | 15.2 |
| Summer Sea Surface Temperature | Yukon (CA) | Teslin | -1.4 | -11.6 | 8.4 |
| Summer Sea Surface Temperature | Yukon (CA) | Upper Lakes Mainstem | 5.7 | -5.8 | 19.9 |
| Summer Sea Surface Temperature | Yukon (CA) | White-Donjek | -2.5 | -12.2 | 7.3 |
| Winter Sea Surface Temperature | Yukon (CA) | Carmacks | 12.9 | 4.5 | 21.4 |
| Winter Sea Surface Temperature | Yukon (CA) | Lower Mainstem | 15.0 | 5.6 | 24.8 |
| Winter Sea Surface Temperature | Yukon (CA) | Mid Mainstem | 13.1 | 4.6 | 22.1 |
| Winter Sea Surface Temperature | Yukon (CA) | Pelly | 12.1 | 3.5 | 20.6 |
| Winter Sea Surface Temperature | Yukon (CA) | Stewart | 11.7 | 3.0 | 20.5 |
| Winter Sea Surface Temperature | Yukon (CA) | Teslin | 11.9 | 3.0 | 20.8 |
| Winter Sea Surface Temperature | Yukon (CA) | Upper Lakes Mainstem | 14.2 | 4.7 | 23.9 |
| Winter Sea Surface Temperature | Yukon (CA) | White-Donjek | 11.7 | 2.7 | 20.4 |
| Body Size | Yukon (US) | Andreafsky East Fork | 26.0 | 0.8 | 48.7 |
| Body Size | Yukon (US) | Chena | 39.3 | 19.3 | 59.4 |
| Body Size | Yukon (US) | Gisasa | 42.9 | 20.7 | 65.6 |
| Body Size | Yukon (US) | Salcha | 34.3 | 16.9 | 51.8 |
| Cross-shelf wind | Yukon (US) | Andreafsky East Fork | -13.7 | -25.6 | -1.9 |
| Cross-shelf wind | Yukon (US) | Chena | -9.0 | -18.5 | 0.8 |
| Cross-shelf wind | Yukon (US) | Gisasa | -16.2 | -28.1 | -5.0 |
| Cross-shelf wind | Yukon (US) | Salcha | -9.9 | -18.3 | -1.6 |
| Daily stream temp | Yukon (US) | Andreafsky East Fork | 10.3 | -2.9 | 25.7 |
| Daily stream temp | Yukon (US) | Chena | 1.6 | -8.4 | 11.3 |
| Daily stream temp | Yukon (US) | Gisasa | 6.7 | -4.3 | 18.6 |
| Daily stream temp | Yukon (US) | Salcha | -0.4 | -11.3 | 9.5 |
| Marine Competitors | Yukon (US) | Andreafsky East Fork | 39.4 | -26.9 | 110.7 |
| Marine Competitors | Yukon (US) | Chena | -14.7 | -47.4 | 17.3 |
| Marine Competitors | Yukon (US) | Gisasa | -7.2 | -60.9 | 44.5 |
| Marine Competitors | Yukon (US) | Salcha | -51.0 | -87.8 | -14.9 |
| Maximum Daily Migration Temp | Yukon (US) | Andreafsky East Fork | -9.1 | -27.6 | 14.1 |
| Maximum Daily Migration Temp | Yukon (US) | Chena | -20.0 | -32.1 | -8.1 |
| Maximum Daily Migration Temp | Yukon (US) | Gisasa | -22.7 | -36.9 | -9.1 |
| Maximum Daily Migration Temp | Yukon (US) | Salcha | -15.2 | -26.2 | -3.9 |
| Maximum daily streamflow | Yukon (US) | Andreafsky East Fork | -7.8 | -22.3 | 5.3 |
| Maximum daily streamflow | Yukon (US) | Chena | -9.1 | -21.1 | 1.7 |
| Maximum daily streamflow | Yukon (US) | Gisasa | 0.9 | -11.6 | 14.7 |
| Maximum daily streamflow | Yukon (US) | Salcha | -6.1 | -15.8 | 3.2 |
| Median daily streamflow | Yukon (US) | Andreafsky East Fork | 4.1 | -13.0 | 25.0 |
| Median daily streamflow | Yukon (US) | Chena | -10.5 | -22.7 | 1.1 |
| Median daily streamflow | Yukon (US) | Gisasa | -3.1 | -17.2 | 11.9 |
| Median daily streamflow | Yukon (US) | Salcha | -10.4 | -21.5 | 0.4 |
| River Ice Breakup Date | Yukon (US) | Andreafsky East Fork | 29.6 | 1.1 | 57.0 |
| River Ice Breakup Date | Yukon (US) | Chena | -9.3 | -21.7 | 2.5 |
| River Ice Breakup Date | Yukon (US) | Gisasa | 5.2 | -10.4 | 20.7 |
| River Ice Breakup Date | Yukon (US) | Salcha | -13.1 | -23.4 | -2.4 |
| Sea Ice Cover | Yukon (US) | Andreafsky East Fork | -1.4 | -12.2 | 9.5 |
| Sea Ice Cover | Yukon (US) | Chena | -4.1 | -14.8 | 6.2 |
| Sea Ice Cover | Yukon (US) | Gisasa | 2.8 | -8.2 | 13.6 |
| Sea Ice Cover | Yukon (US) | Salcha | -4.6 | -14.4 | 5.1 |
| Summer Sea Surface Temperature | Yukon (US) | Andreafsky East Fork | -19.7 | -32.3 | -8.1 |
| Summer Sea Surface Temperature | Yukon (US) | Chena | -17.8 | -29.2 | -6.7 |
| Summer Sea Surface Temperature | Yukon (US) | Gisasa | -22.3 | -35.2 | -9.9 |
| Summer Sea Surface Temperature | Yukon (US) | Salcha | -10.6 | -21.9 | 1.7 |
| Winter Sea Surface Temperature | Yukon (US) | Andreafsky East Fork | 14.9 | 3.5 | 25.9 |
| Winter Sea Surface Temperature | Yukon (US) | Chena | 24.0 | 13.1 | 35.9 |
| Winter Sea Surface Temperature | Yukon (US) | Gisasa | 16.0 | 5.1 | 26.4 |
| Winter Sea Surface Temperature | Yukon (US) | Salcha | 24.2 | 13.2 | 36.1 |