**Table S2.** For each lake-year, we calculated the mean winter (December-February), spring (March-May), summer (June-August), and fall (September-November) temperature and precipitation trends from PRISM (see *Methods* for details). We calculated the non-parametric Theil-Sen's slope for each lake time series of season precipitation or temperature. In the tables below, we summarized the number of lakes (and percentage of the lakes in each Trend-Model shift combination) that showed substantial trends in precipitation or temperature, using the Mann-Kendall z-score to test for statistical significant at the α = 0.05 level. Dashes ( - ) indicate that no lakes showed trends in that particular category. Overall, the most widespread climatic trends in the region were increasing summer and fall temperatures. Lakes with color trends classified as Blue -> Greener, nearly every lake has experienced substantially summer warming. Precipitation trends were much more variable and the majority of lakes have not experienced large shifts in PRISM-estimated monthly precipitation.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Winter temps.** | | **Spring temps.** | | **Summer temps.** | | | **Fall temps.** | | |
| **Sens slope** | **Trend** | **Modal shift** | ↑ | **↓** | ↑ | **↓** | ↑ | **↓** | | ↑ | **↓** | |
| No trend | No trend | No net change | - | - | - | 1 (0.3%) | 182 (62.8%) | | - | 206 (71%) | | - |
| Negative | Intensifying Blue | No net change | - | - | - | - | 39 (65%) | | - | 35 (58.3%) | | - |
| Negative | Green -> Bluer | Green/murky to Blue/clear | - | - | - | - | 11 (73.3%) | | - | 10 (66.7%) | | - |
| Negative | Green -> Bluer | No net change | - | - | - | - | 56 (62.2%) | | - | 78 (86.7%) | | - |
| Positive | Intensifying Green/Yellow | No net change | - | - | - | - | 17 (51.5%) | | - | 28 (84.8%) | | - |
| Positive | Blue -> Greener | No net change | - | - | - | - | 27 (87.1%) | | - | 25 (80.6%) | | - |
| Positive | Blue -> Greener | Blue/clear to Green/murky | - | - | - | - | 6 (100%) | | - | 5 (83.3%) | | - |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Winter precip.** | | **Spring precip.** | | **Summer precip.** | | **Fall precip.** | |
| **Sens slope** | **Trend** | **Modal shift** | ↑ | **↓** | ↑ | **↓** | ↑ | **↓** | ↑ | **↓** |
| No trend | No trend | No net change | 33 (11.4%) | - | 11 (3.8%) | 5 (1.7%) | - | 16 (5.5%) | 2 (0.7%) | - |
| Negative | Intensifying Blue | No net change | 7 (11.7%) | - | 3 (5%) | 2 (3.3%) | - | - | - | - |
| Negative | Green -> Bluer | Green/murky to Blue/clear | 1 (6.7%) | - | 1 (6.7%) | - | - | - | - | - |
| Negative | Green -> Bluer | No net change | 6 (6.7%) | - | 9 (10%) | - | - | 2 (2.2%) | - | - |
| Positive | Intensifying Green/Yellow | No net change | 6 (18.2%) | - | 3 (9.1%) | - | - | 3 (9.1%) | - | - |
| Positive | Blue -> Greener | Blue/clear to Green/murky | 3 (50%) | - | - | - | - | - | - | - |
| Positive | Blue -> Greener | No net change | 1 (3.2%) | 1 (3.2%) | - | - | - | 2 (6.5%) | - | - |