**Supplementary material:**

**Figure S1:** Time series of NOAA Sea Surface Temperature (°C) from 1981 to 2020 in the SST-representative pixels per ecoregion.

Chart

Description automatically generated

**Table S1.** Descriptive statistics of SST (°C) for the representative NOAA-SST sites by ecoregion.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ecoregion | Location | Mean | (+/- sd) | Median | 1st Q | 3rd Q | Min | Max |
| Channels | Punta Carrera | 7.45 | 1.28 | 7.3 | 6.35 | 8.56 | 3.99 | 11.22 |
|  | Isla Grevy | 7.45 | 1.41 | 7.4 | 6.23 | 8.68 | 3.63 | 10.79 |
| Falklands | Sea Lion | 7.26 | 1.80 | 7.09 | 5.64 | 8.82 | 3.03 | 12.24 |
|  | Pebble | 7.71 | 1.99 | 7.56 | 5.94 | 9.48 | 2.99 | 12.77 |
| South Georgia | Annenkov | 1.88 | 1.41 | 1.76 | 0.69 | 3.04 | -1.76 | 5.97 |
|  | Stromness | 1.91 | 1.35 | 1.8 | 0.73 | 3.04 | -1.74 | 6.06 |