This is an excel file with timeseries of bottom temperature and cold pool extent in the rock sole settlement polygon, as simulated by the various CMIP5-forced ROMS Bering 10K simulations.  Each forecast sheet includes 4 timeseries:

 - btemp = temperature in the bottom layer of the settlement polygon, averaged spatially

 - cpool\_1 = fraction of the settlement polygon with bottom temperatures below 0 deg C

 - cpool\_2 = fraction of the settlement polygon with bottom temperatures below 1 deg C

 - cpool\_3 = fraction of the settlement polygon with bottom temperatures below 2 deg C

The SkillStats sheet holds some numbers related to a very quick skill assessment I ran on the CFS\_hindcast data versus groundfish survey observations.  The rows labeled EBS run the analysis on the data within Eastern bering sea polygon (sampling strata 10-62, i.e. the region traditionally used for the cold pool index), while the ones labeled Rock sole repeat the same analysis using your settlement polygon.  I'd take this analysis with a grain of salt, since there are only a few survey sample locations that fall into this little polygon... I was just curious how it performed.

  - std:        standard deviation, normalized to n.

  - cor:        correlation coefficient

  - rmsd:       root mean squared difference

  - crmsd:      centered pattern (i.e. unbiased) root mean squared difference

  - bias:       bias, i.e. average error

  -  stdnorm:    normalized standard deviation

  - rmsdnorm:   root mean squared difference, normalized to standard deviation of reference data

  - crmsdnorm:  centered root mean squared difference, normalized to standard deviation of reference data

  - aae:        average absolute error

  - mef:        modeling efficiency (skill relative to average of observations, 1 = perfect, 0 = same as averaging obs, <1 = worse than just averaging observations)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Skillstat | EBS, all data | Rock sole polygon, all data | EBS, yearly-averaged | Rock sole polygon, yearly-averaged |
| std\_obs | 1.8149 | 1.5001 | 0.8674 | 1.1557 |
| std\_mod | 1.8772 | 1.8983 | 0.8558 | 1.4417 |
| cor | 0.8117 | 0.7596 | 0.9174 | 0.7918 |
| rmsd | 1.2020 | 1.7452 | 0.5197 | 1.5169 |
| crmsd | 1.1344 | 1.2360 | 0.3503 | 0.8806 |
| bias | -0.3976 | -1.2321 | -0.3839 | -1.2351 |
| stdnorm | 1.0343 | 1.2655 | 0.9866 | 1.2474 |
| rmsdnorm | 0.6623 | 1.1634 | 0.5992 | 1.3125 |
| crmsdnorm | 0.6250 | 0.8240 | 0.4039 | 0.7620 |
| biasnorm | -0.2191 | -0.8214 | -0.4426 | -1.0687 |
| aae | 0.9189 | 1.4008 | 0.4504 | 1.2770 |
| mef | 0.5613 | -0.3536 | 0.6410 | -0.7227 |