Truth simulation data used: data_matrix_4/
smbt11950smbtf2300smb00.324smb10.162smbf0sillmin415
sillmax425sillslope0.01hnd2.18lnd4.44bx-0.001.csv

Below is the data gathered from simulating the convergence of our output using the two-stage ice sheet model and the truth simulation above and assimilating data based on 'observations' over 350 years (from 1950 to 2300) with varying time intervals between 'observations'. The Data in the following Table is given in up to 7 significant digits:

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Label
               | # of Observations | Mean of
Covariance Norms (CNs) | Variance of CNs | Minimum
l Maximum
Every 3 months | 1400
                                   0.0073922
                 | 0.0014523 | 0.026898
1.04e-05
Every 6 months | 700
                                   0.0071205
| 1.01e-05
                 | 0.0015455 |
                               0.0231747
Yearly
                350
                                   0.0081216
1 9.3e-06
                 | 0.0019141
                               0.020219
Every 2 years
                 175
                                   0.0071475
| 9e-06
                  | 0.0012133 |
                               0.0186514
Every 4 years
               88
                                   0.0065967
1.07e-05
                   0.0011107
                               0.016873
Every 8 years
                 44
                                   0.0072841
1.45e-05
                   0.0012351
                               0.0209728
Every 16 years |
                22
                                   | 0.0073536
1.7e-05
                  | 0.0029061 |
                               0.0212402
```

We see that for this example, our results get

closest to the truth simulations when assimilating observations once every 2 years.

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Number of observations since 1950: 1400 Mean of covariance norms: 0.0073922 Variance of covariance norms: 1.04e-05

minimum: 0.0014523

maximum: 0.026898 - note: all rounded to 7

significant digits

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Number of observations since 1950: 700 Mean of covariance norms: 0.0071205 Variance of covariance norms: 1.01e-05

minimum: 0.0015455

maximum: 0.0231747 - note: all rounded to 7

significant digits

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Number of observations since 1950: 350 Mean of covariance norms: 0.0081216 Variance of covariance norms: 9.3e-06

minimum: 0.0019141

maximum: 0.020219 - note: all rounded to 7

significant digits

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Number of observations since 1950: 175
Mean of covariance norms: 0.0071475
Variance of covariance norms: 9e-06
minimum: 0.0012133

maximum: 0.0186514 - note: all rounded to 7 significant digits

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Number of observations since 1950: 88 Mean of covariance norms: 0.0065967 Variance of covariance norms: 1.07e-05

minimum: 0.0011107

maximum: 0.016873 - note: all rounded to 7

significant digits

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Number of observations since 1950: 44 Mean of covariance norms: 0.0072841 Variance of covariance norms: 1.45e-05

minimum: 0.0012351

maximum: 0.0209728 - note: all rounded to 7

significant digits

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Number of observations since 1950: 22 Mean of covariance norms: 0.0073536 Variance of covariance norms: 1.7e-05

minimum: 0.0029061

maximum: 0.0212402 - note: all rounded to 7

significant digits