Prediction of stochastic models at 96^2, Gaussian filter, lower fluid layer

Model mean $\mathrm{E}(\widetilde{S}|\overline{q})$ — Model std $\mathrm{Std}(\widetilde{S}|\overline{q})$ — True residual $r = S - \mathrm{E}(\widetilde{S}|\overline{q})$ — Simulated residual $\widetilde{r} = \widetilde{S} - \mathrm{E}(\widetilde{S}|\overline{q})$

Subgrid forcing S

GZ, GAN, VAE

$x_{rms} = 4.9 \times 10^{-14}$, $x_{rms} = 8.3 \times 10^{-15}$, $x_{rms} = 8.4 \times 10^{-15}$, $x_{rms} = 8.3 \times 10^{-15}$

$x_{rms} = 5 \times 10^{-14}$, $x_{rms} = 4.9 \times 10^{-14}$, $x_{rms} = 9.7 \times 10^{-15}$, $x_{rms} = 1 \times 10^{-14}$, $x_{rms} = 9.6 \times 10^{-15}$

$x_{rms} = 4.7 \times 10^{-14}$, $x_{rms} = 5.1 \times 10^{-15}$, $x_{rms} = 9 \times 10^{-15}$, $x_{rms} = 5.3 \times 10^{-15}$

$\widehat{x} = x/x_{rms}, [x] = s^{-2}$

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