

Total MSE [ $\text{MJ m}^{-2}$ ]

2640 2660 2680 2700 2720 2740 2760 2780 2800 2820



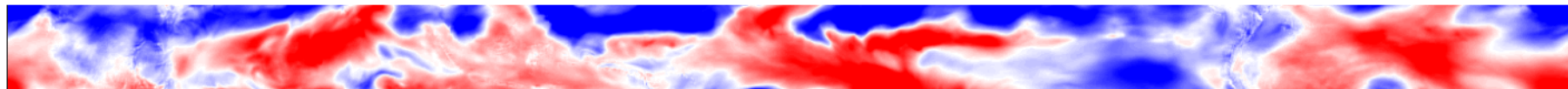
(a) ERA: Total MSE on Jan 1, 2010



(b) ERA: Time-averaged MSE from Jan 1, 2010 to Dec 31, 2014



(c) ERA: Transient MSE on Jan 1, 2010



(d) NG CTRL: Transient MSE for the control experiment



(e) NG UNI-RAD: Transient MSE with horizontally-uniform radiation



(f) NG UNI-SEF: Transient MSE with horizontally-uniform surface fluxes



(g) LC CTRL

(h) LC UNI-RAD

(i) LC UNI-SEF



12,288 km



-10

-5

0

5

10

Transient MSE/ $L_v$  [ $\text{kg m}^{-2}$ ]