

Supplementary Materials

for

PCA-MRM model to forecast TEC at middle latitudes

by

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This file contains Supplementary Materials (SM) referenced in the main text:

Figures S9-S19: Observed and forecasted using the PCA-MRM(L31, mean.lag1.2) model TEC 1h series for June 2015 with 90% confidence interval for February to December of 2015.

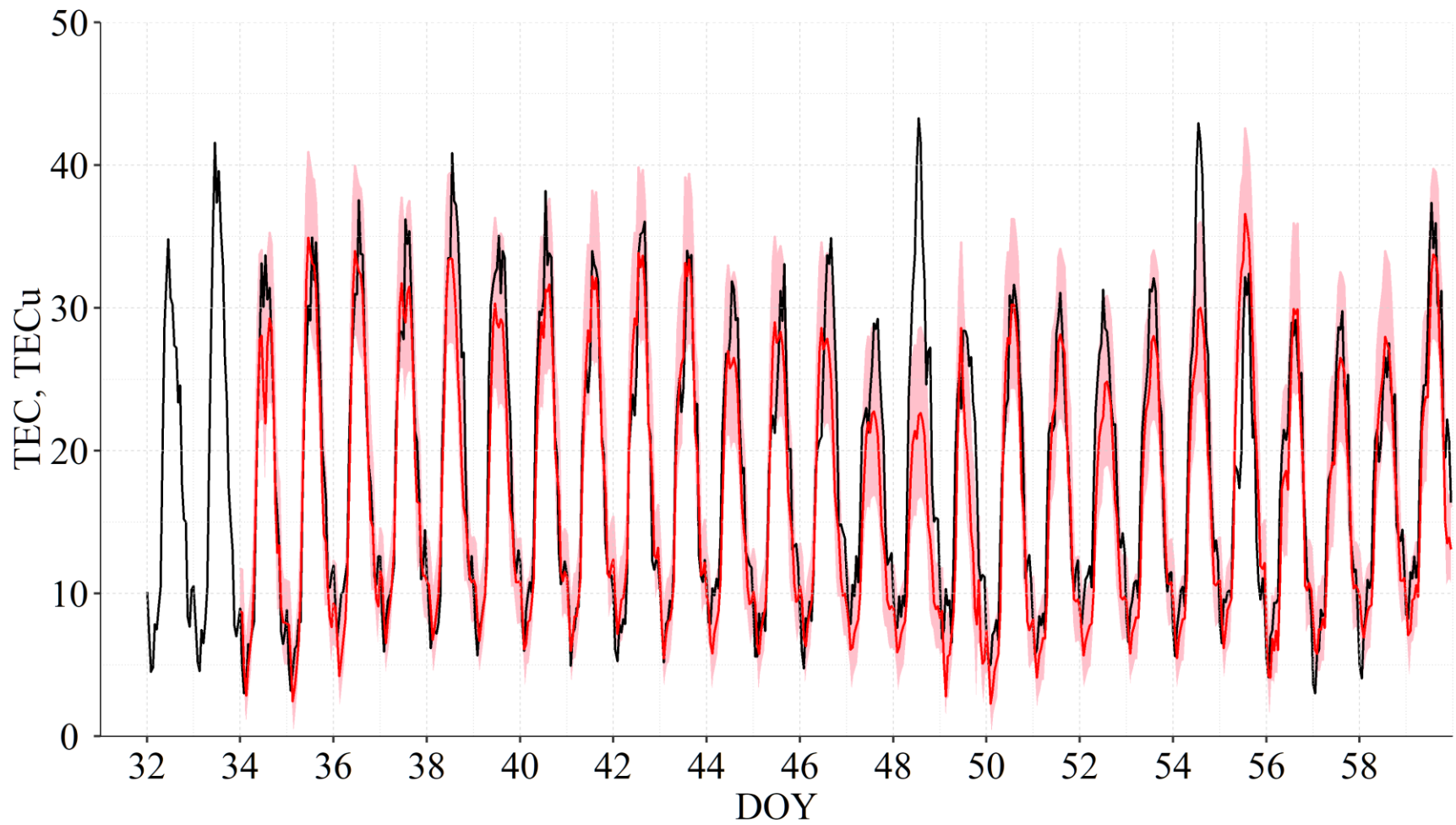


Figure S9. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for February 2015; pink area shows 90% confidence interval.

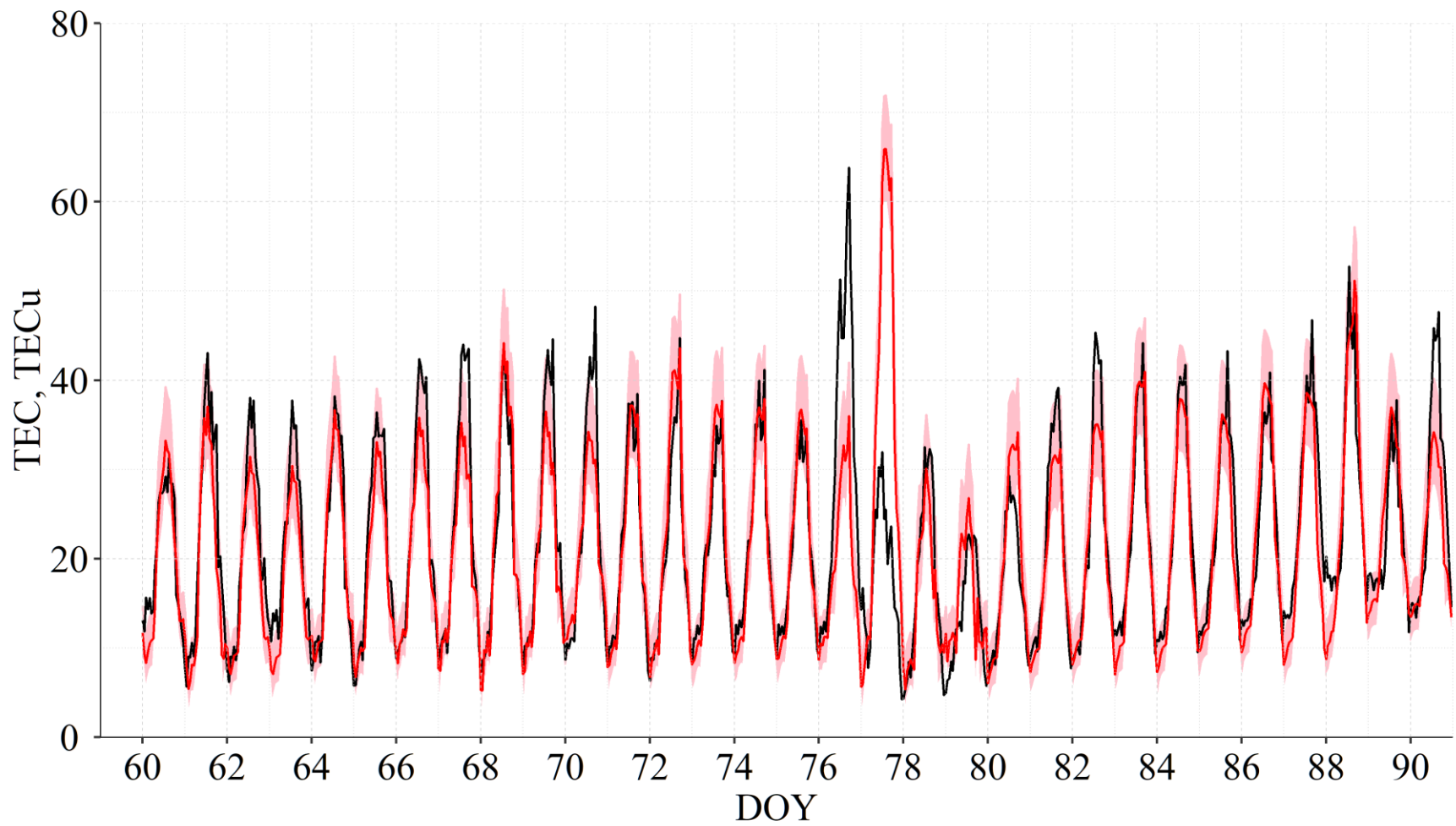


Figure S10. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for March 2015; pink area shows 90% confidence interval.

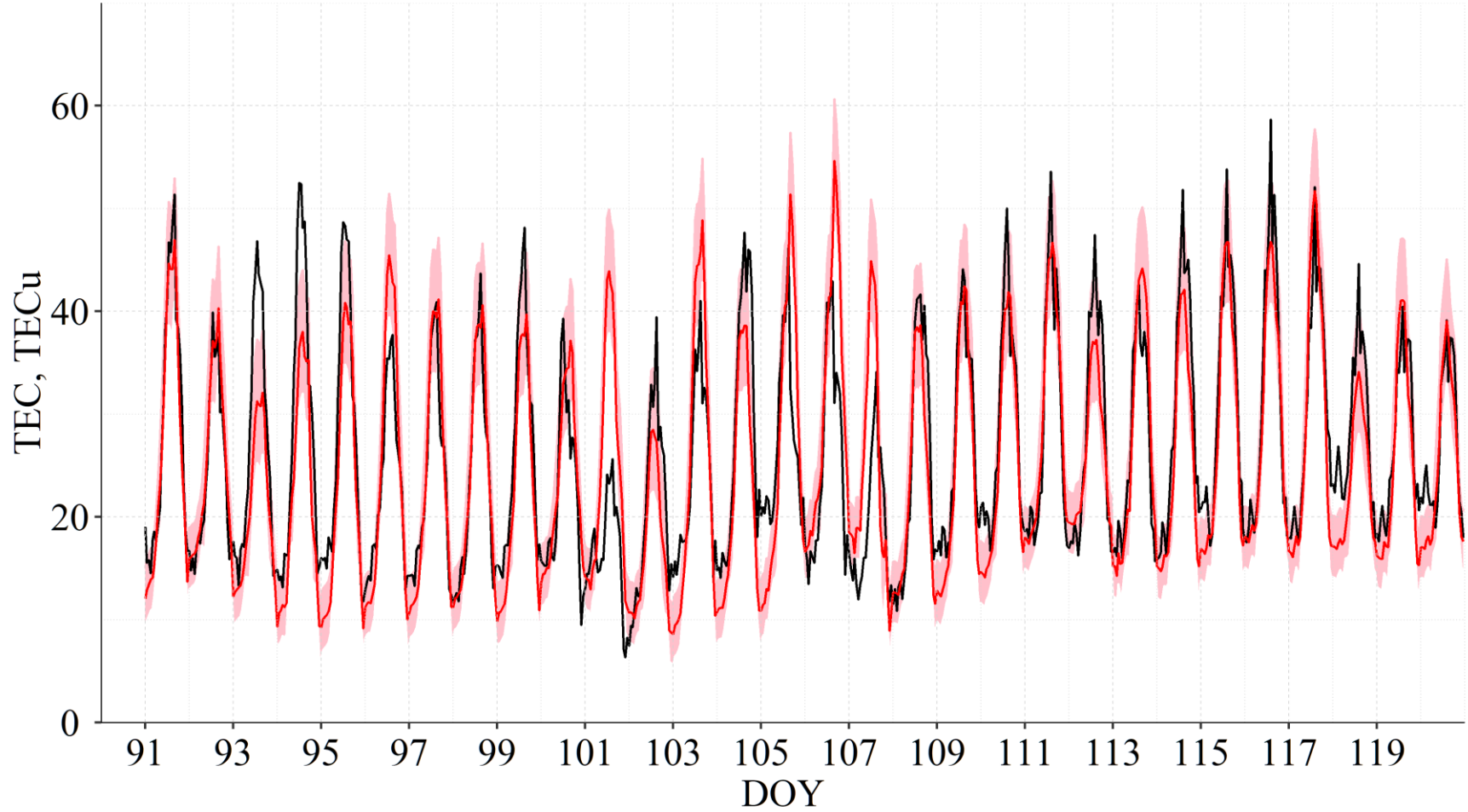


Figure S11. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for April 2015; pink area shows 90% confidence interval.

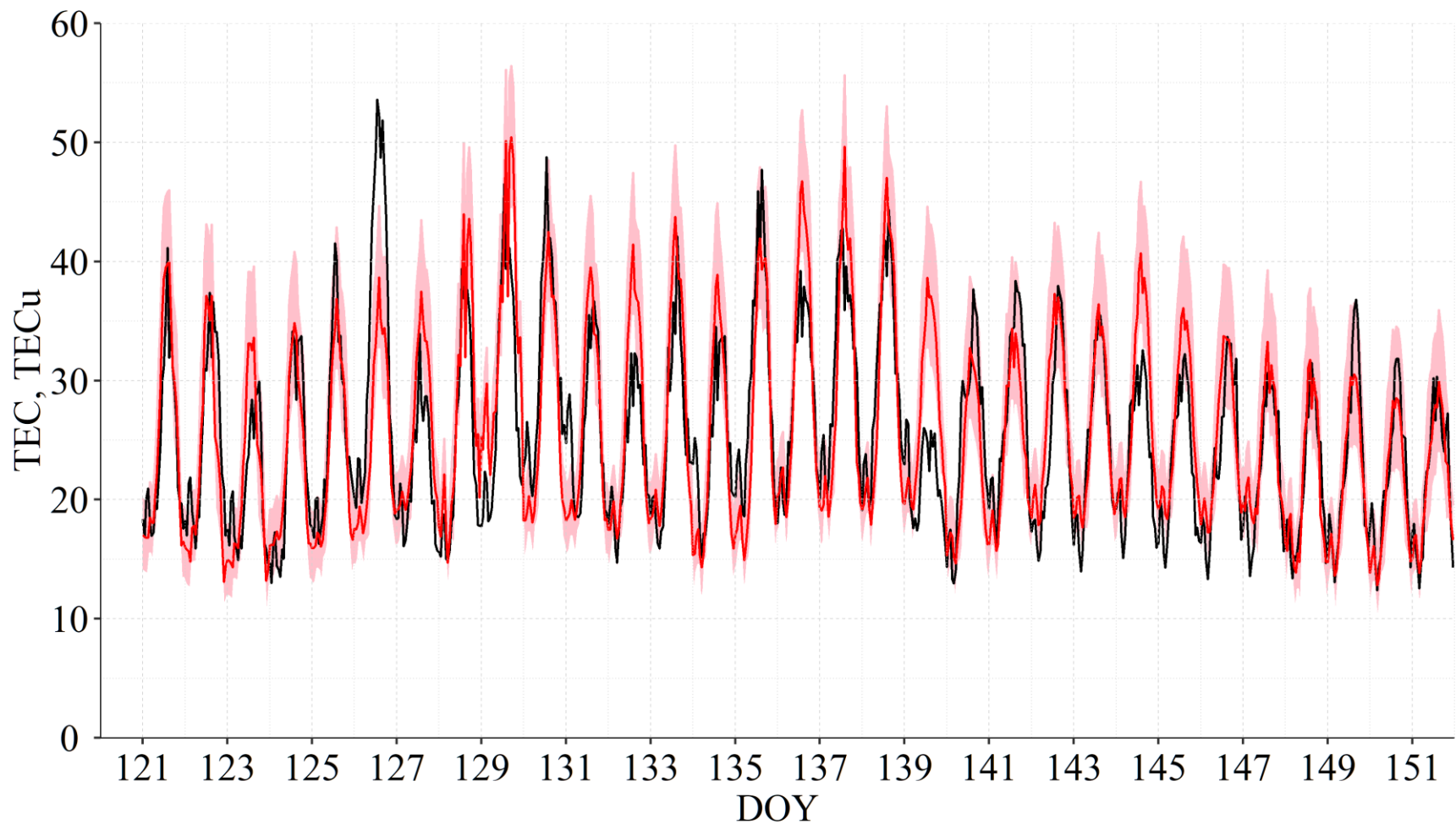


Figure S12. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for May 2015; pink area shows 90% confidence interval.

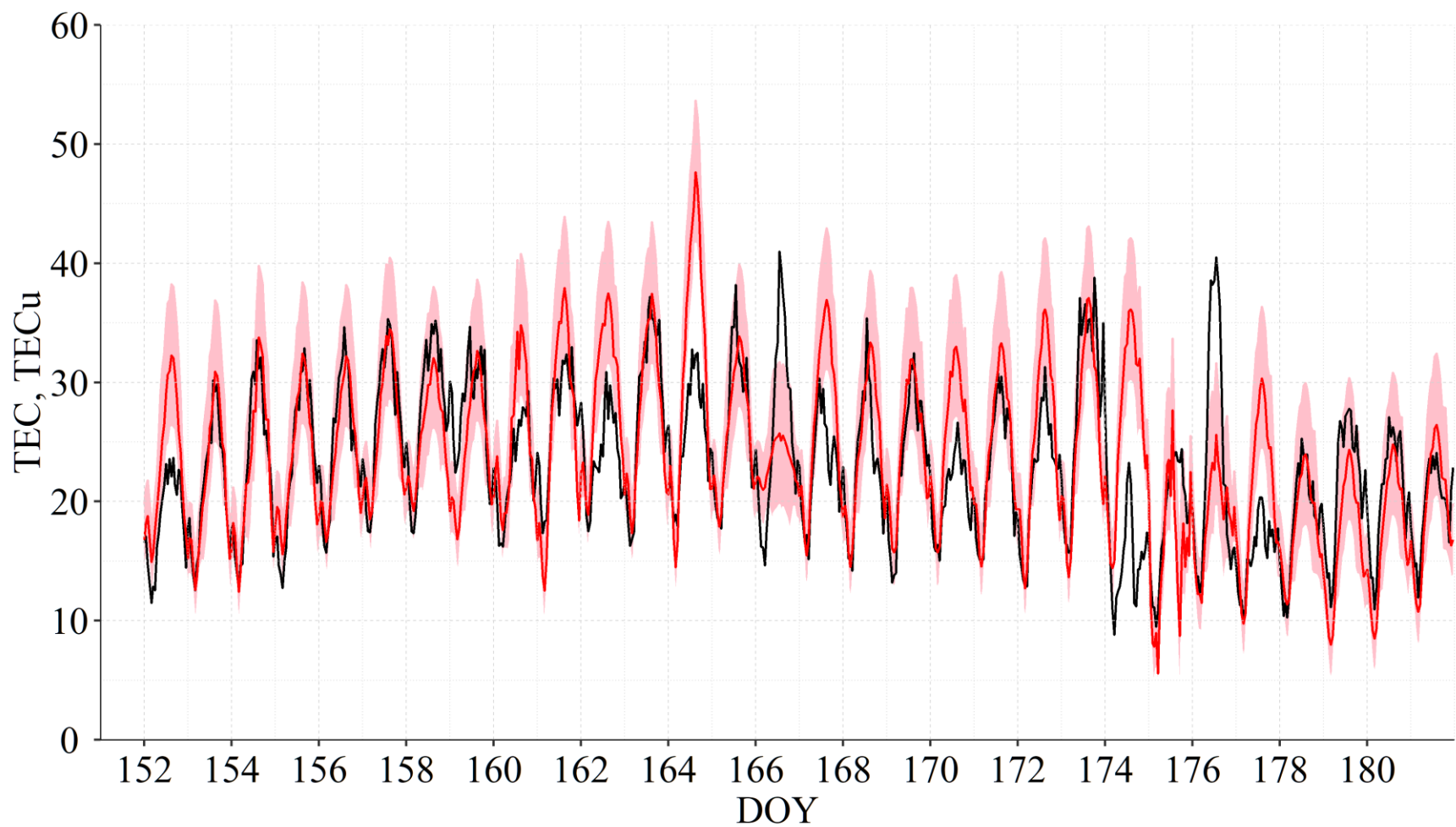


Figure S13. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for June 2015; pink area shows 90% confidence interval.

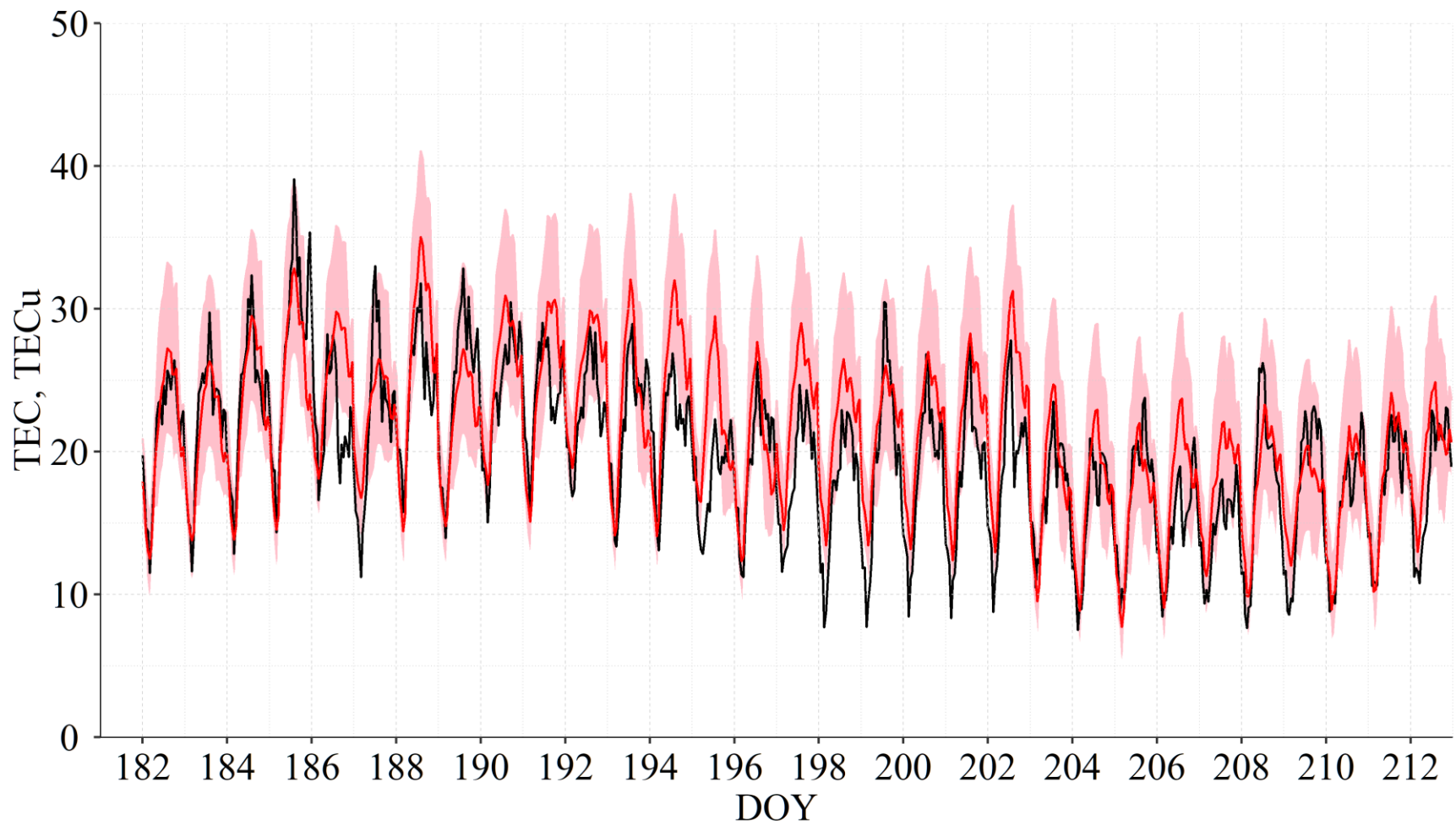


Figure S14. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for July 2015; pink area shows 90% confidence interval.

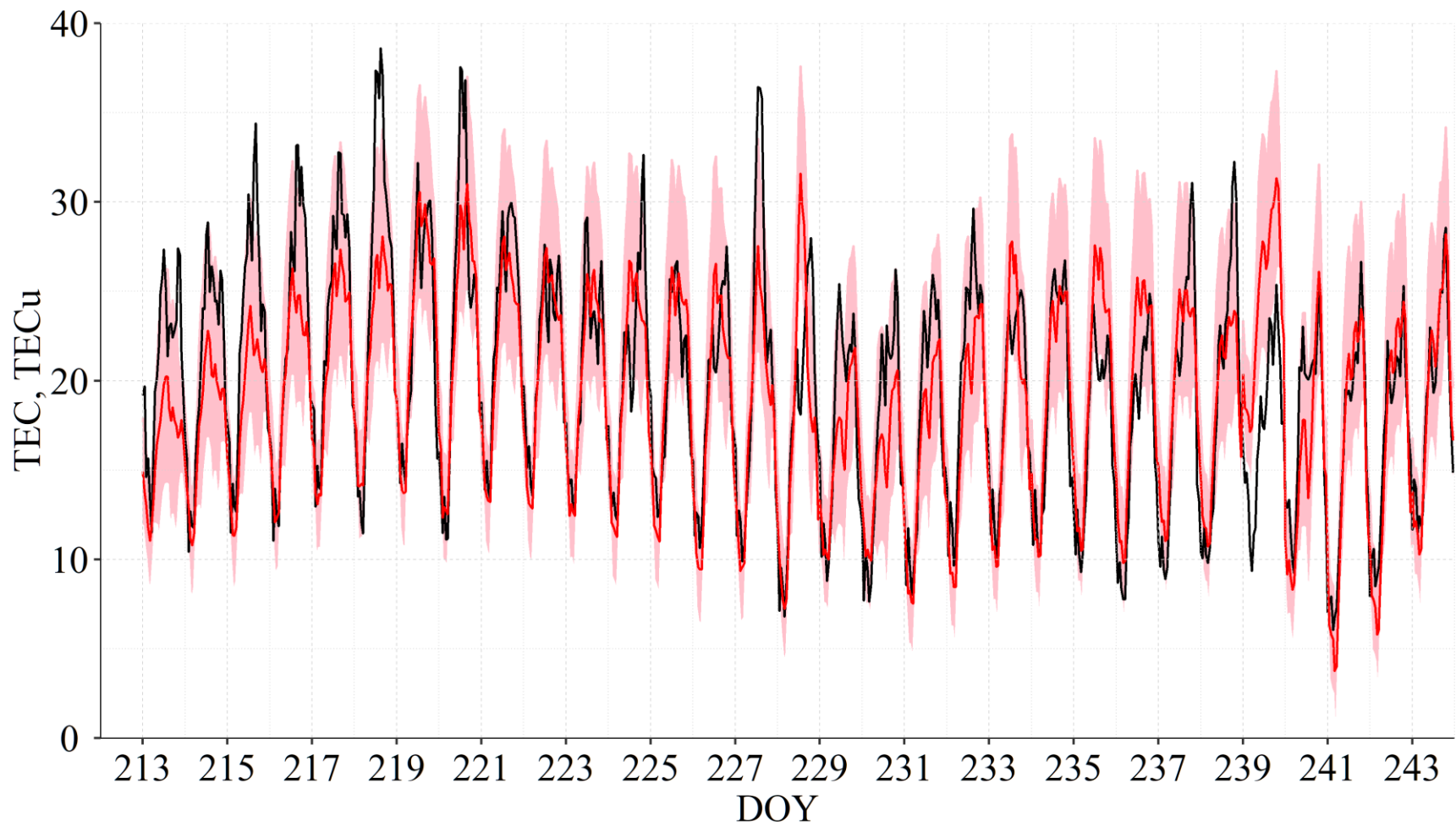


Figure S15. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for August 2015; pink area shows 90% confidence interval.

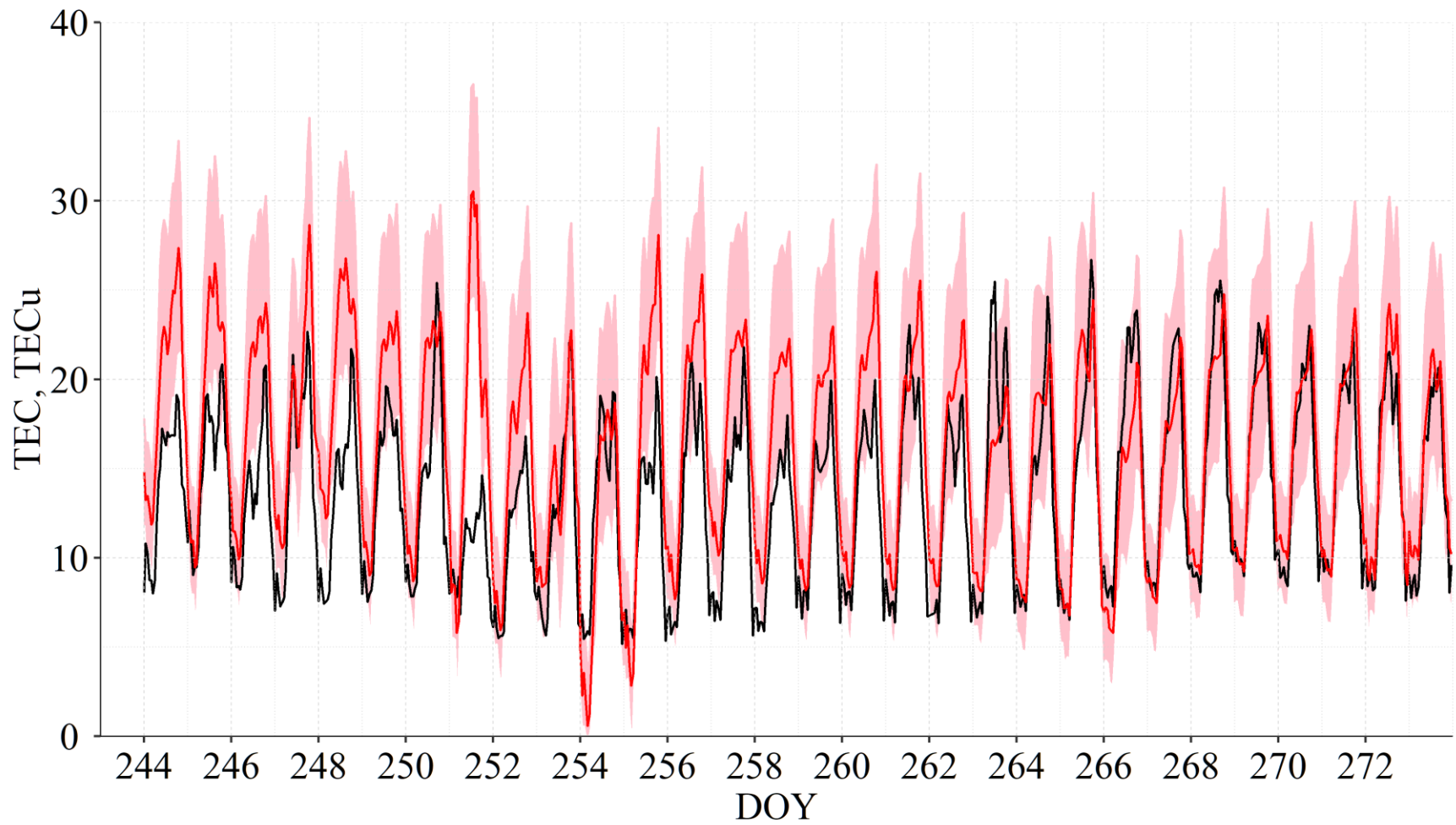


Figure S16. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for September 2015; pink area shows 90% confidence interval.

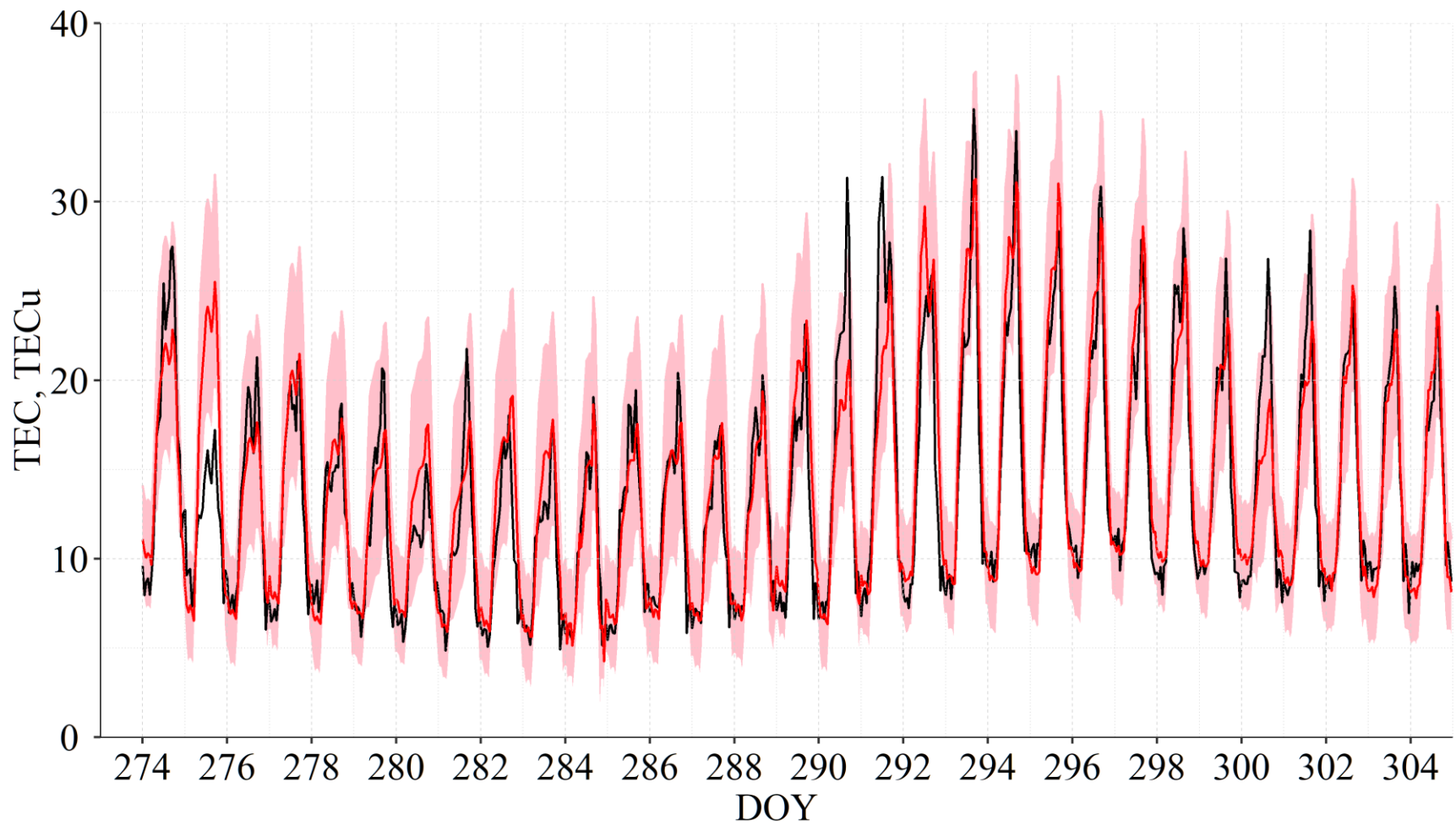


Figure S17. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for October 2015; pink area shows 90% confidence interval.

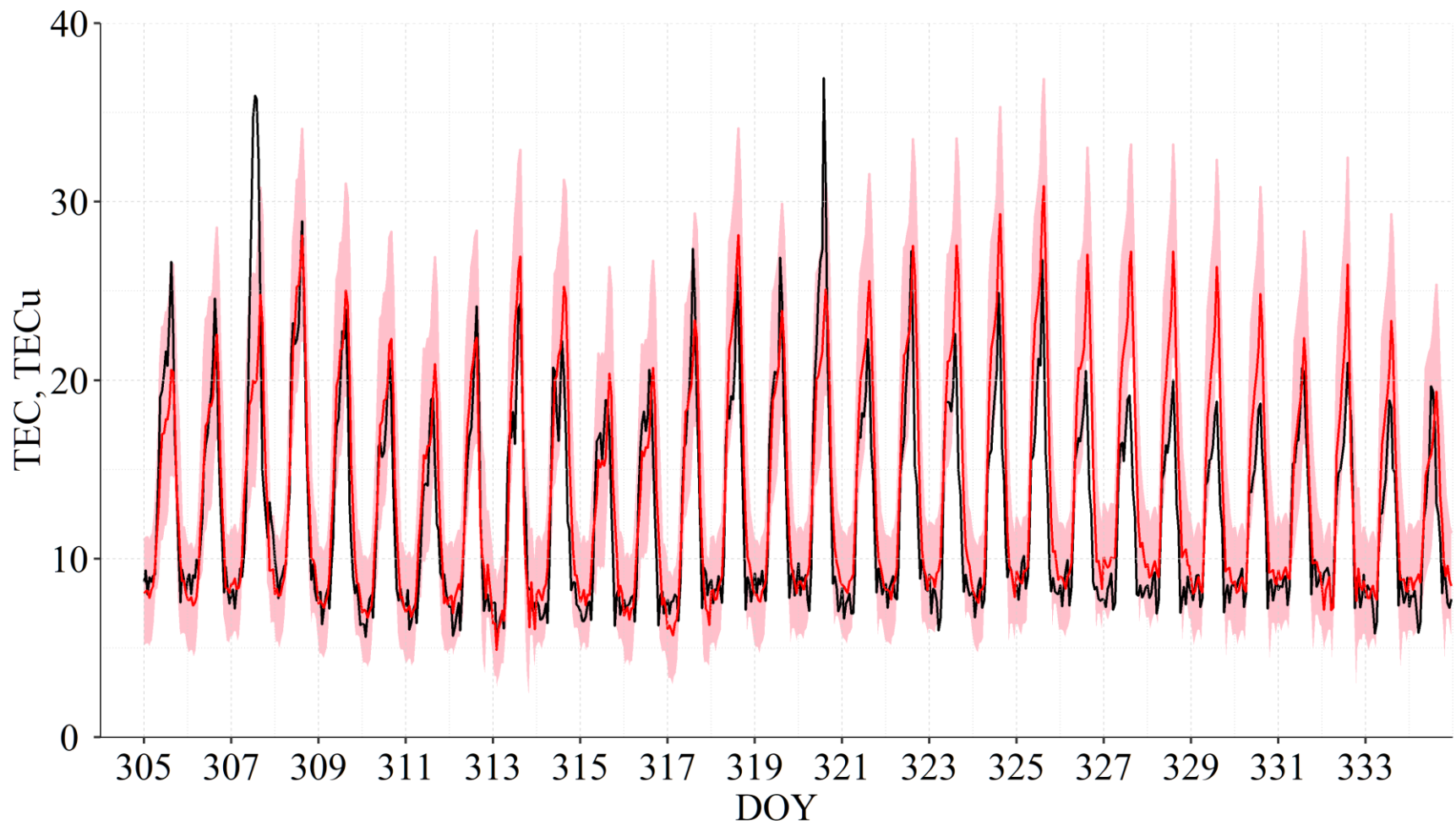


Figure S18. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for November 2015; pink area shows 90% confidence interval.

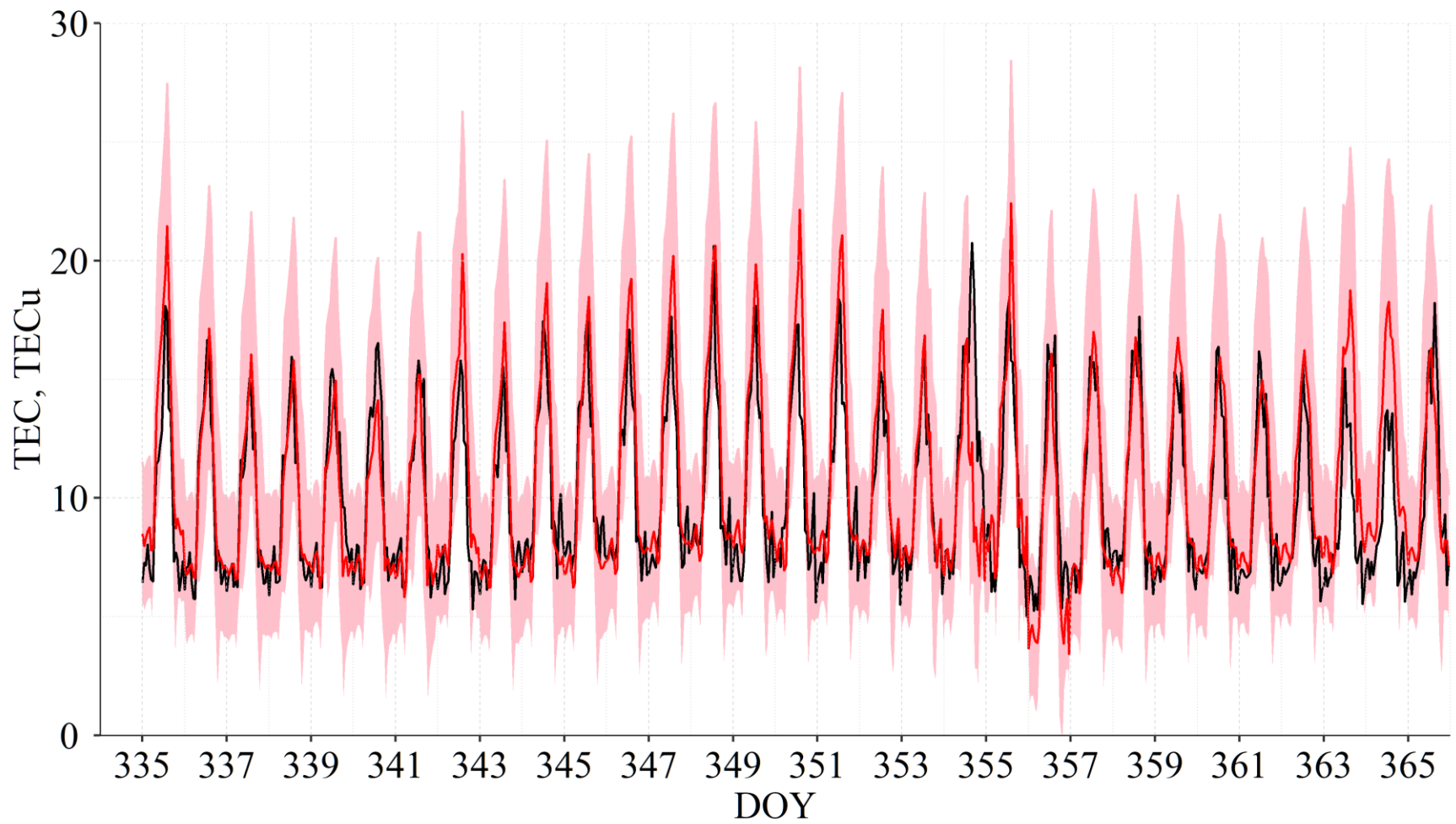


Figure S19. Observed (black) and forecasted using the PCA-MRM(L31, mean.lag1.2) model (red) TEC 1h series for December 2015; pink area shows 90% confidence interval.