

# HEMCO: an ESMF-compliant emission module for Earth System Models

New  
emission data

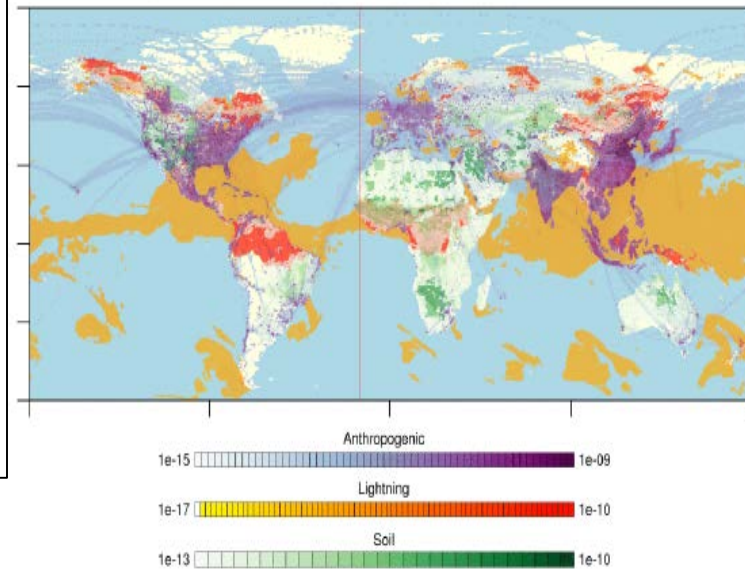
HEMCO emission  
data library  
(NetCDF)

**User input file:**  
selects emission inventories,  
scale factors, regional masks/additions,  
correlative emissions, etc.



- HEMCO allows to mix/match/scale/overlay any ensemble of emission data for use in ESMs
- Users only edit an input file; no need to edit or compile code, no need to re-grid data
- HEMCO also includes modules for emissions dependent on environmental variables
- HEMCO is now in the GMAO GEOS DAS and is the standard GEOS-Chem emission module

NO emissions [kg/m<sup>2</sup>/s]



C. A. Keller, M. S. Long, R. M. Yantosca, A. M. Da Silva, S. Pawson, and D. J. Jacob, *Geosci. Model Dev.*, 7, 1409-1417, 2014.

