

FI2	single profile from Manicardi w/ ±10% random scaling	GMI Daily profiles in 2006		Only available from GMI
CC4	single profile from Manicardi w/ ±10% random scaling	GMI Monthly profiles in 2006		Only available from GMI
HNO3	single profile from Manicardi scaled to get 0.4 DU, then randomly varied by factor of 3	GMI Daily profiles in 2006	GEOS-Chem MOZART	GMI has wider altitudinal coverage
SO2	single US SIO 1 DU, then randomly scaled (see a log scale) to get random range of 0.09 to 0.90 DU. The scale factor is a two-piece hypothesis of log(P), with the maximum factor D (and zero vertical derivative) at 235 mb up to D/1000 at the top and D/100 at the bottom. The rate of tapering was arbitrary.	No Update	GEOS-Chem MOZART	No enough altitudinal coverage and variability for GEOS-Chem and MOZART
OCS	constant with height at 500 ppbv from surface up to 20 km then linearly decrease to 0 at 50 km; the suggested dynamic range (randomized) is ±10% (per S. Trenks)	ABR 2D model (19 latitudes x 72 months)		Only available from GMI 2D
CF4	dynamic range (randomized) of 50 to 70 ppbv, constant profile (per S. Trenks)	No Update		Harriault et al. 1996. Single value, no profile information. CF4 trend: 62 ppt to 75 ppt from 1982 to 1995)
NH3	Derived from profiles over Australian fires and sugar cane fields provided by Guergana Cuervo, University of Wollongong	GEOS-Chem Monthly profiles	MOZART	
HCOOH	ATMOS profile	GEOS-Chem Monthly profiles		Dylan Miller via Karen Cady-Fertita
CH3OH	GEOS-CHER profile provided by Dylan Miller, Harvard University	GEOS-Chem Monthly profiles	MOZART	Dylan Miller via Karen Cady-Fertita
C2H2	Remotely (MIPAS team); mean profile and 1-STD variability. For the training we should use N-STD	GEOS-Chem Monthly profiles		Yaping Xiao
C2H4	ATMOS profile	GEOS-Chem Monthly profiles	MOZART	May Fu
HCN	Remotely (MIPAS team); mean profile and 1-STD variability. For the training we should use N-STD	GEOS-Chem Monthly profiles		Qinbin Li via Yaping Xiao
CH3CF2 (F22)	Remotely (MIPAS team); mean profile and 1-STD variability. For the training we should use N-STD	No Update		

Harriault J., et al., Tropospheric trends for CF4 and C2F6 since 1982 derived from SFRs dated atmospheric air. *CRU*, 23(10), 1099-1102, 1996

² Hoffmann, et al., Enriched MIPAS measurements of CFC-11: retrieval, validation, and climatology. *Atmos. Chem. Phys.*, 8, 3671-3688, 2008

3

Some technical details for the selecting process:

Since the GMI daily profiles are in the order of ~1E6 (144x9)x365=4782960), we need to choose a smaller dataset to shorten the selecting process. We construct a new dataset by picking one month in each season (Jan, Apr, July, Oct), and picking 3 days in a month (one day every 10-day interval), i.e., the total profiles used for the selecting algorithm is 144x9)x4x3 = ~160,000.

Based on the ~160,000 profiles sampled from above, we use the same sampling approach as we did for Mars profiles, and we selected 182-200 profiles after trying different cutoff criteria for the distance between profiles.

The write_oss_var.pro program read the above 182-200 profiles, remove the profiles with spikes and avoid NaN resulting from interpolation convert units (from volume mixing ratio to mass ratio g/g), do vertical interpolation/extrapolation, and write the first 182 profiles into the final NEWOSS TXT file.

Total daily profiles → total used for selecting process → total selected → total for OSS
4782960 161179 182-200 182

Mapping the profiles from original model grids to 101 levels:

- The original global CTMs fields come in different vertical grids. The profiles as input to OSS are on 101 levels as shown in the OLD_OSS.txt file. So vertical interpolation and extrapolation are needed.
- All interpolation/extrapolation are based on logarithmic scale.
- For those levels below the lowest model pressure level (~1000 hPa), use constant values the same as the lowest model grid.
- For those levels above the top model level, use Gaussian extrapolation for NH3 (above 80mb), HCN (above 80 mb), CH3OH (above 80 mb), C2H4 (above 100 mb); and linear extrapolation for C2H2 (above 1 mb) and HCOOH (above 0.1 mb).

Available species from global chemical transport models (CTMs) and aircraft campaign (HIPPO):

1. **GEOS-Chem:**
O3, CO2, CH4, CO, HNO3, SO2, OCS, NH3, CH2O2/HCOOH, CH3OH, C2H2, C2H4, HCN (species not from GEOS-Chem; N2O, CCl4)

Note: these could be from different years
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/dat_atomic/carbon/TRS04/CR_2006_2d25f.cem.2022m12.bprh

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