

***** S T A R T I N G G E O S - C H E M *****

====> Mode of operation : GEOS-Chem "Classic"
====> GEOS-Chem version : 13.0.0
====> Compiler : Intel Fortran Compiler (aka ifort)
====> Flexible precision set to : 8-byte real (aka REAL*8)
====> Parallelization w/ OpenMP : ON
====> Binary punch diagnostics : OFF
====> netCDF diagnostics : ON
====> netCDF file compression : NOT SUPPORTED (or shut off w/
NC_NODEFLATE=y)
====> Luo et al (2019) wetdep? : OFF

====> SIMULATION START TIME: 2021/06/25 13:07 <====

=====
=====

G E O S - C H E M U S E R I N P U T

READ_INPUT_FILE: Opening ./input.geos

SIMULATION MENU

Start time of run : 20190722 000000
End time of run : 20190801 000000
Run directory : ./
Data Directory : /net/seurat/data/ctm/
CHEM_INPUTS directory : /net/seurat/data/ctm/CHEM_INPUTS/
Meteorology field : MERRA2
Simulation name : fullchem
Species database file : ./species_database.yml
Turn on debug output : F
Turn on GEOS-Chem timers : F

GRID MENU

Grid resolution : 0.5x0.625
Min/max longitude : -140.0000 -40.0000
Min/max longitude : 10.0000 70.0000
X grid dimension : 161
Y grid dimension : 121
Z grid dimension : 47
Use half-sized polar boxes? : F
Is this a nested-grid sim? : T
--> Buffer zone (N S E W) : 3 3 3 3

TIMESTEP MENU

Transport/Convection [sec] : 300
Chemistry/Emissions [sec] : 600

TRANSPORT MENU

Turn on transport? : T
Let TPCORE Fill negatives? : T
IORD, JORD, KORD for TPCORE?: 3 3 7

CONVECTION MENU

Turn on cloud convection? : T
Turn on PBL mixing? : T
Turn on non-local PBL? : T

EMISSIONS MENU

Turn on emissions? : T
HEMCO Configuration file : HEMCO_Config.rc
Use CH4 emissions inventory?: F
Set initial strat H2O? : T

AEROSOL MENU

Online SULFATE AEROSOLS? : T
Metal catalyzed SO2 ox.? : T
Online CARBON AEROSOLS? : T
Brown Carbon Aerosol? : F
Online COMPLEX SOA? : F
Semivolatile POA? : F
Online DUST AEROSOLS? : T
Acid uptake on dust? : F
Online SEA SALT AEROSOLS? : T
Accum SEA SALT radii [um] : 0.01 - 0.50
Coarse SEA SALT radii [um] : 0.50 - 8.00
MARINE ORGANIC AEROSOLS? : F
Settle strat. aerosols? : T
Online SOLID PSC aerosols? : T
Allow hom. NAT nucleation? : F
NAT supercooling requirement: 3.00K
Ice supersaturation req. : 20.00K
Perform PSC het. chemistry? : T
Use strat. aerosol OD? : T
BC Absorption Enhancement? : T
Hydrophilic BC AE factor : 1.50
Hydrophobic BC AE factor : 1.00
Photolyse nitrate aerosol? : F
JNITs scaling of JHN03 : 0.00
JNIT scaling of JHN03 : 0.00
JNIT(s) channel A (HONO) : 66.67
JNIT(s) channel B (NO2) : 33.33

DEPOSITION MENU

```
-----
Turn on dry deposition?      :      T
Dry dep over full PBL?      :      F
Turn on wet deposition?     :      T
Turn on CO2 effect?         :      F
CO2 level                    : 600.00
CO2 reference level         : 380.00
RIX scaling factor          :   1.00
```

CHEMISTRY MENU

```
-----
Turn on chemistry?          :      T
Use linear. strat. chem?    :      T
=> Use Linoz for O3?        :      T
Enable UCX?                 :      T
Online strat. H2O?          :      T
Online ozone for FAST-JX?   :      T
Ozone from met for FAST-JX?:      T
TOMS/SBUV ozone for FAST-JX?:      F
GAMMA H02                   :   0.20
```

NOTE ABOUT OVERHEAD O3 FOR FAST-JX:
Online O3 from GEOS-Chem will be used
to weight the O3 column within the
chemistry grid and O3 from met or TOMS
will be used outside the chemistry grid.

PHOTOLYSIS MENU

```
-----
FAST_JX Directory           : /net/seurat/data/ctm/ExtData/
CHEM_INPUTS/FAST_JX/v2020-02/
```

RADIATION MENU

```
-----
AOD output wavelength (nm) :   550.0
Turn on radiation?         :      F
Consider LW                 :      F
Consider SW                 :      F
Clear-sky/All-sky          :      F/      F
Radiation timestep [sec]   : 10800
```

OBSPACK_MENU

```
-----
Turn on ObsPack diagnostic? :      F
Suppress logfile output?    :      F
ObsPack input file          : ./
obspack_co2_1_OC02MIP_2018-11-28.YYYYMMDD.nc
ObsPack output file         : ./OutputDir/
GEOSChem.ObsPack.YYYYMMDD_hhmmz.nc4
```

PLANEFLIGHT MENU

Turn on planeflight diag? : F
Flight track input file : ./inputPlane/Planeflight.dat.YYYYMMDD
Output file name : ./outputPlane/plane.log.YYYYMMDD

SET_TIMESTEPS: setting GEOS-Chem timesteps!

Chemistry Timestep [sec] : 600
Convection Timestep [sec] : 300
Dynamics Timestep [sec] : 300
Emission Timestep [sec] : 600
Unit Conv Timestep [sec] : 300
Diagnostic Timestep [sec] : 600
Radiation Timestep [sec] : 10800

%%%%%%%%% GLOBAL GRID %%%%%%%%%

Grid box longitude centers [degrees]:
-180.000 -179.375 -178.750 -178.125 -177.500 -176.875 -176.250
-175.625
-175.000 -174.375 -173.750 -173.125 -172.500 -171.875 -171.250
-170.625
-170.000 -169.375 -168.750 -168.125 -167.500 -166.875 -166.250
-165.625
-165.000 -164.375 -163.750 -163.125 -162.500 -161.875 -161.250
-160.625
-160.000 -159.375 -158.750 -158.125 -157.500 -156.875 -156.250
-155.625
-155.000 -154.375 -153.750 -153.125 -152.500 -151.875 -151.250
-150.625
-150.000 -149.375 -148.750 -148.125 -147.500 -146.875 -146.250
-145.625
-145.000 -144.375 -143.750 -143.125 -142.500 -141.875 -141.250
-140.625
-140.000 -139.375 -138.750 -138.125 -137.500 -136.875 -136.250
-135.625
-135.000 -134.375 -133.750 -133.125 -132.500 -131.875 -131.250
-130.625
-130.000 -129.375 -128.750 -128.125 -127.500 -126.875 -126.250
-125.625
-125.000 -124.375 -123.750 -123.125 -122.500 -121.875 -121.250
-120.625
-120.000 -119.375 -118.750 -118.125 -117.500 -116.875 -116.250
-115.625
-115.000 -114.375 -113.750 -113.125 -112.500 -111.875 -111.250
-110.625
-110.000 -109.375 -108.750 -108.125 -107.500 -106.875 -106.250
-105.625

-105.000	-104.375	-103.750	-103.125	-102.500	-101.875	-101.250
-100.625						
-100.000	-99.375	-98.750	-98.125	-97.500	-96.875	-96.250
-95.625						
-95.000	-94.375	-93.750	-93.125	-92.500	-91.875	-91.250
-90.625						
-90.000	-89.375	-88.750	-88.125	-87.500	-86.875	-86.250
-85.625						
-85.000	-84.375	-83.750	-83.125	-82.500	-81.875	-81.250
-80.625						
-80.000	-79.375	-78.750	-78.125	-77.500	-76.875	-76.250
-75.625						
-75.000	-74.375	-73.750	-73.125	-72.500	-71.875	-71.250
-70.625						
-70.000	-69.375	-68.750	-68.125	-67.500	-66.875	-66.250
-65.625						
-65.000	-64.375	-63.750	-63.125	-62.500	-61.875	-61.250
-60.625						
-60.000	-59.375	-58.750	-58.125	-57.500	-56.875	-56.250
-55.625						
-55.000	-54.375	-53.750	-53.125	-52.500	-51.875	-51.250
-50.625						
-50.000	-49.375	-48.750	-48.125	-47.500	-46.875	-46.250
-45.625						
-45.000	-44.375	-43.750	-43.125	-42.500	-41.875	-41.250
-40.625						
-40.000	-39.375	-38.750	-38.125	-37.500	-36.875	-36.250
-35.625						
-35.000	-34.375	-33.750	-33.125	-32.500	-31.875	-31.250
-30.625						
-30.000	-29.375	-28.750	-28.125	-27.500	-26.875	-26.250
-25.625						
-25.000	-24.375	-23.750	-23.125	-22.500	-21.875	-21.250
-20.625						
-20.000	-19.375	-18.750	-18.125	-17.500	-16.875	-16.250
-15.625						
-15.000	-14.375	-13.750	-13.125	-12.500	-11.875	-11.250
-10.625						
-10.000	-9.375	-8.750	-8.125	-7.500	-6.875	-6.250
-5.625						
-5.000	-4.375	-3.750	-3.125	-2.500	-1.875	-1.250
-0.625						
0.000	0.625	1.250	1.875	2.500	3.125	3.750
4.375						
5.000	5.625	6.250	6.875	7.500	8.125	8.750
9.375						
10.000	10.625	11.250	11.875	12.500	13.125	13.750
14.375						
15.000	15.625	16.250	16.875	17.500	18.125	18.750
19.375						

20.000	20.625	21.250	21.875	22.500	23.125	23.750
24.375						
25.000	25.625	26.250	26.875	27.500	28.125	28.750
29.375						
30.000	30.625	31.250	31.875	32.500	33.125	33.750
34.375						
35.000	35.625	36.250	36.875	37.500	38.125	38.750
39.375						
40.000	40.625	41.250	41.875	42.500	43.125	43.750
44.375						
45.000	45.625	46.250	46.875	47.500	48.125	48.750
49.375						
50.000	50.625	51.250	51.875	52.500	53.125	53.750
54.375						
55.000	55.625	56.250	56.875	57.500	58.125	58.750
59.375						
60.000	60.625	61.250	61.875	62.500	63.125	63.750
64.375						
65.000	65.625	66.250	66.875	67.500	68.125	68.750
69.375						
70.000	70.625	71.250	71.875	72.500	73.125	73.750
74.375						
75.000	75.625	76.250	76.875	77.500	78.125	78.750
79.375						
80.000	80.625	81.250	81.875	82.500	83.125	83.750
84.375						
85.000	85.625	86.250	86.875	87.500	88.125	88.750
89.375						
90.000	90.625	91.250	91.875	92.500	93.125	93.750
94.375						
95.000	95.625	96.250	96.875	97.500	98.125	98.750
99.375						
100.000	100.625	101.250	101.875	102.500	103.125	103.750
104.375						
105.000	105.625	106.250	106.875	107.500	108.125	108.750
109.375						
110.000	110.625	111.250	111.875	112.500	113.125	113.750
114.375						
115.000	115.625	116.250	116.875	117.500	118.125	118.750
119.375						
120.000	120.625	121.250	121.875	122.500	123.125	123.750
124.375						
125.000	125.625	126.250	126.875	127.500	128.125	128.750
129.375						
130.000	130.625	131.250	131.875	132.500	133.125	133.750
134.375						
135.000	135.625	136.250	136.875	137.500	138.125	138.750
139.375						
140.000	140.625	141.250	141.875	142.500	143.125	143.750
144.375						

145.000	145.625	146.250	146.875	147.500	148.125	148.750
149.375						
150.000	150.625	151.250	151.875	152.500	153.125	153.750
154.375						
155.000	155.625	156.250	156.875	157.500	158.125	158.750
159.375						
160.000	160.625	161.250	161.875	162.500	163.125	163.750
164.375						
165.000	165.625	166.250	166.875	167.500	168.125	168.750
169.375						
170.000	170.625	171.250	171.875	172.500	173.125	173.750
174.375						
175.000	175.625	176.250	176.875	177.500	178.125	178.750
179.375						

Grid box latitude centers [degrees]:

-90.000	-89.500	-89.000	-88.500	-88.000	-87.500	-87.000
-86.500						
-86.000	-85.500	-85.000	-84.500	-84.000	-83.500	-83.000
-82.500						
-82.000	-81.500	-81.000	-80.500	-80.000	-79.500	-79.000
-78.500						
-78.000	-77.500	-77.000	-76.500	-76.000	-75.500	-75.000
-74.500						
-74.000	-73.500	-73.000	-72.500	-72.000	-71.500	-71.000
-70.500						
-70.000	-69.500	-69.000	-68.500	-68.000	-67.500	-67.000
-66.500						
-66.000	-65.500	-65.000	-64.500	-64.000	-63.500	-63.000
-62.500						
-62.000	-61.500	-61.000	-60.500	-60.000	-59.500	-59.000
-58.500						
-58.000	-57.500	-57.000	-56.500	-56.000	-55.500	-55.000
-54.500						
-54.000	-53.500	-53.000	-52.500	-52.000	-51.500	-51.000
-50.500						
-50.000	-49.500	-49.000	-48.500	-48.000	-47.500	-47.000
-46.500						
-46.000	-45.500	-45.000	-44.500	-44.000	-43.500	-43.000
-42.500						
-42.000	-41.500	-41.000	-40.500	-40.000	-39.500	-39.000
-38.500						
-38.000	-37.500	-37.000	-36.500	-36.000	-35.500	-35.000
-34.500						
-34.000	-33.500	-33.000	-32.500	-32.000	-31.500	-31.000
-30.500						
-30.000	-29.500	-29.000	-28.500	-28.000	-27.500	-27.000
-26.500						
-26.000	-25.500	-25.000	-24.500	-24.000	-23.500	-23.000
-22.500						

-22.000	-21.500	-21.000	-20.500	-20.000	-19.500	-19.000
-18.500						
-18.000	-17.500	-17.000	-16.500	-16.000	-15.500	-15.000
-14.500						
-14.000	-13.500	-13.000	-12.500	-12.000	-11.500	-11.000
-10.500						
-10.000	-9.500	-9.000	-8.500	-8.000	-7.500	-7.000
-6.500						
-6.000	-5.500	-5.000	-4.500	-4.000	-3.500	-3.000
-2.500						
-2.000	-1.500	-1.000	-0.500	0.000	0.500	1.000
1.500						
2.000	2.500	3.000	3.500	4.000	4.500	5.000
5.500						
6.000	6.500	7.000	7.500	8.000	8.500	9.000
9.500						
10.000	10.500	11.000	11.500	12.000	12.500	13.000
13.500						
14.000	14.500	15.000	15.500	16.000	16.500	17.000
17.500						
18.000	18.500	19.000	19.500	20.000	20.500	21.000
21.500						
22.000	22.500	23.000	23.500	24.000	24.500	25.000
25.500						
26.000	26.500	27.000	27.500	28.000	28.500	29.000
29.500						
30.000	30.500	31.000	31.500	32.000	32.500	33.000
33.500						
34.000	34.500	35.000	35.500	36.000	36.500	37.000
37.500						
38.000	38.500	39.000	39.500	40.000	40.500	41.000
41.500						
42.000	42.500	43.000	43.500	44.000	44.500	45.000
45.500						
46.000	46.500	47.000	47.500	48.000	48.500	49.000
49.500						
50.000	50.500	51.000	51.500	52.000	52.500	53.000
53.500						
54.000	54.500	55.000	55.500	56.000	56.500	57.000
57.500						
58.000	58.500	59.000	59.500	60.000	60.500	61.000
61.500						
62.000	62.500	63.000	63.500	64.000	64.500	65.000
65.500						
66.000	66.500	67.000	67.500	68.000	68.500	69.000
69.500						
70.000	70.500	71.000	71.500	72.000	72.500	73.000
73.500						
74.000	74.500	75.000	75.500	76.000	76.500	77.000
77.500						

78.000	78.500	79.000	79.500	80.000	80.500	81.000
81.500						
82.000	82.500	83.000	83.500	84.000	84.500	85.000
85.500						
86.000	86.500	87.000	87.500	88.000	88.500	89.000
89.500						
90.000						

%%%%%%%%%% USER-DEFINED GRID %%%%%%%%%%

```

XMinOffset :      64
XMaxOffset :     224
YMinOffset :     200
YMaxOffset :     320

```

Grid box longitude centers [degrees]:

-140.000	-139.375	-138.750	-138.125	-137.500	-136.875	-136.250
-135.625						
-135.000	-134.375	-133.750	-133.125	-132.500	-131.875	-131.250
-130.625						
-130.000	-129.375	-128.750	-128.125	-127.500	-126.875	-126.250
-125.625						
-125.000	-124.375	-123.750	-123.125	-122.500	-121.875	-121.250
-120.625						
-120.000	-119.375	-118.750	-118.125	-117.500	-116.875	-116.250
-115.625						
-115.000	-114.375	-113.750	-113.125	-112.500	-111.875	-111.250
-110.625						
-110.000	-109.375	-108.750	-108.125	-107.500	-106.875	-106.250
-105.625						
-105.000	-104.375	-103.750	-103.125	-102.500	-101.875	-101.250
-100.625						
-100.000	-99.375	-98.750	-98.125	-97.500	-96.875	-96.250
-95.625						
-95.000	-94.375	-93.750	-93.125	-92.500	-91.875	-91.250
-90.625						
-90.000	-89.375	-88.750	-88.125	-87.500	-86.875	-86.250
-85.625						
-85.000	-84.375	-83.750	-83.125	-82.500	-81.875	-81.250
-80.625						
-80.000	-79.375	-78.750	-78.125	-77.500	-76.875	-76.250
-75.625						
-75.000	-74.375	-73.750	-73.125	-72.500	-71.875	-71.250
-70.625						
-70.000	-69.375	-68.750	-68.125	-67.500	-66.875	-66.250
-65.625						
-65.000	-64.375	-63.750	-63.125	-62.500	-61.875	-61.250
-60.625						
-60.000	-59.375	-58.750	-58.125	-57.500	-56.875	-56.250

-55.625
-55.000 -54.375 -53.750 -53.125 -52.500 -51.875 -51.250
-50.625
-50.000 -49.375 -48.750 -48.125 -47.500 -46.875 -46.250
-45.625
-45.000 -44.375 -43.750 -43.125 -42.500 -41.875 -41.250
-40.625
-40.000

Grid box longitude edges [degrees]:

-140.312 -139.688 -139.062 -138.438 -137.812 -137.188 -136.562
-135.938
-135.312 -134.688 -134.062 -133.438 -132.812 -132.188 -131.562
-130.938
-130.312 -129.688 -129.062 -128.438 -127.812 -127.188 -126.562
-125.938
-125.312 -124.688 -124.062 -123.438 -122.812 -122.188 -121.562
-120.938
-120.312 -119.688 -119.062 -118.438 -117.812 -117.188 -116.562
-115.938
-115.312 -114.688 -114.062 -113.438 -112.812 -112.188 -111.562
-110.938
-110.312 -109.688 -109.062 -108.438 -107.812 -107.188 -106.562
-105.938
-105.312 -104.688 -104.062 -103.438 -102.812 -102.188 -101.562
-100.938
-100.312 -99.688 -99.062 -98.438 -97.812 -97.188 -96.562
-95.938
-95.312 -94.688 -94.062 -93.438 -92.812 -92.188 -91.562
-90.938
-90.312 -89.688 -89.062 -88.438 -87.812 -87.188 -86.562
-85.938
-85.312 -84.688 -84.062 -83.438 -82.812 -82.188 -81.562
-80.938
-80.312 -79.688 -79.062 -78.438 -77.812 -77.188 -76.562
-75.938
-75.312 -74.688 -74.062 -73.438 -72.812 -72.188 -71.562
-70.938
-70.312 -69.688 -69.062 -68.438 -67.812 -67.188 -66.562
-65.938
-65.312 -64.688 -64.062 -63.438 -62.812 -62.188 -61.562
-60.938
-60.312 -59.688 -59.062 -58.438 -57.812 -57.188 -56.562
-55.938
-55.312 -54.688 -54.062 -53.438 -52.812 -52.188 -51.562
-50.938
-50.312 -49.688 -49.062 -48.438 -47.812 -47.188 -46.562
-45.938
-45.312 -44.688 -44.062 -43.438 -42.812 -42.188 -41.562
-40.938

-40.312 -39.688

Grid box latitude centers [degrees]:

10.000	10.500	11.000	11.500	12.000	12.500	13.000
13.500						
14.000	14.500	15.000	15.500	16.000	16.500	17.000
17.500						
18.000	18.500	19.000	19.500	20.000	20.500	21.000
21.500						
22.000	22.500	23.000	23.500	24.000	24.500	25.000
25.500						
26.000	26.500	27.000	27.500	28.000	28.500	29.000
29.500						
30.000	30.500	31.000	31.500	32.000	32.500	33.000
33.500						
34.000	34.500	35.000	35.500	36.000	36.500	37.000
37.500						
38.000	38.500	39.000	39.500	40.000	40.500	41.000
41.500						
42.000	42.500	43.000	43.500	44.000	44.500	45.000
45.500						
46.000	46.500	47.000	47.500	48.000	48.500	49.000
49.500						
50.000	50.500	51.000	51.500	52.000	52.500	53.000
53.500						
54.000	54.500	55.000	55.500	56.000	56.500	57.000
57.500						
58.000	58.500	59.000	59.500	60.000	60.500	61.000
61.500						
62.000	62.500	63.000	63.500	64.000	64.500	65.000
65.500						
66.000	66.500	67.000	67.500	68.000	68.500	69.000
69.500						
70.000						

Grid box latitude edges [degrees]:

9.750	10.250	10.750	11.250	11.750	12.250	12.750
13.250						
13.750	14.250	14.750	15.250	15.750	16.250	16.750
17.250						
17.750	18.250	18.750	19.250	19.750	20.250	20.750
21.250						
21.750	22.250	22.750	23.250	23.750	24.250	24.750
25.250						
25.750	26.250	26.750	27.250	27.750	28.250	28.750
29.250						
29.750	30.250	30.750	31.250	31.750	32.250	32.750
33.250						
33.750	34.250	34.750	35.250	35.750	36.250	36.750
37.250						

37.750	38.250	38.750	39.250	39.750	40.250	40.750
41.250						
41.750	42.250	42.750	43.250	43.750	44.250	44.750
45.250						
45.750	46.250	46.750	47.250	47.750	48.250	48.750
49.250						
49.750	50.250	50.750	51.250	51.750	52.250	52.750
53.250						
53.750	54.250	54.750	55.250	55.750	56.250	56.750
57.250						
57.750	58.250	58.750	59.250	59.750	60.250	60.750
61.250						
61.750	62.250	62.750	63.250	63.750	64.250	64.750
65.250						
65.750	66.250	66.750	67.250	67.750	68.250	68.750
69.250						
69.750	70.250					

SIN(grid box latitude edges)

0.169	0.178	0.187	0.195	0.204	0.212	0.221
0.229						
0.238	0.246	0.255	0.263	0.271	0.280	0.288
0.297						
0.305	0.313	0.321	0.330	0.338	0.346	0.354
0.362						
0.371	0.379	0.387	0.395	0.403	0.411	0.419
0.427						
0.434	0.442	0.450	0.458	0.466	0.473	0.481
0.489						
0.496	0.504	0.511	0.519	0.526	0.534	0.541
0.548						
0.556	0.563	0.570	0.577	0.584	0.591	0.598
0.605						
0.612	0.619	0.626	0.633	0.639	0.646	0.653
0.659						
0.666	0.672	0.679	0.685	0.692	0.698	0.704
0.710						
0.716	0.722	0.728	0.734	0.740	0.746	0.752
0.758						
0.763	0.769	0.774	0.780	0.785	0.791	0.796
0.801						
0.806	0.812	0.817	0.822	0.827	0.831	0.836
0.841						
0.846	0.850	0.855	0.859	0.864	0.868	0.872
0.877						
0.881	0.885	0.889	0.893	0.897	0.901	0.904
0.908						
0.912	0.915	0.919	0.922	0.926	0.929	0.932
0.935						
0.938	0.941					

=====
Contents of CollList

BoundaryConditions
SpeciesConc
Metrics
Restart

ADVECTED SPECIES MENU

#	Species Name
1	ACET
2	ACTA
3	AERI
4	ALD2
5	ALK4
6	AT00H
7	BCPI
8	BCPO
9	BENZ
10	Br
11	Br2
12	BrCl
13	BrNO2
14	BrNO3
15	BrO
16	BrSALA
17	BrSALC
18	C2H6
19	C3H8
20	CCl4
21	CFC11
22	CFC113
23	CFC114
24	CFC115
25	CFC12
26	CH2Br2
27	CH2Cl2
28	CH2I2
29	CH2IBr
30	CH2ICl
31	CH2O
32	CH3Br
33	CH3CCl3
34	CH3Cl
35	CH3I
36	CH4
37	CHBr3

38 CHCl3
39 Cl
40 Cl2
41 Cl2O2
42 ClNO2
43 ClNO3
44 ClO
45 ClO0
46 CLOCK
47 CO
48 DMS
49 DST1
50 DST2
51 DST3
52 DST4
53 EOH
54 ETHLN
55 ETNO3
56 ETP
57 GLYC
58 GLYX
59 H1211
60 H1301
61 H2402
62 H2O
63 H2O2
64 HAC
65 HBr
66 HC5A
67 HCFC123
68 HCFC141b
69 HCFC142b
70 HCFC22
71 HCl
72 HCOOH
73 HI
74 HMHP
75 HMML
76 HNO2
77 HNO3
78 HNO4
79 HOBr
80 HOCl
81 HOI
82 HONIT
83 HPALD1
84 HPALD2
85 HPALD3
86 HPALD4
87 HPETHNL

88 I
89 I2
90 I202
91 I203
92 I204
93 IBr
94 ICHE
95 ICl
96 ICN
97 ICPDH
98 IDC
99 IDCHP
100 IDHDP
101 IDHPE
102 IDN
103 IEPOXA
104 IEPOXB
105 IEPOXD
106 IHN1
107 IHN2
108 IHN3
109 IHN4
110 INDIOL
111 INO
112 INPB
113 INPD
114 IO
115 IONITA
116 IONO
117 ION02
118 IPRN03
119 ISALA
120 ISALC
121 ISOP
122 ITCN
123 ITHN
124 LIMO
125 LVOC
126 LVOCOA
127 MACR
128 MACR100H
129 MAP
130 MCRDH
131 MCRENOL
132 MCRHN
133 MCRHNB
134 MCRHP
135 MEK
136 MEN03
137 MGLY

138 MOH
139 MONITA
140 MONITS
141 MONITU
142 MP
143 MPAN
144 MPN
145 MSA
146 MTPA
147 MTPO
148 MVK
149 MVKDH
150 MVKHC
151 MVKHCB
152 MVKHP
153 MVKN
154 MVKPC
155 N20
156 N205
157 NH3
158 NH4
159 NIT
160 NITs
161 NO
162 NO2
163 NO3
164 NPRN03
165 O3
166 OC10
167 OCPI
168 OCPO
169 OCS
170 OIO
171 PAN
172 pFe
173 PIP
174 PP
175 PPN
176 PROPNN
177 PRPE
178 PRPN
179 PYAC
180 R4N2
181 R4P
182 RA3P
183 RB3P
184 RCHO
185 RIPA
186 RIPB
187 RIPC

188 RIPD
 189 RP
 190 SALA
 191 SALAAL
 192 SALACL
 193 SALC
 194 SALCAL
 195 SALCCL
 196 S02
 197 S04
 198 S04s
 199 SOAGX
 200 SOAIE
 201 SOAP
 202 SOAS
 203 TOLU
 204 XYLE

Registered variables contained within the State_Chm object:

```

=====
=====
CHEM_SURFACEFLUX_XYLE          | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_TOLU         | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SOAS         | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SOAP         | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SOAIE        | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SOAGX        | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_S04S         | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_S04          | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_S02          | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALCCL       | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALCAL       | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALC         | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALACL       | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALAAL       | Surface flux (E-D) f | xy   | kg
m-2 s-1
CHEM_SURFACEFLUX_SALA         | Surface flux (E-D) f | xy   | kg
  
```

m-2 s-1	CHEM_SURFACEFLUX_RP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RIPD	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RIPC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RIPB	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RIPA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RCHO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RB3P	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_RA3P	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_R4P	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_R4N2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PYAC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PRPN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PRPE	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PROPNN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PPN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PIP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PFE	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_PAN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_OIO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_OCS	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_OCPO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_OCPI	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_OCLO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_03	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_NPRN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_N03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_N02	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_N0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_NITS	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_NIT	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_NH4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_NH3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_N205	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_N20	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKPC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKHP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKHCB	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKHC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVKDH	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MVK	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MTP0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MTPA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MSA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MPN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MPAN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MONITU	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MONITS	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_MONITA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MOH	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MGLY	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MEN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MEK	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MCRHP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MCRHNB	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MCRHN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MCRENOL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MCRDH	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MAP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MACR100H	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_MACR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_LVOCOA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_LVOC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_LIMO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ITHN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ITCN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ISOP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ISALC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ISALA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IPRN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I0N02	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I0N0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I0NITA	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_I0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_INPD	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_INPB	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_INO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_INDIOIOL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IHN4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IHN3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IHN2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IHN1	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IEPOXD	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IEPOXB	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IEPOXA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IDN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IDHPE	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IDHDP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IDCHP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IDC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ICPDH	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ICN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ICL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ICHE	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_IBR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I204	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I203	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I202	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_I2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_I	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HPETHNL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HPALD4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HPALD3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HPALD2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HPALD1	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HONIT	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HOI	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HOCL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HOBR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HN04	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HN02	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HMML	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HMHP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HI	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HC00H	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HCL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HCFC22	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HCFC142B	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HCFC141B	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HCFC123	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HC5A	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_HBR	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_HAC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_H2O2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_H2O	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_H2402	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_H1301	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_H1211	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_GLYX	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_GLYC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ETP	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ETN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ETHLN	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_EOH	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_DST4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_DST3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_DST2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_DST1	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_DMS	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_C0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CLOCK	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CL00	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CL0	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CLN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CLN02	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CL202	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CL2	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_CL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CHCL3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CHBR3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH3I	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH3CL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH3CCL3	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH3BR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2O	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2ICL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2IBR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2I2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2CL2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CH2BR2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CFC12	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CFC115	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CFC114	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CFC113	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CFC11	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_CCL4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_C3H8	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_C2H6	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BRSA LC	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BRSA LA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BRO	Surface flux (E-D) f xy	kg

m-2 s-1	CHEM_SURFACEFLUX_BRN03	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BRN02	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BRCL	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BR2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BR	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BENZ	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BCPO	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_BCPI	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_AT00H	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ALK4	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ALD2	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_AERI	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ACTA	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_SURFACEFLUX_ACET	Surface flux (E-D) f xy	kg
m-2 s-1	CHEM_DRYDEPVEL_MSA	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MPN	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MPAN	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MP	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MONITU	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MONITS	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MONITA	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MOH	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MGLY	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MEN03	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MEK	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MCRHP	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MCRHNB	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MCRHN	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MCRENOL	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MCRDH	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MAP	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MACR100H	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_MACR	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_LVOCOA	Dry deposition veloc xy	m s-1
	CHEM_DRYDEPVEL_LVOC	Dry deposition veloc xy	m s-1

CHEM_DRYDEPVEL_LIMO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ITHN	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ITCN	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ISOP	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ISALC	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ISALA	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IPRNO3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IONO2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IONO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IONITA	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_INPD	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_INPB	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_INO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_INDIOL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IHN4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IHN3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IHN2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IHN1	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IEPOXD	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IEPOXB	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IEPOXA	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IDN	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IDHPE	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IDHDP	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IDCHP	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IDC	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ICPDH	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ICN	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ICL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ICHE	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_IBR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_I204	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_I203	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_I202	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_I2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_I	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HPETHNL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HPALD4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HPALD3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HPALD2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HPALD1	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HONIT	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HOI	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HOCL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HOBR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HNO4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HNO3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HNO2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HMML	Dry deposition veloc	xy	m s-1

CHEM_DRYDEPVEL_HMHP	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HI	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HC00H	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HCL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HCFC22	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HCFC142B	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HCFC141B	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HCFC123	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HC5A	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HBR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_HAC	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_H202	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_H20	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_H2402	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_H1301	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_H1211	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_GLYX	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_GLYC	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ETP	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ETN03	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ETHLN	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_EOH	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_DST4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_DST3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_DST2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_DST1	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_DMS	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CLOCK	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CL00	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CLO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CLN03	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CLN02	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CL202	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CL2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CHCL3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CHBR3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH3I	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH3CL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH3CCL3	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH3BR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH20	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH2ICL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH2IBR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH2I2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH2CL2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CH2BR2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CFC12	Dry deposition veloc	xy	m s-1

CHEM_DRYDEPVEL_CFC115	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CFC114	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CFC113	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CFC11	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_CCL4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_C3H8	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_C2H6	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BRSALC	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BRSALA	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BR0	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BRN03	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BRN02	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BRCL	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BR2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BR	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BENZ	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BCPO	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_BCPI	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_AT00H	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ALK4	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ALD2	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_AERI	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ACTA	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPVEL_ACET	Dry deposition veloc	xy	m s-1
CHEM_DRYDEPFREQ_MSA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MPN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MPAN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MONITU	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MONITS	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MONITA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MOH	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MGLY	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MENO3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MEK	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MCRHP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MCRHNB	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MCRHN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MCRENOL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MCRDH	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MAP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MACR100H	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_MACR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_LV0COA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_LV0C	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_LIMO	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ITHN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ITCN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ISOP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ISALC	Dry deposition frequ	xy	s-1

CHEM_DRYDEPFREQ_ISALA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IPRN03	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I0N02	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I0N0	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I0NITA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I0	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_INPD	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_INPB	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_INO	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_INDIOL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IHN4	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IHN3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IHN2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IHN1	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IEPOXD	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IEPOXB	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IEPOXA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IDN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IDHPE	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IDHDP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IDCHP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IDC	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ICPDH	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ICN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ICL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ICHE	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_IBR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I204	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I203	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I202	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_I	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HPETHNL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HPALD4	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HPALD3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HPALD2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HPALD1	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HONIT	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HOI	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HOCL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HOBR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HN04	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HN03	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HN02	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HMML	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HMHP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HI	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HC00H	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HCL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HCFC22	Dry deposition frequ	xy	s-1

CHEM_DRYDEPFREQ_HCFC142B	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HCFC141B	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HCFC123	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HC5A	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HBR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_HAC	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_H2O2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_H2O	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_H2402	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_H1301	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_H1211	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_GLYX	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_GLYC	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ETP	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ETN03	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ETHLN	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_EOH	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_DST4	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_DST3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_DST2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_DST1	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_DMS	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CO	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CLOCK	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CL00	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CL0	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CLN03	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CLN02	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CL202	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CL2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CHCL3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CHBR3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH4	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH3I	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH3CL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH3CCL3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH3BR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2O	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2ICL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2IBR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2I2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2CL2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CH2BR2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CFC12	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CFC115	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CFC114	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CFC113	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CFC11	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_CCL4	Dry deposition frequ	xy	s-1

CHEM_DRYDEPFREQ_C3H8	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_C2H6	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BRSA LC	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BRSA LA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BR O	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BRNO3	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BRNO2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BRCL	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BR2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BR	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BENZ	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BCPO	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_BCP I	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ATOOH	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ALK4	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ALD2	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_AERI	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ACTA	Dry deposition frequ	xy	s-1
CHEM_DRYDEPFREQ_ACET	Dry deposition frequ	xy	s-1
CHEM_SALINITY	Salinity	xy	PSU
CHEM_IODIDE	Surface iodide conce	xy	nM
CHEM_S02AFTERCHEM	S02 after sulfate ch	xyz C	mol
mol-1			
CHEM_H2O2AFTERCHEM	H2O2 after sulfate c	xyz C	mol
mol-1			
CHEM_KHETISLAH0BRHBR	Sticking coefficient	xyz C	1
CHEM_KHETISLAH0BRHCL	Sticking coefficient	xyz C	1
CHEM_KHETISLAH0CLHBR	Sticking coefficient	xyz C	1
CHEM_KHETISLAH0CLHCL	Sticking coefficient	xyz C	1
CHEM_KHETISLABRN03HCL	Sticking coefficient	xyz C	1
CHEM_KHETISLABRN03H2O	Sticking coefficient	xyz C	1
CHEM_KHETISLACLNO3HBR	Sticking coefficient	xyz C	1
CHEM_KHETISLACLNO3HCL	Sticking coefficient	xyz C	1
CHEM_KHETISLACLNO3H2O	Sticking coefficient	xyz C	1
CHEM_KHETISLAN205HCL	Sticking coefficient	xyz C	1
CHEM_KHETISLAN205H2O	Sticking coefficient	xyz C	1
CHEM_STATEPSC	Polar stratospheric	xyz C	count
CHEM_KPPHVALUE	H-value for Rosenbro	xyz C	1
CHEM_WETDEPNITROGEN	Wet deposited nitrog	xy	molec
cm-2 s-1			
CHEM_DRYDEPNITROGEN	Dry deposited nitrog	xy	molec
cm-2 s-1			
CHEM_FUPDATEHOCL	Correction factor fo	xyz C	1
CHEM_FUPDATEHOBR	Correction factor fo	xyz C	1
CHEM_S03AQ	Cloud sulfite concen	xyz C	mol
L-1			
CHEM_HS03AQ	Cloud bisulfite conc	xyz C	mol
L-1			
CHEM_SSALKCOARSEMODE	Sea salt alkalinity,	xyz C	1
CHEM_SSALKACCU MMODE	Sea salt alkalinity,	xyz C	1

CHEM_ISCLOUD	Cloud presence	xyz C	1
CHEM_QLXPHCLOUD	Cloud pH * Met_QL	xyz C	1
CHEM_PHCLOUD	Cloud pH	xyz C	1
CHEM_ISORROPBISULFATE	ISORROPIA Bisulfate	xyz C	mol
L-1			
CHEM_ISORROPCHLORIDECOARSE	ISORROPIA chloride c	xyz C	mol/L
CHEM_ISORROPCHLORIDEACCUM	ISORROPIA chloride c	xyz C	mol/L
CHEM_ISORROPNITRATECOARSE	ISORROPIA nitrate co	xyz C	mol
L-1			
CHEM_ISORROPNITRATEACCUM	ISORROPIA nitrate co	xyz C	mol
L-1			
CHEM_ISORROPSULFATE	ISORROPIA sulfate co	xyz C	mol
L-1			
CHEM_ISORROPAEROH2OCOARSE	ISORROPIA aerosol wa	xyz C	ug
m-3			
CHEM_ISORROPAEROH2OACCUM	ISORROPIA aerosol wa	xyz C	ug
m-3			
CHEM_ISORROPHPLUSCOARSE	ISORROPIA H+ concent	xyz C	mol
L-1			
CHEM_ISORROPHPLUSACCUM	ISORROPIA H+ concent	xyz C	mol
L-1			
CHEM_ISORROPAEROPHCOARSE	ISORROPIA aerosol pH	xyz C	1
CHEM_ISORROPAEROPHACCUM	ISORROPIA aerosol pH	xyz C	1
CHEM_OMOCOPOA	OM:OC ratio for OPOA	xy	1
CHEM_OMOCPOA	OM:OC ratio for POA	xy	1
CHEM_OMOC	OM:OC ratio as read	xy	1
CHEM_YIELDCLN02FINE	Production yield coe	xyz C	l
CHEM_GAMMAN205FINE	Sticking coefficient	xyz C	l
CHEM_GAMMAN205OVERALL	Sticking coefficient	xyz C	l
CHEM_ACLRADI	Dry aerosol radius f	xyz C	cm
CHEM_ACLAREA	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROH2OICEI	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OBGSULF	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OSSC	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OSSA	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OOC	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OBC	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OSULF	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OMDUST7	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			
CHEM_AEROH2OMDUST6	Aerosol H2O content	xyz C	
cm3(H2O) cm-3(air)			

CHEM_AEROH20MDUST5 cm3(H2O) cm-3(air)	Aerosol H2O content	xyz C	
CHEM_AEROH20MDUST4 cm3(H2O) cm-3(air)	Aerosol H2O content	xyz C	
CHEM_AEROH20MDUST3 cm3(H2O) cm-3(air)	Aerosol H2O content	xyz C	
CHEM_AEROH20MDUST2 cm3(H2O) cm-3(air)	Aerosol H2O content	xyz C	
CHEM_AEROH20MDUST1 cm3(H2O) cm-3(air)	Aerosol H2O content	xyz C	
CHEM_WETAERORADIICEI	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIBGSULF	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADISSC	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADISSA	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIOC	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIBC	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADISULF	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST7	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST6	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST5	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST4	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST3	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST2	Wet aerosol radius f	xyz C	cm
CHEM_WETAERORADIMDUST1	Wet aerosol radius f	xyz C	cm
CHEM_WETAEROAREAICEI cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREABGSULF cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREASSC cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREASSA cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAOC cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREABC cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREASULF cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST7 cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST6 cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST5 cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST4 cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST3 cm-3	Wet aerosol area for	xyz C	cm2
CHEM_WETAEROAREAMDUST2 cm-3	Wet aerosol area for	xyz C	cm2

CHEM_WETAEROAREAMDUST1	Wet aerosol area for	xyz C	cm2
cm-3			
CHEM_AERORADIICEI	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIBGSULF	Dry aerosol radius f	xyz C	cm
CHEM_AERORADISSC	Dry aerosol radius f	xyz C	cm
CHEM_AERORADISSA	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIOC	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIBC	Dry aerosol radius f	xyz C	cm
CHEM_AERORADISULF	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST7	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST6	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST5	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST4	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST3	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST2	Dry aerosol radius f	xyz C	cm
CHEM_AERORADIMDUST1	Dry aerosol radius f	xyz C	cm
CHEM_AEROAREAIICEI	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREABGSULF	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREASSC	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREASSA	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAOC	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREABC	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREASULF	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST7	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST6	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST5	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST4	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST3	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST2	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_AEROAREAMDUST1	Dry aerosol area for	xyz C	cm2
cm-3			
CHEM_BOUNDARYCOND_XYLE	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_TOLU	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SOAS	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SOAP	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SOAI	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SOAGX	Transport boundary c	xyz C	v/v

CHEM_BOUNDARYCOND_S04S	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_S04	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_S02	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALCCL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALCAL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALACL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALAAL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_SALA	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RP	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RIPD	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RIPC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RIPB	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RIPA	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RCHO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RB3P	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_RA3P	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_R4P	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_R4N2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PYAC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PRPN	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PRPE	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PROPNN	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PPN	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PP	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PIP	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PFE	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_PAN	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_OIO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_OCS	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_OCPO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_OCPI	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_OCLO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_O3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NPRN03	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NO3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NO2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NITS	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NIT	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NH4	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_NH3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_N205	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_N20	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKPC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKN	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKHP	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKHCB	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKHC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_MVKDH	Transport boundary c	xyz C	v/v

CHEM_BOUNDARYCOND_MVK		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MTPO		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MTPA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MSA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MPN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MPAN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MONITU		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MONITS		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MONITA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MOH		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MGLY		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MEN03		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MEK		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MCRHP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MCRHNB		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MCRHN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MCRENOL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MCRDH		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MAP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MACR100H		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_MACR		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_LVCOA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_LVOC		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_LIMO		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ITHN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ITCN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ISOP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ISALC		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ISALA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IPRN03		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IONO2		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IONO		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IONITA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IO		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_INPD		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_INPB		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_INO		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_INDIOL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IHN4		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IHN3		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IHN2		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IHN1		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IEPOXD		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IEPOXB		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IEPOXA		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IDN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IDHPE		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IDHDP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IDCHP		Transport	boundary	c		xyz	C		v/v

CHEM_BOUNDARYCOND_IDC		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ICPDH		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ICN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ICL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ICHE		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_IBR		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_I204		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_I203		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_I202		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_I2		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_I		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HPETHNL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HPALD4		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HPALD3		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HPALD2		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HPALD1		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HONIT		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HOI		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HOCL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HOBR		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HN04		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HN03		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HN02		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HMML		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HMHP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HI		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCOOH		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCL		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCFC22		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCFC142B		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCFC141B		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HCFC123		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HC5A		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HBR		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_HAC		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_H202		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_H20		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_H2402		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_H1301		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_H1211		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_GLYX		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_GLYC		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ETP		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ETN03		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_ETHLN		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_EOH		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_DST4		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_DST3		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_DST2		Transport	boundary	c		xyz	C		v/v
CHEM_BOUNDARYCOND_DST1		Transport	boundary	c		xyz	C		v/v

CHEM_BOUNDARYCOND_DMS	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CLOCK	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CLOO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CLO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CLN03	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CLN02	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CL202	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CL2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CHCL3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CHBR3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH4	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH3I	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH3CL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH3CCL3	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH3BR	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH20	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH2ICL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH2IBR	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH2I2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH2CL2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CH2BR2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CFC12	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CFC115	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CFC114	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CFC113	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CFC11	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_CCL4	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_C3H8	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_C2H6	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRSA LC	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRSA LA	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRN03	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRN02	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BRCL	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BR2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BR	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BENZ	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BCPO	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_BCPI	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_ATOOH	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_ALK4	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_ALD2	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_AERI	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_ACTA	Transport boundary c	xyz C	v/v
CHEM_BOUNDARYCOND_ACET	Transport boundary c	xyz C	v/v
CHEM_SPECIES_RC00H	Concentration for sp	xyz C	

varies

CHEM_SPECIES_02	Concentration for sp xyz C
varies	
CHEM_SPECIES_N2	Concentration for sp xyz C
varies	
CHEM_SPECIES_H2	Concentration for sp xyz C
varies	
CHEM_SPECIES_0	Concentration for sp xyz C
varies	
CHEM_SPECIES_0H	Concentration for sp xyz C
varies	
CHEM_SPECIES_H02	Concentration for sp xyz C
varies	
CHEM_SPECIES_01D	Concentration for sp xyz C
varies	
CHEM_SPECIES_M02	Concentration for sp xyz C
varies	
CHEM_SPECIES_MC03	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH200	Concentration for sp xyz C
varies	
CHEM_SPECIES_B302	Concentration for sp xyz C
varies	
CHEM_SPECIES_R402	Concentration for sp xyz C
varies	
CHEM_SPECIES_0THR02	Concentration for sp xyz C
varies	
CHEM_SPECIES_AT02	Concentration for sp xyz C
varies	
CHEM_SPECIES_MACRN02	Concentration for sp xyz C
varies	
CHEM_SPECIES_IH001	Concentration for sp xyz C
varies	
CHEM_SPECIES_IH004	Concentration for sp xyz C
varies	
CHEM_SPECIES_IN02D	Concentration for sp xyz C
varies	
CHEM_SPECIES_IN02B	Concentration for sp xyz C
varies	
CHEM_SPECIES_A302	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDHNB00	Concentration for sp xyz C
varies	
CHEM_SPECIES_PI02	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH3CH00	Concentration for sp xyz C
varies	
CHEM_SPECIES_IEPOXB00	Concentration for sp xyz C
varies	
CHEM_SPECIES_IEPOXA00	Concentration for sp xyz C
varies	

CHEM_SPECIES_K02	Concentration for sp xyz C
varies	
CHEM_SPECIES_LIM02	Concentration for sp xyz C
varies	
CHEM_SPECIES_RC03	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHPNB00	Concentration for sp xyz C
varies	
CHEM_SPECIES_ET02	Concentration for sp xyz C
varies	
CHEM_SPECIES_OLND	Concentration for sp xyz C
varies	
CHEM_SPECIES_OLNN	Concentration for sp xyz C
varies	
CHEM_SPECIES_P02	Concentration for sp xyz C
varies	
CHEM_SPECIES_MACR100	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCR0H00	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVK0H00	Concentration for sp xyz C
varies	
CHEM_SPECIES_PRN1	Concentration for sp xyz C
varies	
CHEM_SPECIES_R4N1	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICH00	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHP003	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHPND00	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHP002	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHP001	Concentration for sp xyz C
varies	
CHEM_SPECIES_H	Concentration for sp xyz C
varies	
CHEM_SPECIES_ISOPN001	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDHND002	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDHND001	Concentration for sp xyz C
varies	
CHEM_SPECIES_R0H	Concentration for sp xyz C
varies	
CHEM_SPECIES_ISOPN002	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICN00	Concentration for sp xyz C
varies	

CHEM_SPECIES_IDN00	Concentration for sp xyz C
varies	
CHEM_SPECIES_C4HVP2	Concentration for sp xyz C
varies	
CHEM_SPECIES_C4HVP1	Concentration for sp xyz C
varies	
CHEM_SPECIES_INA	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD200	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD100	Concentration for sp xyz C
varies	
CHEM_SPECIES_XR02	Concentration for sp xyz C
varies	
CHEM_SPECIES_N	Concentration for sp xyz C
varies	
CHEM_SPECIES_TR02	Concentration for sp xyz C
varies	
CHEM_SPECIES_BR02	Concentration for sp xyz C
varies	
CHEM_SPECIES_PH202	Concentration for sp xyz C
varies	
CHEM_SPECIES_LCH4	Concentration for sp xyz C
varies	
CHEM_SPECIES_PS04	Concentration for sp xyz C
varies	
CHEM_SPECIES_LC0	Concentration for sp xyz C
varies	
CHEM_SPECIES_PC0	Concentration for sp xyz C
varies	
CHEM_SPECIES_LOX	Concentration for sp xyz C
varies	
CHEM_SPECIES_POX	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04H4	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04H3	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04H2	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04H1	Concentration for sp xyz C
varies	
CHEM_SPECIES_LXR02N	Concentration for sp xyz C
varies	
CHEM_SPECIES_LXR02H	Concentration for sp xyz C
varies	
CHEM_SPECIES_LTR02N	Concentration for sp xyz C
varies	
CHEM_SPECIES_LTR02H	Concentration for sp xyz C
varies	

CHEM_SPECIES_NAP	Concentration for sp xyz C
varies	
CHEM_SPECIES_NR02	Concentration for sp xyz C
varies	
CHEM_SPECIES_LNR02N	Concentration for sp xyz C
varies	
CHEM_SPECIES_LNR02H	Concentration for sp xyz C
varies	
CHEM_SPECIES_LISOPN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_LISOP0H	Concentration for sp xyz C
varies	
CHEM_SPECIES_LBR02N	Concentration for sp xyz C
varies	
CHEM_SPECIES_LBR02H	Concentration for sp xyz C
varies	
CHEM_SPECIES_C02	Concentration for sp xyz C
varies	
CHEM_SPECIES_XYLE	Concentration for sp xyz C
varies	
CHEM_SPECIES_TOLU	Concentration for sp xyz C
varies	
CHEM_SPECIES_SOAS	Concentration for sp xyz C
varies	
CHEM_SPECIES_SOAP	Concentration for sp xyz C
varies	
CHEM_SPECIES_S0AIE	Concentration for sp xyz C
varies	
CHEM_SPECIES_S0AGX	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04S	Concentration for sp xyz C
varies	
CHEM_SPECIES_S04	Concentration for sp xyz C
varies	
CHEM_SPECIES_S02	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALCCL	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALCAL	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALC	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALACL	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALAAL	Concentration for sp xyz C
varies	
CHEM_SPECIES_SALA	Concentration for sp xyz C
varies	
CHEM_SPECIES_RP	Concentration for sp xyz C
varies	

CHEM_SPECIES_RIPD varies	Concentration for sp xyz C
CHEM_SPECIES_RIPC varies	Concentration for sp xyz C
CHEM_SPECIES_RIPB varies	Concentration for sp xyz C
CHEM_SPECIES_RIPA varies	Concentration for sp xyz C
CHEM_SPECIES_RCH0 varies	Concentration for sp xyz C
CHEM_SPECIES_RB3P varies	Concentration for sp xyz C
CHEM_SPECIES_RA3P varies	Concentration for sp xyz C
CHEM_SPECIES_R4P varies	Concentration for sp xyz C
CHEM_SPECIES_R4N2 varies	Concentration for sp xyz C
CHEM_SPECIES_PYAC varies	Concentration for sp xyz C
CHEM_SPECIES_PRPN varies	Concentration for sp xyz C
CHEM_SPECIES_PRPE varies	Concentration for sp xyz C
CHEM_SPECIES_PROPNM varies	Concentration for sp xyz C
CHEM_SPECIES_PPN varies	Concentration for sp xyz C
CHEM_SPECIES_PP varies	Concentration for sp xyz C
CHEM_SPECIES_PIP varies	Concentration for sp xyz C
CHEM_SPECIES_PFE varies	Concentration for sp xyz C
CHEM_SPECIES_PAN varies	Concentration for sp xyz C
CHEM_SPECIES_OI0 varies	Concentration for sp xyz C
CHEM_SPECIES_OCS varies	Concentration for sp xyz C
CHEM_SPECIES_OCPO varies	Concentration for sp xyz C
CHEM_SPECIES_OCPI varies	Concentration for sp xyz C
CHEM_SPECIES_OCL0 varies	Concentration for sp xyz C
CHEM_SPECIES_03 varies	Concentration for sp xyz C
CHEM_SPECIES_NPRN03 varies	Concentration for sp xyz C

CHEM_SPECIES_N03	Concentration for sp xyz C
varies	
CHEM_SPECIES_N02	Concentration for sp xyz C
varies	
CHEM_SPECIES_N0	Concentration for sp xyz C
varies	
CHEM_SPECIES_NITS	Concentration for sp xyz C
varies	
CHEM_SPECIES_NIT	Concentration for sp xyz C
varies	
CHEM_SPECIES_NH4	Concentration for sp xyz C
varies	
CHEM_SPECIES_NH3	Concentration for sp xyz C
varies	
CHEM_SPECIES_N205	Concentration for sp xyz C
varies	
CHEM_SPECIES_N20	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKPC	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKN	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKHP	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKHCB	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKHC	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVKDH	Concentration for sp xyz C
varies	
CHEM_SPECIES_MVK	Concentration for sp xyz C
varies	
CHEM_SPECIES_MTP0	Concentration for sp xyz C
varies	
CHEM_SPECIES_MTPA	Concentration for sp xyz C
varies	
CHEM_SPECIES_MSA	Concentration for sp xyz C
varies	
CHEM_SPECIES_MPN	Concentration for sp xyz C
varies	
CHEM_SPECIES_MPAN	Concentration for sp xyz C
varies	
CHEM_SPECIES_MP	Concentration for sp xyz C
varies	
CHEM_SPECIES_MONITU	Concentration for sp xyz C
varies	
CHEM_SPECIES_MONITS	Concentration for sp xyz C
varies	
CHEM_SPECIES_MONITA	Concentration for sp xyz C
varies	

CHEM_SPECIES_MOH	Concentration for sp xyz C
varies	
CHEM_SPECIES_MGLY	Concentration for sp xyz C
varies	
CHEM_SPECIES_MEN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_MEK	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCRHP	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCRHNB	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCRHN	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCRENOL	Concentration for sp xyz C
varies	
CHEM_SPECIES_MCRDH	Concentration for sp xyz C
varies	
CHEM_SPECIES_MAP	Concentration for sp xyz C
varies	
CHEM_SPECIES_MACR100H	Concentration for sp xyz C
varies	
CHEM_SPECIES_MACR	Concentration for sp xyz C
varies	
CHEM_SPECIES_LVOCOA	Concentration for sp xyz C
varies	
CHEM_SPECIES_LVOC	Concentration for sp xyz C
varies	
CHEM_SPECIES_LIMO	Concentration for sp xyz C
varies	
CHEM_SPECIES_ITHN	Concentration for sp xyz C
varies	
CHEM_SPECIES_ITCN	Concentration for sp xyz C
varies	
CHEM_SPECIES_ISOP	Concentration for sp xyz C
varies	
CHEM_SPECIES_ISALC	Concentration for sp xyz C
varies	
CHEM_SPECIES_ISALA	Concentration for sp xyz C
varies	
CHEM_SPECIES_IPRN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_IION02	Concentration for sp xyz C
varies	
CHEM_SPECIES_IION0	Concentration for sp xyz C
varies	
CHEM_SPECIES_IIONITA	Concentration for sp xyz C
varies	
CHEM_SPECIES_IO	Concentration for sp xyz C
varies	

CHEM_SPECIES_INPD	Concentration for sp xyz C
varies	
CHEM_SPECIES_INPB	Concentration for sp xyz C
varies	
CHEM_SPECIES_INO	Concentration for sp xyz C
varies	
CHEM_SPECIES_INDIOL	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHN4	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHN3	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHN2	Concentration for sp xyz C
varies	
CHEM_SPECIES_IHN1	Concentration for sp xyz C
varies	
CHEM_SPECIES_IEPOXD	Concentration for sp xyz C
varies	
CHEM_SPECIES_IEPOXB	Concentration for sp xyz C
varies	
CHEM_SPECIES_IEPOXA	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDN	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDHPE	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDHDP	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDCHP	Concentration for sp xyz C
varies	
CHEM_SPECIES_IDC	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICPDH	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICN	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICL	Concentration for sp xyz C
varies	
CHEM_SPECIES_ICHE	Concentration for sp xyz C
varies	
CHEM_SPECIES_IBR	Concentration for sp xyz C
varies	
CHEM_SPECIES_I204	Concentration for sp xyz C
varies	
CHEM_SPECIES_I203	Concentration for sp xyz C
varies	
CHEM_SPECIES_I202	Concentration for sp xyz C
varies	
CHEM_SPECIES_I2	Concentration for sp xyz C
varies	

CHEM_SPECIES_I	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPETHNL	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD4	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD3	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD2	Concentration for sp xyz C
varies	
CHEM_SPECIES_HPALD1	Concentration for sp xyz C
varies	
CHEM_SPECIES_HONIT	Concentration for sp xyz C
varies	
CHEM_SPECIES_HOI	Concentration for sp xyz C
varies	
CHEM_SPECIES_HOCL	Concentration for sp xyz C
varies	
CHEM_SPECIES_HOBR	Concentration for sp xyz C
varies	
CHEM_SPECIES_HN04	Concentration for sp xyz C
varies	
CHEM_SPECIES_HN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_HN02	Concentration for sp xyz C
varies	
CHEM_SPECIES_HMML	Concentration for sp xyz C
varies	
CHEM_SPECIES_HMHP	Concentration for sp xyz C
varies	
CHEM_SPECIES_HI	Concentration for sp xyz C
varies	
CHEM_SPECIES_HC00H	Concentration for sp xyz C
varies	
CHEM_SPECIES_HCL	Concentration for sp xyz C
varies	
CHEM_SPECIES_HCFC22	Concentration for sp xyz C
varies	
CHEM_SPECIES_HCFC142B	Concentration for sp xyz C
varies	
CHEM_SPECIES_HCFC141B	Concentration for sp xyz C
varies	
CHEM_SPECIES_HCFC123	Concentration for sp xyz C
varies	
CHEM_SPECIES_HC5A	Concentration for sp xyz C
varies	
CHEM_SPECIES_HBR	Concentration for sp xyz C
varies	
CHEM_SPECIES_HAC	Concentration for sp xyz C
varies	

CHEM_SPECIES_H202	Concentration for sp xyz C
varies	
CHEM_SPECIES_H20	Concentration for sp xyz C
varies	
CHEM_SPECIES_H2402	Concentration for sp xyz C
varies	
CHEM_SPECIES_H1301	Concentration for sp xyz C
varies	
CHEM_SPECIES_H1211	Concentration for sp xyz C
varies	
CHEM_SPECIES_GLYX	Concentration for sp xyz C
varies	
CHEM_SPECIES_GLYC	Concentration for sp xyz C
varies	
CHEM_SPECIES_ETP	Concentration for sp xyz C
varies	
CHEM_SPECIES_ETN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_ETHLN	Concentration for sp xyz C
varies	
CHEM_SPECIES_E0H	Concentration for sp xyz C
varies	
CHEM_SPECIES_DST4	Concentration for sp xyz C
varies	
CHEM_SPECIES_DST3	Concentration for sp xyz C
varies	
CHEM_SPECIES_DST2	Concentration for sp xyz C
varies	
CHEM_SPECIES_DST1	Concentration for sp xyz C
varies	
CHEM_SPECIES_DMS	Concentration for sp xyz C
varies	
CHEM_SPECIES_CO	Concentration for sp xyz C
varies	
CHEM_SPECIES_CLOCK	Concentration for sp xyz C
varies	
CHEM_SPECIES_CL00	Concentration for sp xyz C
varies	
CHEM_SPECIES_CLO	Concentration for sp xyz C
varies	
CHEM_SPECIES_CLN03	Concentration for sp xyz C
varies	
CHEM_SPECIES_CLN02	Concentration for sp xyz C
varies	
CHEM_SPECIES_CL202	Concentration for sp xyz C
varies	
CHEM_SPECIES_CL2	Concentration for sp xyz C
varies	
CHEM_SPECIES_CL	Concentration for sp xyz C
varies	

CHEM_SPECIES_CHCL3	Concentration for sp xyz C
varies	
CHEM_SPECIES_CHBR3	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH4	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH3I	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH3CL	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH3CCL3	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH3BR	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2O	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2ICL	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2IBR	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2I2	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2CL2	Concentration for sp xyz C
varies	
CHEM_SPECIES_CH2BR2	Concentration for sp xyz C
varies	
CHEM_SPECIES_CFC12	Concentration for sp xyz C
varies	
CHEM_SPECIES_CFC115	Concentration for sp xyz C
varies	
CHEM_SPECIES_CFC114	Concentration for sp xyz C
varies	
CHEM_SPECIES_CFC113	Concentration for sp xyz C
varies	
CHEM_SPECIES_CFC11	Concentration for sp xyz C
varies	
CHEM_SPECIES_CCL4	Concentration for sp xyz C
varies	
CHEM_SPECIES_C3H8	Concentration for sp xyz C
varies	
CHEM_SPECIES_C2H6	Concentration for sp xyz C
varies	
CHEM_SPECIES_BRSA LC	Concentration for sp xyz C
varies	
CHEM_SPECIES_BRSA LA	Concentration for sp xyz C
varies	
CHEM_SPECIES_BR0	Concentration for sp xyz C
varies	
CHEM_SPECIES_BRN03	Concentration for sp xyz C
varies	

```

CHEM_SPECIES_BRN02          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BRCL          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BR2           | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BR            | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BENZ          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BCPO          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_BCPI          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_AT00H         | Concentration for sp | xyz C |
varies
CHEM_SPECIES_ALK4          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_ALD2          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_AERI          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_ACTA          | Concentration for sp | xyz C |
varies
CHEM_SPECIES_ACET          | Concentration for sp | xyz C |
varies

```

```

#####
#####

```

Allocating the following fields of the State_Diag object:

```

=====
=====
State_Diag%SpeciesRst      is registered as: SpeciesRst
State_Diag%SpeciesBC      is registered as: SpeciesBC
State_Diag%SpeciesConc    is registered as: SpeciesConc
State_Diag%SpeciesConc    is registered as: SpeciesConc
State_Diag%AirMassColumnFull is registered as: AirMassColumnFull
State_Diag%OHwgtByAirMassColumnF is registered as:
OHwgtByAirMassColumnFull
State_Diag%LossOHbyCH4columnTrop is registered as:
LossOHbyCH4columnTrop
State_Diag%LossOHbyMCFcolumnTrop is registered as:
LossOHbyMCFcolumnTrop

```

Registered variables contained within the State_Diag object:

```

=====
=====
LOSSOHBYMCFCOLUMNNTROP    | Loss rate of methyl | xy   | molec
cm-3

```

LOSSOHBYCH4COLUMNTROP cm-3	Loss rate of methane	xy	molec
OHWGTTYAIRMASSCOLUMNFULL air kg OH m-3	Airmass-weighted OH	xy	kg
AIRMASSCOLUMNFULL	Air mass, full-atmos	xy	kg
SPECIESCONC_RC00H mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_O2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_N2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_H2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_O mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_OH mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_HO2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_O1D mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_MO2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_MC03 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_CH200 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_B302 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_R402 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_OTHRO2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_ATO2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_MACRNO2 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_IH001 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_IH004 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_IN02D mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_IN02B mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_A302 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_IDHNB00 mol-1 dry	Dry mixing ratio of	xyz C	mol
SPECIESCONC_PIO2 mol-1 dry	Dry mixing ratio of	xyz C	mol

mol-1 dry				
SPECIESCONC_CH3CH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXA00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_K02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LIM02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_RC03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHPNB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ET02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OLND	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OLNN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_P02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MACR100	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCROH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MVKOH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_PRN1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_R4N1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ICH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHP003	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHPND00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHP002	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHP001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ISOPN001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDHND002	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDHND001	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESCONC_ROH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ISOPN002		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ICN00		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDN00		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C4HVP2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C4HVP1		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_INA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD200		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD100		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_XR02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_TR02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BR02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PH202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LCH4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PS04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LC0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PC0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LOX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_POX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04H4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04H3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04H2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04H1		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LXR02N		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_LXR02H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LTR02N		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LTR02H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NAP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NR02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LNR02N		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LNR02H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LISOPN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LISOP0H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LBR02N		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LBR02H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_XYLE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_TOLU		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAIE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAGX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04S		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALCCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALCAL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALACL		Dry mixing ratio of		xyz C mol

mol-1 dry					
SPECIESCONC_SALAAL		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_SALA		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RP		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RIPD		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RIPC		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RIPB		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RIPA		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RCHO		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RB3P		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_RA3P		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_R4P		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_R4N2		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PYAC		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PRPN		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PRPE		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PROPNN		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PPN		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PP		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PIP		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PFE		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_PAN		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_OIO		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_OCS		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_OCPO		Dry mixing ratio of		xyz C	mol
mol-1 dry					
SPECIESCONC_OCPI		Dry mixing ratio of		xyz C	mol

mol-1 dry				
SPECIESCONC_OCL0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NPRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NITS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NIT		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NH4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NH3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N205		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N20		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKPC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHCB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKDH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVK		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MTP0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MTPA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MSA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MPN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MPAN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MP		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_MONITU	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MONITS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MONITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MOH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MGLY	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MEN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MEK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCRHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCRHNB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCRHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCRENOL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MCRDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MACR100H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MACR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LVOCOA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LVOC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LIMO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ITHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ITCN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ISOP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ISALC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ISALA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IPRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ION02	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESCONC_I0N0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_I0NITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_I0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_INPD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_INPB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IN0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_INDI0L	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHN4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHN3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHN2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHN1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDHPE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDHDP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDCHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ICPDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ICN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ICL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ICHE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_I204	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESCONC_I203		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPETHNL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD1		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HONIT		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HOI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HOCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HOBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HMML		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HMHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCOOH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC22		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC142B		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC141B		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC123		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_HC5A		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HAC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H20		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H2402		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H1301		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H1211		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_GLYX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_GLYC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ETP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ETN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ETHLN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_E0H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_DST4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_DST3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_DST2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_DST1		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_DMS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CLOCK		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CL00		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CL0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CLN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CLN02		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_CL202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CL2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CHCL3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CHBR3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH3I		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH3CL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH3CCL3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH3BR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2O		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2ICL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2IBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2I2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2CL2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2BR2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC12		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC115		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC114		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC113		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC11		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CCL4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C3H8		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C2H6		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRSALC		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_BRSA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BR0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BRN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BRCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BR2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BENZ	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BCPO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BCPI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_AT00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ALK4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ALD2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_AERI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ACTA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ACET	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_RC00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_N2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_H2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_H02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_01D	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_M02	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESCONC_MC03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_CH200	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_B302	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_R402	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OTHRO2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_AT02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_MACRNO2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IH001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IH004	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IN02D	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IN02B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_A302	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IDHNB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_PI02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_CH3CH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IEPOXA00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_K02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LIM02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_RC03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_IHPNB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_ET02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OLND	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_OLNN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_P02	Dry mixing ratio of	xyz C	mol	

mol-1 dry	SPECIESCONC_MACR100	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_MCR0H00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_MVK0H00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_PRN1	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_R4N1	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ICH00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IHP003	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IHPND00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IHP002	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IHP001	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_H	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ISOPN001	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IDHND002	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IDHND001	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ROH	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ISOPN002	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ICN00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_IDN00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_C4HVP2	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_C4HVP1	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_INA	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_HPALD200	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_HPALD100	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_XR02	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_N	Dry mixing ratio of	xyz C	mol

mol-1 dry				
SPECIESCONC_TR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_BR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_PH202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LCH4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_PS04	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LCO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_PCO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LOX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_POX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_S04H4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_S04H3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_S04H2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_S04H1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LXR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LXR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LTR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LTR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_NAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_NR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LNR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LNR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LISOPN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LISOP0H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LBR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESCONC_LBR02H	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESCONC_CO2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_XYLE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_TOLU		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAIE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SOAGX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04S		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_S02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALCCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALCAL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALACL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALAAL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_SALA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RIPD		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RIPC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RIPB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RIPA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RCHO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RB3P		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_RA3P		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_R4P		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_R4N2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PYAC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PRPN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PRPE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PROPNN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PPN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PIP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PFE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_PAN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_OIO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_OCS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_OCPO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_OCPI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_OCLO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_O3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NPRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NITS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NIT		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NH4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_NH3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_N205		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_N20		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKPC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHCB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKHC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVKDH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MVK		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MTP0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MTPA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MSA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MPN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MPAN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MONITU		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MONITS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MONITA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MOH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MGLY		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MEN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MEK		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MCRHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MCRHNB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MCRHN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MCRENOL		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_MCRDH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MAP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MACR100H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_MACR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LVOCOA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LVOC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_LIMO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ITHN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ITCN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ISOP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ISALC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ISALA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IPRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ION02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ION0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IONITA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_INPD		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_INPB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_INO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_INDIOL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IHN4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IHN3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IHN2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IHN1		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_IEPOXD		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IEPOXB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IEPOXA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDHPE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDHDP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDCHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IDC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ICPDH		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ICN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ICL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ICHE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_IBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I204		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I203		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_I		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPETHNL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HPALD1		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HONIT		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HOI		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_HOCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HOBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HN02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HMML		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HMHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HC00H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC22		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC142B		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC141B		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HCFC123		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HC5A		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_HAC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H202		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H20		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H2402		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H1301		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_H1211		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_GLYX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_GLYC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ETP		Dry mixing ratio of		xyz C mol

mol-1 dry	SPECIESCONC_ETN03	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_ETHLN	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_EOH	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_DST4	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_DST3	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_DST2	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_DST1	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_DMS	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CO	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CLOCK	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CL00	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CL0	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CLN03	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CLN02	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CL202	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CL2	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CL	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CHCL3	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CHBR3	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH4	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH3I	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH3CL	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH3CCL3	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH3BR	Dry mixing ratio of	xyz C	mol
mol-1 dry	SPECIESCONC_CH20	Dry mixing ratio of	xyz C	mol

mol-1 dry				
SPECIESCONC_CH2ICL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2IBR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2I2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2CL2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CH2BR2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC12		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC115		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC114		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC113		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CFC11		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_CCL4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C3H8		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_C2H6		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRSALC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRSALA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BR0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRN02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BRCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BR2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BENZ		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BCPO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_BCPI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_AT00H		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESCONC_ALK4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ALD2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_AERI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ACTA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESCONC_ACET		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_XYLE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_TOLU		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SOAS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SOAP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SOAIE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SOAGX		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_S04S		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_S04		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_S02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALCCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALCAL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALACL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALAAL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_SALA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_RP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_RIPD		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_RIPC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_RIPB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESBC_RIPA		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESBC_RCH0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_RB3P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_RA3P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_R4P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_R4N2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PYAC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PRPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PRPE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PROPNN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PIP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PFE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_PAN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_OIO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_OCS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_OCPO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_OCPI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_OCL0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_NPRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_N03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_N02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_N0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_NITS	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_NIT	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_NH4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_NH3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_N2O5	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_N2O	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKPC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKHCB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKHC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVKDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MVK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MTP0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MTPA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MSA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MPAN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MONITU	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MONITS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MONITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MOH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MGLY	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MEN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MEK	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_MCRHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MCRHNB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MCRHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MCRENOL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MCRDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MACR100H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_MACR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_LVOCOA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_LVOC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_LIMO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ITHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ITCN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ISOP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ISALC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ISALA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IPRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ION02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ION0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IONITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_INPD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_INPB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_INO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_INDIOL	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_IHN4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IHN3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IHN2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IHN1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IEPOXD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IEPOXB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IEPOXA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IDN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IDHPE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IDHDP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IDCHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IDC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ICPDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ICN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ICL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ICHE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_IBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_I204	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_I203	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_I202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_I2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_I	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HPETHNL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HPALD4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HPALD3	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_HPALD2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HPALD1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HONIT	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HOI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HOCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HOBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HN04	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HMML	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HMHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HC00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HCFC22	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HCFC142B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HCFC141B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HCFC123	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HC5A	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_HAC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_H202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_H20	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_H2402	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_H1301	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_H1211	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_GLYX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_GLYC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ETP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ETN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ETHLN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_EOH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_DST4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_DST3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_DST2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_DST1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_DMS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CLOCK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CL00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CL0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CLN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CLN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CL202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CL2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CHCL3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CHBR3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH3I	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_CH3CL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH3CCL3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH3BR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2O	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2ICL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2IBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2I2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2CL2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CH2BR2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CFC12	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CFC115	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CFC114	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CFC113	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CFC11	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_CCL4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_C3H8	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_C2H6	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BRSAALC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BRSALA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BR0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BRN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BRCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BR2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BR	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESBC_BENZ	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BCPO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_BCPI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_AT00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ALK4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ALD2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_AERI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ACTA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESBC_ACET	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RC00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_N2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_OH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_01D	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_M02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MC03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH200	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_B302	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_R402	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_0THR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_AT02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MACRN02	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_IH001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IH004	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IN02D	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IN02B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_A302	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDHNB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PI02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH3CH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IEPOXB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IEPOXA00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_K02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LIM02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RC03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHPNB00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ET02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_OLND	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_OLNN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_P02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MACR100	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCR0H00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MVK0H00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PRN1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_R4N1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICH00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHP003	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_IHPND00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHP002	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHP001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ISOPN001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDHND002	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDHND001	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ROH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ISOPN002	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICN00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDN00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_C4HVP2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_C4HVP1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_INA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD200	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD100	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_XR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_TR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_BR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PH202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LCH4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PS04	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LC0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PC0	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_LOX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_POX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S04H4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S04H3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S04H2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S04H1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LXR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LXR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LTR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LTR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_NAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_NR02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LNR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LNR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LISOPN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LISOP0H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LBR02N	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LBR02H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_C02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_XYLE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_TOLU	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S0AS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SOAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S0AIE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S0AGX	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_S04S	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S04	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_S02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALCCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALCAL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALACL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALAAL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_SALA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RIPD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RIPC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RIPB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RIPA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RCHO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RB3P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_RA3P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_R4P	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_R4N2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PYAC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PRPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PRPE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PROPNN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_PP	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_PIP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_PFE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_PAN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_OIO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_OCS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_OCP0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_OCPI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_OCL0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_NPRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_N03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_N02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_N0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_NITS		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_NIT		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_NH4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_NH3		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_N205		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_N20		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKPC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKN		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKHP		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKHCB		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKHC		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_MVKDH		Dry mixing ratio of		xyz C mol

mol-1 dry				
SPECIESRST_MVK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MTP0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MTPA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MSA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MPN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MPAN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MONITU	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MONITS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MONITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MOH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MGLY	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MEN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MEK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCRHP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCRHNB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCRHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCREN0L	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MCRDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MAP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MACR100H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_MACR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LV0COA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LVOC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_LIMO	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_ITHN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ITCN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ISOP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ISALC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ISALA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IPRN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IION02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IION0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IIONITA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_INPD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_INPB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_INO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_INDIOL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHN4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHN3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHN2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IHN1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IEPOXD	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IEPOXB	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IEPOXA	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDHPE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDHDP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IDCHP	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_IDC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICPDH	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ICHE	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_IBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_I204	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_I203	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_I202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_I2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_I	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPETHNL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HPALD1	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HONIT	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HOI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HOCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HOBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HN04	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HMML	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HMHP	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_HI	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HC00H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HCL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HCFC22	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HCFC142B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HCFC141B	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HCFC123	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HC5A	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_HAC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H20	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H2402	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H1301	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_H1211	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_GLYX	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_GLYC	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ETP	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ETN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_ETHLN	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_E0H	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_DST4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_DST3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_DST2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_DST1	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_DMS	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CO	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CLOCK	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CL00	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CL0	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CLN03	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CLN02	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CL202	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CL2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CHCL3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CHBR3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH4	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH3I	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH3CL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH3CCL3	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH3BR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH20	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH2ICL	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH2IBR	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH2I2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH2CL2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CH2BR2	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CFC12	Dry mixing ratio of	xyz C	mol	
mol-1 dry				
SPECIESRST_CFC115	Dry mixing ratio of	xyz C	mol	

mol-1 dry				
SPECIESRST_CFC114		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_CFC113		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_CFC11		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_CCL4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_C3H8		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_C2H6		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BRSALE		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BRSALA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BR0		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BRN03		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BRN02		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BRCL		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BR2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BR		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BENZ		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BCPO		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_BCPI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_AT00H		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_ALK4		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_ALD2		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_AERI		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_ACTA		Dry mixing ratio of		xyz C mol
mol-1 dry				
SPECIESRST_ACET		Dry mixing ratio of		xyz C mol
mol-1 dry				

Registered variables contained within the State_Met object:

=====

```

=====
MET_LOCALSOLARTIME      | Local solar time      | xy   | hours
MET_XLAINATIVE72      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE71      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE70      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE69      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE68      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE67      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE66      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE65      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE64      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE63      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE62      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE61      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE60      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE59      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE58      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE57      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE56      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE55      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE54      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE53      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE52      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE51      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE50      | Average LAI per 0lso | xy   | m2
m-2
MET_XLAINATIVE49      | Average LAI per 0lso | xy   | m2
m-2

```

MET_XLAINATIVE48 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE47 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE46 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE45 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE44 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE43 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE42 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE41 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE40 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE39 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE38 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE37 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE36 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE35 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE34 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE33 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE32 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE31 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE30 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE29 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE28 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE27 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE26 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE25 m-2	Average LAI per 0lso xy m2
MET_XLAINATIVE24 m-2	Average LAI per 0lso xy m2

MET_XLAINATIVE23	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE22	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE21	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE20	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE19	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE18	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE17	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE16	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE15	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE14	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE13	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE12	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE11	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE10	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE09	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE08	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE07	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE06	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE05	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE04	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE03	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE02	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE01	Average LAI per 0lso xy	m2
m-2		
MET_XLAINATIVE00	Average LAI per 0lso xy	m2
m-2		
MET_XLAI272	MODIS LAI for each 0 xy	m2
m-2		

MET_XLAI271	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI270	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI269	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI268	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI267	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI266	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI265	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI264	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI263	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI262	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI261	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI260	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI259	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI258	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI257	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI256	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI255	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI254	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI253	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI252	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI251	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI250	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI249	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI248	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI247	MODIS LAI for each 0	xy	m2
m-2			

MET_XLAI246	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI245	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI244	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI243	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI242	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI241	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI240	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI239	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI238	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI237	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI236	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI235	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI234	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI233	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI232	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI231	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI230	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI229	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI228	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI227	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI226	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI225	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI224	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI223	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI222	MODIS LAI for each 0	xy	m2
m-2			

MET_XLAI221	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI220	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI219	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI218	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI217	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI216	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI215	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI214	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI213	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI212	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI211	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI210	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI209	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI208	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI207	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI206	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI205	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI204	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI203	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI202	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI201	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI200	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI72	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI71	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI70	MODIS LAI for each 0	xy	m2
m-2			

MET_XLAI69	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI68	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI67	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI66	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI65	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI64	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI63	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI62	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI61	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI60	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI59	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI58	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI57	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI56	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI55	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI54	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI53	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI52	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI51	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI50	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI49	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI48	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI47	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI46	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI45	MODIS LAI for each 0	xy	m2
m-2			

MET_XLAI44	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI43	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI42	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI41	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI40	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI39	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI38	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI37	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI36	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI35	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI34	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI33	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI32	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI31	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI30	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI29	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI28	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI27	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI26	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI25	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI24	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI23	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI22	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI21	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI20	MODIS LAI for each 0	xy	m2
m-2			

MET_XLAI19	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI18	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI17	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI16	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI15	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI14	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI13	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI12	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI11	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI10	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI09	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI08	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI07	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI06	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI05	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI04	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI03	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI02	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI01	MODIS LAI for each 0	xy	m2
m-2			
MET_XLAI00	MODIS LAI for each 0	xy	m2
m-2			
MET_V	North-south componen	xyz C	m s-1
MET_U	East-west component	xyz C	m s-1
MET_TV	Virtual temperature	xyz C	K
MET_TMPU2	Instantaneous temper	xyz C	K
MET_TMPU1	Instantaneous temper	xyz C	K
MET_THETA	Potential temperatur	xyz C	K
MET_TAUCLW	Optical depth of H2O	xyz C	1
MET_TAUCLI	Optical depth of ice	xyz C	1
MET_T	Temperature	xyz C	K
MET_SPHUPREV	Previous State_Met%S	xyz C	g

kg-1	MET_SPHU2	Instantaneous specif	xyz C	g
kg-1	MET_SPHU1	Instantaneous specif	xyz C	g
kg-1	MET_SPHU	Specific humidity (w	xyz C	g
kg-1	MET_RH	Relative humidity	xyz C	%
	MET_REEVAPLS	Evaporation of large	xyz C	kg
	MET_REEVAPCN	Evaporation of conve	xyz C	kg
kg-1 s-1	MET_QL	Water mixing ratio (xyz C	kg
kg-1	MET_QI	Ice mixing ratio (w/	xyz C	kg
kg-1	MET_PMIDDRY	Pressure (w/r/t dry	xyz C	hPa
	MET_PMID	Pressure (w/r/t mois	xyz C	hPa
	MET_PFLLSAN	Downward flux of liq	xyz E	kg
m-2 s-1	MET_PFLCU	Downward flux of liq	xyz E	kg
m-2 s-1	MET_PFILSAN	Downward flux of ic	xyz E	kg
m-2 s-1	MET_PFICU	Downward flux of ice	xyz E	kg
m-2 s-1	MET_PEDGEDRY	Pressure (w/r/t dry	xyz E	hPa
	MET_PEDGE	Pressure (w/r/t mois	xyz E	hPa
	MET_OPTD	Visible optical dept	xyz C	1
	MET_OMEGA	Updraft velocity	xyz C	Pa
s-1	MET_MAIRDEN	Moist air density	xyz C	kg
m-3	MET_LANDTYPEFRAC72	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC71	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC70	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC69	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC68	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC67	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC66	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC65	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC64	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC63	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC62	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC61	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC60	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC59	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC58	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC57	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC56	Olson fraction per l	xy	1
	MET_LANDTYPEFRAC55	Olson fraction per l	xy	1

MET_LANDTYPEFRAC04	Olson fraction per l	xy	1
MET_LANDTYPEFRAC03	Olson fraction per l	xy	1
MET_LANDTYPEFRAC02	Olson fraction per l	xy	1
MET_LANDTYPEFRAC01	Olson fraction per l	xy	1
MET_LANDTYPEFRAC00	Olson fraction per l	xy	1
MET_IUSE72	Fraction (per mil) o	xy	0/00
MET_IUSE71	Fraction (per mil) o	xy	0/00
MET_IUSE70	Fraction (per mil) o	xy	0/00
MET_IUSE69	Fraction (per mil) o	xy	0/00
MET_IUSE68	Fraction (per mil) o	xy	0/00
MET_IUSE67	Fraction (per mil) o	xy	0/00
MET_IUSE66	Fraction (per mil) o	xy	0/00
MET_IUSE65	Fraction (per mil) o	xy	0/00
MET_IUSE64	Fraction (per mil) o	xy	0/00
MET_IUSE63	Fraction (per mil) o	xy	0/00
MET_IUSE62	Fraction (per mil) o	xy	0/00
MET_IUSE61	Fraction (per mil) o	xy	0/00
MET_IUSE60	Fraction (per mil) o	xy	0/00
MET_IUSE59	Fraction (per mil) o	xy	0/00
MET_IUSE58	Fraction (per mil) o	xy	0/00
MET_IUSE57	Fraction (per mil) o	xy	0/00
MET_IUSE56	Fraction (per mil) o	xy	0/00
MET_IUSE55	Fraction (per mil) o	xy	0/00
MET_IUSE54	Fraction (per mil) o	xy	0/00
MET_IUSE53	Fraction (per mil) o	xy	0/00
MET_IUSE52	Fraction (per mil) o	xy	0/00
MET_IUSE51	Fraction (per mil) o	xy	0/00
MET_IUSE50	Fraction (per mil) o	xy	0/00
MET_IUSE49	Fraction (per mil) o	xy	0/00
MET_IUSE48	Fraction (per mil) o	xy	0/00
MET_IUSE47	Fraction (per mil) o	xy	0/00
MET_IUSE46	Fraction (per mil) o	xy	0/00
MET_IUSE45	Fraction (per mil) o	xy	0/00
MET_IUSE44	Fraction (per mil) o	xy	0/00
MET_IUSE43	Fraction (per mil) o	xy	0/00
MET_IUSE42	Fraction (per mil) o	xy	0/00
MET_IUSE41	Fraction (per mil) o	xy	0/00
MET_IUSE40	Fraction (per mil) o	xy	0/00
MET_IUSE39	Fraction (per mil) o	xy	0/00
MET_IUSE38	Fraction (per mil) o	xy	0/00
MET_IUSE37	Fraction (per mil) o	xy	0/00
MET_IUSE36	Fraction (per mil) o	xy	0/00
MET_IUSE35	Fraction (per mil) o	xy	0/00
MET_IUSE34	Fraction (per mil) o	xy	0/00
MET_IUSE33	Fraction (per mil) o	xy	0/00
MET_IUSE32	Fraction (per mil) o	xy	0/00
MET_IUSE31	Fraction (per mil) o	xy	0/00
MET_IUSE30	Fraction (per mil) o	xy	0/00
MET_IUSE29	Fraction (per mil) o	xy	0/00
MET_IUSE28	Fraction (per mil) o	xy	0/00

MET_IUSE27	Fraction (per mil)	o	xy	o/oo
MET_IUSE26	Fraction (per mil)	o	xy	o/oo
MET_IUSE25	Fraction (per mil)	o	xy	o/oo
MET_IUSE24	Fraction (per mil)	o	xy	o/oo
MET_IUSE23	Fraction (per mil)	o	xy	o/oo
MET_IUSE22	Fraction (per mil)	o	xy	o/oo
MET_IUSE21	Fraction (per mil)	o	xy	o/oo
MET_IUSE20	Fraction (per mil)	o	xy	o/oo
MET_IUSE19	Fraction (per mil)	o	xy	o/oo
MET_IUSE18	Fraction (per mil)	o	xy	o/oo
MET_IUSE17	Fraction (per mil)	o	xy	o/oo
MET_IUSE16	Fraction (per mil)	o	xy	o/oo
MET_IUSE15	Fraction (per mil)	o	xy	o/oo
MET_IUSE14	Fraction (per mil)	o	xy	o/oo
MET_IUSE13	Fraction (per mil)	o	xy	o/oo
MET_IUSE12	Fraction (per mil)	o	xy	o/oo
MET_IUSE11	Fraction (per mil)	o	xy	o/oo
MET_IUSE10	Fraction (per mil)	o	xy	o/oo
MET_IUSE09	Fraction (per mil)	o	xy	o/oo
MET_IUSE08	Fraction (per mil)	o	xy	o/oo
MET_IUSE07	Fraction (per mil)	o	xy	o/oo
MET_IUSE06	Fraction (per mil)	o	xy	o/oo
MET_IUSE05	Fraction (per mil)	o	xy	o/oo
MET_IUSE04	Fraction (per mil)	o	xy	o/oo
MET_IUSE03	Fraction (per mil)	o	xy	o/oo
MET_IUSE02	Fraction (per mil)	o	xy	o/oo
MET_IUSE01	Fraction (per mil)	o	xy	o/oo
MET_IUSE00	Fraction (per mil)	o	xy	o/oo
MET_ILAND72	Olson land type indi		xy	1
MET_ILAND71	Olson land type indi		xy	1
MET_ILAND70	Olson land type indi		xy	1
MET_ILAND69	Olson land type indi		xy	1
MET_ILAND68	Olson land type indi		xy	1
MET_ILAND67	Olson land type indi		xy	1
MET_ILAND66	Olson land type indi		xy	1
MET_ILAND65	Olson land type indi		xy	1
MET_ILAND64	Olson land type indi		xy	1
MET_ILAND63	Olson land type indi		xy	1
MET_ILAND62	Olson land type indi		xy	1
MET_ILAND61	Olson land type indi		xy	1
MET_ILAND60	Olson land type indi		xy	1
MET_ILAND59	Olson land type indi		xy	1
MET_ILAND58	Olson land type indi		xy	1
MET_ILAND57	Olson land type indi		xy	1
MET_ILAND56	Olson land type indi		xy	1
MET_ILAND55	Olson land type indi		xy	1
MET_ILAND54	Olson land type indi		xy	1
MET_ILAND53	Olson land type indi		xy	1
MET_ILAND52	Olson land type indi		xy	1
MET_ILAND51	Olson land type indi		xy	1

MET_ILAND00	Olson land type indi	xy	1
MET_DTRAIN	Detrainment flux	xyz C	kg
m-2 s-1			
MET_DQRLSAN	Production rate of l	xyz C	kg
kg-1 s-1			
MET_DQRCU	Production rate of c	xyz C	kg
kg-1 s-1			
MET_FUNDERPBLTOP	Fraction of box unde	xyz C	1
MET_FOFPBL	Fraction of PBL	xyz C	1
MET_DPDRYPREV	Previous State_Met%D	xyz C	hPa
MET_DELPDRY	Delta-pressure acros	xyz C	hPa
MET_DELP	Delta-pressure acros	xyz C	hPa
MET_CMFC	Cloud mass flux	xyz E	kg
m-2 s-1			
MET_CLDF	3-D cloud fraction	xyz C	1
MET_BXHEIGHT	Grid box height (w/r	xyz C	m
MET_AVGW	Water vapor mixing r	xyz C	vol
vol-1			
MET_AIRVOL	Volume of dry air in	xyz C	m3
MET_AIRNUMDEN	Dry air density	xyz C	m-3
MET_AIRDEN	Dry air density	xyz C	kg
m-3			
MET_AD	Dry air mass	xyz C	kg
MET_Z0	Surface roughness he	xy	m
MET_V10M	North-south wind at	xy	m s-1
MET_UVALBEDO	Ultraviolet surface	xy	1
MET_USTAR	Friction velocity	xy	m s-1
MET_U10M	East-west wind at 10	xy	m s-1
MET_TSKIN	Surface skin tempera	xy	K
MET_TS	Surface temperature	xy	K
MET_TROPP	Tropopause pressure	xy	hPa
MET_TROPHT	Tropopause height	xy	km
MET_TROPLEV	GEOS-Chem level wher	xy	1
MET_T03	Total overhead ozone	xy	
dobsons			
MET_SWGDN	Incident shortwave r	xy	W m-2
MET_SUNCOSMID	Cosine of solar zen	xy	1
MET_SUNCOS	Cosine of solar zen	xy	1
MET_SNOMAS	Snow mass	xy	kg
m-2			
MET_SNOPD	Snow depth	xy	m
MET_SLP	Sea level pressure	xy	hPa
MET_SEAICE90	Sea ice coverage 90-	xy	1
MET_SEAICE80	Sea ice coverage 80-	xy	1
MET_SEAICE70	Sea ice coverage 70-	xy	1
MET_SEAICE60	Sea ice coverage 60-	xy	1
MET_SEAICE50	Sea ice coverage 50-	xy	1
MET_SEAICE40	Sea ice coverage 40-	xy	1
MET_SEAICE30	Sea ice coverage 30-	xy	1
MET_SEAICE20	Sea ice coverage 20-	xy	1

MET_SEAICE10	Sea ice coverage 10-	xy	1
MET_SEAICE00	Sea ice coverage 00-	xy	1
MET_PSC2DRY	Dry interpolated sur	xy	hPa
MET_PS2DRY	Dry surface pressure	xy	hPa
MET_PS1DRY	Dry surface pressure	xy	hPa
MET_PSC2WET	Wet interpolated sur	xy	hPa
MET_PS2WET	Wet surface pressure	xy	hPa
MET_PS1WET	Wet surface pressure	xy	hPa
MET_PRECTOT	Total precipitation	xy	mm
day-1			
MET_PRECLSC	Large-scale precipit	xy	kg
m-2 s-1			
MET_PRECCON	Convective precipita	xy	mm
day-1			
MET_PRECANV	Anvil precipitation	xy	kg
m-2 s-1			
MET_PHIS	Surface geopotential	xy	m2
s-1			
MET_PBLTHICK	Planetary boundary l	xy	hPa
MET_PBLTOPM	Planetary boundary l	xy	m
MET_PBLTOPL	Planetary boundary l	xy	layer
MET_PBLTOPHPA	Planetary boundary l	xy	hPa
MET_PBLH	Planetary boundary l	xy	m
MET_PARDF	Diffuse photosynthes	xy	W m-2
MET_PARDR	Direct photosynthesi	xy	W m-2
MET_MODISLAI	Daily LAI computed f	xy	m2
m-2			
MET_LWI	Land-water-ice indic	xy	1
MET_LAI	Leaf area index from	xy	m2
m-2			
MET_IREG	Number of Olson land	xy	1
MET_HFLUX	Sensible heat flux	xy	W m-2
MET_GWETTOP	Top soil moisture	xy	1
MET_GWETROOT	Root soil wetness	xy	1
MET_FRSNO	Fraction of snow on	xy	1
MET_FRSEAICE	Fraction of sea ice	xy	1
MET_FROCEAN	Fraction of ocean	xy	1
MET_FRLANDIC	Fraction of land ice	xy	1
MET_FRLAND	Fraction of land	xy	1
MET_FRLAKE	Fraction of lake	xy	1
MET_FRCLND	Olson land fraction	xy	1
MET_FLASHDENS	Lightning flash dens	xy	km-2
s-1			
MET_EFLUX	Latent heat flux	xy	W m-2
MET_CONVDEPTH	Convective cloud dep	xy	m
MET_CLDTOPS	Maximum cloud top he	xy	level
MET_CLDFRC	Column cloud fractio	xy	1
MET_CHEMGRIDLEV	Highest level of the	xy	1
MET_AREAM2	Surface area of grid	xy	m2
MET_ALBD	Visible surface albe	xy	1

=====

VERTICAL GRID SETUP

INIT_PRESSURE: Vertical coordinates!

Ap

0.000000	0.048048	6.593752	13.134800	19.613110
26.092010				
32.570810	38.982010	45.339010	51.696110	58.053210
64.362640				
70.621980	78.834220	89.099920	99.365210	109.181700
118.958600				
128.695900	142.910000	156.260000	169.609000	181.619000
193.097000				
203.259000	212.150000	218.776000	223.898000	224.363000
216.865000				
201.192000	176.930000	150.393000	127.837000	108.663000
92.365720				
78.512310	56.387910	40.175410	28.367810	19.791600
9.292942				
4.076571	1.650790	0.616779	0.211349	0.066000
0.010000				

Bp

1.000000	0.984952	0.963406	0.941865	0.920387
0.898908				
0.877429	0.856018	0.834661	0.813304	0.791947
0.770637				
0.749378	0.721166	0.685900	0.650635	0.615818
0.581041				
0.546304	0.494590	0.443740	0.392891	0.343381
0.294403				
0.246741	0.200350	0.156224	0.113602	0.063720
0.028010				
0.006960	0.000000	0.000000	0.000000	0.000000
0.000000				
0.000000	0.000000	0.000000	0.000000	0.000000
0.000000				
0.000000	0.000000	0.000000	0.000000	0.000000
0.000000				

=====

READ_DRYDEP_INPUTS: Opening /net/seurat/data/ctm/CHEM_INPUTS/
Olson_Land_Map_201203/Olson_2001_Drydep_Inputs.nc

%% Successfully read DRYCOEFF [1]

%% Successfully read IOLSON [1]

%% Successfully read IDEP [1]

%% Successfully read IWATER [1]

%% Successfully read IZO [Default roughness heights for each Olson]

land type]

```

%% Successfully read IDRYDEP [1]
%% Successfully read IRI [s m-1]
%% Successfully read IRLU [s m-1]
%% Successfully read IRAC [s m-1]
%% Successfully read IRGSS [s m-1]
%% Successfully read IRGSO [s m-1]
%% Successfully read IRCLS [s m-1]
%% Successfully read IRCL0 [s m-1]
%% Successfully read IVSMAX [1e-2 cm s-1]
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

INIT_DRYDEP: List of dry deposition species:

#	Name	Species Number	DEPVEL Index	Henry's Law Const	React. Factor	Molec. Weight	Aerosol? (T or F)
1	ACET	1	1	1.0E+05	1.000	0.058	F
2	ACTA	2	2	4.1E+03	1.000	0.060	F
3	AERI	3	3	0.0E+00	0.000	0.127	T
4	ALD2	4	4	1.1E+01	1.000	0.044	F
5	AT00H	6	5	2.9E+02	1.000	0.090	F
6	BCPI	7	6	0.0E+00	0.000	0.012	T
7	BCP0	8	7	0.0E+00	0.000	0.012	T
8	Br2	11	8	7.6E-01	0.000	0.160	F
9	BrCl	12	9	9.7E-01	0.000	0.115	F
10	BrN03	14	10	1.0E+20	0.000	0.142	F
11	BrSALA	16	11	0.0E+00	0.000	0.080	T
12	BrSALC	17	12	0.0E+00	0.000	0.080	T
13	CH20	31	13	3.0E+03	1.000	0.030	F
14	Cl2	40	14	9.2E-02	0.000	0.071	F
15	ClN02	42	15	4.5E-02	0.000	0.081	F
16	ClN03	43	16	1.0E+20	0.000	0.097	F
17	Cl0	44	17	7.0E-01	0.000	0.051	F
18	Cl00	45	18	1.0E+00	0.000	0.067	F
19	DST1	49	19	0.0E+00	0.000	0.029	T
20	DST2	50	20	0.0E+00	0.000	0.029	T
21	DST3	51	21	0.0E+00	0.000	0.029	T
22	DST4	52	22	0.0E+00	0.000	0.029	T
23	EOH	53	23	1.9E+02	0.000	0.046	F
24	ETHLN	54	24	2.0E+06	1.000	0.105	F
25	ETN03	55	25	1.6E+00	0.100	0.091	F
26	ETP	56	26	2.9E+02	1.000	0.062	F
27	GLYC	57	27	4.1E+04	1.000	0.060	F
28	GLYX	58	28	3.6E+05	1.000	0.058	F
29	H202	63	29	5.0E+07	1.000	0.034	F
30	HAC	64	30	1.4E+06	1.000	0.074	F
31	HBr	65	31	7.1E+15	0.000	0.081	F
32	HC5A	66	32	7.8E+03	0.000	0.100	F

33	HCL	71	33	2.0E+13	0.000	0.036	F
34	HCOOH	72	34	8.9E+03	1.000	0.046	F
35	HI	73	35	2.3E+16	0.000	0.128	F
36	HMHP	74	36	1.3E+06	1.000	0.064	F
37	HMML	75	37	1.2E+05	1.000	0.102	F
38	HNO3	77	38	1.0E+14	0.000	0.063	F
39	HOBrl	79	39	1.3E+03	0.000	0.097	F
40	HOCL	80	40	6.5E+02	0.000	0.052	F
41	HOI	81	41	1.5E+04	0.000	0.144	F
42	HONIT	82	42	2.0E+06	1.000	0.147	F
43	HPALD1	83	43	4.0E+04	0.000	0.116	F
44	HPALD2	84	44	4.0E+04	0.000	0.116	F
45	HPALD3	85	45	4.0E+04	0.000	0.116	F
46	HPALD4	86	46	4.0E+04	0.000	0.116	F
47	HPETHNL	87	47	4.1E+04	1.000	0.076	F
48	I2	89	48	2.7E+00	0.000	0.254	F
49	I2O2	90	49	1.0E+20	0.000	0.286	F
50	I2O3	91	50	1.0E+20	0.000	0.302	F
51	I2O4	92	51	1.0E+20	0.000	0.318	F
52	IBrl	93	52	2.4E+01	0.000	0.207	F
53	ICHE	94	53	8.0E+07	1.000	0.116	F
54	ICL	95	54	1.1E+02	0.000	0.162	F
55	ICN	96	55	2.0E+06	1.000	0.145	F
56	ICPDH	97	56	1.0E+08	1.000	0.150	F
57	IDC	98	57	4.0E+04	0.000	0.098	F
58	IDCHP	99	58	1.0E+08	1.000	0.148	F
59	IDHDP	100	59	1.0E+08	1.000	0.168	F
60	IDHPE	101	60	1.0E+08	1.000	0.150	F
61	IDN	102	61	1.0E+08	1.000	0.192	F
62	IEPOXA	103	62	8.0E+07	1.000	0.106	F
63	IEPOXB	104	63	8.0E+07	1.000	0.106	F
64	IEPOXD	105	64	8.0E+07	1.000	0.106	F
65	IHN1	106	65	2.0E+06	1.000	0.147	F
66	IHN2	107	66	2.0E+06	1.000	0.147	F
67	IHN3	108	67	2.0E+06	1.000	0.147	F
68	IHN4	109	68	2.0E+06	1.000	0.147	F
69	INDIOL	110	69	0.0E+00	0.000	0.102	T
70	INPB	112	70	2.0E+06	1.000	0.163	F
71	INPD	113	71	2.0E+06	1.000	0.163	F
72	IONITA	115	72	0.0E+00	0.000	0.014	T
73	IONO	116	73	3.0E-01	0.000	0.173	F
74	IONO2	117	74	1.0E+20	0.000	0.189	F
75	IPRN03	118	75	7.9E-01	0.100	0.105	F
76	ISALA	119	76	0.0E+00	0.000	0.127	T
77	ISALC	120	77	0.0E+00	0.000	0.127	T
78	ITCN	122	78	1.0E+08	1.000	0.195	F
79	ITHN	123	79	1.0E+08	1.000	0.197	F
80	LIMO	124	80	7.0E-02	0.000	0.136	F
81	LVOC	125	81	1.0E+08	1.000	0.154	F
82	LVOCOA	126	82	0.0E+00	0.000	0.154	T

83	MACR	127	83	6.5E+00	1.000	0.070	F
84	MACR100H	128	84	2.9E+02	1.000	0.102	F
85	MAP	129	85	8.4E+02	1.000	0.076	F
86	MCRDH	130	86	1.4E+06	1.000	0.104	F
87	MCRENOL	131	87	2.9E+02	1.000	0.086	F
88	MCRHN	132	88	2.0E+06	1.000	0.149	F
89	MCRHNB	133	89	2.0E+06	1.000	0.149	F
90	MCRHP	134	90	1.4E+06	1.000	0.120	F
91	MEN03	136	91	2.0E+00	0.100	0.077	F
92	MGLY	137	92	3.7E+03	1.000	0.072	F
93	MOH	138	93	2.0E+02	1.000	0.032	F
94	MONITA	139	94	0.0E+00	0.000	0.014	T
95	MONITS	140	95	2.0E+06	1.000	0.147	F
96	MONITU	141	96	2.0E+06	1.000	0.147	F
97	MPAN	143	97	1.7E+00	1.000	0.121	F
98	MSA	145	98	0.0E+00	0.000	0.096	T
99	MTPA	146	99	4.9E-02	0.000	0.136	F
100	MTP0	147	100	4.9E-02	0.000	0.136	F
101	MVK	148	101	4.4E+01	1.000	0.070	F
102	MVKDH	149	102	1.4E+06	1.000	0.105	F
103	MVKHC	150	103	1.4E+06	1.000	0.102	F
104	MVKHCB	151	104	1.4E+06	1.000	0.102	F
105	MVKHP	152	105	1.4E+06	1.000	0.120	F
106	MVKN	153	106	2.0E+06	1.000	0.149	F
107	MVKPC	154	107	1.4E+06	1.000	0.118	F
108	N205	156	108	1.0E+14	0.000	0.063	F
109	NH3	157	109	2.0E+04	0.000	0.017	F
110	NH4	158	110	0.0E+00	0.000	0.018	T
111	NIT	159	111	0.0E+00	0.000	0.062	T
112	NITS	160	112	0.0E+00	0.000	0.031	T
113	NO2	162	113	1.0E-02	0.100	0.046	F
114	NPRN03	164	114	1.1E+00	0.100	0.105	F
115	03	165	115	1.0E-02	1.000	0.048	F
116	OCPI	167	116	0.0E+00	0.000	0.012	T
117	OCPO	168	117	0.0E+00	0.000	0.012	T
118	PAN	171	118	3.6E+00	1.000	0.121	F
119	pFe	172	119	0.0E+00	0.000	0.056	T
120	PP	174	120	2.9E+02	1.000	0.092	F
121	PPN	175	121	3.6E+00	1.000	0.121	F
122	PROPNN	176	122	5.0E+05	1.000	0.119	F
123	PRPN	178	123	2.9E+02	1.000	0.137	F
124	PYAC	179	124	3.1E+05	1.000	0.088	F
125	R4N2	180	125	1.7E+04	1.000	0.121	F
126	R4P	181	126	2.9E+02	1.000	0.090	F
127	RA3P	182	127	2.9E+02	1.000	0.076	F
128	RB3P	183	128	2.9E+02	1.000	0.076	F
129	RIPA	185	129	1.7E+06	1.000	0.118	F
130	RIPB	186	130	1.7E+06	1.000	0.118	F
131	RIPC	187	131	1.7E+06	1.000	0.118	F
132	RIPD	188	132	1.7E+06	1.000	0.118	F

133	RP	189	133	2.9E+02	1.000	0.090	F
134	SALA	190	134	0.0E+00	0.000	0.031	T
135	SALAAL	191	135	0.0E+00	0.000	0.031	T
136	SALACL	192	136	0.0E+00	0.000	0.035	T
137	SALC	193	137	0.0E+00	0.000	0.031	T
138	SALCAL	194	138	0.0E+00	0.000	0.031	T
139	SALCCL	195	139	0.0E+00	0.000	0.035	T
140	S02	196	140	1.0E+05	0.000	0.064	F
141	S04	197	141	0.0E+00	0.000	0.096	T
142	S04S	198	142	0.0E+00	0.000	0.031	T
143	S0AGX	199	143	0.0E+00	0.000	0.058	T
144	S0AIE	200	144	0.0E+00	0.000	0.118	T
145	S0AS	202	145	0.0E+00	0.000	0.150	T

INIT_WETSCAV: List of soluble species:

#	Name	Species ID	Mol Wt g/mol	Henry K0 M/atm	Henry CR K	Henry pKa 1
1	ACTA	2	60.1	4.05E+03	6.20E+03	-
2	AERI	3	126.9	-	-	-
3	ALD2	4	44.1	1.32E+01	5.90E+03	-
4	AT00H	6	90.1	2.94E+02	5.20E+03	-
5	BCPI	7	12.0	-	-	-
6	BCP0	8	12.0	-	-	-
7	Br2	11	159.8	7.60E-01	3.72E+03	-
8	BrCl	12	115.5	9.70E-01	5.60E+03	-
9	BrSALA	16	79.9	-	-	-
10	BrSALC	17	79.9	-	-	-
11	CH20	31	30.0	3.24E+03	6.80E+03	-
12	DST1	49	29.0	-	-	-
13	DST2	50	29.0	-	-	-
14	DST3	51	29.0	-	-	-
15	DST4	52	29.0	-	-	-
16	EOH	53	46.1	1.93E+02	6.40E+03	-
17	ETHLN	54	105.1	1.70E+04	9.20E+03	-
18	ETP	56	62.1	3.34E+02	6.00E+03	-
19	GLYC	57	60.1	4.15E+04	4.60E+03	-
20	GLYX	58	58.0	4.15E+05	7.50E+03	-
21	H202	63	34.0	8.30E+04	7.40E+03	-
22	HAC	64	74.1	7.80E+03	0.00E+00	-
23	HBr	65	80.9	7.10E+13	1.02E+04	-
24	HC5A	66	100.1	7.80E+03	0.00E+00	-
25	HCl	71	36.5	6.30E+10	9.00E+03	-
26	HC00H	72	46.0	8.92E+03	6.10E+03	-
27	HI	73	127.9	7.43E+13	3.19E+03	-
28	HMHP	74	64.0	1.30E+06	5.20E+03	-
29	HMML	75	102.1	1.20E+05	7.20E+03	-
30	HNO3	77	63.0	8.30E+04	7.40E+03	-
31	H0Br	79	96.9	1.30E+03	4.00E+03	-

32	HOC1	80	52.5	6.50E+02	5.90E+03	-
33	HOI	81	143.9	1.54E+04	8.37E+03	-
34	HONIT	82	215.0	2.69E+13	5.49E+03	-
35	HPETHNL	87	76.1	4.10E+04	4.60E+03	-
36	I2	89	253.8	2.70E+00	7.51E+03	-
37	I202	90	285.8	1.00E+20	1.89E+04	-
38	I203	91	301.8	1.00E+20	1.34E+04	-
39	I204	92	317.8	1.00E+20	1.34E+04	-
40	IBr	93	206.9	2.40E+01	4.92E+03	-
41	ICHE	94	116.1	8.00E+07	0.00E+00	-
42	IC1	95	162.4	1.11E+02	2.11E+03	-
43	ICN	96	145.1	1.70E+04	9.20E+03	-
44	ICPDH	97	150.2	1.00E+08	7.20E+03	-
45	IDCHP	99	148.1	1.00E+08	7.20E+03	-
46	IDHDP	100	168.2	1.00E+08	7.20E+03	-
47	IDHPE	101	150.2	1.00E+08	7.20E+03	-
48	IDN	102	192.2	1.00E+08	7.20E+03	-
49	IEPOXA	103	106.1	8.00E+07	0.00E+00	-
50	IEPOXB	104	106.1	8.00E+07	0.00E+00	-
51	IEPOXD	105	106.1	8.00E+07	0.00E+00	-
52	IHN1	106	147.2	1.70E+04	9.20E+03	-
53	IHN2	107	147.2	1.70E+04	9.20E+03	-
54	IHN3	108	147.2	1.70E+04	9.20E+03	-
55	IHN4	109	147.2	1.70E+04	9.20E+03	-
56	INDIOL	110	102.0	-	-	-
57	INPB	112	163.2	1.70E+04	9.20E+03	-
58	INPD	113	163.2	1.70E+04	9.20E+03	-
59	IONITA	115	14.0	-	-	-
60	IONO	116	172.9	3.00E-01	7.24E+03	-
61	IONO2	117	188.9	1.00E+20	3.98E+03	-
62	ISALA	119	126.9	-	-	-
63	ISALC	120	126.9	-	-	-
64	ITCN	122	195.2	1.00E+08	7.20E+03	-
65	ITHN	123	197.2	1.00E+08	7.20E+03	-
66	LIMO	124	136.3	7.00E-02	0.00E+00	-
67	LVOC	125	154.2	1.00E+08	7.20E+03	-
68	LVOCOA	126	154.2	-	-	-
69	MACR100H	128	102.1	2.94E+02	5.20E+03	-
70	MAP	129	76.1	8.40E+02	5.30E+03	-
71	MCRDH	130	104.1	1.40E+06	7.20E+03	-
72	MCRENOL	131	86.1	2.94E+02	5.20E+03	-
73	MCRHN	132	149.1	1.70E+04	9.20E+03	-
74	MCRHNB	133	149.1	1.70E+04	9.20E+03	-
75	MCRHP	134	120.1	1.40E+06	7.20E+03	-
76	MEK	135	72.1	1.82E+01	5.70E+03	-
77	MGLY	137	72.1	3.24E+04	6.20E+03	-
78	MOH	138	32.0	2.03E+02	5.60E+03	-
79	MONITA	139	14.0	-	-	-
80	MONITS	140	215.3	1.70E+04	9.20E+03	-
81	MONITU	141	215.3	1.70E+04	9.20E+03	-

82	MP	142	48.0	2.94E+02	5.20E+03	-
83	MPAN	143	147.1	1.72E+00	0.00E+00	-
84	MPN	144	93.0	2.94E+02	5.20E+03	-
85	MSA	145	96.1	-	-	-
86	MTPA	146	136.3	4.90E-02	0.00E+00	-
87	MTP0	147	136.3	4.90E-02	0.00E+00	-
88	MVK	148	70.1	2.63E+01	4.80E+03	-
89	MVKDH	149	105.1	1.40E+06	7.20E+03	-
90	MVKHC	150	102.1	1.40E+06	7.20E+03	-
91	MVKHCB	151	102.1	1.40E+06	7.20E+03	-
92	MVKHP	152	120.1	1.40E+06	7.20E+03	-
93	MVKN	153	149.1	1.70E+04	9.20E+03	-
94	MVKPC	154	118.1	1.40E+06	7.20E+03	-
95	NH3	157	17.0	3.30E+06	4.10E+03	-
96	NH4	158	18.1	-	-	-
97	NIT	159	62.0	-	-	-
98	NITs	160	31.4	-	-	-
99	OCPI	167	12.0	-	-	-
100	OCPO	168	12.0	-	-	-
101	PAN	171	121.1	2.94E+00	5.70E+03	-
102	pFe	172	55.9	-	-	-
103	PP	174	92.1	2.94E+02	5.20E+03	-
104	PPN	175	135.1	2.94E+00	0.00E+00	-
105	PROPNN	176	119.1	1.00E+03	0.00E+00	-
106	PRPE	177	42.1	7.40E-03	3.40E+03	-
107	PRPN	178	137.1	2.94E+02	5.20E+03	-
108	PYAC	179	88.1	3.14E+05	5.10E+03	-
109	R4N2	180	119.1	1.00E+00	5.80E+03	-
110	R4P	181	90.1	2.94E+02	5.20E+03	-
111	RA3P	182	76.1	2.94E+02	5.20E+03	-
112	RB3P	183	76.1	2.94E+02	5.20E+03	-
113	RIPA	185	118.2	1.70E+06	0.00E+00	-
114	RIPB	186	118.2	1.70E+06	0.00E+00	-
115	RIPC	187	118.2	1.70E+06	0.00E+00	-
116	RIPD	188	118.2	1.70E+06	0.00E+00	-
117	RP	189	90.1	2.94E+02	5.20E+03	-
118	SALA	190	31.4	-	-	-
119	SALAAL	191	31.4	-	-	-
120	SALACL	192	35.5	-	-	-
121	SALC	193	31.4	-	-	-
122	SALCAL	194	31.4	-	-	-
123	SALCCL	195	35.5	-	-	-
124	S02	196	64.0	-	-	-
125	S04	197	96.1	-	-	-
126	S04s	198	31.4	-	-	-
127	SOAGX	199	58.0	-	-	-
128	SOAIE	200	118.2	-	-	-
129	SOAS	202	150.0	-	-	-

Registered variables contained within grid_registry_mod.F90:

```

=====
=====
GRID_LONE          | Longitude edges   | x      |
degrees_east
GRID_LON           | Longitude         | x      |
degrees_east
GRID_LATE          | Latitude edges    | y      |
degrees_north
GRID_LAT           | Latitude          | y      |
degrees_north
GRID_ILEV          | hybrid level at  | z      | level
GRID_HYBI          | hybrid B coeffic | z      | 1
GRID_HYAI          | hybrid A coeffic | z      | hPa
GRID_LEV           | hybrid level at  | z      | level
GRID_HYBM          | hybrid B coeffic | z      | 1
GRID_HYAM          | hybrid A coeffic | z      | hPa
GRID_TIME          | Time             | t      |
minutes since YYYY-MM-DD hh:mm:ss
GRID_P0            | reference pressure | -      | hPa
GRID_AREA          | Surface area      | xy     | m2

```

LINOZ (LINOZ_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/
Linoz_200910/Linoz_March2007.dat

11 linoz chem tables - 40d int., w/ rxn175, +CH4,N20,CFC11,CFC12
LLM climato

```

l
  Linoz Data: 03 climatology :                z*=10, 12, ..., 58
2.700E-08 1.083E-05
  Linoz Data: Temperature climatology :        z*=10, 12, ..., 58
1.859E+02 2.904E+02
  Linoz Data: Column 03 above box climalology : z*=10, 12, ..., 58
7.538E-02 3.770E+02
  Linoz Data: P-L 03 climatology (mr/s):        z*=10, 12, ..., 58
-1.590E-10 2.835E-11
  Linoz Data: d(P-L)/d03 (1/s) :                z*=10, 12, ..., 58
-8.386E-04 7.556E-09
  Linoz Data: d(P-L)/dT (mr/K) :                z*=10, 12, ..., 58
-5.742E-12 4.615E-14
  Linoz Data: d(P-L)/d(column 03) (mr/DU) :    z*=10, 12, ..., 58
-1.921E-12 5.038E-10
$$ Finished Reading Linoz Data $$

```

HISTORY (INIT): Opening ./HISTORY.rc

```

=====
=====
DEFINED DIAGNOSTIC COLLECTIONS:
=====
=====
Collection          Restart

```

```

-> FileName      ./GEOSChem.Restart.%y4%m2%d2_%h2%n2z.nc4
-> Format         CFIO
-> Frequency     End
-> Duration      End
-> Mode          instantaneous
Collection      Metrics
-> FileName      OutputDir/GEOSChem.Metrics.%y4%m2%d2_%h2%n2z.nc4
-> Format         CFIO
-> Frequency     End
-> Duration      End
-> Mode          time-averaged
Collection      SpeciesConc
-> FileName      OutputDir/GEOSChem.SpeciesConc.
%y4%m2%d2_%h2%n2z.nc4
-> Format         CFIO
-> Frequency     End
-> Duration      End
-> Mode          time-averaged
Collection      BoundaryConditions
-> FileName      OutputDir/GEOSChem.BoundaryConditions.
%y4%m2%d2_%h2%n2z.nc4
-> Format         CFIO
-> Frequency     00000000030000
-> Duration      00000001000000
-> Mode          instantaneous

```

```

=====
=====

```

```

%%%%%%%%%%
%%%%%%%%%%
%%%%%%%%%%
          HEMCO: Harmonized Emissions Component
%%%%%%%%%%
          You are using HEMCO version 3.0.0
%%%%%%%%%%
%%%%%%%%%%

```

Reading settings & switches of HEMCO configuration file:
HEMCO_Config.rc

Reading fields of HEMCO configuration file: HEMCO_Config.rc
HEMCO (PARANOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/PARANOX/
v2015-02/ship_plume_lut_02ms.nc
HEMCO (PARANOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/PARANOX/
v2015-02/ship_plume_lut_06ms.nc
HEMCO (PARANOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/PARANOX/
v2015-02/ship_plume_lut_10ms.nc
HEMCO (PARANOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/PARANOX/
v2015-02/ship_plume_lut_14ms.nc
HEMCO (PARANOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/PARANOX/

v2015-02/ship_plume_lut_18ms.nc
HEMCO (LIGHTNOX): Opening /net/seurat/data/ctm/ExtData/HEMCO/LIGHTNOX/
v2014-07/light_dist.ott2010.dat
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/XIA0/v2014-09/
C3H8_C2H6_ngas.geos.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/BIOFUEL/v2019-08/
biofuel.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/BROMINE/v2015-02/
Bromocarb_Liang2010.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/ACET/v2014-07/
ACET_seawater.generic.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/MOH/v2019-12/
MOH_seawater.low.kgCm3.generic.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/MEGAN/v2018-05/
MEGAN2.1_EF.geos.025x03125.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/MEGAN/v2018-05/
CLM4_PFT.geos.025x03125.v201805.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/TIMEZONES/v2015-02/
timezones_voronoi_1x1.nc
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2015/01/MERRA2.20150101.CN.05x0625.NA.nc4
HEMCO: Opening ./GEOSChem.Restart.20190722_0000z.nc4
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OLSON_MAP/v2019-02/
Olson_2001_Land_Type_Masks.025x025.generic.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/SfcFix/v2019-12/
surface_VMR_OCS.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/SfcFix/v2019-12/
surface_VMR_H2.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OCEAN_03_DRYDEP/
v2020-02/WOA_2013_salinity.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/AnnualScalar/
v2014-07/AnnualScalar.geos.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/EDGARv42/v2015-02/
NO/EDGAR_hourly_N0xScal.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/MASKS/v2018-09/
China_mask.generic.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/MASKS/v2019-05/
India_mask.generic.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/AnnualScalar/
v2014-07/AnnualScalar.geos.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
NO-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
CO-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
SO2-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
NH3-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
BC-em-total-anthro_CEDS_2017.nc

HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
OC-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
EOH-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_butanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_pentanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_hexanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
PRPE-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
BENZ-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
TOLU-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
XYLE-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
CH20-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALD2-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
MEK-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
HC00H-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/NH3/v2019-08/
NH3_geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/NH3/v2018-04/
NH3_Arctic_seabirds.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/C2H6_2010/v2019-06/
C2H6_global_anth_biof.201007.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/IODINE/v2020-02/
CH3I_monthly_emissions_Ordenez_2012_COARDS.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/IODINE/v2020-02/
CH2I2_monthly_emissions_Ordenez_2012_COARDS.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/IODINE/v2020-02/
CH2ICl_monthly_emissions_Ordenez_2012_COARDS.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/IODINE/v2020-02/
CH2IBr_monthly_emissions_Ordenez_2012_COARDS.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
CO-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
SO2-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
NH3-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
BC-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
OC-em-total-anthro_CEDS_2017.nc

HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
EOH-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
C2H6-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
C3H8-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_butanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_pentanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALK4_hexanes-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
PRPE-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
BENZ-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
TOLU-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
XYLE-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
CH20-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
ALD2-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
MEK-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
HC00H-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CEDS/v2020-08/2017/
NO-em-total-anthro_CEDS_2017.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/AEIC/v2015-01/
AEIC.47L.gen.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/ALD2/v2017-03/
resp.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/AFCID/v2018-04/
PM25FINE_ECLIPSE_2015.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/DMS/v2015-07/
DMS_lana.geos.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/ALD2/v2017-03/
ALD2_seawater.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/RON02/v2019-05/
RON02_seawater.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GFED4/v2020-02/2019/
GFED4_gen.025x025.201907.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/UVALBED0/v2019-06/
uvalbedo.geos.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/STRAT/v2015-01/Bry/
GEOSCCM_Bry.200707.day.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/STRAT/v2015-01/Bry/
GEOSCCM_Bry.200707.night.nc

HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.OH.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ACET.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ACTA.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ALD2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ALK4.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.C2H6.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.C3H8.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CCl4.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CF2Cl2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CF2ClBr.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CFC113.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CFC114.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CFC115.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CFCl3.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CH20.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CH3CCl3.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CH3Cl.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CH4.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.CO.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.Cl.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.Cl2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.Cl2O2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ClO.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.EOH.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ETP.geos5.2x25.nc

HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.GLYC.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.GLYX.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.H2402.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.H20.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.H202.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HAC.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HCFC141b.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HCFC142b.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HCFC22.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HC00H.geos5.2x25.20170108.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HCl.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HN02.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HN03.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HN04.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.HOCl.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.ISOP.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MACR.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MAP.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MEK.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MGLY.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MOH.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MP.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.MVK.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.N20.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.N205.geos5.2x25.nc

HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.NO.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.NO2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.NO3.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.O3.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.OCl0.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.PAN.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.PP.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.PPN.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.PRPE.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.PRPN.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.R4N2.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.R4P.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RA3P.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RB3P.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RCH0.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RIPA.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RIPB.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RIPD.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GMI/v2015-02/
gmi.clim.RP.geos5.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/NOAA_GMD/v2018-01/
monthly.gridded.surface.methane.1979-2020.1x1.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/CMIP6/
v2020-03/2x2.5/CMIP6_GHG_surface_VMR_2014.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/SfcFix/v2019-12/
WMO_2018/2x2.5/surface_VMRs_WMO2018_2019.2x25.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OCEAN_03_DRYDEP/
v2020-02/
Oi_prj_predicted_iodide_0.125x0.125_No_Skagerrak_Just_Ensemble.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/BROMINE/v2015-02/
BromoCarb_Season.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_DUST/

```

v2019-01/0.5x0.625/2016/07/dust_emissions_05.20160722.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_BIOVOC/
v2019-10/0.5x0.625/2016/07/biovoc_05.20160722.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_SEASALT/
v2019-01/0.5x0.625/2016/07/seasalt_05.20160722.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_SOILNOX/
v2019-01/0.5x0.625/2016/07/soilnox_05.20160722.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/GFED4/v2020-02/2019/
GFED4_dailyfrac_gen.025x025.201907.nc
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.A1.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.A3cld.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.A3dyn.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.A3mstC.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.A3mstE.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190722.I3.05x0625.NA.nc4
HEMCO: Opening /net/seurat/archives/data/ctm/GEOS_0.5x0.625_NA/
MERRA2/2019/07/MERRA2.20190723.I3.05x0625.NA.nc4
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/Yuan_XLAI/v2019-03/
Yuan_proc_MODIS_XLAI.025x025.2016.nc
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_LIGHTNING/
v2020-03/MERRA2/2019/FLASH_CTH_MERRA2_0.5x0.625_2019_07.nc4
HEMCO: Opening ./GEOSChem.Restart.20190722_0000z.nc4
  - Found all CN      met fields for 2011/01/01 00:00
  - Found all A1      met fields for 2019/07/22 00:30
  - Found all A3cld   met fields for 2019/07/22 01:30
  - Found all A3dyn   met fields for 2019/07/22 01:30
  - Found all A3mstC  met fields for 2019/07/22 01:30
  - Found all A3mstE  met fields for 2019/07/22 01:30
  - Found all I3      met fields for 2019/07/22 00:00
TMPU1   not found in restart, keep as value at t=0
SPHU1   not found in restart, keep as value at t=0
PS1_WET not found in restart, keep as value at t=0
PS1_DRY not found in restart, keep as value at t=0
DELP_DRY not found in restart, set to zero
  - Found all I3      met fields for 2019/07/22 03:00

```

```

=====
=====
R E S T A R T   F I L E   I N P U T

```

```

Min and Max of each species in restart file [mol/mol]:
Species  1,      ACET: Min = 1.255693505E-17  Max = 3.510473912E-09
Species  2,      ACTA: Min = 1.502560141E-19  Max = 6.061954827E-10
Species  3,      AERI: Min = 6.185022405E-16  Max = 1.213838925E-11
Species  4,      ALD2: Min = 1.208394759E-18  Max = 1.515991221E-09

```

Species 5,	ALK4: Min = 0.000000000E+00	Max = 2.572213553E-09
Species 6,	AT00H: Min = 1.404033915E-20	Max = 4.298703615E-10
Species 7,	BCPI: Min = 5.567671907E-14	Max = 6.787703732E-10
Species 8,	BCP0: Min = 0.000000000E+00	Max = 5.822646254E-10
Species 9,	BENZ: Min = 4.700764027E-35	Max = 3.801266246E-10
Species 10,	Br: Min = 2.941030111E-33	Max = 2.352686622E-11
Species 11,	Br2: Min = 0.000000000E+00	Max = 1.446381383E-11
Species 12,	BrCl: Min = 3.265556224E-20	Max = 1.875155760E-11
Species 13,	BrNO2: Min = 2.898813304E-18	Max = 4.563878572E-13
Species 14,	BrNO3: Min = 9.329579360E-26	Max = 1.848452814E-11
Species 15,	Br0: Min = 2.355901901E-34	Max = 2.289387777E-11
Species 16,	BrSALA: Min = 7.345133113E-22	Max = 5.219602094E-12
Species 17,	BrSALC: Min = 4.736592092E-21	Max = 1.982384049E-11
Species 18,	C2H6: Min = 4.570039211E-37	Max = 2.086385065E-09
Species 19,	C3H8: Min = 0.000000000E+00	Max = 9.812350932E-10
Species 20,	CCl4: Min = 0.000000000E+00	Max = 7.717002037E-11
Species 21,	CFC11: Min = 1.368250052E-23	Max = 2.237300761E-10
Species 22,	CFC113: Min = 1.886568271E-19	Max = 6.931002300E-11
Species 23,	CFC114: Min = 7.949542175E-13	Max = 1.580000540E-11
Species 24,	CFC115: Min = 5.623395413E-12	Max = 8.520003279E-12
Species 25,	CFC12: Min = 1.667079967E-13	Max = 5.003902293E-10
Species 26,	CH2Br2: Min = 9.973565256E-39	Max = 1.646063169E-12
Species 27,	CH2Cl2: Min = 1.752665644E-18	Max = 6.555291726E-11
Species 28,	CH2I2: Min = 0.000000000E+00	Max = 6.766687362E-14
Species 29,	CH2IBr: Min = 0.000000000E+00	Max = 8.526235680E-14
Species 30,	CH2ICl: Min = 0.000000000E+00	Max = 3.221525694E-13
Species 31,	CH20: Min = 8.232442505E-12	Max = 5.030748707E-09
Species 32,	CH3Br: Min = 3.048654755E-30	Max = 7.409079426E-12
Species 33,	CH3CCl3: Min = 2.998097795E-37	Max = 1.383731671E-12
Species 34,	CH3Cl: Min = 7.779973904E-14	Max = 5.550228055E-10
Species 35,	CH3I: Min = 0.000000000E+00	Max = 7.687186825E-12
Species 36,	CH4: Min = 2.217536661E-07	Max = 1.971510528E-06
Species 37,	CHBr3: Min = 0.000000000E+00	Max = 4.129905185E-12
Species 38,	CHCl3: Min = 2.352080528E-16	Max = 1.212851781E-11
Species 39,	Cl: Min = 8.093793006E-26	Max = 9.261599820E-11
Species 40,	Cl2: Min = 1.026519768E-22	Max = 1.720914210E-11
Species 41,	Cl2O2: Min = 0.000000000E+00	Max = 6.274516930E-12
Species 42,	ClNO2: Min = 0.000000000E+00	Max = 1.375783927E-12
Species 43,	ClNO3: Min = 4.102674878E-21	Max = 1.159317531E-09
Species 44,	ClO: Min = 9.404613818E-33	Max = 4.553652178E-10
Species 45,	ClO0: Min = 7.833076018E-27	Max = 6.204309663E-15
Species 46,	CLOCK: Min = 1.358879883E+03	Max = 4.592430080E+09
Species 47,	CO: Min = 1.261911997E-08	Max = 2.057321069E-07
Species 48,	DMS: Min = 0.000000000E+00	Max = 3.384814096E-10
Species 49,	DST1: Min = 2.615036875E-33	Max = 2.004533783E-08
Species 50,	DST2: Min = 3.388248748E-36	Max = 4.083413785E-08
Species 51,	DST3: Min = 6.905057931E-39	Max = 5.110575430E-08
Species 52,	DST4: Min = 5.540734128E-42	Max = 1.452228116E-08
Species 53,	EOH: Min = 4.498680866E-24	Max = 6.746181391E-10
Species 54,	ETHLN: Min = 0.000000000E+00	Max = 1.330214411E-11

Species 55,	ETN03: Min = 1.184377462E-41	Max = 6.833099191E-12
Species 56,	ETP: Min = 1.460718728E-20	Max = 7.129600382E-11
Species 57,	GLYC: Min = 0.000000000E+00	Max = 7.461546936E-10
Species 58,	GLYX: Min = 0.000000000E+00	Max = 4.143145896E-11
Species 59,	H1211: Min = 1.932677576E-32	Max = 3.240000065E-12
Species 60,	H1301: Min = 2.910164993E-23	Max = 3.330000988E-12
Species 61,	H2402: Min = 0.000000000E+00	Max = 3.900000711E-13
Species 62,	H20: Min = 3.820333859E-06	Max = 3.196507320E-02
Species 63,	H202: Min = 1.084507050E-12	Max = 3.756893463E-09
Species 64,	HAC: Min = 2.150012234E-40	Max = 1.036477570E-09
Species 65,	HBr: Min = 2.591072492E-23	Max = 6.898595844E-12
Species 66,	HC5A: Min = 0.000000000E+00	Max = 3.156944844E-11
Species 67,	HCFC123: Min = 3.788928879E-40	Max = 3.502587743E-35
Species 68,	HCFC141b: Min = 1.713936607E-21	Max = 2.587000406E-11
Species 69,	HCFC142b: Min = 3.645063851E-12	Max = 2.270000160E-11
Species 70,	HCFC22: Min = 6.818245274E-11	Max = 2.490700146E-10
Species 71,	HCl: Min = 5.264816632E-14	Max = 3.214109867E-09
Species 72,	HCOOH: Min = 6.261766845E-25	Max = 9.064505813E-10
Species 73,	HI: Min = 7.187110230E-19	Max = 2.254338751E-13
Species 74,	HMHP: Min = 0.000000000E+00	Max = 2.488880491E-10
Species 75,	HMML: Min = 0.000000000E+00	Max = 7.297924071E-11
Species 76,	HN02: Min = 1.827436950E-15	Max = 1.167597095E-11
Species 77,	HN03: Min = 3.595322996E-17	Max = 7.496993248E-09
Species 78,	HN04: Min = 4.602991275E-19	Max = 2.519551234E-10
Species 79,	HOBr: Min = 1.237574858E-17	Max = 7.932702238E-12
Species 80,	HOCl: Min = 1.094144288E-16	Max = 1.402756522E-10
Species 81,	HOI: Min = 1.819507874E-15	Max = 1.321491614E-11
Species 82,	HONIT: Min = 1.846598606E-38	Max = 1.238381099E-11
Species 83,	HPALD1: Min = 0.000000000E+00	Max = 1.222755924E-11
Species 84,	HPALD2: Min = 0.000000000E+00	Max = 4.634657935E-11
Species 85,	HPALD3: Min = 0.000000000E+00	Max = 9.972573982E-12
Species 86,	HPALD4: Min = 0.000000000E+00	Max = 2.801390196E-11
Species 87,	HPETHNL: Min = 0.000000000E+00	Max = 3.469940654E-11
Species 88,	I: Min = 2.655615545E-22	Max = 1.867298633E-12
Species 89,	I2: Min = 2.396620172E-24	Max = 4.616090699E-14
Species 90,	I202: Min = 4.697738181E-25	Max = 1.836397076E-14
Species 91,	I203: Min = 3.399709667E-24	Max = 4.755458180E-13
Species 92,	I204: Min = 3.656783889E-28	Max = 4.158191125E-14
Species 93,	IBr: Min = 0.000000000E+00	Max = 2.184113621E-13
Species 94,	ICHE: Min = 0.000000000E+00	Max = 1.082077553E-10
Species 95,	ICl: Min = 1.006998562E-19	Max = 1.276766995E-12
Species 96,	ICN: Min = 0.000000000E+00	Max = 3.067552809E-11
Species 97,	ICPDH: Min = 0.000000000E+00	Max = 2.249720549E-11
Species 98,	IDC: Min = 0.000000000E+00	Max = 2.403111390E-11
Species 99,	IDCHP: Min = 0.000000000E+00	Max = 2.459456076E-11
Species 100,	IDHDP: Min = 0.000000000E+00	Max = 4.048314808E-11
Species 101,	IDHPE: Min = 0.000000000E+00	Max = 2.260939491E-10
Species 102,	IDN: Min = 0.000000000E+00	Max = 5.378910511E-11
Species 103,	IEPOXA: Min = 0.000000000E+00	Max = 7.030733773E-10
Species 104,	IEPOXB: Min = 0.000000000E+00	Max = 4.103184736E-10

Species 105,	IEPOXD: Min = 0.000000000E+00	Max = 4.177134680E-11
Species 106,	IHN1: Min = 0.000000000E+00	Max = 2.165637027E-12
Species 107,	IHN2: Min = 0.000000000E+00	Max = 3.004004337E-11
Species 108,	IHN3: Min = 0.000000000E+00	Max = 2.066520219E-11
Species 109,	IHN4: Min = 0.000000000E+00	Max = 1.865040457E-12
Species 110,	INDIOL: Min = 7.826457039E-14	Max = 1.397053584E-09
Species 111,	INO: Min = 7.248910056E-20	Max = 9.860053041E-15
Species 112,	INPB: Min = 0.000000000E+00	Max = 1.322589347E-11
Species 113,	INPD: Min = 0.000000000E+00	Max = 2.358598039E-11
Species 114,	IO: Min = 2.052122332E-20	Max = 4.539848966E-12
Species 115,	IONITA: Min = 0.000000000E+00	Max = 5.370584533E-11
Species 116,	IONO: Min = 8.785776615E-25	Max = 1.738675257E-13
Species 117,	IONO2: Min = 1.417169459E-18	Max = 7.415847450E-12
Species 118,	IPRNO3: Min = 2.552567339E-22	Max = 2.636931819E-11
Species 119,	ISALA: Min = 6.154828592E-17	Max = 2.525741118E-12
Species 120,	ISALC: Min = 8.400442404E-21	Max = 2.193523575E-12
Species 121,	ISOP: Min = 0.000000000E+00	Max = 2.487433814E-09
Species 122,	ITCN: Min = 0.000000000E+00	Max = 1.923454625E-11
Species 123,	ITHN: Min = 0.000000000E+00	Max = 2.723556276E-11
Species 124,	LIMO: Min = 0.000000000E+00	Max = 2.738701280E-11
Species 125,	LVOC: Min = 0.000000000E+00	Max = 5.558463845E-13
Species 126,	LVOCOA: Min = 2.157582440E-15	Max = 3.584287728E-11
Species 127,	MACR: Min = 0.000000000E+00	Max = 5.795773861E-10
Species 128,	MACR100H: Min = 0.000000000E+00	Max = 2.463384358E-11
Species 129,	MAP: Min = 1.845920487E-19	Max = 8.936739126E-10
Species 130,	MCRDH: Min = 0.000000000E+00	Max = 7.994759715E-11
Species 131,	MCRENOL: Min = 0.000000000E+00	Max = 1.160933329E-11
Species 132,	MCRHN: Min = 0.000000000E+00	Max = 3.325891429E-12
Species 133,	MCRHNB: Min = 0.000000000E+00	Max = 3.095529735E-11
Species 134,	MCRHP: Min = 0.000000000E+00	Max = 6.450738554E-11
Species 135,	MEK: Min = 3.382317466E-36	Max = 7.752095077E-10
Species 136,	MENO3: Min = 5.436015882E-14	Max = 1.672932973E-11
Species 137,	MGLY: Min = 7.387111242E-23	Max = 3.619314293E-10
Species 138,	MOH: Min = 2.418782202E-15	Max = 9.272731027E-09
Species 139,	MONITA: Min = 0.000000000E+00	Max = 6.180403845E-12
Species 140,	MONITS: Min = 0.000000000E+00	Max = 1.315441853E-11
Species 141,	MONITU: Min = 0.000000000E+00	Max = 2.592706865E-12
Species 142,	MP: Min = 1.367414211E-13	Max = 1.716724984E-09
Species 143,	MPAN: Min = 0.000000000E+00	Max = 3.140788671E-11
Species 144,	MPN: Min = 7.597563135E-16	Max = 1.914308989E-10
Species 145,	MSA: Min = 3.476410918E-14	Max = 1.006635261E-10
Species 146,	MTPA: Min = 0.000000000E+00	Max = 5.236698852E-10
Species 147,	MTPO: Min = 0.000000000E+00	Max = 4.541734350E-11
Species 148,	MVK: Min = 0.000000000E+00	Max = 1.347230105E-09
Species 149,	MVKDH: Min = 0.000000000E+00	Max = 3.991407760E-10
Species 150,	MVKHC: Min = 0.000000000E+00	Max = 1.214028184E-10
Species 151,	MVKHCB: Min = 0.000000000E+00	Max = 1.069401720E-10
Species 152,	MVKHP: Min = 0.000000000E+00	Max = 9.183339506E-11
Species 153,	MVKN: Min = 0.000000000E+00	Max = 1.413901114E-11
Species 154,	MVKPC: Min = 0.000000000E+00	Max = 3.151898187E-11

Species 155,	N20: Min = 3.627225742E-10	Max = 3.302701259E-07
Species 156,	N205: Min = 3.899798290E-36	Max = 8.326037082E-10
Species 157,	NH3: Min = 2.118548478E-24	Max = 4.665053677E-09
Species 158,	NH4: Min = 1.303038759E-13	Max = 1.483169143E-09
Species 159,	NIT: Min = 0.000000000E+00	Max = 8.693977760E-10
Species 160,	NITs: Min = 1.190431593E-31	Max = 6.565808452E-10
Species 161,	NO: Min = 2.406521259E-32	Max = 1.741156552E-08
Species 162,	NO2: Min = 1.413319683E-15	Max = 1.868368393E-08
Species 163,	NO3: Min = 1.549395078E-23	Max = 2.020509871E-10
Species 164,	NPRNO3: Min = 6.952157951E-23	Max = 7.682544705E-12
Species 165,	O3: Min = 9.908110776E-09	Max = 9.268842405E-06
Species 166,	OC10: Min = 6.946483959E-22	Max = 1.515983346E-11
Species 167,	OCPI: Min = 1.591813432E-13	Max = 1.399331317E-08
Species 168,	OCPO: Min = 0.000000000E+00	Max = 4.945616805E-09
Species 169,	OCS: Min = 1.185260552E-25	Max = 5.000000414E-10
Species 170,	OIO: Min = 6.493548754E-21	Max = 6.753139714E-13
Species 171,	PAN: Min = 2.424462756E-19	Max = 5.567891703E-10
Species 172,	pFe: Min = 1.828193065E-17	Max = 2.027572554E-12
Species 173,	PIP: Min = 0.000000000E+00	Max = 2.468931726E-10
Species 174,	PP: Min = 0.000000000E+00	Max = 7.062230661E-11
Species 175,	PPN: Min = 1.007607034E-16	Max = 7.286635184E-11
Species 176,	PROPNN: Min = 0.000000000E+00	Max = 1.073736725E-10
Species 177,	PRPE: Min = 0.000000000E+00	Max = 5.935450464E-10
Species 178,	PRPN: Min = 0.000000000E+00	Max = 3.485065155E-13
Species 179,	PYAC: Min = 0.000000000E+00	Max = 2.062930382E-11
Species 180,	R4N2: Min = 4.501177387E-37	Max = 2.345232689E-11
Species 181,	R4P: Min = 0.000000000E+00	Max = 8.075745628E-11
Species 182,	RA3P: Min = 4.613419729E-21	Max = 1.499041689E-11
Species 183,	RB3P: Min = 9.727281304E-21	Max = 3.312151595E-11
Species 184,	RCH0: Min = 1.605351743E-20	Max = 1.764952212E-10
Species 185,	RIPA: Min = 0.000000000E+00	Max = 4.129984132E-10
Species 186,	RIPB: Min = 0.000000000E+00	Max = 8.809308144E-11
Species 187,	RIPC: Min = 0.000000000E+00	Max = 1.385040780E-11
Species 188,	RIPD: Min = 0.000000000E+00	Max = 6.340464612E-12
Species 189,	RP: Min = 1.564114689E-20	Max = 4.501587297E-11
Species 190,	SALA: Min = 2.623104066E-27	Max = 2.228536911E-09
Species 191,	SALAAAL: Min = 0.000000000E+00	Max = 4.802169079E-11
Species 192,	SALACL: Min = 6.241658534E-26	Max = 1.977540215E-10
Species 193,	SALC: Min = 3.383590751E-35	Max = 5.162777583E-08
Species 194,	SALCAL: Min = 0.000000000E+00	Max = 2.904675611E-09
Species 195,	SALCCL: Min = 8.383041724E-31	Max = 2.488895312E-08
Species 196,	S02: Min = 1.310122501E-20	Max = 1.603919775E-09
Species 197,	S04: Min = 5.042364096E-13	Max = 7.617332876E-10
Species 198,	S04s: Min = 0.000000000E+00	Max = 1.919908330E-11
Species 199,	SOAGX: Min = 3.835139027E-15	Max = 7.360222154E-11
Species 200,	SOAIE: Min = 3.813253559E-14	Max = 4.217484972E-10
Species 201,	SOAP: Min = 0.000000000E+00	Max = 5.021085214E-10
Species 202,	SOAS: Min = 3.261995979E-13	Max = 7.931211243E-10
Species 203,	TOLU: Min = 0.000000000E+00	Max = 1.618696566E-10
Species 204,	XYLE: Min = 0.000000000E+00	Max = 8.710804300E-11

Species 205,	C02:	Min = 0.000000000E+00	Max = 2.220577194E-10
Species 206,	LBR02H:	Min = 0.000000000E+00	Max = 3.276798863E-13
Species 207,	LBR02N:	Min = 0.000000000E+00	Max = 5.874537510E-13
Species 208,	LISOP0H:	Min = 0.000000000E+00	Max = 1.485382650E-10
Species 209,	LISOPN03:	Min = 0.000000000E+00	Max = 1.021494347E-10
Species 210,	LNRO2H:	Min = 0.000000000E+00	Max = 0.000000000E+00
Species 211,	LNRO2N:	Min = 0.000000000E+00	Max = 0.000000000E+00
Species 212,	NR02:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 213,	NAP:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 214,	LTR02H:	Min = 0.000000000E+00	Max = 2.813912569E-13
Species 215,	LTR02N:	Min = 0.000000000E+00	Max = 1.215863239E-12
Species 216,	LXR02H:	Min = 0.000000000E+00	Max = 5.349329920E-13
Species 217,	LXR02N:	Min = 0.000000000E+00	Max = 2.501681588E-12
Species 218,	S04H1:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 219,	S04H2:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 220,	S04H3:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 221,	S04H4:	Min = 0.000000000E+00	Max = 1.000000003E-30
Species 222,	P0x:	Min = 9.999999091E-31	Max = 3.362097800E-07
Species 223,	L0x:	Min = 9.999999091E-31	Max = 3.500334742E-07
Species 224,	PC0:	Min = 9.999999091E-31	Max = 2.363189922E-10
Species 225,	LC0:	Min = 9.999999091E-31	Max = 2.004651445E-10
Species 226,	PS04:	Min = 9.999999091E-31	Max = 1.726999078E-12
Species 227,	LCH4:	Min = 9.999999091E-31	Max = 1.353764739E-10
Species 228,	PH202:	Min = 9.999999091E-31	Max = 5.300713340E-11
Species 229,	BR02:	Min = 4.396520122E-38	Max = 6.043977845E-14
Species 230,	TR02:	Min = 0.000000000E+00	Max = 1.031262003E-13
Species 231,	N:	Min = 0.000000000E+00	Max = 9.830690813E-14
Species 232,	XR02:	Min = 0.000000000E+00	Max = 1.521913156E-13
Species 233,	HPALD100:	Min = 0.000000000E+00	Max = 1.521027567E-14
Species 234,	HPALD200:	Min = 0.000000000E+00	Max = 4.109668674E-14
Species 235,	INA:	Min = 0.000000000E+00	Max = 6.192546777E-20
Species 236,	C4HVP1:	Min = 0.000000000E+00	Max = 1.676979546E-15
Species 237,	C4HVP2:	Min = 0.000000000E+00	Max = 9.669790806E-15
Species 238,	IDN00:	Min = 0.000000000E+00	Max = 8.240865706E-15
Species 239,	ICN00:	Min = 0.000000000E+00	Max = 5.150183936E-14
Species 240,	ISOPN002:	Min = 0.000000000E+00	Max = 2.103554655E-14
Species 241,	ROH:	Min = 9.999999091E-31	Max = 3.179277328E-11
Species 242,	IDHND001:	Min = 0.000000000E+00	Max = 1.409270018E-15
Species 243,	IDHND002:	Min = 0.000000000E+00	Max = 4.031496088E-15
Species 244,	ISOPN001:	Min = 0.000000000E+00	Max = 3.411971362E-14
Species 245,	H:	Min = 9.999999091E-31	Max = 6.612271928E-12
Species 246,	IHP001:	Min = 0.000000000E+00	Max = 3.239146147E-14
Species 247,	IHP002:	Min = 0.000000000E+00	Max = 8.309183148E-15
Species 248,	IHPND00:	Min = 0.000000000E+00	Max = 2.295758798E-14
Species 249,	IHP003:	Min = 0.000000000E+00	Max = 4.896736770E-14
Species 250,	ICH00:	Min = 0.000000000E+00	Max = 3.985883787E-15
Species 251,	R4N1:	Min = 1.627033634E-40	Max = 9.346477483E-15
Species 252,	PRN1:	Min = 0.000000000E+00	Max = 2.450208141E-14
Species 253,	MVK0H00:	Min = 0.000000000E+00	Max = 1.403830719E-12
Species 254,	MCR0H00:	Min = 0.000000000E+00	Max = 1.300727934E-14

Species 255,	MACR100:	Min = 0.000000000E+00	Max = 1.795134001E-13
Species 256,	P02:	Min = 0.000000000E+00	Max = 2.127583699E-12
Species 257,	OLNN:	Min = 0.000000000E+00	Max = 6.741912259E-13
Species 258,	OLND:	Min = 0.000000000E+00	Max = 4.413078410E-12
Species 259,	ET02:	Min = 5.973511146E-40	Max = 9.869512976E-13
Species 260,	IHPNB00:	Min = 0.000000000E+00	Max = 2.770045495E-15
Species 261,	RC03:	Min = 9.999999091E-31	Max = 1.656766900E-13
Species 262,	LIM02:	Min = 0.000000000E+00	Max = 6.560447172E-13
Species 263,	K02:	Min = 1.556780937E-39	Max = 1.119860975E-11
Species 264,	IEPOXA00:	Min = 0.000000000E+00	Max = 2.673285787E-14
Species 265,	IEPOXB00:	Min = 0.000000000E+00	Max = 1.073535825E-14
Species 266,	CH3CH00:	Min = 0.000000000E+00	Max = 9.094056742E-17
Species 267,	PI02:	Min = 0.000000000E+00	Max = 2.983725897E-12
Species 268,	IDHNB00:	Min = 0.000000000E+00	Max = 1.551748313E-12
Species 269,	A302:	Min = 9.999999091E-31	Max = 7.059083813E-14
Species 270,	IN02B:	Min = 0.000000000E+00	Max = 4.915075725E-12
Species 271,	IN02D:	Min = 0.000000000E+00	Max = 4.676464077E-12
Species 272,	IH004:	Min = 0.000000000E+00	Max = 1.414608231E-12
Species 273,	IH001:	Min = 0.000000000E+00	Max = 4.848654898E-12
Species 274,	MACRNO2:	Min = 0.000000000E+00	Max = 1.564041890E-15
Species 275,	AT02:	Min = 9.999999091E-31	Max = 2.443059318E-13
Species 276,	OTHR02:	Min = 9.999999091E-31	Max = 6.800203846E-13
Species 277,	R402:	Min = 0.000000000E+00	Max = 8.941731904E-13
Species 278,	B302:	Min = 9.999999091E-31	Max = 2.683433174E-13
Species 279,	CH200:	Min = 0.000000000E+00	Max = 1.705137045E-17
Species 280,	MC03:	Min = 9.999999091E-31	Max = 2.542308378E-12
Species 281,	M02:	Min = 9.999999091E-31	Max = 3.024530626E-11
Species 282,	O1D:	Min = 0.000000000E+00	Max = 1.386407011E-14
Species 283,	H02:	Min = 9.999999091E-31	Max = 2.821375633E-10
Species 284,	OH:	Min = 9.999999091E-31	Max = 6.017512044E-10
Species 285,	O:	Min = 3.568448242E-37	Max = 1.113274806E-07
Species 286,	H2:	Min = 9.999999091E-31	Max = 5.000000556E-07
Species 287,	N2:	Min = 9.999999091E-31	Max = 7.808001041E-01
Species 288,	O2:	Min = 9.999999091E-31	Max = 2.095000297E-01
Species 289,	RC00H:	Min = 9.999999091E-31	Max = 1.000000049E-20
KPP_HVALUE	not found in restart, set to zero		
WETDEP_N	not found in restart, set to zero		
DRYDEP_N	not found in restart, set to zero		
H2O2_AFTERCHEM	not found in restart, set to zero		
SO2_AFTERCHEM	not found in restart, set to zero		
STATE_PSC	not found in restart, initialize PSC-free		

=====

Min and Max of each species in BC file [mol/mol]:

Species 1,	ACET:	Use background = 9.999999683E-21
Species 2,	ACTA:	Use background = 9.999999683E-21
Species 3,	AERI:	Use background = 9.999999683E-21
Species 4,	ALD2:	Use background = 9.999999683E-21
Species 5,	ALK4:	Use background = 9.999999683E-21
Species 6,	AT00H:	Use background = 9.999999683E-21

Species 7,	BCPI: Use background = 9.999999683E-21
Species 8,	BCP0: Use background = 9.999999683E-21
Species 9,	BENZ: Use background = 9.999999683E-21
Species 10,	Br: Use background = 9.999999683E-21
Species 11,	Br2: Use background = 9.999999683E-21
Species 12,	BrCl: Use background = 9.999999683E-21
Species 13,	BrNO2: Use background = 9.999999683E-21
Species 14,	BrNO3: Use background = 9.999999683E-21
Species 15,	BrO: Use background = 9.999999683E-21
Species 16,	BrSALA: Use background = 9.999999683E-21
Species 17,	BrSALC: Use background = 9.999999683E-21
Species 18,	C2H6: Use background = 9.999999683E-21
Species 19,	C3H8: Use background = 9.999999683E-21
Species 20,	CCl4: Use background = 9.999999683E-21
Species 21,	CFC11: Use background = 9.999999683E-21
Species 22,	CFC113: Use background = 9.999999683E-21
Species 23,	CFC114: Use background = 9.999999683E-21
Species 24,	CFC115: Use background = 9.999999683E-21
Species 25,	CFC12: Use background = 9.999999683E-21
Species 26,	CH2Br2: Use background = 9.999999683E-21
Species 27,	CH2Cl2: Use background = 9.999999683E-21
Species 28,	CH2I2: Use background = 9.999999683E-21
Species 29,	CH2IBr: Use background = 9.999999683E-21
Species 30,	CH2ICl: Use background = 9.999999683E-21
Species 31,	CH2O: Use background = 4.000000015E-15
Species 32,	CH3Br: Use background = 9.999999683E-21
Species 33,	CH3CCl3: Use background = 9.999999683E-21
Species 34,	CH3Cl: Use background = 9.999999683E-21
Species 35,	CH3I: Use background = 9.999999683E-21
Species 36,	CH4: Use background = 1.799999950E-06
Species 37,	CHBr3: Use background = 9.999999683E-21
Species 38,	CHCl3: Use background = 9.999999683E-21
Species 39,	Cl: Use background = 9.999999683E-21
Species 40,	Cl2: Use background = 9.999999683E-21
Species 41,	Cl2O2: Use background = 9.999999683E-21
Species 42,	ClNO2: Use background = 9.999999683E-21
Species 43,	ClNO3: Use background = 9.999999683E-21
Species 44,	ClO: Use background = 9.999999683E-21
Species 45,	ClO0: Use background = 9.999999683E-21
Species 46,	CLOCK: Use background = 0.000000000E+00
Species 47,	CO: Use background = 1.000000012E-07
Species 48,	DMS: Use background = 9.999999683E-21
Species 49,	DST1: Use background = 9.999999683E-21
Species 50,	DST2: Use background = 9.999999683E-21
Species 51,	DST3: Use background = 9.999999683E-21
Species 52,	DST4: Use background = 9.999999683E-21
Species 53,	EOH: Use background = 9.999999683E-21
Species 54,	ETHLN: Use background = 9.999999683E-21
Species 55,	ETNO3: Use background = 9.999999683E-21
Species 56,	ETP: Use background = 9.999999683E-21

Species 57, GLYC: Use background = 9.999999683E-21
Species 58, GLYX: Use background = 9.999999683E-21
Species 59, H1211: Use background = 9.999999683E-21
Species 60, H1301: Use background = 9.999999683E-21
Species 61, H2402: Use background = 9.999999683E-21
Species 62, H20: Use background = 1.838999987E-02
Species 63, H202: Use background = 4.000000015E-15
Species 64, HAC: Use background = 9.999999683E-21
Species 65, HBr: Use background = 9.999999683E-21
Species 66, HC5A: Use background = 9.999999683E-21
Species 67, HCFC123: Use background = 9.999999683E-21
Species 68, HCFC141b: Use background = 9.999999683E-21
Species 69, HCFC142b: Use background = 9.999999683E-21
Species 70, HCFC22: Use background = 9.999999683E-21
Species 71, HCl: Use background = 9.999999683E-21
Species 72, HCOOH: Use background = 9.999999683E-21
Species 73, HI: Use background = 9.999999683E-21
Species 74, HMHP: Use background = 9.999999683E-21
Species 75, HMML: Use background = 9.999999683E-21
Species 76, HN02: Use background = 4.000000015E-15
Species 77, HN03: Use background = 4.000000015E-15
Species 78, HN04: Use background = 4.000000015E-15
Species 79, HOBr: Use background = 9.999999683E-21
Species 80, HOCl: Use background = 9.999999683E-21
Species 81, HOI: Use background = 9.999999683E-21
Species 82, HONIT: Use background = 9.999999683E-21
Species 83, HPALD1: Use background = 9.999999683E-21
Species 84, HPALD2: Use background = 9.999999683E-21
Species 85, HPALD3: Use background = 9.999999683E-21
Species 86, HPALD4: Use background = 9.999999683E-21
Species 87, HPETHNL: Use background = 9.999999683E-21
Species 88, I: Use background = 9.999999683E-21
Species 89, I2: Use background = 9.999999683E-21
Species 90, I202: Use background = 9.999999683E-21
Species 91, I203: Use background = 9.999999683E-21
Species 92, I204: Use background = 9.999999683E-21
Species 93, IBr: Use background = 9.999999683E-21
Species 94, ICHE: Use background = 9.999999683E-21
Species 95, ICl: Use background = 9.999999683E-21
Species 96, ICN: Use background = 9.999999683E-21
Species 97, ICPDH: Use background = 9.999999683E-21
Species 98, IDC: Use background = 9.999999683E-21
Species 99, IDCHP: Use background = 9.999999683E-21
Species 100, IDHDP: Use background = 9.999999683E-21
Species 101, IDHPE: Use background = 9.999999683E-21
Species 102, IDN: Use background = 9.999999683E-21
Species 103, IEPOXA: Use background = 9.999999683E-21
Species 104, IEPOXB: Use background = 9.999999683E-21
Species 105, IEPOXD: Use background = 9.999999683E-21
Species 106, IHN1: Use background = 9.999999683E-21

Species 107, IHN2: Use background = 9.999999683E-21
Species 108, IHN3: Use background = 9.999999683E-21
Species 109, IHN4: Use background = 9.999999683E-21
Species 110, INDIOL: Use background = 9.999999683E-21
Species 111, INO: Use background = 9.999999683E-21
Species 112, INPB: Use background = 9.999999683E-21
Species 113, INPD: Use background = 9.999999683E-21
Species 114, IO: Use background = 9.999999683E-21
Species 115, IONITA: Use background = 9.999999683E-21
Species 116, IONO: Use background = 9.999999683E-21
Species 117, ION02: Use background = 9.999999683E-21
Species 118, IPRN03: Use background = 9.999999683E-21
Species 119, ISALA: Use background = 9.999999683E-21
Species 120, ISALC: Use background = 9.999999683E-21
Species 121, ISOP: Use background = 9.999999683E-21
Species 122, ITCN: Use background = 9.999999683E-21
Species 123, ITHN: Use background = 9.999999683E-21
Species 124, LIMO: Use background = 9.999999683E-21
Species 125, LVOC: Use background = 9.999999683E-21
Species 126, LVOC0A: Use background = 9.999999683E-21
Species 127, MACR: Use background = 9.999999683E-21
Species 128, MACR100H: Use background = 9.999999683E-21
Species 129, MAP: Use background = 9.999999683E-21
Species 130, MCRDH: Use background = 9.999999683E-21
Species 131, MCRENOL: Use background = 9.999999683E-21
Species 132, MCRHN: Use background = 9.999999683E-21
Species 133, MCRHNB: Use background = 9.999999683E-21
Species 134, MCRHP: Use background = 9.999999683E-21
Species 135, MEK: Use background = 9.999999683E-21
Species 136, MEN03: Use background = 9.999999683E-21
Species 137, MGLY: Use background = 9.999999683E-21
Species 138, MOH: Use background = 9.999999683E-21
Species 139, MONITA: Use background = 9.999999683E-21
Species 140, MONITS: Use background = 9.999999683E-21
Species 141, MONITU: Use background = 9.999999683E-21
Species 142, MP: Use background = 4.000000015E-15
Species 143, MPAN: Use background = 9.999999683E-21
Species 144, MPN: Use background = 9.999999683E-21
Species 145, MSA: Use background = 9.999999683E-21
Species 146, MTPA: Use background = 9.999999683E-21
Species 147, MTP0: Use background = 9.999999683E-21
Species 148, MVK: Use background = 9.999999683E-21
Species 149, MVKDH: Use background = 9.999999683E-21
Species 150, MVKHC: Use background = 9.999999683E-21
Species 151, MVKHCB: Use background = 9.999999683E-21
Species 152, MVKHP: Use background = 9.999999683E-21
Species 153, MVKN: Use background = 9.999999683E-21
Species 154, MVKPC: Use background = 9.999999683E-21
Species 155, N20: Use background = 3.000000106E-07
Species 156, N205: Use background = 4.000000015E-15

```

Species 157,      NH3: Use background = 9.999999683E-21
Species 158,      NH4: Use background = 9.999999683E-21
Species 159,      NIT: Use background = 9.999999683E-21
Species 160,      NITs: Use background = 9.999999683E-21
Species 161,      NO: Use background = 3.999999930E-13
Species 162,      NO2: Use background = 3.999999930E-13
Species 163,      NO3: Use background = 4.000000015E-15
Species 164,      NPRNO3: Use background = 9.999999683E-21
Species 165,      O3: Use background = 1.999999988E-08
Species 166,      OClO: Use background = 9.999999683E-21
Species 167,      OCPI: Use background = 9.999999683E-21
Species 168,      OCPO: Use background = 9.999999683E-21
Species 169,      OCS: Use background = 9.000000350E-15
Species 170,      OIO: Use background = 9.999999683E-21
Species 171,      PAN: Use background = 9.999999683E-21
Species 172,      pFe: Use background = 9.999999683E-21
Species 173,      PIP: Use background = 9.999999683E-21
Species 174,      PP: Use background = 9.999999683E-21
Species 175,      PPN: Use background = 9.999999683E-21
Species 176,      PROPNN: Use background = 9.999999683E-21
Species 177,      PRPE: Use background = 9.999999683E-21
Species 178,      PRPN: Use background = 9.999999683E-21
Species 179,      PYAC: Use background = 9.999999683E-21
Species 180,      R4N2: Use background = 9.999999683E-21
Species 181,      R4P: Use background = 9.999999683E-21
Species 182,      RA3P: Use background = 9.999999683E-21
Species 183,      RB3P: Use background = 9.999999683E-21
Species 184,      RCH0: Use background = 9.999999683E-21
Species 185,      RIPA: Use background = 9.999999683E-21
Species 186,      RIPB: Use background = 9.999999683E-21
Species 187,      RIPC: Use background = 9.999999683E-21
Species 188,      RIPD: Use background = 9.999999683E-21
Species 189,      RP: Use background = 9.999999683E-21
Species 190,      SALA: Use background = 9.999999683E-21
Species 191,      SALAAL: Use background = 9.999999683E-21
Species 192,      SALACL: Use background = 9.999999683E-21
Species 193,      SALC: Use background = 9.999999683E-21
Species 194,      SALCAL: Use background = 9.999999683E-21
Species 195,      SALCCL: Use background = 9.999999683E-21
Species 196,      SO2: Use background = 9.999999683E-21
Species 197,      SO4: Use background = 9.999999683E-21
Species 198,      SO4s: Use background = 9.999999683E-21
Species 199,      SOAGX: Use background = 9.999999683E-21
Species 200,      SOAIE: Use background = 9.999999683E-21
Species 201,      SOAP: Use background = 9.999999683E-21
Species 202,      SOAS: Use background = 9.999999683E-21
Species 203,      TOLU: Use background = 9.999999683E-21
Species 204,      XYLE: Use background = 9.999999683E-21
GET_BOUNDARY_CONDITIONS: Done applying BCs at 2019/07/22 00:00
Init_Vdiff: pbl height will be limited to bottom          25 model

```

levels.

Top is 427.475879955855 hpa

Initializing Fast-JX v7.0 standalone CTM code.

FAST-JX (RD_XXX): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/FJX_spec.dat

UCI FJX v6.8c JPL10+2013 fixes: Q1d, Acetone! others, derived
fort10-2013b.x

18

x-sect:	1	O2		3	180.00	260.00	300.00
x-sect:	2	O3		3	218.00	258.00	298.00
x-sect:	3	O3(1D)		3	200.00	260.00	320.00
x-sect:	4	NO	x	1	298.00		
x-sect:	5	H2SO4	x	1	298.00		
x-sect:	6	H2COa		2	223.00	298.00	
x-sect:	7	H2COb		2	223.00	298.00	
x-sect:	8	H2O2		2	200.00	300.00	
x-sect:	9	CH3OOH		1	298.00		
x-sect:	10	NO2		2	200.00	294.00	
x-sect:	11	NO3		2	190.00	298.00	
x-sect:	12	N2O5		2	233.00	300.00	
x-sect:	13	HN02		1	300.00		
x-sect:	14	HN03		2	200.00	300.00	
x-sect:	15	HN04		1	300.00		
x-sect:	16	ClNO3a		2	200.00	300.00	
x-sect:	17	ClNO3b		2	200.00	300.00	
x-sect:	18	ClNO2		2	210.00	296.00	
x-sect:	19	Br2		1	298.00		
x-sect:	20	BrNO2		1	298.00		
x-sect:	21	Cl2		2	200.00	300.00	
x-sect:	22	HOCl		1	300.00		
x-sect:	23	OClO		1	204.00		
x-sect:	24	ClOO		1	298.00		
x-sect:	25	Cl2O2		1	250.00		
x-sect:	26	ClO		1	300.00		
x-sect:	27	BrO		1	300.00		
x-sect:	28	BrNO3		2	200.00	300.00	
x-sect:	29	HOBr		1	300.00		
x-sect:	30	BrCl		2	200.00	300.00	
x-sect:	31	N2O	x	2	200.00	300.00	
x-sect:	32	CFCl3	x	2	220.00	298.00	
x-sect:	33	CF2Cl2	x	2	220.00	300.00	
x-sect:	34	F113	x	2	210.00	300.00	
x-sect:	35	F114	x	2	210.00	300.00	
x-sect:	36	F115	x	1	300.00		
x-sect:	37	CCl4	x	2	200.00	300.00	
x-sect:	38	CH3Cl	x	2	200.00	300.00	
x-sect:	39	MeCCl3	x	2	200.00	300.00	
x-sect:	40	CH2Cl2	x	2	200.00	300.00	
x-sect:	41	CHF2Cl	x	2	200.00	300.00	
x-sect:	42	F123	x	2	210.00	295.00	

x-sect: 43	F141b	x	2	200.00	300.00	
x-sect: 44	F142b	x	2	210.00	298.00	
x-sect: 45	CH3Br	x	2	200.00	300.00	
x-sect: 46	H1211	x	2	200.00	300.00	
x-sect: 47	H1301	x	2	200.00	300.00	
x-sect: 48	H2402	x	2	200.00	300.00	
x-sect: 49	CH2Br2		2	200.00	300.00	
x-sect: 50	CHBr3		2	260.00	296.00	
x-sect: 51	CF3I		2	243.00	300.00	
x-sect: 52	OCS		2	200.00	300.00	
x-sect: 53	HAC		1	298.00		
x-sect: 54	PAN		2	250.00	298.00	
x-sect: 55	CH3NO3		2	200.00	300.00	
x-sect: 56	ActAld	p	3	177.00	566.00	999.00
x-sect: 57	MeVK	p	3	177.00	566.00	999.00
x-sect: 58	MeAcr		1	298.00		
x-sect: 59	GlyAld		1	298.00		
x-sect: 60	MEKeto	p	2	177.00	999.00	
x-sect: 61	PrAld		1	298.00		
x-sect: 62	MGlyxl	p	3	177.00	566.00	999.00
x-sect: 63	Glyxla	p	2	177.00	999.00	
x-sect: 64	Glyxlb	p	2	177.00	999.00	
x-sect: 65	Glyxlc	p	2	177.00	999.00	
x-sect: 66	Acet-a	p	3	177.00	566.00	999.00
x-sect: 67	Acet-b		3	235.00	260.00	298.00
x-sect: 68	ONIT1		1	298.00		
x-sect: 69	MPN		1	298.00		
x-sect: 70	ETHLN		1	298.00		
x-sect: 71	PROPNN		1	298.00		
x-sect: 72	MVKN		1	298.00		
x-sect: 73	MACRN		1	298.00		
x-sect: 74	NITP		1	298.00		
x-sect: 75	HPALD1		1	298.00		
x-sect: 76	HPALD2		1	298.00		
x-sect: 77	PrAldP		1	298.00		
x-sect: 78	ICN		1	298.00		
x-sect: 79	MACRNP		1	298.00		
x-sect: 80	MVKCN		1	298.00		
x-sect: 81	ENOL		1	298.00		
x-sect: 82	ONIT2		1	298.00		
x-sect: 83	HP2		1	298.00		
x-sect: 84	HMHP		1	298.00		
x-sect: 85	CH3I		2	210.00	298.00	
x-sect: 86	CH2I2		2	273.00	298.00	
x-sect: 87	CH2ICl		2	223.00	298.00	
x-sect: 88	CH2IBr		2	273.00	298.00	
x-sect: 89	I2		1	295.00		
x-sect: 90	HOI		1	298.00		
x-sect: 91	IO		1	298.00		
x-sect: 92	OIO		1	298.00		

x-sect: 93	INO	1	298.00	
x-sect: 94	IONO	1	298.00	
x-sect: 95	IONO2	1	298.00	
x-sect: 96	I202	1	298.00	
x-sect: 97	I203	1	298.00	
x-sect: 98	ICl	1	298.00	
x-sect: 99	IBr	1	298.00	
x-sect:100	MENO3	2	240.00	298.00
x-sect:101	ETNO3	2	240.00	298.00
x-sect:102	IPRNO3	2	240.00	298.00
x-sect:103	NPRNO3	1	298.00	

FAST-JX (RD_MIE): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/jv_spec_mie.dat

jv_spec_mie.dat: Aerosol optical properties at 5 wavelengths (clh,
01/30/10),

Aerosol optical: r-eff/rho/Q(@wavel): 200.0 300.0 400.0 600.0
999.0

RAYLE = Rayleigh phase

1 wavel=	200.0	300.0	400.0	600.0	999.0
1 Qext =	123.5000	123.5000	39.1000	7.7000	1.0000

ISOTR = isotropic

2 wavel=	200.0	300.0	400.0	600.0	999.0
2 Qext =	1.0000	1.0000	1.0000	1.0000	1.0000

ABSRB = fully absorbing 'soot', wavelength indep.

3 wavel=	200.0	300.0	400.0	600.0	999.0
3 Qext =	1.0000	1.0000	1.0000	1.0000	1.0000

S_Bkg = backgrnd stratospheric sulfate (n=1.46, log-norm: r=.09um/
sigma=.6)

4 wavel=	200.0	300.0	400.0	600.0	999.0
4 Qext =	2.7541	2.7541	2.4017	1.6454	0.7449

S_Vol = volcanic stratospheric sulfate (n=1.46, log-norm: r=.08um/
sigma=.8)

5 wavel=	200.0	300.0	400.0	600.0	999.0
5 Qext =	2.6437	2.6437	2.5603	2.2221	1.5319

W_H01 = water haze (H1/Deirm.) (n=1.335, gamma: r-mode=0.1um /
alpha=2)

6 wavel=	200.0	300.0	400.0	600.0	999.0
6 Qext =	2.8438	2.8438	2.3497	1.4037	0.5034

W_H04 = water haze (H1/Deirm.) (n=1.335, gamma: r-mode=0.4um /
alpha=2)

7 wavel=	200.0	300.0	400.0	600.0	999.0
7 Qext =	2.2995	2.2995	2.4743	2.6719	2.9565

W_C02 = water cloud (C1/Deirm.) (n=1.335, gamma: r-mode=2.0um /
alpha=6)

8 wavel=	200.0	300.0	400.0	600.0	999.0
8 Qext =	2.1410	2.1410	2.1778	2.2287	2.3071

W_C04 = water cloud (C1/Deirm.) (n=1.335, gamma: r-mode=4.0um /
alpha=6)

9 wavel=	200.0	300.0	400.0	600.0	999.0
9 Qext =	2.0835	2.0835	2.1064	2.1345	2.1922

W_C08 = water cloud (C1/Deirm.) (n=1.335, gamma: r-mode=8.0um / alpha=6)

10	wavel=	200.0	300.0	400.0	600.0	999.0
10	Qext =	2.0539	2.0539	2.0643	2.0883	2.1236

W_C13 = water cloud (C1/Deirm.) (n=1.335, gamma: r-mode=13.3um / alpha=6)

11	wavel=	200.0	300.0	400.0	600.0	999.0
11	Qext =	2.0440	2.0440	2.0529	2.0716	2.0978

W_L06 = water cloud (Lacis) (n=1.335, r-mode=5.5um / alpha=11/3)

12	wavel=	200.0	300.0	400.0	600.0	999.0
12	Qext =	2.0616	2.0616	2.0747	2.1005	2.1423

Ice-H = hexagonal ice cloud (Mishchenko)

13	wavel=	200.0	300.0	400.0	600.0	999.0
13	Qext =	2.0000	2.0000	2.0000	2.0000	2.0000

Ice-I = irregular ice cloud (Mishchenko)

14	wavel=	200.0	300.0	400.0	600.0	999.0
14	Qext =	2.0000	2.0000	2.0000	2.0000	2.0000

Mdust 0.15 = mineral dust (R.V.Martin)

15	wavel=	200.0	300.0	400.0	600.0	999.0
15	Qext =	4.0154	4.0154	3.0582	1.2133	0.2195

Mdust 0.25 = mineral dust (R.V.Martin)

16	wavel=	200.0	300.0	400.0	600.0	999.0
16	Qext =	2.6560	2.6560	3.9669	3.2556	1.1019

Mdust 0.4 = mineral dust (R.V.Martin)

17	wavel=	200.0	300.0	400.0	600.0	999.0
17	Qext =	2.6071	2.6071	2.1923	3.9815	2.9227

Mdust 0.8 = mineral dust (R.V.Martin)

18	wavel=	200.0	300.0	400.0	600.0	999.0
18	Qext =	2.3459	2.3459	2.3417	2.4688	3.3741

Mdust 1.5 = mineral dust (R.V.Martin)

19	wavel=	200.0	300.0	400.0	600.0	999.0
19	Qext =	2.1925	2.1925	2.2457	2.3919	2.6314

Mdust 2.5 = mineral dust (R.V.Martin)

20	wavel=	200.0	300.0	400.0	600.0	999.0
20	Qext =	2.1427	2.1427	2.1881	2.1559	2.3282

Mdust 4.0 = mineral dust (R.V.Martin)

21	wavel=	200.0	300.0	400.0	600.0	999.0
21	Qext =	2.1045	2.1045	2.1191	2.2094	2.3429

S00(dar) Trop sulphate, RH=00 (n@550=1.53-0.01i log-norm: r=.07um/ sigma=1.6)

22	wavel=	200.0	300.0	400.0	600.0	1000.0
22	Qext =	2.3328	2.3328	1.6118	0.7484	0.2108

S50(dar) Trop sulphate, RH=50 (n@550=1.44 0.00i log-norm: r=.09um/ sigma=1.6)

23	wavel=	200.0	300.0	400.0	600.0	1000.0
23	Qext =	2.4175	2.4175	1.7099	0.8352	0.2488

S70(dar) Trop sulphate, RH=70 (n@550=1.41 0.00i log-norm: r=.09um/ sigma=1.6)

24	wavel=	200.0	300.0	400.0	600.0	1000.0
24	Qext =	2.4852	2.4852	1.7947	0.8963	0.2751

S80(dar) Trop sulphate, RH=80 (n@550=1.40 0.00i log-norm: r=.10um/
sigma=1.6)
 25 wavel= 200.0 300.0 400.0 600.0 1000.0
 25 Qext = 2.5571 2.5571 1.8800 0.9653 0.3040

S90(dar) Trop sulphate, RH=90 (n@550=1.38 0.00i log-norm: r=.11um/
sigma=1.6)
 26 wavel= 200.0 300.0 400.0 600.0 1000.0
 26 Qext = 2.6967 2.6967 2.0587 1.1172 0.3730

S95(dar) Trop sulphate, RH=95 (n@550=1.36 0.00i log-norm: r=.13um/
sigma=1.6)
 27 wavel= 200.0 300.0 400.0 600.0 1000.0
 27 Qext = 2.8355 2.8355 2.2825 1.3212 0.4720

S99(dar) Trop sulphate, RH=99 (n@550=1.34 0.00i log-norm: r=.18um/
sigma=1.6)
 28 wavel= 200.0 300.0 400.0 600.0 1000.0
 28 Qext = 2.9980 2.9980 2.7329 1.8669 0.7986

BC00(rvm) Black C, RH=00 (n@550=1.75-.44i log-norm: r_g=.02um/
sigma=1.6)
 29 wavel= 200.0 300.0 400.0 600.0 1000.0
 29 Qext = 0.9543 0.9543 0.6229 0.3282 0.1694

BC50(rvm) Black C, RH=50 (n@550=1.75-.44i log-norm: r_g=.02um/
sigma=1.6)
 30 wavel= 200.0 300.0 400.0 600.0 1000.0
 30 Qext = 0.9543 0.9543 0.6229 0.3282 0.1694

BC70(rvm) Black C, RH=70 (n@550=1.75-.44i log-norm: r_g=.02um/
sigma=1.6)
 31 wavel= 200.0 300.0 400.0 600.0 1000.0
 31 Qext = 0.9543 0.9543 0.6229 0.3282 0.1694

BC80(rvm) Black C, RH=80 (n@550=1.57-.25i log-norm: r_g=.02um/
sigma=1.6)
 32 wavel= 200.0 300.0 400.0 600.0 1000.0
 32 Qext = 0.8137 0.8137 0.5268 0.2744 0.1397

BC90(rvm) Black C, RH=90 (n@550=1.48-.16i log-norm: r_g=.02um/
sigma=1.6)
 33 wavel= 200.0 300.0 400.0 600.0 1000.0
 33 Qext = 0.7281 0.7281 0.4607 0.2321 0.1137

BC95(rvm) Black C, RH=95 (n@550=1.45-.13i log-norm: r_g=.02um/
sigma=1.6)
 34 wavel= 200.0 300.0 400.0 600.0 1000.0
 34 Qext = 0.7045 0.7045 0.4397 0.2169 0.1034

BC99(rvm) Black C, RH=99 (n@550=1.39-.06i log-norm: r_g=.02um/
sigma=1.6)
 35 wavel= 200.0 300.0 400.0 600.0 1000.0
 35 Qext = 0.7031 0.7031 0.4181 0.1882 0.0776

OC00(rvm) Organic C, RH=00 (n@550=1.53-.006i log-norm: r_g=.07um/
sigma=1.6)
 36 wavel= 200.0 300.0 400.0 600.0 1000.0
 36 Qext = 2.4567 2.4567 1.7461 0.8395 0.2405

OC50(rvm) Organic C, RH=50 (n@550=1.46-.004i log-norm: r_g=.08um/
sigma=1.6)

37 wavel= 200.0 300.0 400.0 600.0 1000.0
 37 Qext = 2.3664 2.3664 1.6538 0.7904 0.2297
 OC70(rvm) Organic C, RH=70 (n@550=1.44-.003i log-norm: r_g=.08um/
 sigma=1.6)
 38 wavel= 200.0 300.0 400.0 600.0 1000.0
 38 Qext = 2.3617 2.3617 1.6499 0.7916 0.2319
 OC80(rvm) Organic C, RH=80 (n@550=1.43-.003i log-norm: r_g=.09um/
 sigma=1.6)
 39 wavel= 200.0 300.0 400.0 600.0 1000.0
 39 Qext = 2.3693 2.3693 1.6588 0.8003 0.2364
 OC90(rvm) Organic C, RH=90 (n@550=1.41-.002i log-norm: r_g=.09um/
 sigma=1.6)
 40 wavel= 200.0 300.0 400.0 600.0 1000.0
 40 Qext = 2.4065 2.4065 1.7001 0.8328 0.2506
 OC95(rvm) Organic C, RH=95 (n@550=1.39-.002i log-norm: r_g=.10um/
 sigma=1.6)
 41 wavel= 200.0 300.0 400.0 600.0 1000.0
 41 Qext = 2.4733 2.4733 1.7758 0.8901 0.2747
 OC99(rvm) Organic C, RH=99 (n@550=1.36-.001i log-norm: r_g=.12um/
 sigma=1.6)
 42 wavel= 200.0 300.0 400.0 600.0 1000.0
 42 Qext = 2.6732 2.6732 2.0282 1.0918 0.3631
 SSa00(rvm) Sea Salt (accum), RH=00 (n@550=1.50 log-norm: r=.09um/
 sigma=1.5)
 43 wavel= 200.0 300.0 400.0 600.0 1000.0
 43 Qext = 2.5412 2.5412 1.6772 0.7067 0.1570
 SSa50(rvm) Sea Salt (accum), RH=50 (n@550=1.37 log-norm: r=.14um/
 sigma=1.5)
 44 wavel= 200.0 300.0 400.0 600.0 1000.0
 44 Qext = 2.9302 2.9302 2.2339 1.1660 0.3550
 SSa70(rvm) Sea Salt (accum), RH=70 (n@550=1.36 log-norm: r=.15um/
 sigma=1.5)
 45 wavel= 200.0 300.0 400.0 600.0 1000.0
 45 Qext = 3.0398 3.0398 2.4455 1.3697 0.4508
 SSa80(rvm) Sea Salt (accum), RH=80 (n@550=1.35 log-norm: r=.17um/
 sigma=1.5)
 46 wavel= 200.0 300.0 400.0 600.0 1000.0
 46 Qext = 3.1035 3.1035 2.6193 1.5557 0.5476
 SSa90(rvm) Sea Salt (accum), RH=90 (n@550=1.34 log-norm: r=.20um/
 sigma=1.5)
 47 wavel= 200.0 300.0 400.0 600.0 1000.0
 47 Qext = 3.1322 3.1322 2.9072 1.9502 0.7818
 SSa95(rvm) Sea Salt (accum), RH=95 (n@550=1.34 log-norm: r=.25um/
 sigma=1.5)
 48 wavel= 200.0 300.0 400.0 600.0 1000.0
 48 Qext = 3.0158 3.0158 3.0937 2.4069 1.1240
 SSa99(rvm) Sea Salt (accum), RH=99 (n@550=1.33 log-norm: r=.41um/
 sigma=1.5)
 49 wavel= 200.0 300.0 400.0 600.0 1000.0
 49 Qext = 2.4962 2.4962 2.8177 3.0999 2.2905

SSc00(rvm) Sea Salt (coarse), RH=00 (n@550=1.50 log-norm: r=0.4um/
sigma=1.8)

50	wavel=	200.0	300.0	400.0	600.0	1000.0
50	Qext =	2.3435	2.3435	2.4489	2.6771	2.8998

SSc50(rvm) Sea Salt (coarse), RH=50 (n@550=1.37 log-norm: r=0.6um/
sigma=1.8)

51	wavel=	200.0	300.0	400.0	600.0	1000.0
51	Qext =	2.2492	2.2492	2.3182	2.4842	2.7678

SSc70(rvm) Sea Salt (coarse), RH=70 (n@550=1.36 log-norm: r=0.7um/
sigma=1.8)

52	wavel=	200.0	300.0	400.0	600.0	1000.0
52	Qext =	2.2293	2.2293	2.2898	2.4343	2.7189

SSc80(rvm) Sea Salt (coarse), RH=80 (n@550=1.35 log-norm: r=0.8um/
sigma=1.8)

53	wavel=	200.0	300.0	400.0	600.0	1000.0
53	Qext =	2.2140	2.2140	2.2684	2.3962	2.6723

SSc90(rvm) Sea Salt (coarse), RH=90 (n@550=1.34 log-norm: r=1.0um/
sigma=1.8)

54	wavel=	200.0	300.0	400.0	600.0	1000.0
54	Qext =	2.1887	2.1887	2.2336	2.3331	2.5766

SSc95(rvm) Sea Salt (coarse), RH=95 (n@550=1.34 log-norm: r=1.2um/
sigma=1.8)

55	wavel=	200.0	300.0	400.0	600.0	1000.0
55	Qext =	2.1641	2.1641	2.2020	2.2780	2.4698

SSc99(rvm) Sea Salt (coarse), RH=99 (n@550=1.33 log-norm: r=2.0um/
sigma=1.8)

56	wavel=	200.0	300.0	400.0	600.0	1000.0
56	Qext =	2.1146	2.1146	2.1402	2.1865	2.2787

FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/so4.dat

so4 RRTMG LUT interpolated from GADS (DAR 09/2013)

V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat

FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/soot.dat

soot RRTMG LUT interpolated from GADS (DAR 09/2013)

V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat

FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/org.dat

org RRTMG LUT interpolated from GADS (DAR 09/2013)

V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat

FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/ssa.dat

ssa RRTMG LUT interpolated from GADS (DAR 09/2013)

V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat

FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/ssc.dat

```

ssc RRTMG LUT interpolated from GADS (DAR 09/2013)
V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat
FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/h2so4.dat
h2so4 RRTMG LUT interpolated from GADS (DAR 09/2013)
V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat
FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/h2so4.dat
h2so4 RRTMG LUT interpolated from GADS (DAR 09/2013)
V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat
FAST-JX (RD_AOD): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/dust.dat
dust RRTMG LUT interpolated from GADS (DAR 09/2013)
V0.1 - contains Fast-J wavelengths but is the same as the original
jv_spec.dat
Optics read for all wavelengths successfully
N WAVELENGTHS:          1
WAVELENGTH REQUESTED:  550.000000000000
WAVELENGTH REQUIRED:    1
*****
Using Aerosol type:   3 ABSRB = fully absorbing 'soot', wavelength
indep.
Using Aerosol type:  10 W_C08 = water cloud (C1/Deirm.) (n=1.335,
gamma: r-mode=8.0um / alpha=6)
Using Aerosol type:  14 Ice-I = irregular ice cloud (Mishchenko)
Using Aerosol type:  15 Mdust 0.15 = mineral dust (R.V.Martin)
Using Aerosol type:  16 Mdust 0.25 = mineral dust (R.V.Martin)
Using Aerosol type:  17 Mdust 0.4 = mineral dust (R.V.Martin)
Using Aerosol type:  18 Mdust 0.8 = mineral dust (R.V.Martin)
Using Aerosol type:  19 Mdust 1.5 = mineral dust (R.V.Martin)
Using Aerosol type:  20 Mdust 2.5 = mineral dust (R.V.Martin)
Using Aerosol type:  21 Mdust 4.0 = mineral dust (R.V.Martin)
Using Aerosol type:  22 S00(dar) Trop sulphate, RH=00
(n@550=1.53-0.01i log-norm: r=.07um/sigma=1.6)
Using Aerosol type:  23 S50(dar) Trop sulphate, RH=50 (n@550=1.44
0.00i log-norm: r=.09um/sigma=1.6)
Using Aerosol type:  24 S70(dar) Trop sulphate, RH=70 (n@550=1.41
0.00i log-norm: r=.09um/sigma=1.6)
Using Aerosol type:  25 S80(dar) Trop sulphate, RH=80 (n@550=1.40
0.00i log-norm: r=.10um/sigma=1.6)
Using Aerosol type:  26 S90(dar) Trop sulphate, RH=90 (n@550=1.38
0.00i log-norm: r=.11um/sigma=1.6)
Using Aerosol type:  29 BC00(rvm) Black C, RH=00 (n@550=1.75-.44i log-
norm: r_g=.02um/sigma=1.6)
Using Aerosol type:  30 BC50(rvm) Black C, RH=50 (n@550=1.75-.44i log-
norm: r_g=.02um/sigma=1.6)
Using Aerosol type:  31 BC70(rvm) Black C, RH=70 (n@550=1.75-.44i log-

```


FAST-JX (RD_JS_JX): Opening /net/seurat/data/ctm/ExtData/CHEM_INPUTS/
FAST_JX/v2020-02/FJX_j2j.dat

<--J-value data from chemistry code: id#, reaction, factor/
fastJX/code(a6)

Photochemistry Scheme with 161 J-values

1	02	PHOTON	0	0		1.000	mapped
to FJX:	1	02					
2	03	PHOTON	02	0		1.000	mapped
to FJX:	2	03					
3	03	PHOTON	02	0(1D)		1.000	mapped
to FJX:	3	03(1D)					
4	H2O	PHOTON	OH	H		0.000	no
mapping onto fast-JX	H2O						
5	H02	PHOTON	OH	0		0.000	no
mapping onto fast-JX	H02						
6	N0	PHOTON	N	0		1.000	mapped
to FJX:	4	N0					
7	CH2O	PHOTON	H	H02	CO	1.000	mapped
to FJX:	6	H2COa					
8	CH2O	PHOTON	CO	H2		1.000	mapped
to FJX:	7	H2COb					
9	H2O2	PHOTON	OH	OH		1.000	mapped
to FJX:	8	H2O2					
10	MP	PHOTON	CH2O	H02	OH	1.000	mapped
to FJX:	9	CH3OOH					
11	N02	PHOTON	N0	0		1.000	mapped
to FJX:	10	N02					
12	N03	PHOTON	N02	0		0.886	mapped
to FJX:	11	N03					
13	N03	PHOTON	N0	02		0.114	mapped
to FJX:	11	N03					
14	N2O5	PHOTON	N02	N03		1.000	mapped
to FJX:	12	N2O5					
15	HN02	PHOTON	N0	OH		1.000	mapped
to FJX:	13	HN02					
16	HN03	PHOTON	N02	OH		1.000	mapped
to FJX:	14	HN03					
17	HN04	PHOTON	OH	N03		0.050	mapped
to FJX:	15	HN04					
18	HN04	PHOTON	N02	H02		0.950	mapped
to FJX:	15	HN04					
19	ClN03	PHOTON	Cl	N03		1.000	mapped
to FJX:	16	ClN03a					
20	ClN03	PHOTON	Cl0	N02		1.000	mapped
to FJX:	17	ClN03b					
21	ClN02	PHOTON	Cl	N02		1.000	mapped
to FJX:	18	ClN02					
22	Cl2	PHOTON	Cl	Cl		1.000	mapped
to FJX:	21	Cl2					
23	Br2	PHOTON	Br	Br		1.000	mapped

to FJX: 19 Br2						
24 HOCl	PHOTON	Cl	OH			1.000 mapped
to FJX: 22 HOCl						
25 OClO	PHOTON	ClO	O			1.000 mapped
to FJX: 23 OClO						
26 Cl2O2	PHOTON	Cl	Cl	02		1.000 mapped
to FJX: 25 Cl2O2						
27 ClO	PHOTON	Cl	O			1.000 mapped
to FJX: 26 ClO						
28 BrO	PHOTON	Br	O			1.000 mapped
to FJX: 27 BrO						
29 BrNO3	PHOTON	Br	N03			0.850 mapped
to FJX: 28 BrNO3						
30 BrNO3	PHOTON	BrO	N02			0.150 mapped
to FJX: 28 BrNO3						
31 BrNO2	PHOTON	Br	N02			1.000 mapped
to FJX: 20 BrNO2						
32 HOBr	PHOTON	Br	OH			1.000 mapped
to FJX: 29 HOBr						
33 BrCl	PHOTON	Br	Cl			1.000 mapped
to FJX: 30 BrCl						
34 OCS	PHOTON	S02	CO			1.000 mapped
to FJX: 52 OCS						
35 S02	PHOTON	S0	O			1.000 no
mapping onto fast-JX S02						
36 N2O	PHOTON	N2	O			1.000 mapped
to FJX: 31 N2O						
37 CFC11	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 32 CFC13						
38 CFC12	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 33 CF2Cl2						
39 CFC113	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 34 F113						
40 CFC114	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 35 F114						
41 CFC115	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 36 F115						
42 CCl4	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 37 CCl4						
43 CH3Cl	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 38 CH3Cl						
44 CH3CCl3	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 39 MeCCl3						
45 CH2Cl2	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 40 CH2Cl2						
46 HCFC22	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 41 CHF2Cl						
47 HCFC123	PHOTON	Cl	PRODUCTS			1.000 mapped
to FJX: 42 F123						
48 HCFC141b	PHOTON	Cl	PRODUCTS			1.000 mapped

to FJX: 43 F141b									
49 HCFC142b	PHOTON	Cl	PRODUCTS					1.000	mapped
to FJX: 44 F142b									
50 CH3Br	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 45 CH3Br									
51 H1211	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 46 H1211									
52 H1202	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 46 H1211									
53 H1301	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 47 H1301									
54 H2402	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 48 H2402									
55 CH2Br2	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 49 CH2Br2									
56 CHBr3	PHOTON	Br	PRODUCTS					1.000	mapped
to FJX: 50 CHBr3									
58 CF3I	PHOTON	I	PRODUCTS					1.000	mapped
to FJX: 51 CF3I									
59 PAN	PHOTON	CH3C(0)O2	N02					1.000	mapped
to FJX: 54 PAN									
60 R4N2	PHOTON	CH3O	N02					1.000	mapped
to FJX: 55 CH3N03									
61 ALD2	PHOTON	CH3	HCO					1.000	mapped
to FJX: 56 ActAld									
62 ALD2	PHOTON	CH4	CO					1.000	no
mapping onto fast-JX ActAlx									
63 MVK	PHOTON	PRPE	CO					0.600	mapped
to FJX: 57 MeVK									
64 MVK	PHOTON	MC03	CH2O	CO	H02			0.200	mapped
to FJX: 57 MeVK									
65 MVK	PHOTON	M02	RC03					0.200	mapped
to FJX: 57 MeVK									
66 MACR	PHOTON	CO	H02	CH2O	MC0			1.000	mapped
to FJX: 58 MeAcr									
67 MACR	PHOTON	IMA03	OH	H02	MC03	MR02	CO	0.000	mapped
to FJX: 58 MeAcr									
68 GLYC	PHOTON	CH2O	H02	OH	CO	MOH		1.000	mapped
to FJX: 59 GlyAld									
69 MEK	PHOTON	MC03	Et02		M02	RCO		1.000	mapped
to FJX: 60 MEKeto									
70 RCHO	PHOTON	Et02	H02		CO			1.000	mapped
to FJX: 61 PrAld									
71 MGLY	PHOTON	MC03	CO		H02			1.000	mapped
to FJX: 62 MGlyxl									
72 GLYX	PHOTON	H02	H02	CO	CO			1.000	mapped
to FJX: 63 Glyxla									
73 GLYX	PHOTON	H2	CO		CO			1.000	mapped
to FJX: 64 Glyxlb									
74 GLYX	PHOTON	CH2O	CO					1.000	mapped

to FJX: 65 Glyxlc									
75 HAC	PHOTON	MeC03	HCH0	H02		0.600	mapped		
to FJX: 53 HAC									
76 ACET	PHOTON	MC03	M02			1.000	mapped		
to FJX: 66 Acet-a									
77 ACET	PHOTON	M02	M02	CO		1.000	mapped		
to FJX: 67 Acet-b									
78 IDN	PHOTON	MVK MACR	CH20	N02	GLYC ICN...	1.000	mapped		
to FJX: 82 ONIT2									
79 PRPN	PHOTON	OH	H02	RCH0	N02	1.000	mapped		
to FJX: 9 CH300H									
80 ETP	PHOTON	OH	H02	ALD2		0.500	mapped		
to FJX: 9 CH300H									
81 RA3P	PHOTON	OH	H02	RCH0		1.000	mapped		
to FJX: 9 CH300H									
82 RB3P	PHOTON	OH	H02	ACET		1.000	mapped		
to FJX: 9 CH300H									
83 R4P	PHOTON	OH	H02	RCH0		1.000	mapped		
to FJX: 9 CH300H									
84 PP	PHOTON	OH	H02	ALD2	CH2	1.000	mapped		
to FJX: 9 CH300H									
85 RP	PHOTON	OH	H02	ALD2		1.000	mapped		
to FJX: 9 CH300H									
86 HMHP	PHOTON	OH OH	CH20			1.000	mapped		
to FJX: 84 HMHP									
87 HPETHNL	PHOTON	OH CO	H02 CH20			1.000	mapped		
to FJX: 77 PrAlDp									
88 PYAC	PHOTON	MC03	C02	H02		1.000	mapped		
to FJX: 62 MGlyxl									
89 PROPNN	PHOTON	N02	CH20	MC03		1.000	mapped		
to FJX: 71 PROPNN									
90 MVKHC	PHOTON	CO	H02	CH20	MC03	1.000	mapped		
to FJX: 62 MGlyxl									
91 MVKHCB	PHOTON	GLYX	H02	MC03	CO	MGLY	1.000	mapped	
to FJX: 61 PrAlD									
92 MVKHP	PHOTON	MC03	GLYC	OH	H02	CH20	MGLY	1.000	mapped
to FJX: 9 CH300H									
93 MVKPC	PHOTON	OH	CO	MGLY	H02	GLYX	MC03	1.000	mapped
to FJX: 77 PrAlDp									
94 MCRENOL	PHOTON	CO	PYAC	OH				1.000	mapped
to FJX: 81 ENOL									
95 MCRHP	PHOTON	OH	CO	H02	HAC	CH20	MGLY	1.000	mapped
to FJX: 77 PrAlDp									
96 MACR100H	PHOTON	OH	C02	M02	CH20	MC03	MACR100H	1.000	mapped
to FJX: 77 PrAlDp									
97 AT00H	PHOTON	OH	H02	RCH0				1.000	mapped
to FJX: 9 CH300H									
98 R4N2	PHOTON	N02	ACET	MEK	M02	H02	ALD2...	1.000	mapped
to FJX: 55 CH3N03									
99 MAP	PHOTON	OH		M02				1.000	mapped

to FJX: 9	CH300H								
100	S04	PHOTON	S02	OH	OH	1.000 mapped			
to FJX: 5	H2S04								
101	Cl00	PHOTON	Cl	02		1.000 mapped			
to FJX: 24	Cl00								
102	03	PHOTON	02	0(1D)		1.000 mapped			
to FJX: 3	03(1D)								
103	MPN	PHOTON	H02	N03	HCH0	0.050 mapped			
to FJX: 69	MPN								
104	MPN	PHOTON	M02	N02		0.950 mapped			
to FJX: 69	MPN								
105	PIP	PHOTON	RCH0	OH	H02	1.000 mapped			
to FJX: 8	H202								
106	ICN	PHOTON	N02	CO	OH	H02	IDC	MVKPC...	1.000 mapped
to FJX: 78	ICN								
107	ETHLN	PHOTON	N02	CH20	CO	H02			1.000 mapped
to FJX: 70	ETHLN								
108	MVKN	PHOTON	MC03	GLYC	N02	ETHLN	H02	OH	1.000 mapped
to FJX: 72	MVKN								
109	MCRHN	PHOTON	HAC	CO	H02	N02			1.000 mapped
to FJX: 73	MACRN								
110	MCRHNB	PHOTON	PROPNN	OH	CO	H02			1.000 mapped
to FJX: 79	MACRNP								
111	MONITS	PHOTON	MEK	N02					1.000 mapped
to FJX: 68	ONIT1								
112	MONITU	PHOTON	RCH0	N02					1.000 mapped
to FJX: 68	ONIT1								
113	HONIT	PHOTON	HAC	N02					1.000 mapped
to FJX: 68	ONIT1								
114	I2	PHOTON	I		I				1.000 mapped
to FJX: 89	I2								
115	HOI	PHOTON	I		OH				1.000 mapped
to FJX: 90	HOI								
116	I0	PHOTON	I		0				1.000 mapped
to FJX: 91	I0								
117	OIO	PHOTON	I		02				1.000 mapped
to FJX: 92	OIO								
118	INO	PHOTON	I		N0				1.000 mapped
to FJX: 93	INO								
119	ION0	PHOTON	I		N02				1.000 mapped
to FJX: 94	ION0								
120	ION02	PHOTON	I		N03				1.000 mapped
to FJX: 95	ION02								
121	I202	PHOTON	I		OIO				1.000 mapped
to FJX: 96	I202								
122	CH3I	PHOTON	I		PRODUCTS				1.000 mapped
to FJX: 85	CH3I								
123	CH2I2	PHOTON	I		I		PRODUCTS		1.000 mapped
to FJX: 86	CH2I2								
124	CH2ICl	PHOTON	I		Cl		PRODUCTS		1.000 mapped

to FJX: 87 CH2ICl									
125 CH2IBr	PHOTON	I	Br	PRODUCTS	1.000	mapped			
to FJX: 88 CH2IBr									
126 I204	PHOTON	OIO	OIO		1.000	mapped			
to FJX: 96 I202									
127 I203	PHOTON	OIO	IO		1.000	mapped			
to FJX: 97 I203									
128 IBr	PHOTON	I	Br		1.000	mapped			
to FJX: 99 IBr									
129 ICl	PHOTON	I	Cl		1.000	mapped			
to FJX: 98 ICl									
130 NITs	PHOTON	HN02			1.000	no			
mapping onto fast-JX									
131 NITs	PHOTON	N02			1.000	no			
mapping onto fast-JX									
132 NIT	PHOTON	HN02			1.000	no			
mapping onto fast-JX									
133 NIT	PHOTON	N02			1.000	no			
mapping onto fast-JX									
134 MEN03	PHOTON	N02	H02	HCHO	1.000	mapped			
to FJX: 100 MEN03									
135 ETN03	PHOTON	N02	H02	ALD2	1.000	mapped			
to FJX: 101 ETN03									
136 IPRN03	PHOTON	N02	H02	ACET	1.000	mapped			
to FJX: 102 IPRN03									
137 NPRN03	PHOTON	N02	H02	RCHO	1.000	mapped			
to FJX: 103 NPRN03									
138 RIPA	PHOTON	MVK	CH20	OH	H02	1.000	mapped		
to FJX: 9 CH300H									
139 RIPB	PHOTON	MACR	CH20	OH	H02	1.000	mapped		
to FJX: 9 CH300H									
140 RIPC	PHOTON	OH	H02	HC5A		1.000	mapped		
to FJX: 9 CH300H									
141 RIPD	PHOTON	OH	H02	HC5A		1.000	mapped		
to FJX: 9 CH300H									
142 HPALD1	PHOTON	C0	OH	H02	IDC	MVKPC	MCRENOL...	1.000	mapped
to FJX: 75 HPALD1									
143 HPALD2	PHOTON	C0	OH	H02	IDC	MVKPC	MCRENOL...	1.000	mapped
to FJX: 76 HPALD2									
144 HPALD3	PHOTON	C0	OH	H02	MVK			1.000	mapped
to FJX: 77 PrAldP									
145 HPALD4	PHOTON	C0	OH	H02	MACR			1.000	mapped
to FJX: 77 PrAldP									
146 IHN1	PHOTON	N02	HC5A	H02	MVKHP	C0	OH	1.000	mapped
to FJX: 68 ONIT1									
147 IHN2	PHOTON	N02	MVK	H02	CH20			1.000	mapped
to FJX: 68 ONIT1									
148 IHN3	PHOTON	N02	MACR	H02	CH20			1.000	mapped
to FJX: 68 ONIT1									
149 IHN4	PHOTON	N02	HC5A	H02	MCRHP	C0	OH	1.000	mapped

```

to FJX: 68 ONIT1
  150 INPB      PHOTON    N02 CH20 MVK MACR OH H02      1.000 mapped
to FJX: 74 NITP
  151 INPD      PHOTON    OH H02 ICN INA          1.000 mapped
to FJX: 9 CH300H
  152 INPD      PHOTON    N02 IH001 IH004      1.000 mapped
to FJX: 68 ONIT1
  153 ICPDH     PHOTON    CO H02 OH MCRHP MVKDH MCRDH  1.000 mapped
to FJX: 61 PrAlD
  154 ICPDH     PHOTON    OH H02 CH20 MVKHCB HAC GLYX... 1.000 mapped
to FJX: 9 CH300H
  155 IDHDP     PHOTON    OH GLYC HAC ICPDH H02      1.000 mapped
to FJX: 83 HP2
  156 IDHPE     PHOTON    OH H02 MGLY GLYC GLYX HAC  1.000 mapped
to FJX: 9 CH300H
  157 IDCHP     PHOTON    OH H02 CO MVKHC MVKHCB MVKPC  1.000 mapped
to FJX: 77 PrAlDP
  158 ITHN      PHOTON    OH H02 CH20 MCRHN GLYC HAC... 1.000 mapped
to FJX: 9 CH300H
  159 ITHN      PHOTON    N02 HAC H02 HPETHNL OH GLYC... 1.000 mapped
to FJX: 68 ONIT1
  160 ITCN      PHOTON    MGLY OH N02 GLYC          1.000 mapped
to FJX: 79 MACRNP
  161 ITCN      PHOTON    MVKHP MCRHP CO N02 H02      1.000 mapped
to FJX: 61 PrAlD

```

=====

Photo rxn flags saved for use in PHOTRATE_ADJ:

```

RXN_02   [ 02 + hv -> 0 + 0           ] = 1
RXN_03_1 [ 03 + hv -> 02 + 0          ] = 2
RXN_03_2a [ 03 + hv -> 02 + 0(1D) #1    ] = 3
RXN_03_2b [ 03 + hv -> 02 + 0(1D) #2    ] = 102
RXN_JNITSa [ NITS + hv -> HN02          ] = 130
RXN_JNITsb [ NITS + hv -> N02              ] = 131
RXN_JNITa  [ NIT + hv -> HN02          ] = 132
RXN_JNITb  [ NIT + hv -> N02              ] = 133
RXN_H2S04  [ S04 + hv -> S02 + OH + OH    ] = 100
RXN_N02    [ N02 + hv -> NO + 0         ] = 11

```

=====

```

02      :      1      136  1.0000
03      :      2      138  1.0000
03      :      3      137  1.0000
NO      :      6      111  1.0000
CH20    :      7       20  1.0000
CH20    :      8       20  1.0000
H202    :      9       41  1.0000
MP      :     10       98  1.0000
N02     :     11      112  1.0000

```

N03	:	12	113	0.8860
N03	:	13	113	0.1140
N205	:	14	108	1.0000
HN02	:	15	49	1.0000
HN03	:	16	50	1.0000
HN04	:	17	51	0.0500
HN04	:	18	51	0.9500
CLN03	:	19	30	1.0000
CLN03	:	20	30	1.0000
CLN02	:	21	29	1.0000
CL2	:	22	27	1.0000
Br2	:	23	4	1.0000
HOCl	:	24	53	1.0000
OCl0	:	25	116	1.0000
Cl202	:	26	28	1.0000
Cl0	:	27	31	1.0000
Br0	:	28	8	1.0000
BrN03	:	29	7	0.8500
BrN03	:	30	7	0.1500
BrN02	:	31	6	1.0000
HOBr	:	32	52	1.0000
BrCl	:	33	5	1.0000
OCS	:	34	117	1.0000
N20	:	36	107	1.0000
CFC11	:	37	10	1.0000
CFC12	:	38	14	1.0000
CFC113	:	39	11	1.0000
CFC114	:	40	12	1.0000
CFC115	:	41	13	1.0000
CCl4	:	42	9	1.0000
CH3Cl	:	43	23	1.0000
CH3CCl3	:	44	22	1.0000
CH2Cl2	:	45	16	1.0000
HCFC22	:	46	47	1.0000
HCFC123	:	47	44	1.0000
HCFC141b	:	48	45	1.0000
HCFC142b	:	49	46	1.0000
CH3Br	:	50	21	1.0000
H1211	:	51	38	1.0000
H1301	:	53	39	1.0000
H2402	:	54	40	1.0000
CH2Br2	:	55	15	1.0000
CHBr3	:	56	25	1.0000
PAN	:	59	119	1.0000
R4N2	:	60	125	1.0000
ALD2	:	61	2	1.0000
ALD2	:	62	2	1.0000
MVK	:	63	101	0.6000
MVK	:	64	101	0.2000
MVK	:	65	101	0.2000

MACR	:	66	86	1.0000
MACR	:	67	86	0.0000
GLYC	:	68	36	1.0000
MEK	:	69	93	1.0000
RCHO	:	70	129	1.0000
MGLY	:	71	95	1.0000
GLYX	:	72	37	1.0000
GLYX	:	73	37	1.0000
GLYX	:	74	37	1.0000
HAC	:	75	42	0.6000
ACET	:	76	1	1.0000
ACET	:	77	1	1.0000
IDN	:	78	72	1.0000
PRPN	:	79	123	1.0000
ETP	:	80	35	0.5000
RA3P	:	81	127	1.0000
RB3P	:	82	128	1.0000
R4P	:	83	126	1.0000
PP	:	84	121	1.0000
RP	:	85	134	1.0000
HMHP	:	86	48	1.0000
HPETHNL	:	87	60	1.0000
PYAC	:	88	124	1.0000
PROPNN	:	89	122	1.0000
MVKHC	:	90	102	1.0000
MVKHCB	:	91	103	1.0000
MVKHP	:	92	104	1.0000
MVKPC	:	93	106	1.0000
MCRENOL	:	94	89	1.0000
MCRHP	:	95	92	1.0000
MACR100H	:	96	87	1.0000
AT00H	:	97	3	1.0000
R4N2	:	98	125	1.0000
MAP	:	99	88	1.0000
S04	:	100	135	1.0000
C100	:	101	32	1.0000
MPN	:	103	100	0.0500
MPN	:	104	100	0.9500
PIP	:	105	120	1.0000
ICN	:	106	67	1.0000
ETHLN	:	107	33	1.0000
MVKN	:	108	105	1.0000
MCRHN	:	109	90	1.0000
MCRHNB	:	110	91	1.0000
MONITS	:	111	96	1.0000
MONITU	:	112	97	1.0000
HONIT	:	113	55	1.0000
I2	:	114	61	1.0000
HOI	:	115	54	1.0000
IO	:	116	80	1.0000

OIO	:	117	118	1.0000
INO	:	118	77	1.0000
ION0	:	119	81	1.0000
ION02	:	120	82	1.0000
I202	:	121	62	1.0000
CH3I	:	122	24	1.0000
CH2I2	:	123	17	1.0000
CH2ICl	:	124	19	1.0000
CH2IBr	:	125	18	1.0000
I204	:	126	64	1.0000
I203	:	127	63	1.0000
IBr	:	128	65	1.0000
ICl	:	129	66	1.0000
NITs	:	130	110	1.0000
NITs	:	131	110	1.0000
NIT	:	132	109	1.0000
NIT	:	133	109	1.0000
MEN03	:	134	94	1.0000
ETN03	:	135	34	1.0000
IPRN03	:	136	83	1.0000
NPRN03	:	137	114	1.0000
RIPA	:	138	130	1.0000
RIPB	:	139	131	1.0000
RIPC	:	140	132	1.0000
RIPD	:	141	133	1.0000
HPALD1	:	142	56	1.0000
HPALD2	:	143	57	1.0000
HPALD3	:	144	58	1.0000
HPALD4	:	145	59	1.0000
IHN1	:	146	73	1.0000
IHN2	:	147	74	1.0000
IHN3	:	148	75	1.0000
IHN4	:	149	76	1.0000
INPB	:	150	78	1.0000
INPD	:	151	79	1.0000
INPD	:	152	79	1.0000
ICPDH	:	153	68	1.0000
ICPDH	:	154	68	1.0000
IDHDP	:	155	70	1.0000
IDHPE	:	156	71	1.0000
IDCHP	:	157	69	1.0000
ITHN	:	158	85	1.0000
ITHN	:	159	85	1.0000
ITCN	:	160	84	1.0000
ITCN	:	161	84	1.0000

=====

U N I F I E D C H E M I S T R Y
Routines written by SEBASTIAN D. EASTHAM

=====

=====

UCX (SFCMR_READ): REQUIRED FILE NOT FOUND /net/seurat/data/ctm/
CHEM_INPUTS/UCX_201403/NoonTime/Grid2x25/InitCFC_
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_01.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_02.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_03.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/

NoonTime/Grid2x25/InitCFC_JN20_04.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_05.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_06.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_07.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_08.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/

NoonTime/Grid2x25/InitCFC_0_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_09.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_10.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_11.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_0_12.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_01D_12.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN0_12.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN02_12.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN03_12.dat
UCX (SFCMR_READ): Opening /net/seurat/data/ctm/CHEM_INPUTS/UCX_201403/
NoonTime/Grid2x25/InitCFC_JN20_12.dat
ACET (via GMI rates)
ACTA (via GMI rates)
ALD2 (via GMI rates)

ALK4 (via GMI rates)
C2H6 (via GMI rates)
C3H8 (via GMI rates)
CCL4 (via GMI rates)
CFC113 (via GMI rates)
CFC114 (via GMI rates)
CFC115 (via GMI rates)
CH20 (via GMI rates)
CH3CCL3 (via GMI rates)
CH3Cl (via GMI rates)
CH4 (via GMI rates)
CO (via GMI rates)
Cl (via GMI rates)
Cl2 (via GMI rates)
Cl2O2 (via GMI rates)
ClO (via GMI rates)
EOH (via GMI rates)
ETP (via GMI rates)
GLYC (via GMI rates)
GLYX (via GMI rates)
H2402 (via GMI rates)
H2O (via GMI rates)
H2O2 (via GMI rates)
HAC (via GMI rates)
HCFC141b (via GMI rates)
HCFC142b (via GMI rates)
HCFC22 (via GMI rates)
HCOOH (via GMI rates)
HCl (via GMI rates)
HNO2 (via GMI rates)
HNO3 (via GMI rates)
HNO4 (via GMI rates)
HOCl (via GMI rates)
ISOP (via GMI rates)
MACR (via GMI rates)
MAP (via GMI rates)
MEK (via GMI rates)
MGLY (via GMI rates)
MOH (via GMI rates)
MP (via GMI rates)
MVK (via GMI rates)
N2O5 (via GMI rates)
O3 (via Linoz)
OClO (via GMI rates)
PAN (via GMI rates)
PP (via GMI rates)
PPN (via GMI rates)
PRPE (via GMI rates)
PRPN (via GMI rates)
R4N2 (via GMI rates)

R4P (via GMI rates)
RA3P (via GMI rates)
RB3P (via GMI rates)
RCH0 (via GMI rates)
RP (via GMI rates)
RIPA (via GMI rates)
RIPB (via GMI rates)
RIPD (via GMI rates)
 CHBr3 (from GMI OH)
 CH2Br2 (from GMI OH)
 CH3Br (from GMI OH)

* B e g i n T i m e S t e p p i n g ! ! *

----> DATE: 2019/07/22 UTC: 00:00 X-HRS: 0.000000
 HEMCO already called for this timestep. Returning.
NASA-GSFC Tracer Transport Module successfully initialized
HEMCO (VOLCANO): Opening /net/seurat/data/ctm/ExtData/HEMCO/VOLCANO/
v2019-08/2019/07/so2_volcanic_emissions_Carns.20190722.rc
--- Initialize surface boundary conditions from input file ---
--> CCl4 will use prescribed surface boundary conditions from field
SfcVMR_CCl4
--> CFC11 will use prescribed surface boundary conditions from field
SfcVMR_CFC11
--> CFC113 will use prescribed surface boundary conditions from field
SfcVMR_CFC113
--> CFC114 will use prescribed surface boundary conditions from field
SfcVMR_CFC114
--> CFC115 will use prescribed surface boundary conditions from field
SfcVMR_CFC115
--> CFC12 will use prescribed surface boundary conditions from field
SfcVMR_CFC12
--> CH2Cl2 will use prescribed surface boundary conditions from field
SfcVMR_CH2Cl2
--> CH3Br will use prescribed surface boundary conditions from field
SfcVMR_CH3Br
--> CH3CCl3 will use prescribed surface boundary conditions from field
SfcVMR_CH3CCl3
--> CH3Cl will use prescribed surface boundary conditions from field
SfcVMR_CH3Cl
--> CHCl3 will use prescribed surface boundary conditions from field
SfcVMR_CHCl3
--> H1211 will use prescribed surface boundary conditions from field
SfcVMR_H1211
--> H1301 will use prescribed surface boundary conditions from field
SfcVMR_H1301
--> H2402 will use prescribed surface boundary conditions from field
SfcVMR_H2402

```

--> HCFC141b will use prescribed surface boundary conditions from
field SfcVMR_HCFC141b
--> HCFC142b will use prescribed surface boundary conditions from
field SfcVMR_HCFC142b
--> HCFC22 will use prescribed surface boundary conditions from field
SfcVMR_HCFC22
--> N2O will use prescribed surface boundary conditions from field
SfcVMR_N2O
--> OCS will use prescribed surface boundary conditions from field
SfcVMR_OCS
--> H2 will use prescribed surface boundary conditions from field
SfcVMR_H2
--- Finished initializing surface boundary conditions ---
%%%%%%%%%%
%% USING O3 COLUMNS FROM THE MET FIELDS! %%
%%%%%%%%%%
- RDAER: Using online S04 NH4 NIT!
- RDAER: Using online BCPI OCPI BCP0 OCP0!
- RDAER: Using online SALA SALC
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:00
#####
#####
# Interpolating Linoz fields for jul
#####
#####
- LINOZ_CHEM3: Doing LINOZ
=====
=====
Successfully initialized ISORROPIA code II
=====
=====
- Creating file for BoundaryConditions; reference = 20190722
000500
with filename = OutputDir/
GEOSChem.BoundaryConditions.20190722_0005z.nc4
----> DATE: 2019/07/22 UTC: 00:05 X-HRS: 0.083333
----> DATE: 2019/07/22 UTC: 00:10 X-HRS: 0.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 00:15 X-HRS: 0.250000
----> DATE: 2019/07/22 UTC: 00:20 X-HRS: 0.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 00:25 X-HRS: 0.416667
----> DATE: 2019/07/22 UTC: 00:30 X-HRS: 0.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 00:35 X-HRS: 0.583333
----> DATE: 2019/07/22 UTC: 00:40 X-HRS: 0.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:40

```



```
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 00:45 X-HRS:      0.750000
----> DATE: 2019/07/22 UTC: 00:50 X-HRS:      0.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 00:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 00:55 X-HRS:      0.916667
----> DATE: 2019/07/22 UTC: 01:00 X-HRS:      1.000000
- Found all A1 met fields for 2019/07/22 01:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:05 X-HRS:      1.083333
----> DATE: 2019/07/22 UTC: 01:10 X-HRS:      1.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:15 X-HRS:      1.250000
----> DATE: 2019/07/22 UTC: 01:20 X-HRS:      1.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:25 X-HRS:      1.416667
----> DATE: 2019/07/22 UTC: 01:30 X-HRS:      1.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:35 X-HRS:      1.583333
----> DATE: 2019/07/22 UTC: 01:40 X-HRS:      1.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:45 X-HRS:      1.750000
----> DATE: 2019/07/22 UTC: 01:50 X-HRS:      1.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 01:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 01:55 X-HRS:      1.916667
----> DATE: 2019/07/22 UTC: 02:00 X-HRS:      2.000000
- Found all A1 met fields for 2019/07/22 02:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:05 X-HRS:      2.083333
----> DATE: 2019/07/22 UTC: 02:10 X-HRS:      2.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:15 X-HRS:      2.250000
----> DATE: 2019/07/22 UTC: 02:20 X-HRS:      2.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:25 X-HRS:      2.416667
----> DATE: 2019/07/22 UTC: 02:30 X-HRS:      2.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:35 X-HRS:      2.583333
----> DATE: 2019/07/22 UTC: 02:40 X-HRS:      2.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:40
```

```
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:45 X-HRS:      2.750000
----> DATE: 2019/07/22 UTC: 02:50 X-HRS:      2.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 02:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 02:55 X-HRS:      2.916667
----> DATE: 2019/07/22 UTC: 03:00 X-HRS:      3.000000
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_LIGHTNING/
v2020-03/MERRA2/2019/FLASH_CTH_MERRA2_0.5x0.625_2019_07.nc4
- Found all A1      met fields for 2019/07/22 03:30
- Found all A3cld  met fields for 2019/07/22 04:30
- Found all A3dyn  met fields for 2019/07/22 04:30
- Found all A3mstC met fields for 2019/07/22 04:30
- Found all A3mstE met fields for 2019/07/22 04:30
- Found all I3     met fields for 2019/07/22 06:00
Min and Max of each species in BC file [mol/mol]:
GET_BOUNDARY_CONDITIONS: Done applying BCs at 2019/07/22 03:00
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:05 X-HRS:      3.083333
----> DATE: 2019/07/22 UTC: 03:10 X-HRS:      3.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:15 X-HRS:      3.250000
----> DATE: 2019/07/22 UTC: 03:20 X-HRS:      3.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:25 X-HRS:      3.416667
----> DATE: 2019/07/22 UTC: 03:30 X-HRS:      3.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:35 X-HRS:      3.583333
----> DATE: 2019/07/22 UTC: 03:40 X-HRS:      3.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:45 X-HRS:      3.750000
----> DATE: 2019/07/22 UTC: 03:50 X-HRS:      3.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 03:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 03:55 X-HRS:      3.916667
----> DATE: 2019/07/22 UTC: 04:00 X-HRS:      4.000000
- Found all A1      met fields for 2019/07/22 04:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:05 X-HRS:      4.083333
----> DATE: 2019/07/22 UTC: 04:10 X-HRS:      4.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:15 X-HRS:      4.250000
----> DATE: 2019/07/22 UTC: 04:20 X-HRS:      4.333333
```

```

- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:25 X-HRS:      4.416667
----> DATE: 2019/07/22 UTC: 04:30 X-HRS:      4.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:35 X-HRS:      4.583333
----> DATE: 2019/07/22 UTC: 04:40 X-HRS:      4.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:45 X-HRS:      4.750000
----> DATE: 2019/07/22 UTC: 04:50 X-HRS:      4.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 04:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 04:55 X-HRS:      4.916667
----> DATE: 2019/07/22 UTC: 05:00 X-HRS:      5.000000
- Found all A1      met fields for 2019/07/22 05:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:05 X-HRS:      5.083333
----> DATE: 2019/07/22 UTC: 05:10 X-HRS:      5.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:15 X-HRS:      5.250000
----> DATE: 2019/07/22 UTC: 05:20 X-HRS:      5.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:25 X-HRS:      5.416667
----> DATE: 2019/07/22 UTC: 05:30 X-HRS:      5.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:35 X-HRS:      5.583333
----> DATE: 2019/07/22 UTC: 05:40 X-HRS:      5.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:45 X-HRS:      5.750000
----> DATE: 2019/07/22 UTC: 05:50 X-HRS:      5.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 05:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 05:55 X-HRS:      5.916667
----> DATE: 2019/07/22 UTC: 06:00 X-HRS:      6.000000
HEMCO: Opening /net/seurat/data/ctm/ExtData/HEMCO/OFFLINE_LIGHTNING/
v2020-03/MERRA2/2019/FLASH_CTH_MERRA2_0.5x0.625_2019_07.nc4
- Found all A1      met fields for 2019/07/22 06:30
- Found all A3cld  met fields for 2019/07/22 07:30
- Found all A3dyn  met fields for 2019/07/22 07:30
- Found all A3mstC met fields for 2019/07/22 07:30
- Found all A3mstE met fields for 2019/07/22 07:30
- Found all I3     met fields for 2019/07/22 09:00
Min and Max of each species in BC file [mol/mol]:

```

GET_BOUNDARY_CONDITIONS: Done applying BCs at 2019/07/22 06:00
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:05 X-HRS: 6.083333
----> DATE: 2019/07/22 UTC: 06:10 X-HRS: 6.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:15 X-HRS: 6.250000
----> DATE: 2019/07/22 UTC: 06:20 X-HRS: 6.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:25 X-HRS: 6.416667
----> DATE: 2019/07/22 UTC: 06:30 X-HRS: 6.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:35 X-HRS: 6.583333
----> DATE: 2019/07/22 UTC: 06:40 X-HRS: 6.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:45 X-HRS: 6.750000
----> DATE: 2019/07/22 UTC: 06:50 X-HRS: 6.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 06:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 06:55 X-HRS: 6.916667
----> DATE: 2019/07/22 UTC: 07:00 X-HRS: 7.000000
- Found all A1 met fields for 2019/07/22 07:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:05 X-HRS: 7.083333
----> DATE: 2019/07/22 UTC: 07:10 X-HRS: 7.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:15 X-HRS: 7.250000
----> DATE: 2019/07/22 UTC: 07:20 X-HRS: 7.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:25 X-HRS: 7.416667
----> DATE: 2019/07/22 UTC: 07:30 X-HRS: 7.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:35 X-HRS: 7.583333
----> DATE: 2019/07/22 UTC: 07:40 X-HRS: 7.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:45 X-HRS: 7.750000
----> DATE: 2019/07/22 UTC: 07:50 X-HRS: 7.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 07:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22 UTC: 07:55 X-HRS: 7.916667
----> DATE: 2019/07/22 UTC: 08:00 X-HRS: 8.000000

```

- Found all A1      met fields for 2019/07/22 08:30
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:05  X-HRS:      8.083333
----> DATE: 2019/07/22  UTC: 08:10  X-HRS:      8.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:15  X-HRS:      8.250000
----> DATE: 2019/07/22  UTC: 08:20  X-HRS:      8.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:25  X-HRS:      8.416667
----> DATE: 2019/07/22  UTC: 08:30  X-HRS:      8.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:35  X-HRS:      8.583333
----> DATE: 2019/07/22  UTC: 08:40  X-HRS:      8.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:40
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:45  X-HRS:      8.750000
----> DATE: 2019/07/22  UTC: 08:50  X-HRS:      8.833333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 08:50
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 08:55  X-HRS:      8.916667
----> DATE: 2019/07/22  UTC: 09:00  X-HRS:      9.000000
HEMC0: Opening /net/seurat/data/ctm/ExtData/HEMC0/OFFLINE_LIGHTNING/
v2020-03/MERRA2/2019/FLASH_CTH_MERRA2_0.5x0.625_2019_07.nc4
- Found all A1      met fields for 2019/07/22 09:30
- Found all A3cld  met fields for 2019/07/22 10:30
- Found all A3dyn  met fields for 2019/07/22 10:30
- Found all A3mstC met fields for 2019/07/22 10:30
- Found all A3mstE met fields for 2019/07/22 10:30
- Found all I3     met fields for 2019/07/22 12:00
Min and Max of each species in BC file [mol/mol]:
GET_BOUNDARY_CONDITIONS: Done applying BCs at 2019/07/22 09:00
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 09:00
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 09:05  X-HRS:      9.083333
----> DATE: 2019/07/22  UTC: 09:10  X-HRS:      9.166667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 09:10
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 09:15  X-HRS:      9.250000
----> DATE: 2019/07/22  UTC: 09:20  X-HRS:      9.333333
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 09:20
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 09:25  X-HRS:      9.416667
----> DATE: 2019/07/22  UTC: 09:30  X-HRS:      9.500000
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 09:30
- LINOZ_CHEM3: Doing LINOZ
----> DATE: 2019/07/22  UTC: 09:35  X-HRS:      9.583333

```

---> DATE: 2019/07/22 UTC: 09:40 X-HRS: 9.666667
- DO_STRAT_CHEM: Linearized strat chemistry at 2019/07/22 09:40
- LINOZ_CHEM3: Doing LINOZ

=====
=====
GEOS-CHEM ERROR: Excessive fall velocity?
STOP at CALC_FALLVEL, UCX_mod
=====
=====