! small European domain

&dimparam

iy = 330,

jx = 440,

kz = 23,

nsg = 1,

/

! Choice of the dynamical core

!

&coreparam

idynamic = 2, ! Choice of dynamical core

! 1 = MM4 hydrostatical core

! 2 = MM5 NON hydrostatical core

/

&geoparam

iproj = 'ROTMER',

ds = 25.0,

ptop = 5.0,

clat = 20,

clon = 75,

plat = 20,

plon = 75,

truelatl = 30.0,

truelath = 60.0,

i\_band = 0,

/

&terrainparam

domname = 'Trial',

smthbdy = .false.,

lakedpth = .false.,

ltexture = .true.,

fudge\_lnd = .false.,

fudge\_lnd\_s = .false.,

fudge\_tex = .false.,

fudge\_tex\_s = .false.,

h2opct = 50.,

h2ohgt = .true.,

ismthlev = 1,

dirter = '/scratch/cas/phd/asz148358/input\_trial/',

inpter = '/scratch/cas/phd/asz148358/REGCM/original',

moist\_filename = 'moist.nc',

/

&debugparam

debug\_level = 1,

dbgfrq = 3,

/

&boundaryparam

nspgx = 20,

nspgd = 20,

/

&globdatparam

ibdyfrq = 6,

ssttyp = 'OI\_WK',

dattyp = 'EIN15',

chemtyp = 'MZ6HR',

gdate1 = 2011090100,

gdate2 = 2015010100,

!calender = 'gregorian',

dirglob = '/scratch/cas/phd/asz148358/input\_trial',

inpglob = '/scratch/cas/phd/asz148358/REGCM/original',

/

&globwindow

lat0 = 0.0

lat1 = 0.0

lon0 = 0.0

lon1 = 0.0

/

&restartparam

ifrest = .false. ,

mdate0 = 2011090100,

mdate1 = 2011090100,

mdate2 = 2015010100,

/

&timeparam

dt = 30.,

/

&outparam

ifsave = .false. ,

savfrq = 7200.,

ifatm = .true. ,

atmfrq = 24.,

ifrad = .true. ,

radfrq = 24.,

ifsrf = .true. ,

ifsub = .true. ,

srffrq = 24.,

ifchem = .true.,

ifopt = .true.,

chemfrq = 24.,

dirout='/scratch/cas/phd/asz148358/REGCM/trial\_output'

/

&physicsparam

iboudy = 5,

ibltyp = 1,

icup\_lnd = 2,

icup\_ocn = 4,

igcc = 1,

ipptls = 1,

iocnflx = 2,

ipgf = 0,

iemiss = 0,

lakemod = 0,

ichem = 1,

scenario = 'A1B',

idcsst = 0,

iseaice = 0,

idesseas = 0,

iconvlwp = 0,

/

&nonhydroparam

logp\_lrate = 50.0,

ifupr = 0,

ckh = 1.0,

diffu\_hgtf = 1,

nhbet = 0.4,

nhxkd = 0.1,

/

&subexparam

qck1land = .250E-03,

qck1oce = .250E-03,

cevaplnd = .100E-02,

caccrlnd = 3.000,

cftotmax = 0.75,

/

&grellparam

/

&emanparam

elcrit\_ocn = 0.0011D0,

elcrit\_lnd = 0.0011D0,

coeffr = 1.0D0,

/

&holtslagparam

/

&clm\_inparm

fpftcon = 'pft-physiology.c130503.nc',

fsnowoptics = 'snicar\_optics\_5bnd\_c090915.nc',

fsnowaging = 'snicar\_drdt\_bst\_fit\_60\_c070416.nc',

/

&clm\_soilhydrology\_inparm

/

&clm\_hydrology1\_inparm

/

&chemparam

chemsimtype = 'AERO', ! Which chemical tracers to be activated.

! One in :

! DUST : Activate 4 dust bins scheme

! SSLT : Activate 2 bins Sea salt scheme

! DUSS : Activate DUST + SSLT

! DU12 : Activate 12 dust bins scheme

! CARB : Activate 4 species black/anthropic

! carbon simulations

! SULF : Activate SO2 and SO4 tracers

! SUCA : Activate both SUKF and CARB

! AERO : Activate all DUST, SSLT, CARB and SULF

! CBMZ : Activate gas phase and sulfate

! DCCB : Activate CBMZ +DUST +CARB

! POLLEN : Activate POLLEN transport scheme

ichsolver = 0, ! Activate the chemical solver

ichsursrc = 1, ! Enable the emissions

ichdrdepo = 1, ! 1 = enable tracer surface dry deposition. For dust,

! it is calculated by a size settling and dry

! deposition scheme. For other aerosol,a dry

! deposition velocity is simply prescribed further.

ichebdy = 1, ! Enable boundary conditions read

ichcumtra = 1, ! 1 = enable tracer convective transport and mixing.

ichremlsc = 1, ! 1 = wet removal of chemical species (washout and rainout

! by total rain) is enabled

ichremcvc = 1, ! 1 = wet removal of chemical species (washout and rainout

! by convective rain) is enabled

ichdustemd = 1, ! Choice for parametrisation of dust emission size distribution

! 1 = use the standard scheme (Alfaro et al., Zakey et al.)

! 2 = use the the revised soil granulometry + Kok et al., 2011

ichdiag = 1, ! 1 = enable writing of additional diagnostics in the output

idirect = 2, ! Choice to enable or not aerosol feedbacks on radiation and

! dynamics (aerosol direct and semi direct effcts):

! 1 = no coupling to dynamic and thermodynamic. However

! the clear sky surface and top of atmosphere

! aerosol radiative forcings are diagnosed.

! 2 = allows aerosol feedbacks on radiative,

! thermodynamic and dynamic fields.

iindirect = 1, ! Enable sulfate indirect effect in radiation scheme

rdstemfac = 1.0,! Aerosol correction factor (Laurent et al, 2008)

ichjphcld = 1, ! Impact of cloud aod on photolysis coef

ichbion = 0, ! ???????????????????????????????????///

/