

How to create SCM namelists

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This procedure uses the ascii forcing data files from tim:
TWPICE_V1.layer_0601.dat TWPICE_V1.surface_0601.dat

Copy the compressed tar file:
/bm/ghome/glr/bin/scm_create_TWPICE_V1_nlsep07.tar.Z

Uncompress and untar this to find

```
README                               scm0_misc.dat
README~                              scm0_plot.ps
TWPICE_V1.layer_0601.dat             scm1_TWP_38lvls.dat
TWPICE_V1.surface_0601.dat
scm1_interp_to_vert_levels.f90
a.out
scm1_interp_to_vert_levels.o
idl.com
scm2_create_namelist_utc.f90
namelistTWP3_T0_594_38lv_1800ts.scm
scm2_create_namelist_utc.o
namelistTWP3_T0_594_38lv_1800ts.scm_old
scm2_create_namelist_utc_lat_lon.f90
namelistTWP3_T0_594_38lv_1800ts.scm_vertadvT
scm2_create_namelist_utc_lat_lon.f90~
scm0_basic.dat
scm2_create_namelist_utc_lat_lon.o
scm0_create_dat_idl.csh              toga_spec
scm0_deriv.dat                      vertlevs_G3
scm0_lsf.dat
```

These files can be used to create the TWP-ICE V1 namelist as follows:

```
-scm0_create_dat_idl.csh
  needs TWPICE_V1.layer_0601.dat TWPICE_V1.surface_0601.dat
  ==This creates the dat and postscript files: idl.com +
  scm0_basic.dat scm0_deriv.dat scm0_misc.dat scm0_lsf.dat
scm0_plot.ps
  eg scm0_basic.dat data=y m d h= [6 1 19 3, 6 2 12 21, 3hr]
(utc)
-f90 scm1_interp_to_vert_levels.f90 (uses w)
  needs vertlevs_G3 and the files created above,
  it creates a.out and scm1_interp_to_vert_levels.o
  a.out -f vertlevs_G3
  == creates scm1_TWP_38lvls.dat [199 data times]
-f90 scm2_create_namelist_utc_lat_lon.f90 == has twpice lat/lon
  needs scm1_TWP_38lvls.dat created above,
  it creates scm2_create_namelist.o and a.out
  a.out -t 198 -t0 0 -ts 1800 -ti 0 -n 1 -zb 1 -zt 28 -tau 7200.0 -f
scm1_TWP_38lvls.dat -dT 1.00 -xq 10.00 -e 0 -obs T -
w T -tog F
  ==creates namelistTWP3_T0_594_38lv_1800ts.scm
  edit this and add l_vertadv = T to get
  namelistTWP3_T0_594_38lv_1800ts.scm_vertadvT)
-now can run this via:
```

```
rcp namelistTWP3_T0_594_381v_1800ts.scm \  
    eccles:/bm/home/glr/scm6.3/scm63  
rlogin d2:  
cd /bm/home/glr/scm6.3/scm63  
cp namelistTWP3_T0_594_381v_1800ts.scm  namelist.scm  
qsub runscm63  
scm2nc TWP3_T0_594_381v_1800ts_c_diags.dat diag.nc
```