begin

in = addfile("/scale\_wlg\_persistent/filesets/project/uoa02450/Build\_WRF4/WRFV3/WRFV3/run/wrfout\_d03\_2016-12-29\_00:00:00.nc","r")

times = wrf\_user\_list\_times(in)

ntimes = dimsizes(times)

temp = new(ntimes,float)

;print(ntimes)

do it = 0,ntimes-1

print("Working on time " + it )

time = it

res = True

res@returnInt = True

lat = -17.556

lon = 177.681

point = wrf\_user\_ll\_to\_ij(in,lon,lat,res)

x = point(1)

y = point(0)

print("X location is: " + x)

print("Y location is: " + y)

tc2 = wrf\_user\_getvar(in, "HGT", time)

tc2 = wrf\_user\_getvar(in, "T2", time)

tc2 = tc2 - 273.16

temp(time) = tc2(y,x)

end do

npts = ntimes

fName = "Ba Jan T2 Topo=2+SST+PBLMIX 2017.txt"

data = new( npts, "string")

print(" Time temp ")

do it = 0, ntimes-1 ;ntimes-1

print (sprintf("%5.0f",it) + " " + sprintf("%21.2f", temp(it)) + " " )

end do ; end of time loop

do it = 0,ntimes-1 ;ntimes-1

data (it)= (sprintf("%5.0f",it) + " " +sprintf("%21.2f", temp(it)) + " " )

end do

asciiwrite (fName , data)

end