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;*******************************
;Assignment for LAD class
;done by Kai Wang
;date:Sep 13,2010
;note: in order to show the contour of 0, I replace all 0 with -1 in the data
;*******************************
load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/gsn_code.ncl"
load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/gsn_csm.ncl"
load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/contributed.ncl"
load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/shea_util.ncl"
begin
;============================
;open fine and read in data
;============================
nrows = 37
ncols = 12
data = asciiread("raw.txt",(/nrows,ncols/),"float")
wks = gsn_open_wks("ps","lad09")
gsn_define_colormap(wks,"BlWhRe")
res =True
;*******************
;set contour levels
;*******************
res@cnLevelSelectionMode = "ManualLevels"
res@cnMinLevelValF=0.
res@cnMaxLevelValF=480.
res@cnLevelSpacingF=30.
res@tmXBMode = "Explicit"
res@tmXBValues = (/0,1,2,3,4,5,6,7,8,9,10,11/)
res@tmXBLabels =(/"Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"/)
res@tmXBLabelAngleF = 0
res@tmYLMode = "Explicit"
res@tmYLValues = (/0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36/)
res@tmYLLabels =
(/"90S","80S","70S","60S","50S","40S","30S","20S","10S","0","10N","20N","30N","40N","50N","60N","70N","8
0N","90N"/)
res@tmXBLabelFontHeightF=0.025
res@tmXTLabelFontHeightF=0.015
res@tmYLLabelFontHeightF=0.020
res@gsnLeftString = "daily average"
res@gsnRightString = "(W/m2)"
res@gsnLeftStringFontHeightF =0.018
res@gsnRightStringFontHeightF =0.018
;***************
;width change
;***************
res@vpWidthF = 1.3
plot=gsn_csm_contour(wks,data,res)
;***************
;dash lines
; OK, I tried but failed in this part
;***************
;shade
;***************
opt = True
opt@gsnShadeFillType = "color"
opt@gsnShadeLow = 145 ;3 blue,150 yellow
plot=gsn_contour_shade(plot,0,-999,opt)
delete(opt@gsnShadeLow)
;****************************
;draw panel plot with title
;****************************
pres =True
pres@txString = "  Solar Radiation At Top Of Atmosphere, by NCL"
gsn_panel(wks,plot,(/1,1/),pres)
end
```