

Grid Analysis and Display System

GrADS

Básico

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Contenido

- > Sintaxis básica
- > Personalización de gráficas
- > Búsqueda de funciones y comandos

Antes de iniciar...



```
dset ^gfs_4_%y4%m2%d2_%h200_000.grb2
index ^gfs_4_20190521_hh00_000.grb2.idx
*DSET C:\PCGrADS\gfs_4_%y4%m2%d2_%h200_000.grb2
*INDEX C:\PCGrADS\gfs_4_20100123_hh00_000.idx
```

Modificar:

- > dset: dirección de su carpeta de trabajo
- > index: archivo con la configuración de grillado

```
dset C:\Users\Kevin\Desktop\UNALM\Assistance\Met_Dynamic\Data\gfs_4_%y4%m2%d2_%h200_000.grb2index C:\Users\Kevin\Desktop\UNALM\Assistance\Met_Dynamic\Data\gfs_4_20190521_hh00_000.grb2.idx
```

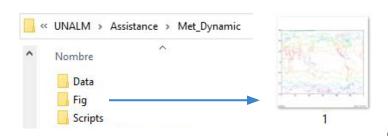
Gráfica básica

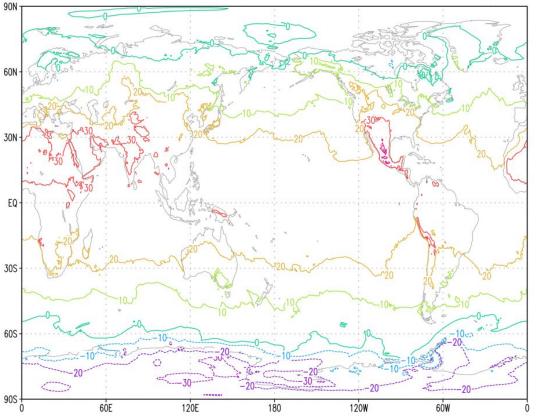
'reinit'
'set display color white'
'c'

Cargar data
'open Data\jalaran.ctl'

Temperatura del aire [°C]
'd T-273.15'

Exportar gráfica
'printim Fig\Basic\1.png x960 y960'





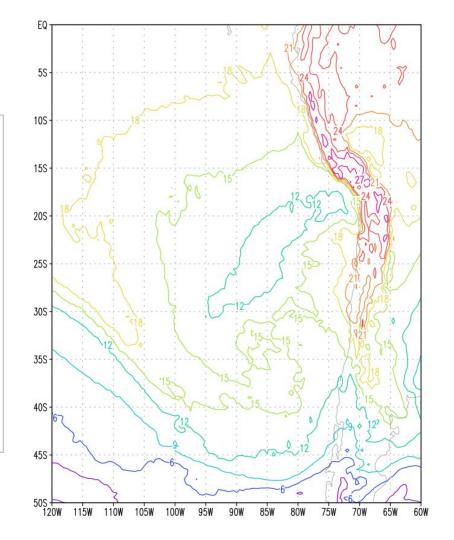
GrADS/COLA 2022-01-20-19:33

'reinit'
'set display color white'
'set grads off'
'c'

Cargar data 'open Data\jalaran.ctl'

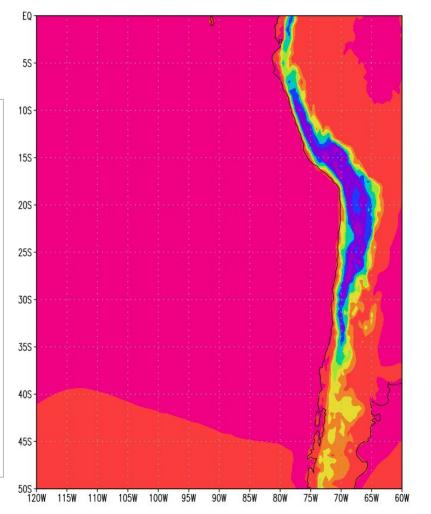
Delimitar área 'set lat -50 0' 'set lon -120 -60' 'set lev 925'

Temperatura del aire [°C] 'd T-273.15'



Sombreado

```
'reinit'
'set display color white'
'set grads off'
### Cargar data
'open Data\jalaran.ctl'
### Delimitar área
'set lat -50 0'
'set lon -120 -60'
'set lev 925'
### Sombreado (shaded): presión superficial [hPa]
'set gxout shaded'
'd PRESsfc/100'; # Pa/100 = hPa'
'cbar'
                ;# Barra de colores
```



950

900

850

800

750

700

650

Sombreado

'reinit' 'set display color white' 'set grads off' 'c'

Cargar data
'open Data\jalaran.ctl'

Delimitar área 'set lat -50 0' 'set lon -120 -60' 'set lev 925' Met_Dynamic > Scripts

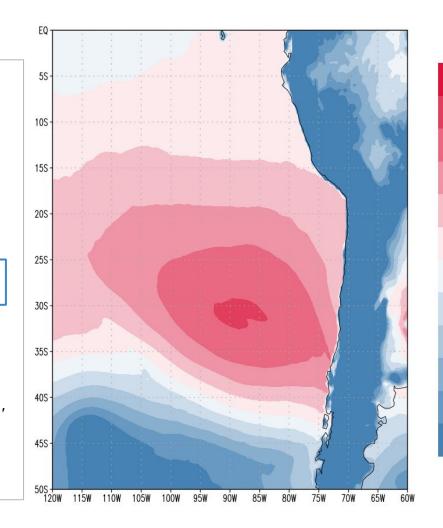


(1030 - 990)/10 = 4 hPa

Sombreado (shaded): presión superficial [hPa] 'set gxout shaded'

'Scripts/color 990 1030 -div 10 -kind steelblue->white->crimson'

'd PRESsfc/100' ;# Pa/100 = hPa' 'cbar' ;# Barra de colores



1030

1026

1022

1018

1014

1010

1006

1002

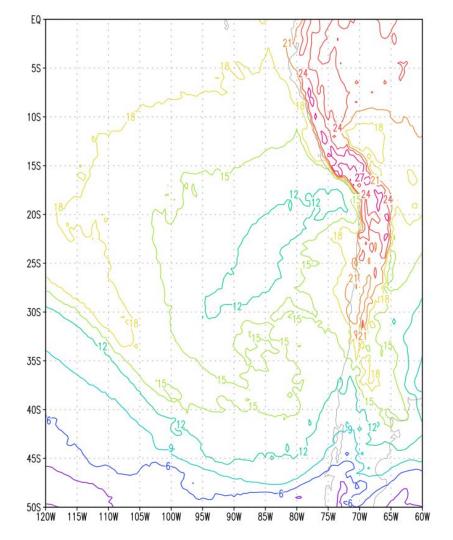
998

994

990

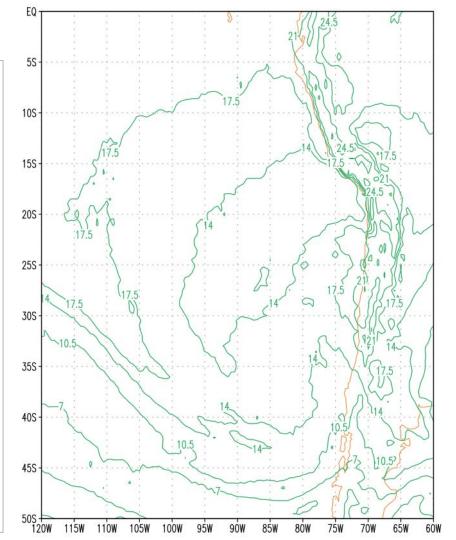
Contorno

```
'reinit'
'set display color white'
'set grads off'
### Cargar data
'open Data\jalaran.ctl'
### Delimitar área
'set lat -50 0'
'set lon -120 -60'
'set lev 925'
### Contorno (contour): temperatura del aire [°C]
'set gxout contour'
'd T-273.15'
```



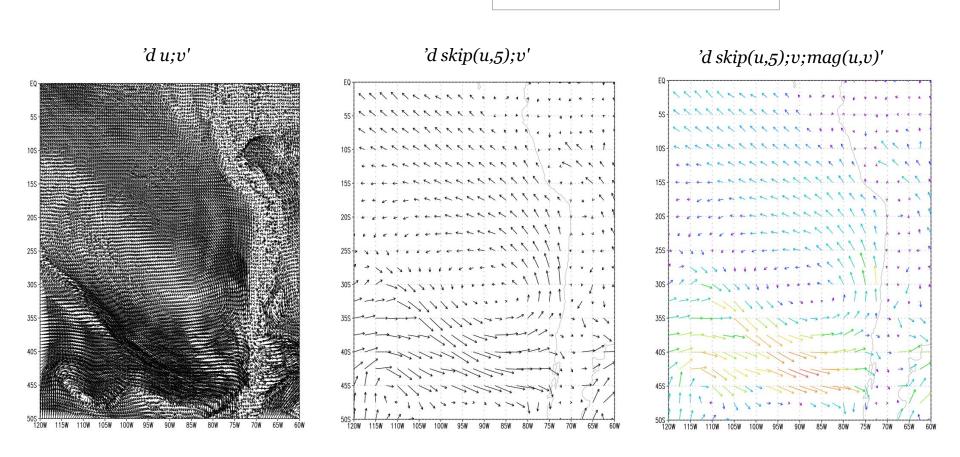
Contorno





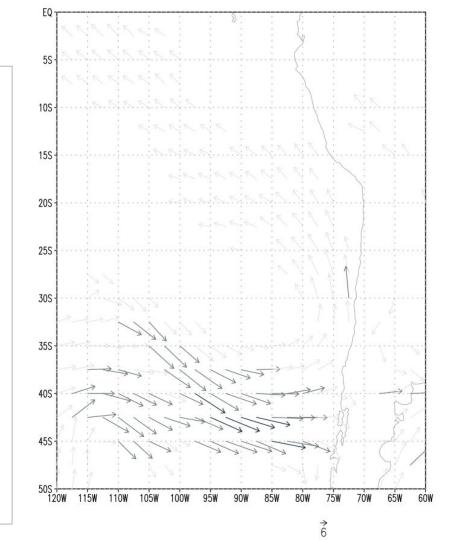


Vectores: viento [m/s]
'set gxout vector'

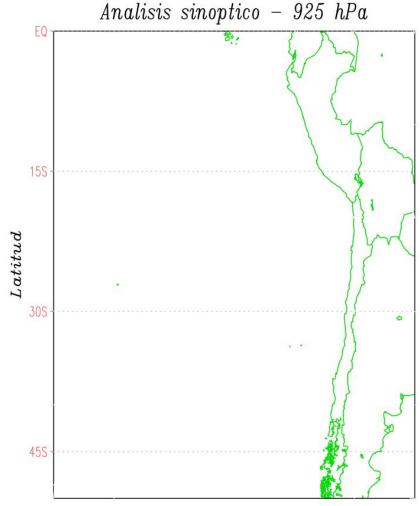


Vectores

```
'reinit'
'set display color white'
'set grads off'
### Cargar data
'open Data\jalaran.ctl'
### Delimitar área
'set lat -50 0'
'set lon -120 -60'
'set lev 925'
### Vectores: viento [m/s]
'set gxout vector'
'set cmin 6'
                          ;# Mínimo valor
'set arrowhead 0.075'
                          ;# Escala de la cabeza
'set arrscl 0.125 6'
                          ;# Escala: scale value
'set rgb 102 229 232 232'
                              ;# Definir color 102
                              ;# Definir color 103
'set rgb 103 112 123 124'
'set rgb 104 33 47 60'
                              ;# Definir color 104
'set rbcols 0 102 103 104'
                              ;# Paleta de colores
'd skip(u,5);v;mag(u,v)'
```







¿Qué observamos?

Presión a nivel de mar [hPa] = shaded

Temperatura del aire [°C] = contour

Viento mayor a 12 m/s = vector

¿Qué información obtenemos?

Anticiclón del Pacífico Sur Oriental

Jet Costero de Bajos Niveles (JCBN)

Afloramiento costero

