

LAB 4 :Grid Analysis and Display System (GrADS)

- Quiz : Find Jetstream at 500 mb in the Middle East at longitude 10 85 E, latitude 10 65 N on first 5 times in the model.

```
open model.ctl
```

```
set lon 10 85
```

```
set lat 10 65
```

```
set lev 500
```

```
set mpdset hires brmap
```

```
d mag(ua,va)
```

```
c
```

```
set t 2
```

```
d mag(ua,va)
```

```
c
```

```
set t 3
```

```
d mag(ua,va)
```

```
q file
```

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- Quiz : Display difference between two days of surface air temperature (Celsius degree) in the Middle East at latitude 10 65N , longitude 10 85E

```
open model.ctl
```

```
set display color white
```

```
c
```

```
set lon 10 85
```

```
set lat 10 65
```

```
q file
```

```
q dims
```

```
set mpdset hires brmap
```

```
d ts(t=2)-273.15-(ts(t=1)-273.15)
```

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- netcdf (GrADS version 1.9) Data file is NetCDF. Although NetCDF files are self-describing and may be read automatically using the `sdfopen/xdfopen` commands, this DTYPE gives you the option of overriding the file's own metadata and creating a descriptor file for some or all of the variables in the file. This DTYPE may also be used if the metadata in the NetCDF file is insufficient or is not coards-compliant. This data type requires a special entry in the units field of the variable declaration.

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- The `sdfopen/xdlopen` commands

```
sdfopen c:\grads\20.nc
```

```
set display color white
```

```
c
```

```
q file
```

```
set lon 38 49
```

```
set lat 28 38
```

```
set mpdset hires brmap
```

```
set gxout shaded
```

```
set csmooth on
```

```
d t2m-273.15
```

```
run cbar
```

```
gxprint c:\grads\t2m.png
```