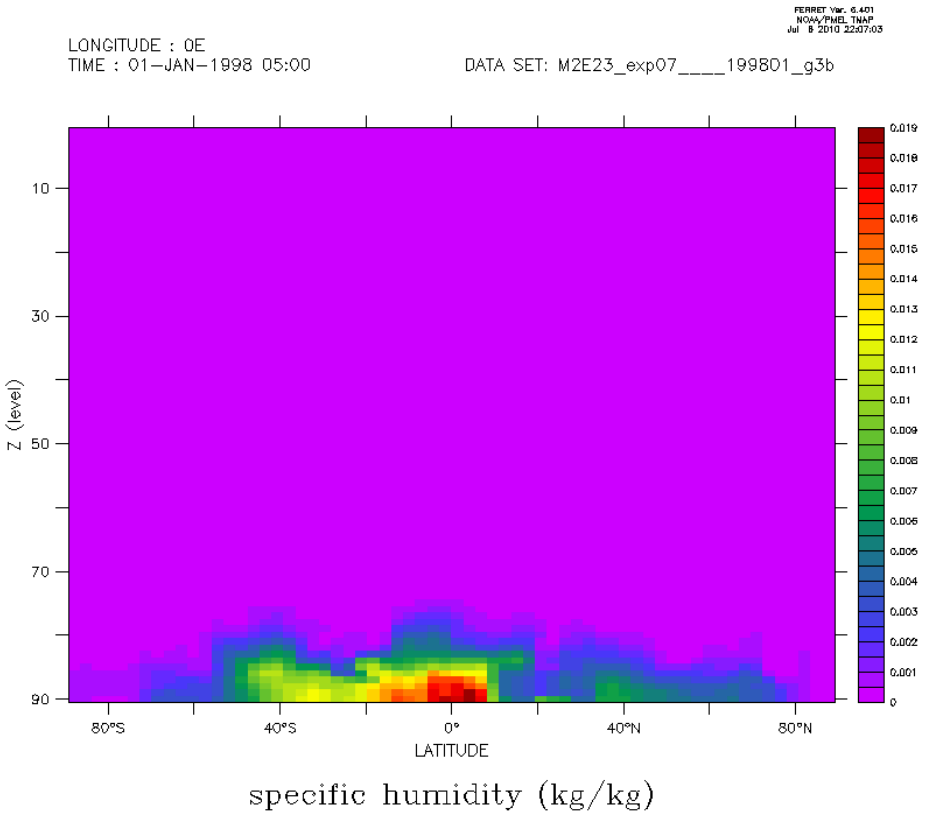
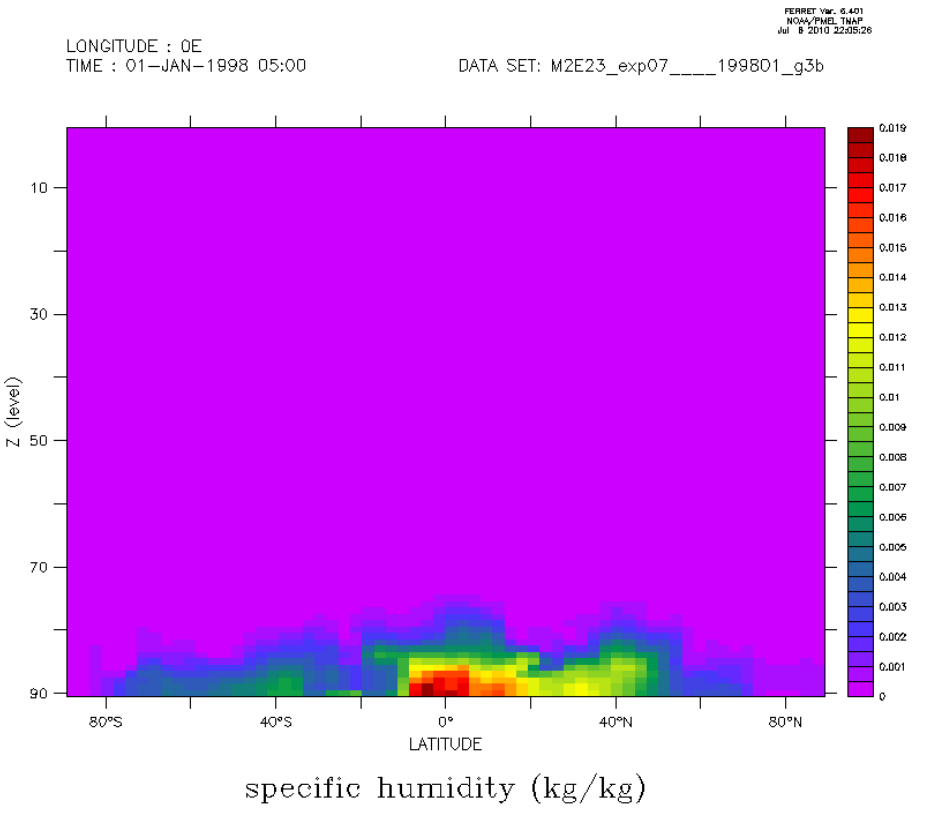
q (spechum)



original file (orig.nc)



after appending (test.nc)

NOAA/PMEL TMAP
FERRET v6.401
Linux(g77) 2.4.21-57.ELsmp - 12/09/09
6-Jul-10 22:03

shell
```
> cp orig.nc test.nc
```

ferret
```
> use test.nc (i,j,k,l; including specific humidity q)
> let testvar = q[l=1:2]
> save/append/file="test.nc" testvar
  => ferret writes whole file again, including variable “testvar”
> quit
```

ferret
```
> use test.nc
> shade/i=1/l=1 q
> use orig.nc
> set win 2
> shade/i=1/l=1 q
```

orig.nc
lat = 87.8638,85.09653,82.31291,79.5256,76.7369,73.94752,...
=> from North to South

ferret
```
> use orig.nc
> show grid q
    GRID GKG4
 name       axis              # pts   start                 end
 LON        LONGITUDE         128mr   0E                    2.813W(357.19)
 LAT        LATITUDE           64 i   87.863S               87.863N
 LEV        Z (level)          90 r-  1                     90
 TIME       TIME              148 r   01-JAN-1998 05:00     31-JAN-1998 20:00
```

=> ferret ignores unconventional North-South ordering in latitude already in the original file orig.nc / test.nc (before appending) and just assumes the conventional South-North ordering. Thus, appending to the file test.nc mirrors the data along the equator without any error notice.