Ozone profiles

```
cd 'C:\Ablage\Vortraege+Reisen\Vorlesung\2013-
Christchurch\ComputerLab\chapmanmodel\results'

set xrange [0.0:8.0]
set yrange [0.0:50.0]

set xlabel "Ozone concentration [10e12 cm-3]"
set ylabel "Altitude [km]"

set size ratio 1.5
set grid

plot "year2001.dat" using (1e-12*$14):1 title "year 2001" with lines,
"year2005.dat" using (1e-12*$14):1 title "year 2005" with lines,"year2049.dat"
using (1e-12*$14):1 title "year 2049" with lines
```

```
cd 'C:\Ablage\Vortraege+Reisen\Vorlesung\2013-
Christchurch\ComputerLab\chapmanmodel\results'

set xrange [1.0:12.0]
set yrange [0.0:7.0]

set xlabel "Month"
set ylabel "Ozone concentration [10e12 cm-3]"

set size ratio 0.75
set grid

plot "annual_cycle25km.dat" using 3:(1e-12*$14) title "25km" with lines,
"annual_cycle30km.dat" using 3:(1e-12*$14) title "30km" with
lines,"annual_cycle35km.dat" using 3:(1e-12*$14) title "35km" with lines
```

```
cd 'C:\Ablage\Vortraege+Reisen\Vorlesung\2013-
Christchurch\ComputerLab\chapmanmodel\results'

set xrange [1.0:24.0]
set yrange [*:*]

set xlabel "Local time [hours]"
set ylabel "Concentration [10e12 cm-3]"

set size ratio 0.75
set grid

set xtics 3

plot "diurnal_cycle40km.dat" using 5:(1e-12*$14) title "O3" with lines,
"diurnal_cycle40km.dat" using 5:(1e-12*$12) title "Ox" with lines
```

```
cd 'C:\Ablage\Vortraege+Reisen\Vorlesung\2013-
Christchurch\ComputerLab\chapmanmodel\results'

set xrange [1.0:24.0]
set yrange [*:*]

set xlabel "Local time [hours]"
set ylabel "Concentration [10e12 cm-3]"

set size ratio 0.75
set grid

set xtics 3

plot "diurnal_cycle65km.dat" using 5:(1e-12*$14) title "O3" with lines,
"diurnal_cycle65km.dat" using 5:(1e-12*$12) title "Ox" with lines
```