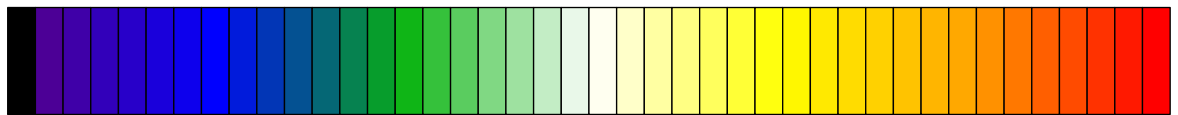
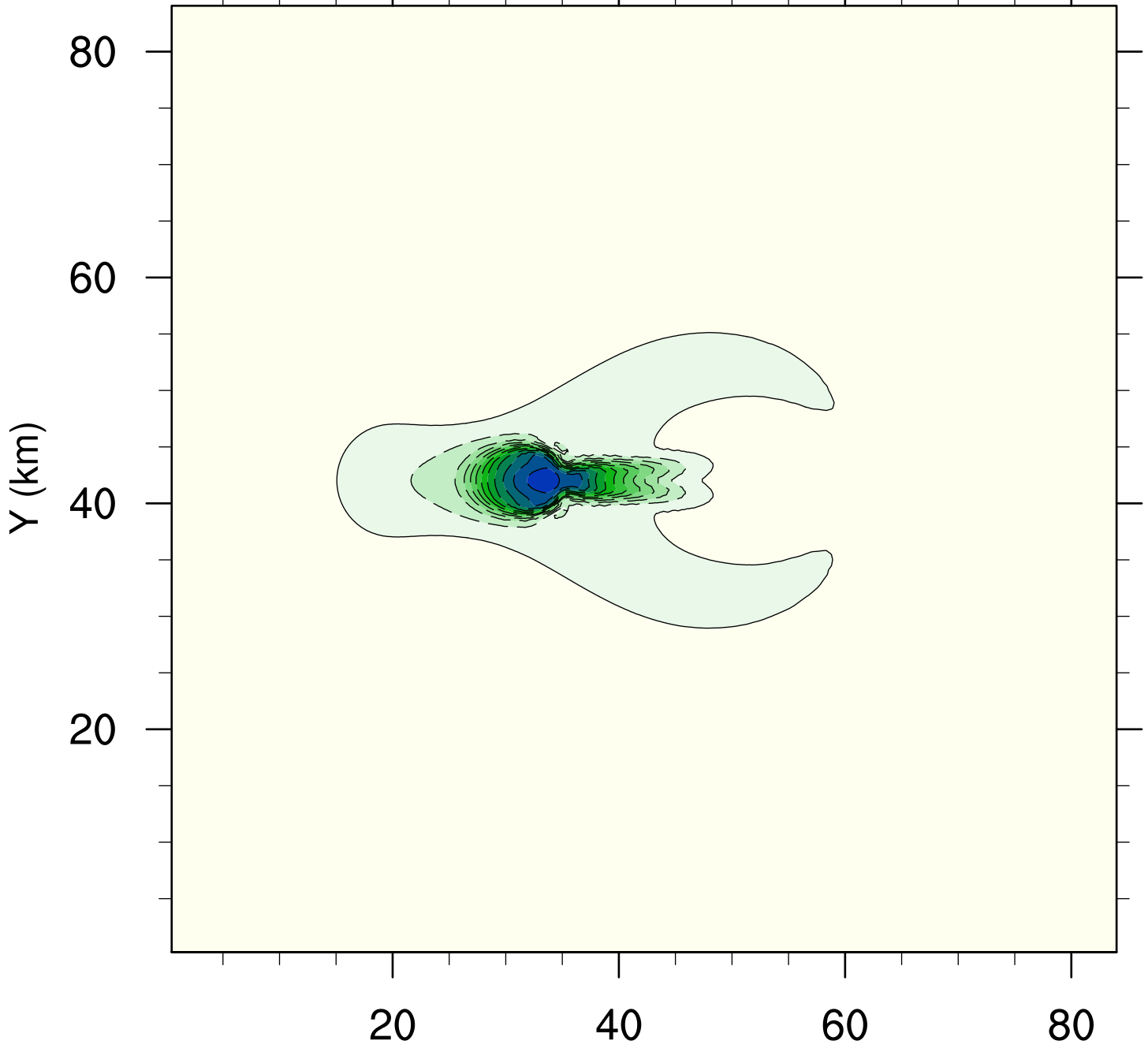


perturbation theta, Level 1 at 1800s

MPAS

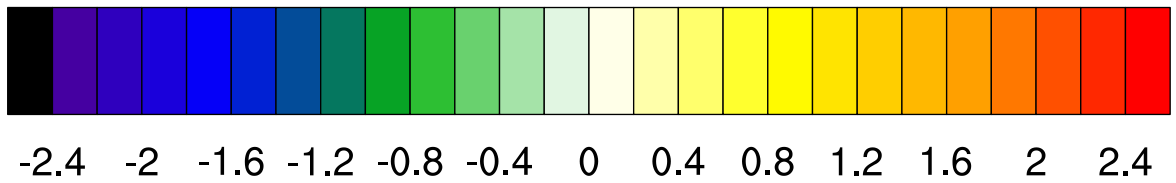
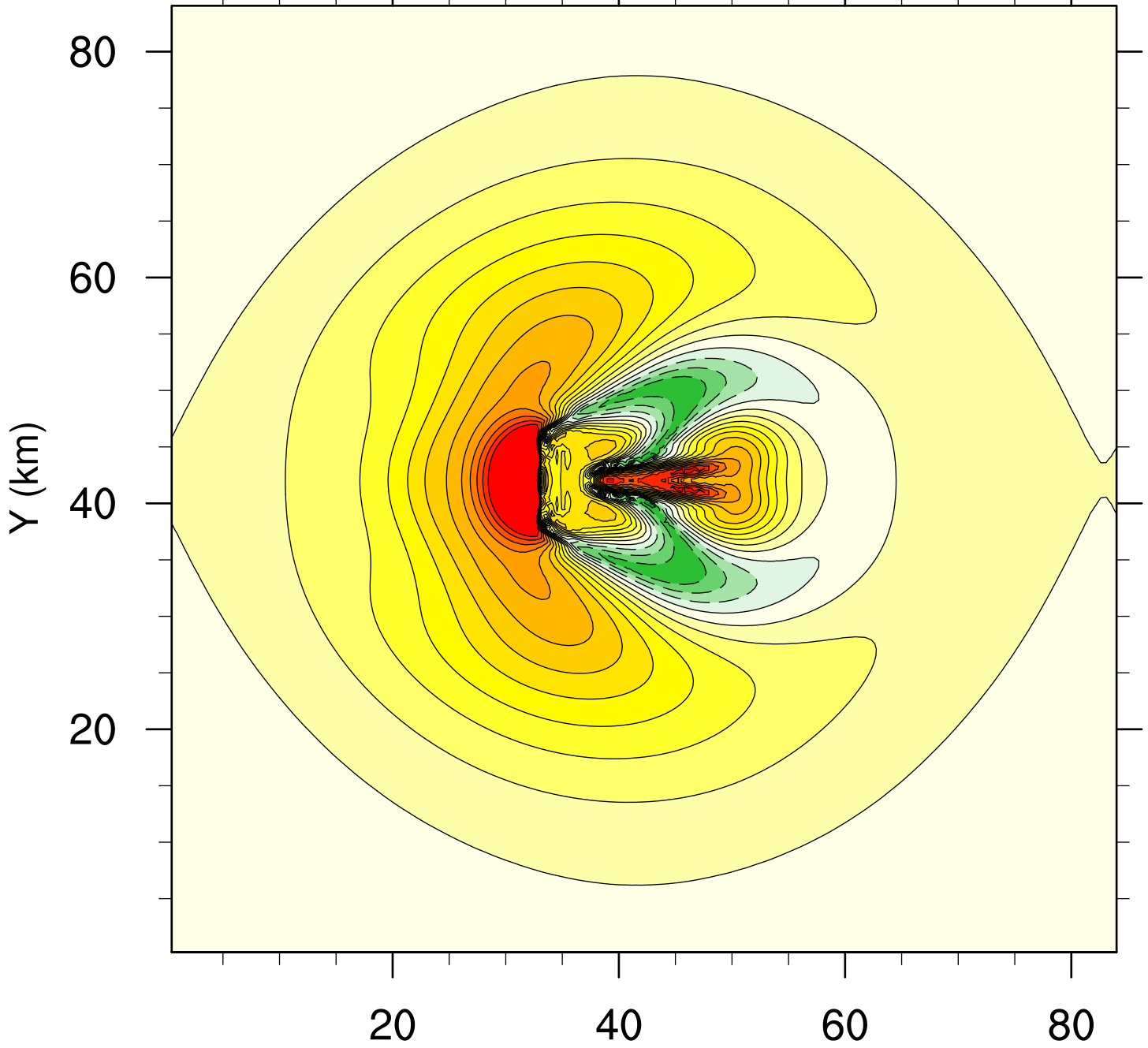


-5.4 -4.5 -3.6 -2.7 -1.8 -0.9 0 0.9 1.8 2.7 3.6 4.5 5.4

X (km)

perturbation theta, Level 5 at 1800s

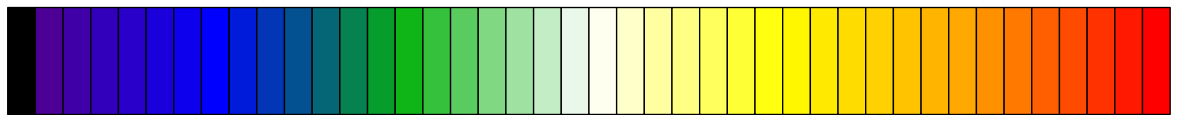
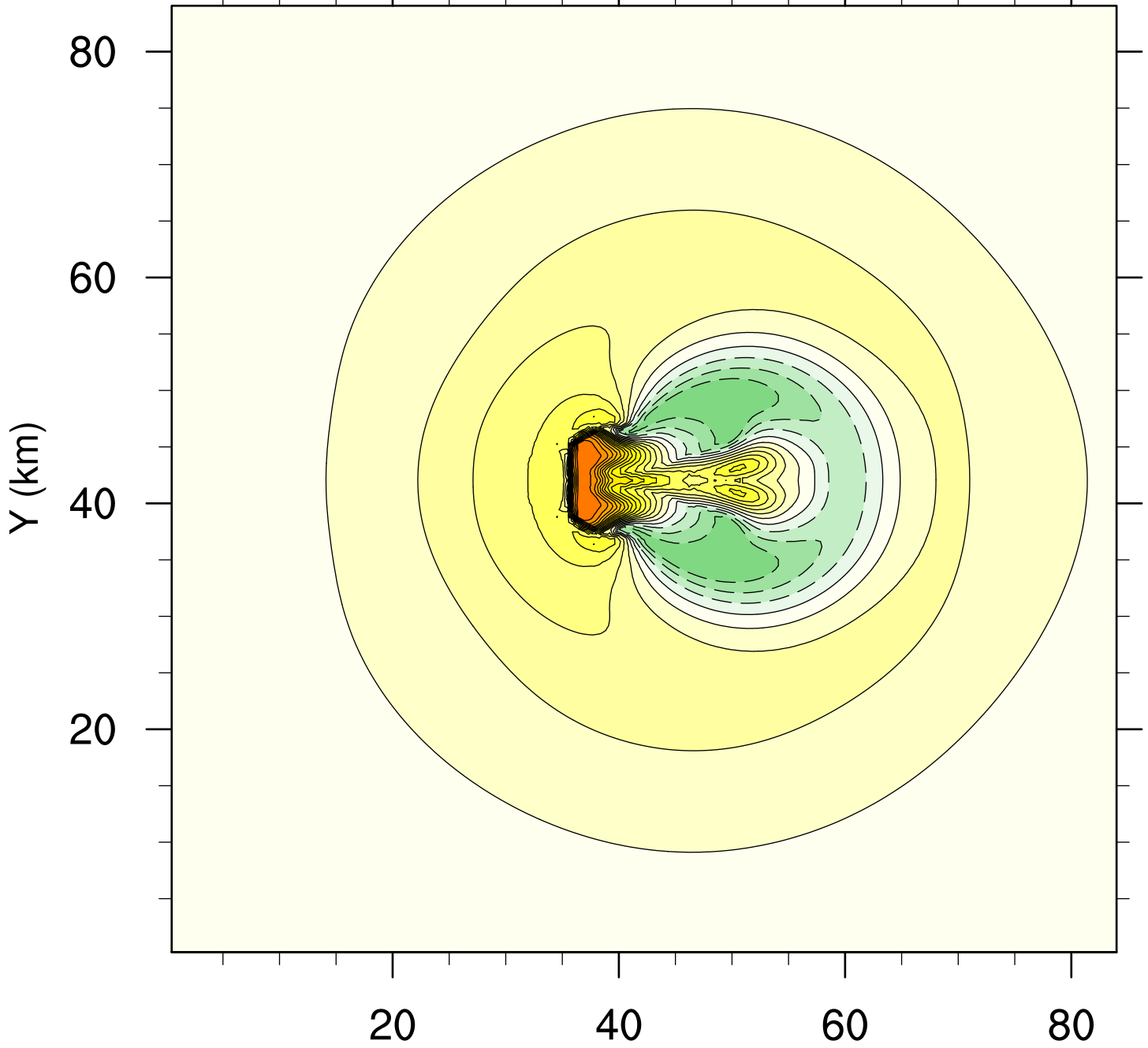
MPAS



X (km)

perturbation theta, Level 10 at 1800s

MPAS

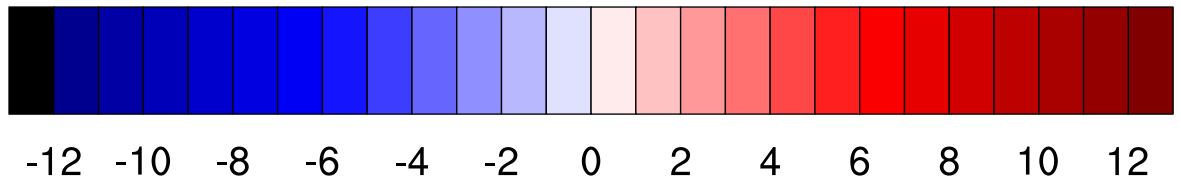
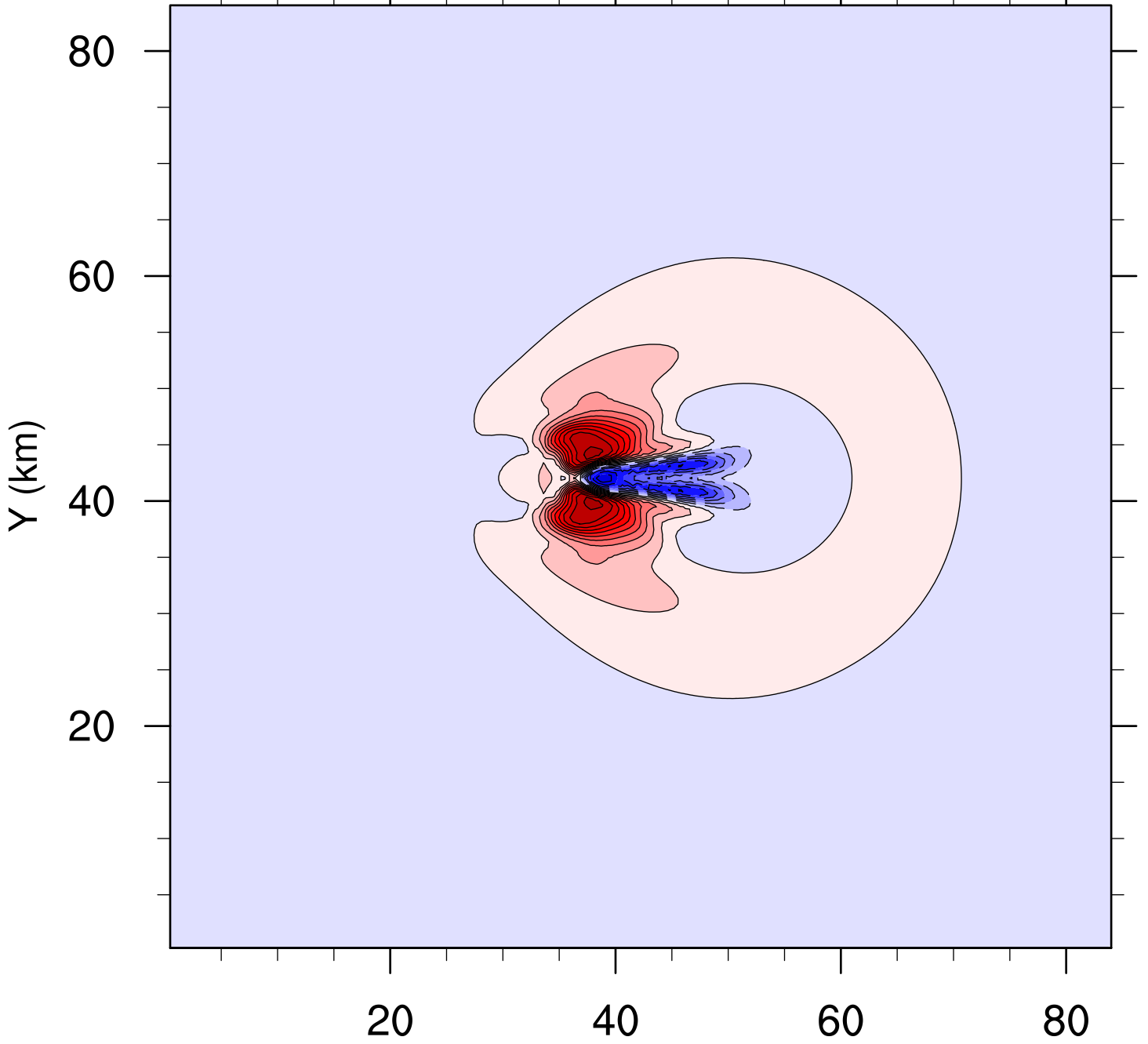


-7.2 -6 -4.8 -3.6 -2.4 -1.2 0 1.2 2.4 3.6 4.8 6 7.2

X (km)

w, Level 5 at 1800s

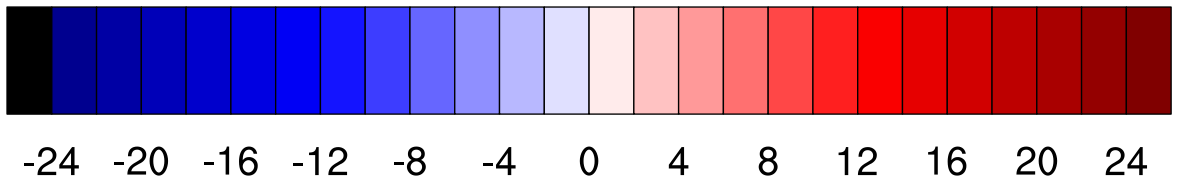
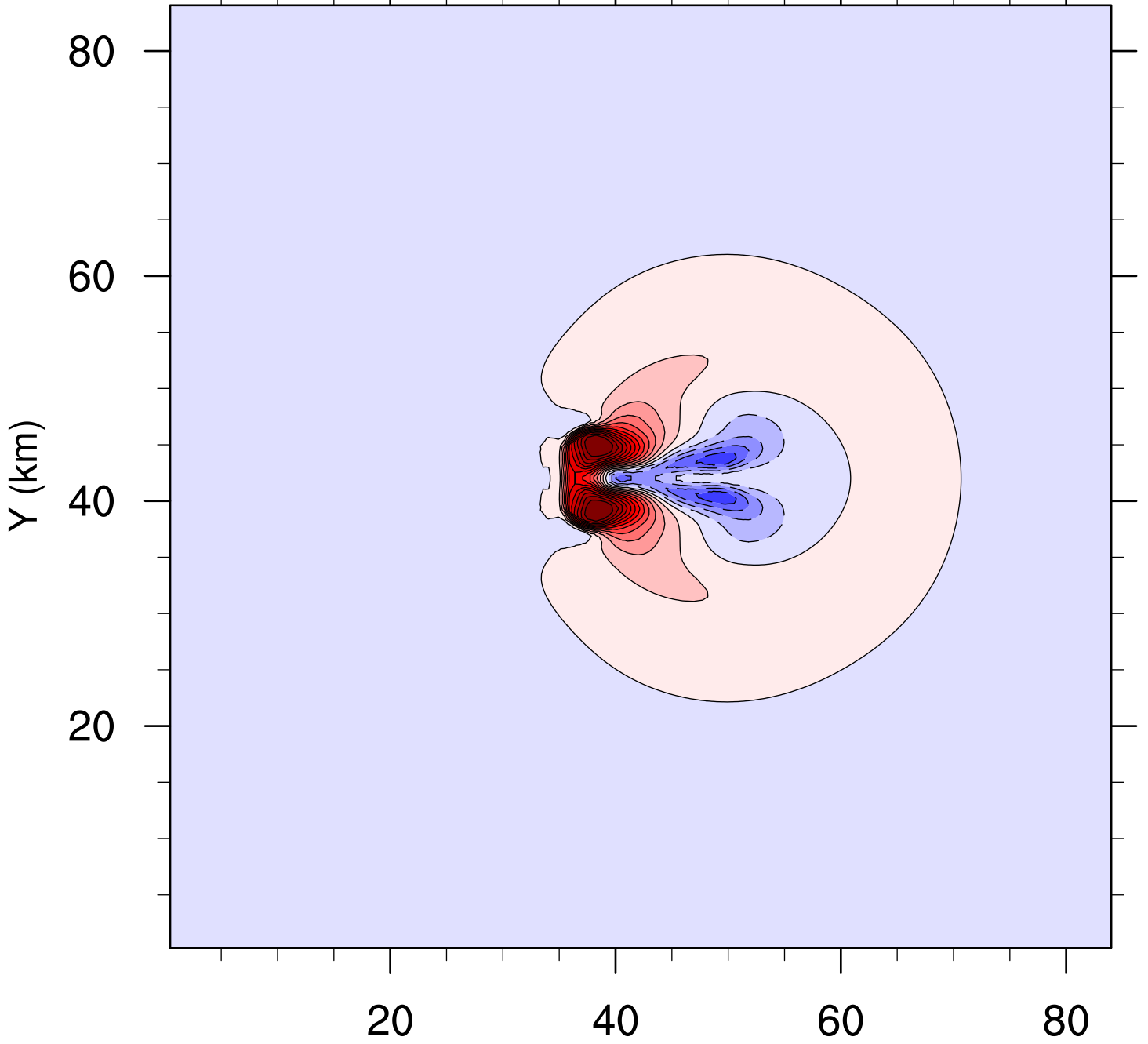
MPAS



$X$  (km)

w, Level 10 at 1800s

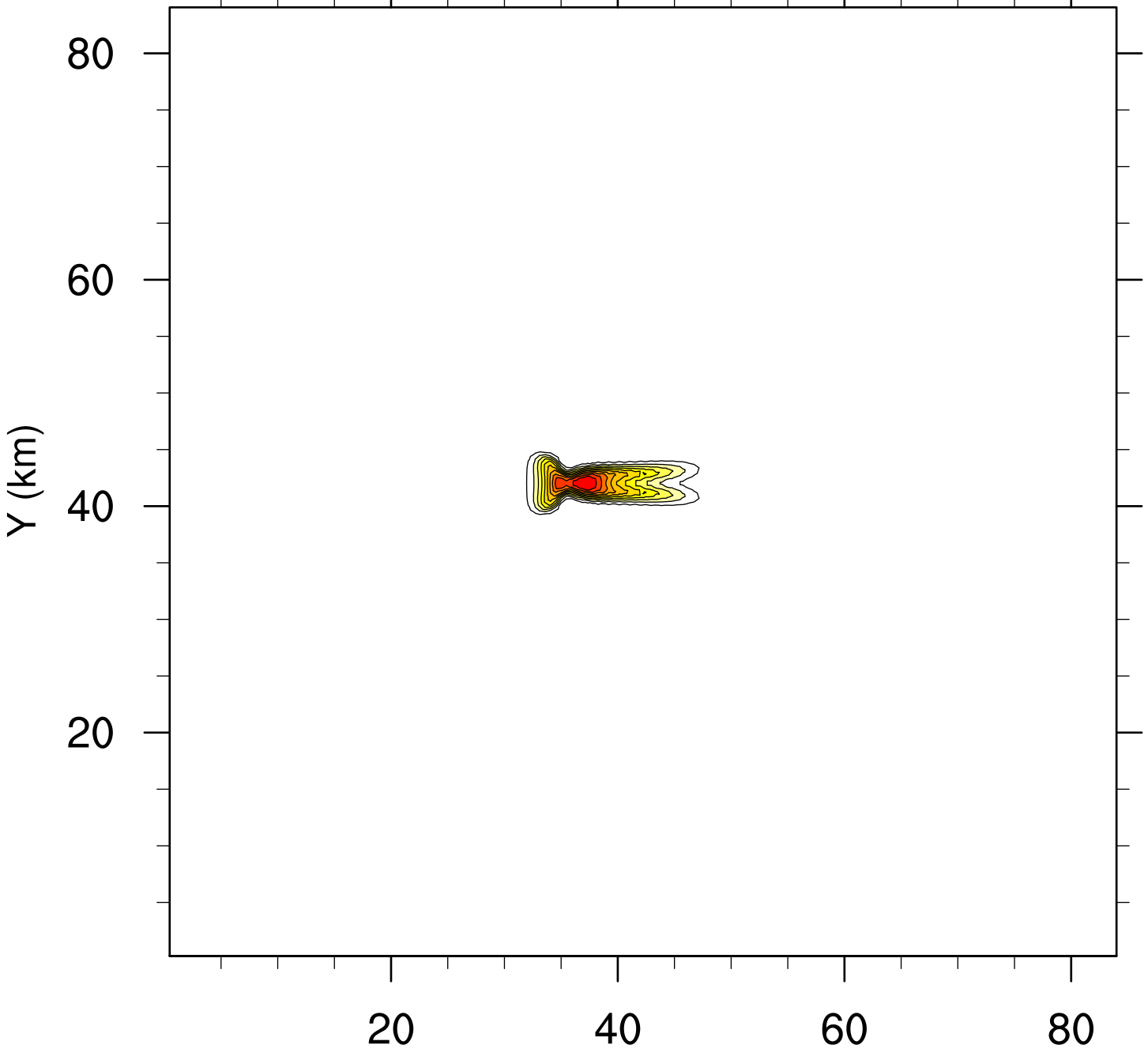
MPAS



$X$  (km)

qr, Level 1 at 1800s

MPAS

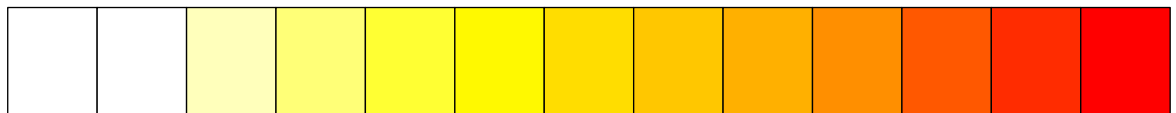
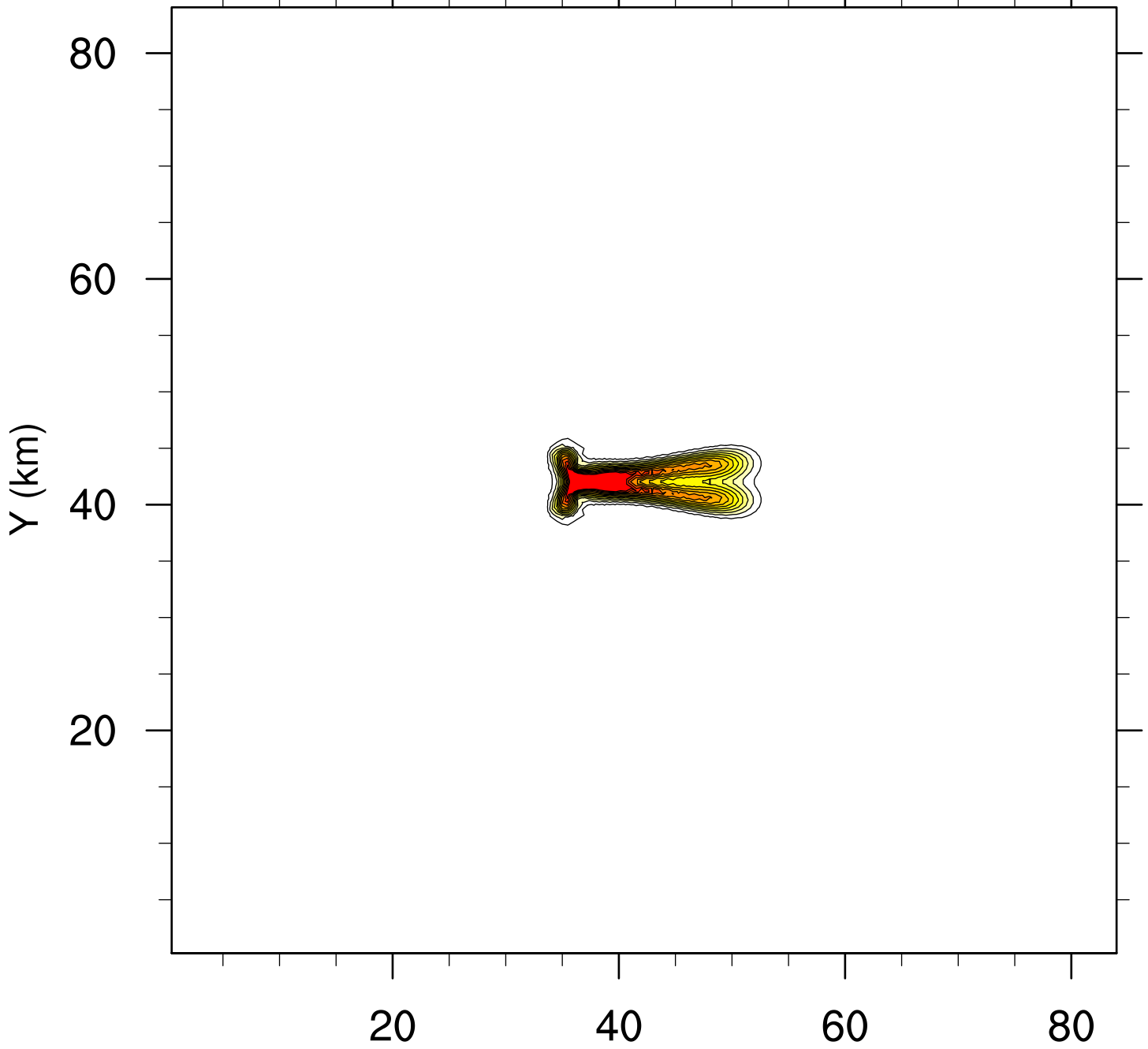


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

X (km)

qr, Level 5 at 1800s

MPAS

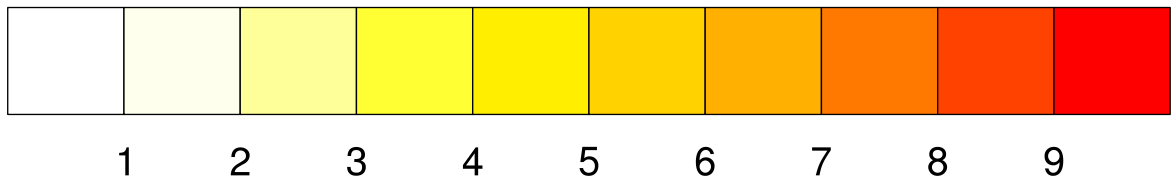
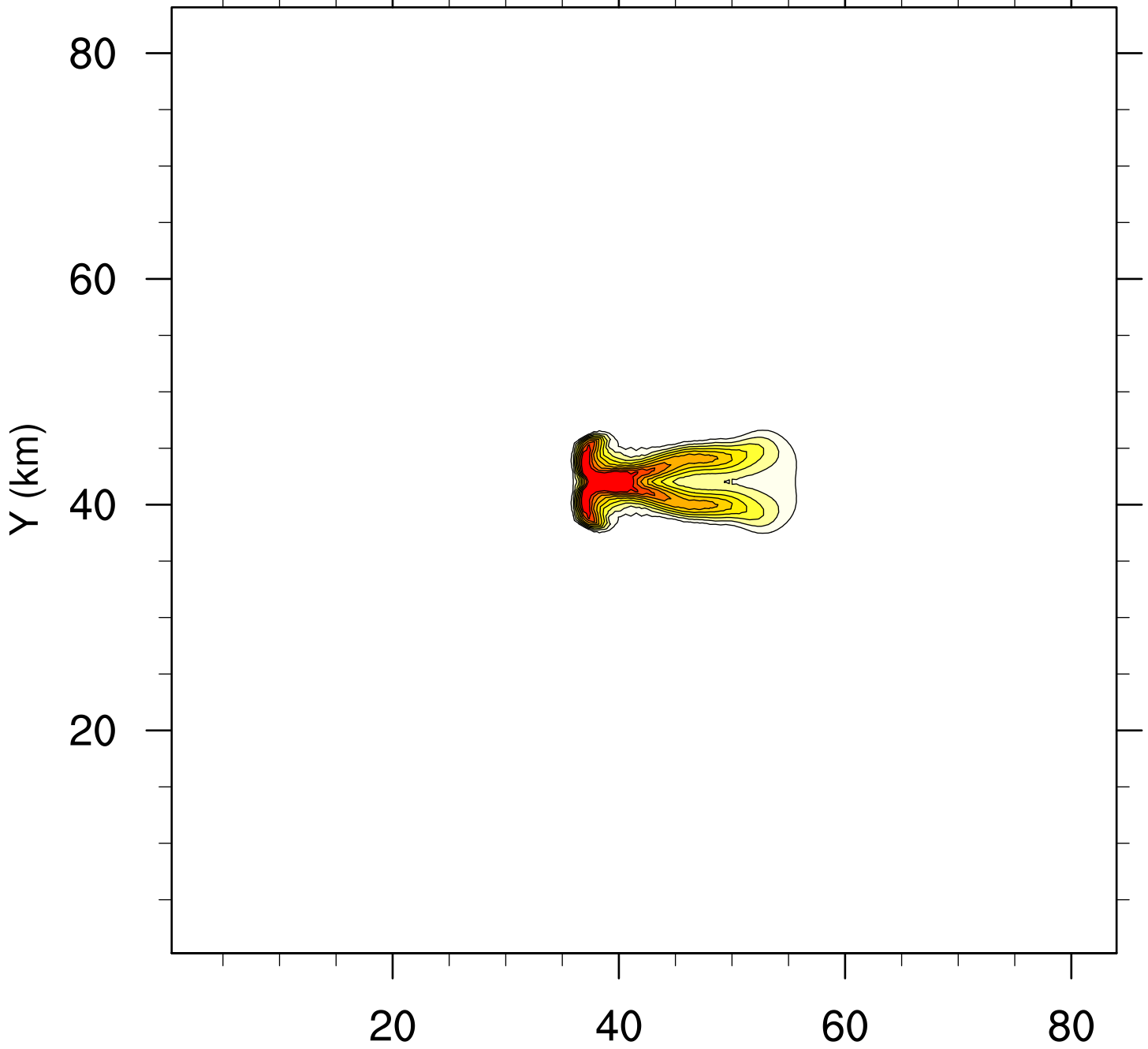


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6

X (km)

qr, Level 10 at 1800s

MPAS

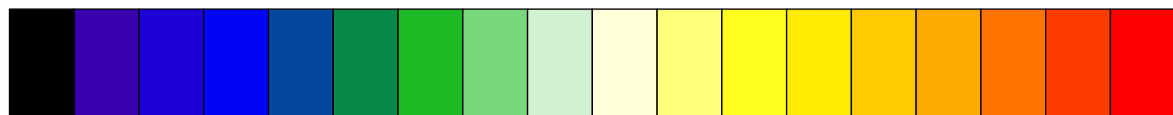
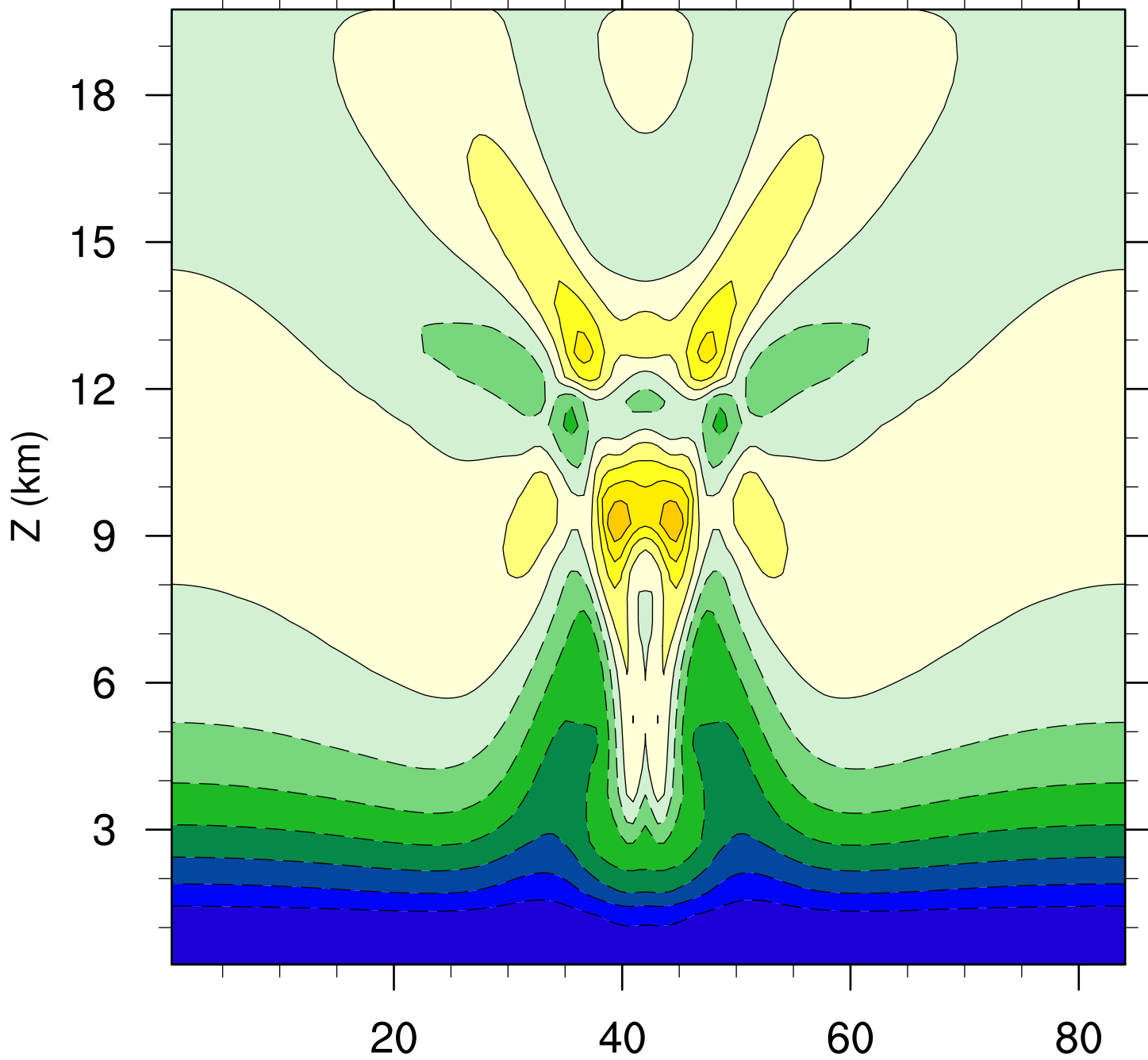


X (km)



perturbation theta, x=50.4km at 1800s

MPAS

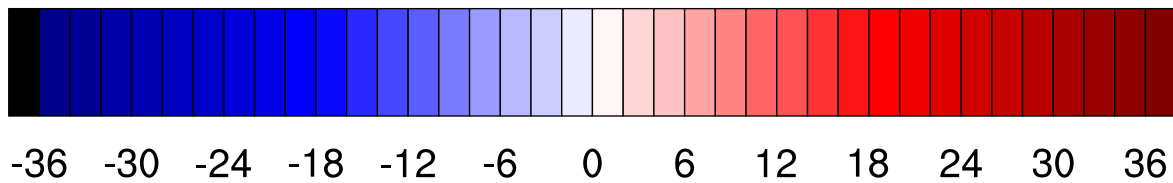
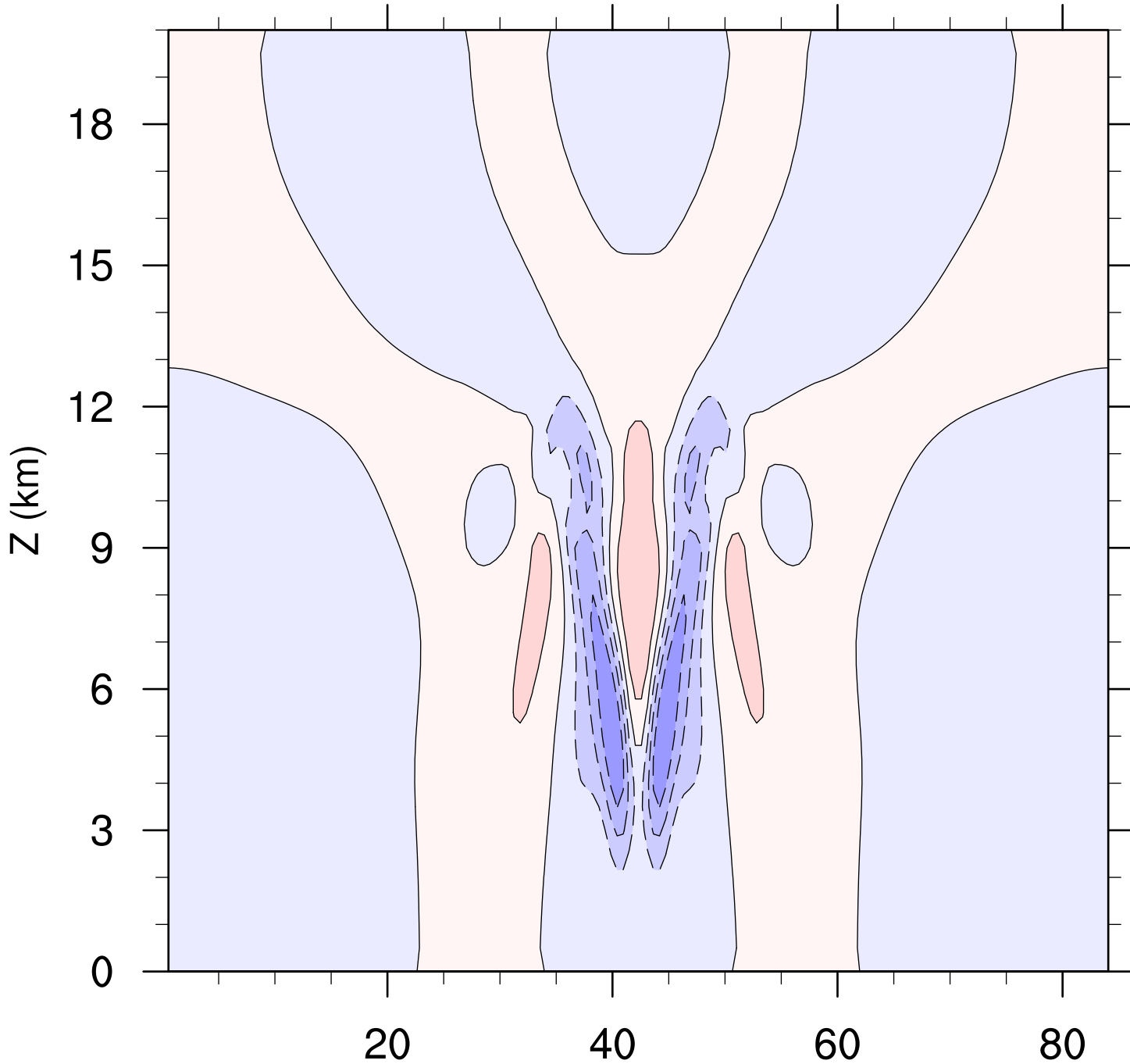


-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

Y (km)

w, x=50.4km at 1800s

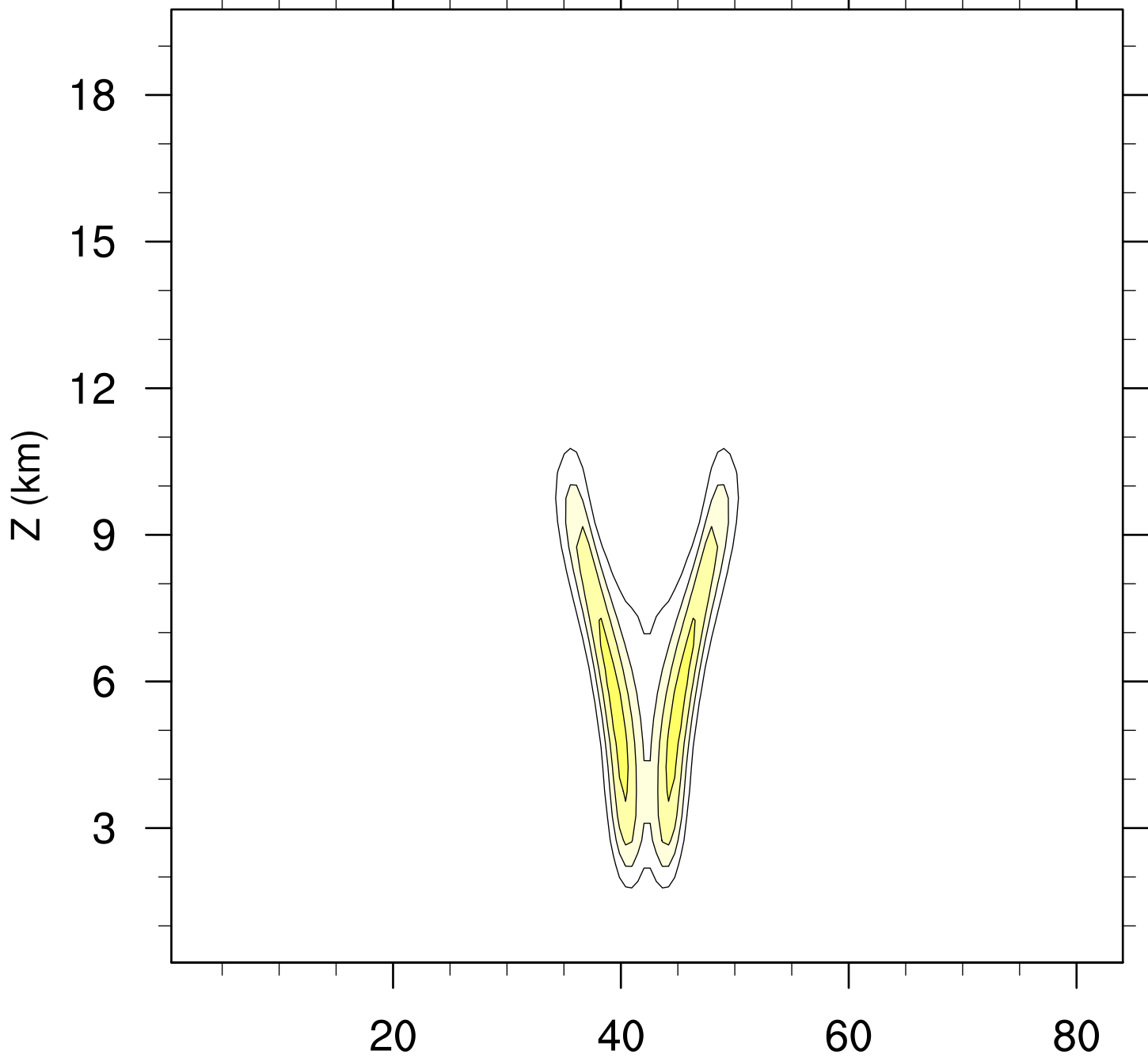
MPAS



Y (km)

qr, x=50.4km at 1800s

MPAS

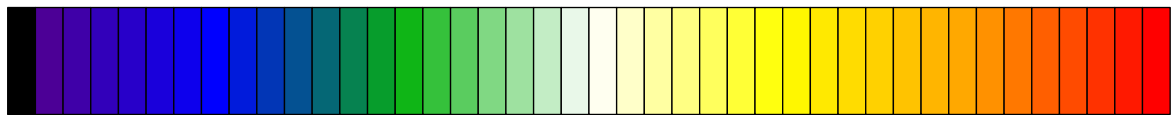
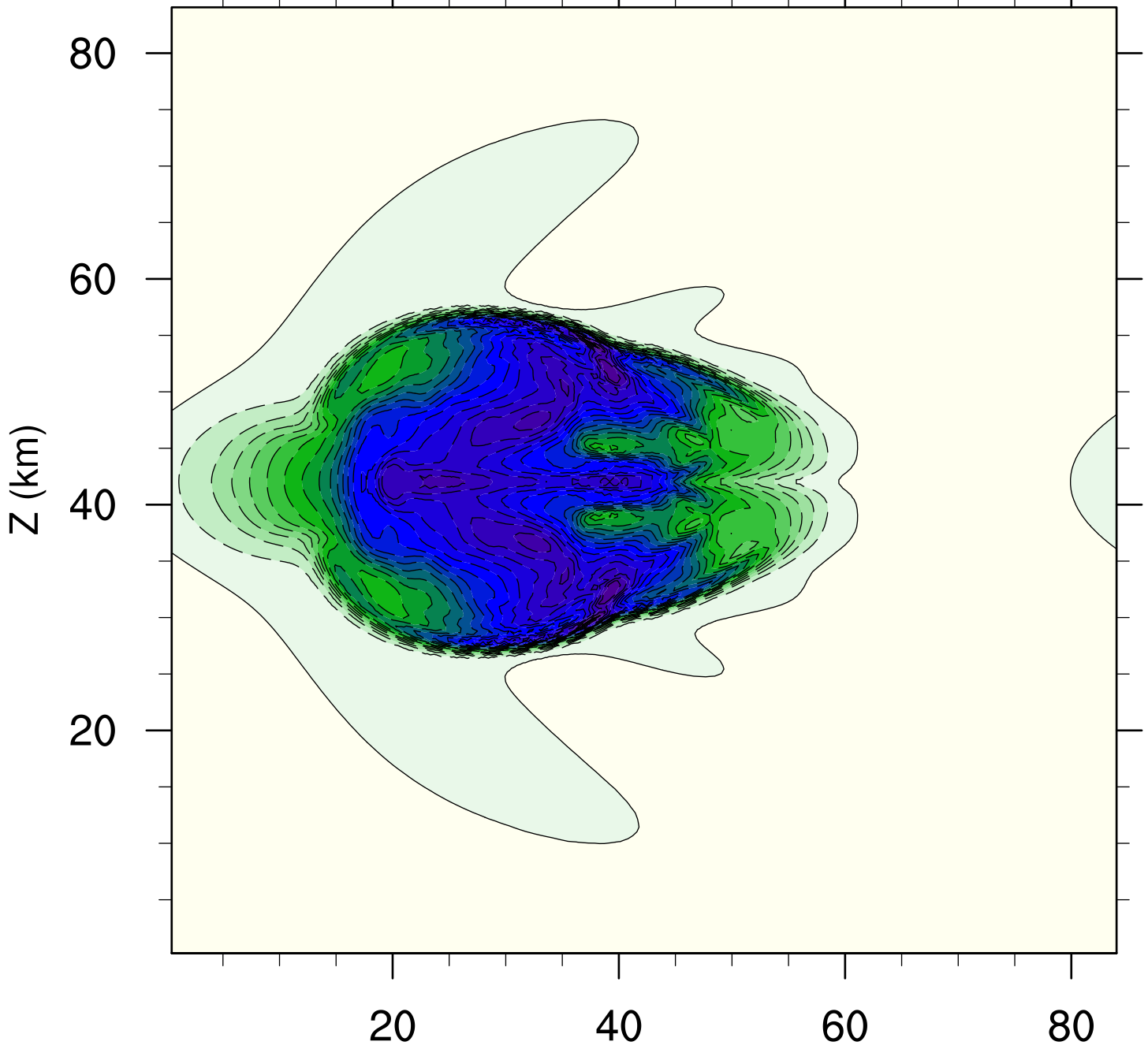


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Y (km)

perturbation theta, Level 1 at 3600s

MPAS

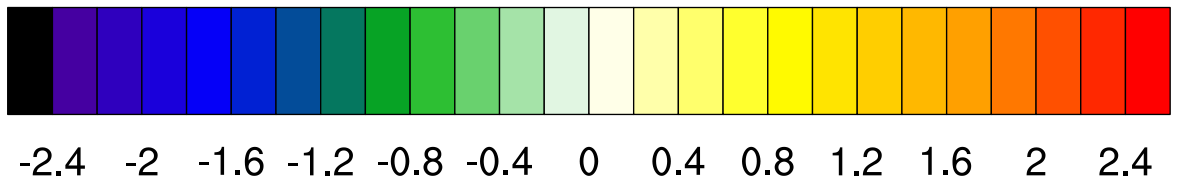
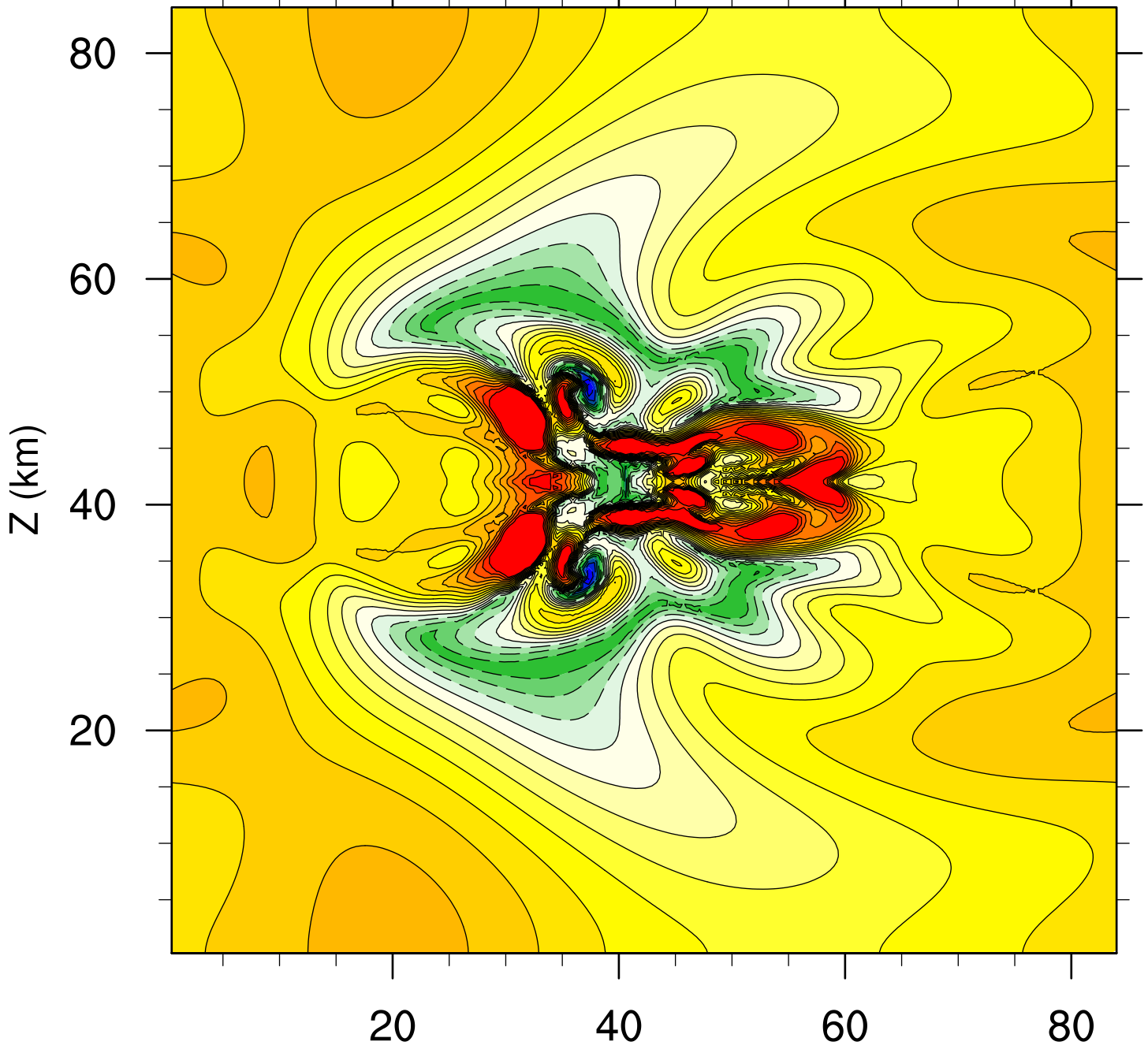


-5.4 -4.5 -3.6 -2.7 -1.8 -0.9 0 0.9 1.8 2.7 3.6 4.5 5.4

Y (km)

perturbation theta, Level 5 at 3600s

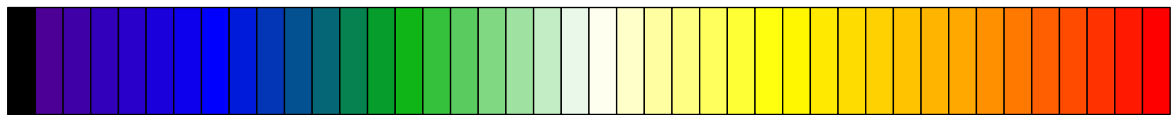
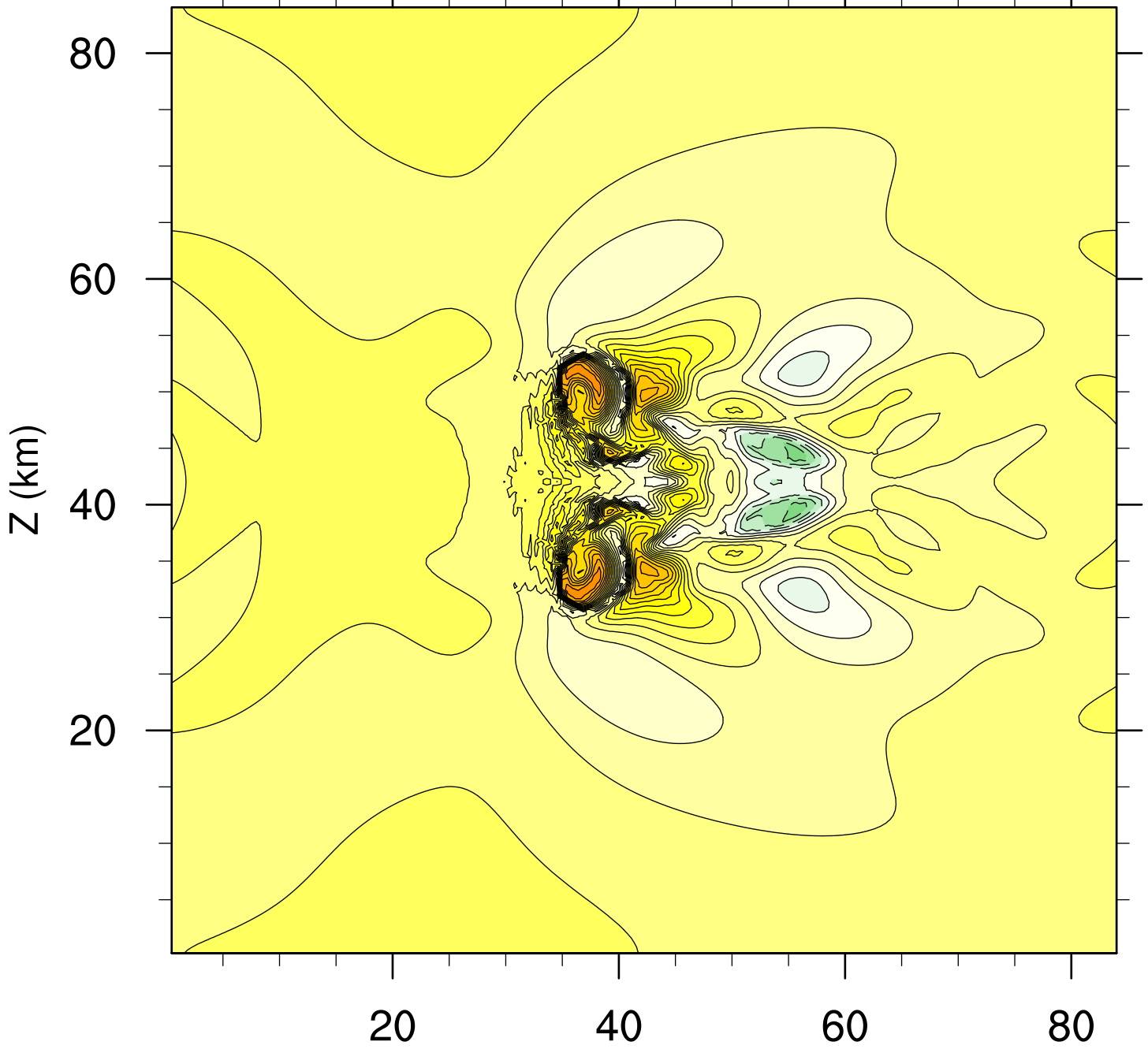
MPAS



Y (km)

perturbation theta, Level 10 at 3600s

MPAS

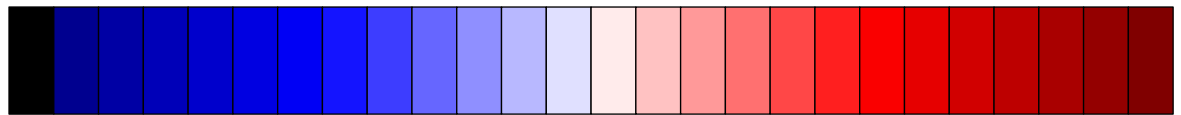
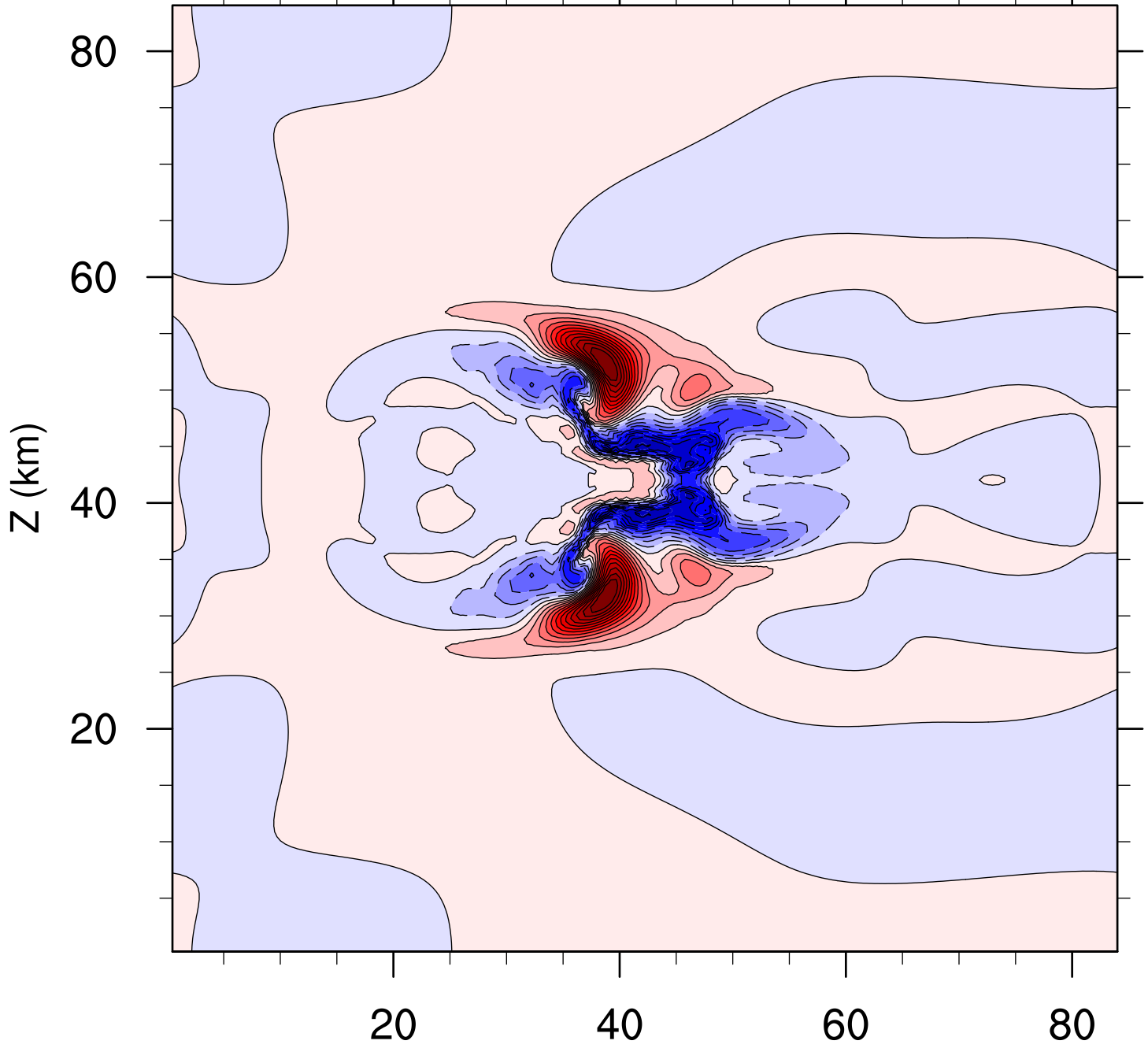


-7.2 -6 -4.8 -3.6 -2.4 -1.2 0 1.2 2.4 3.6 4.8 6 7.2

Y (km)

w, Level 5 at 3600s

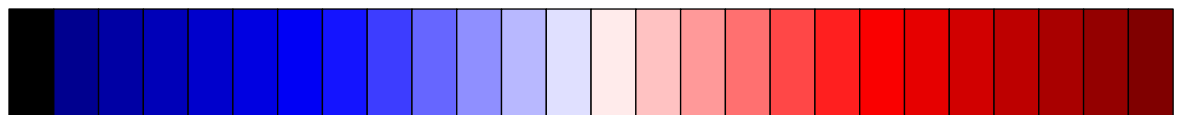
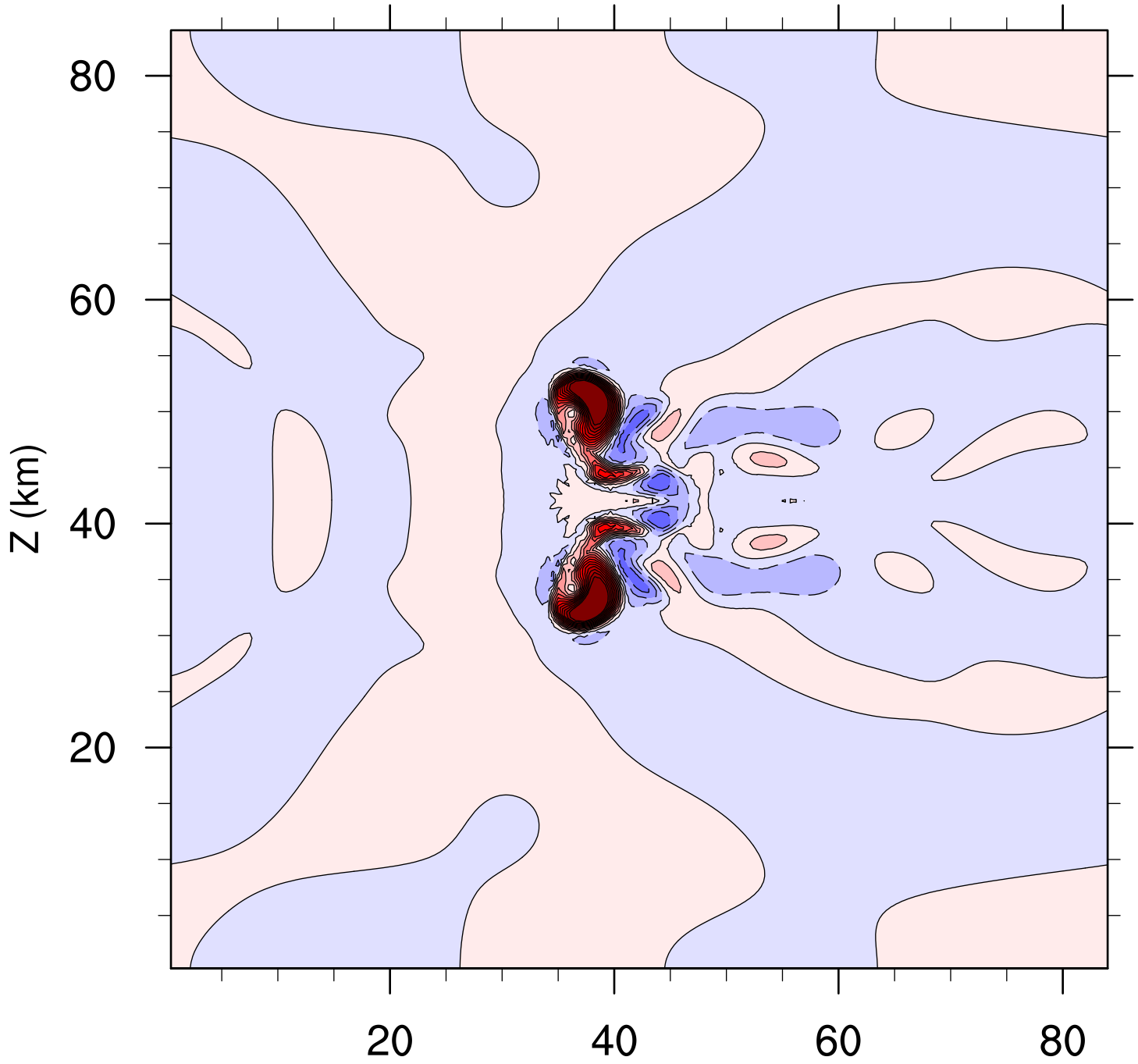
MPAS



$Y$  (km)

w, Level 10 at 3600s

MPAS

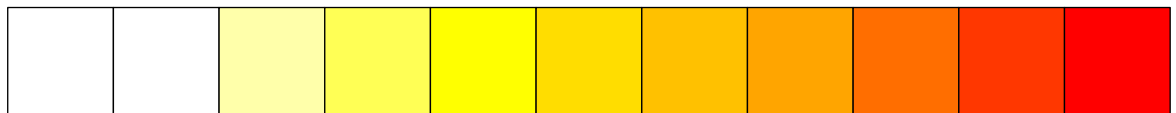
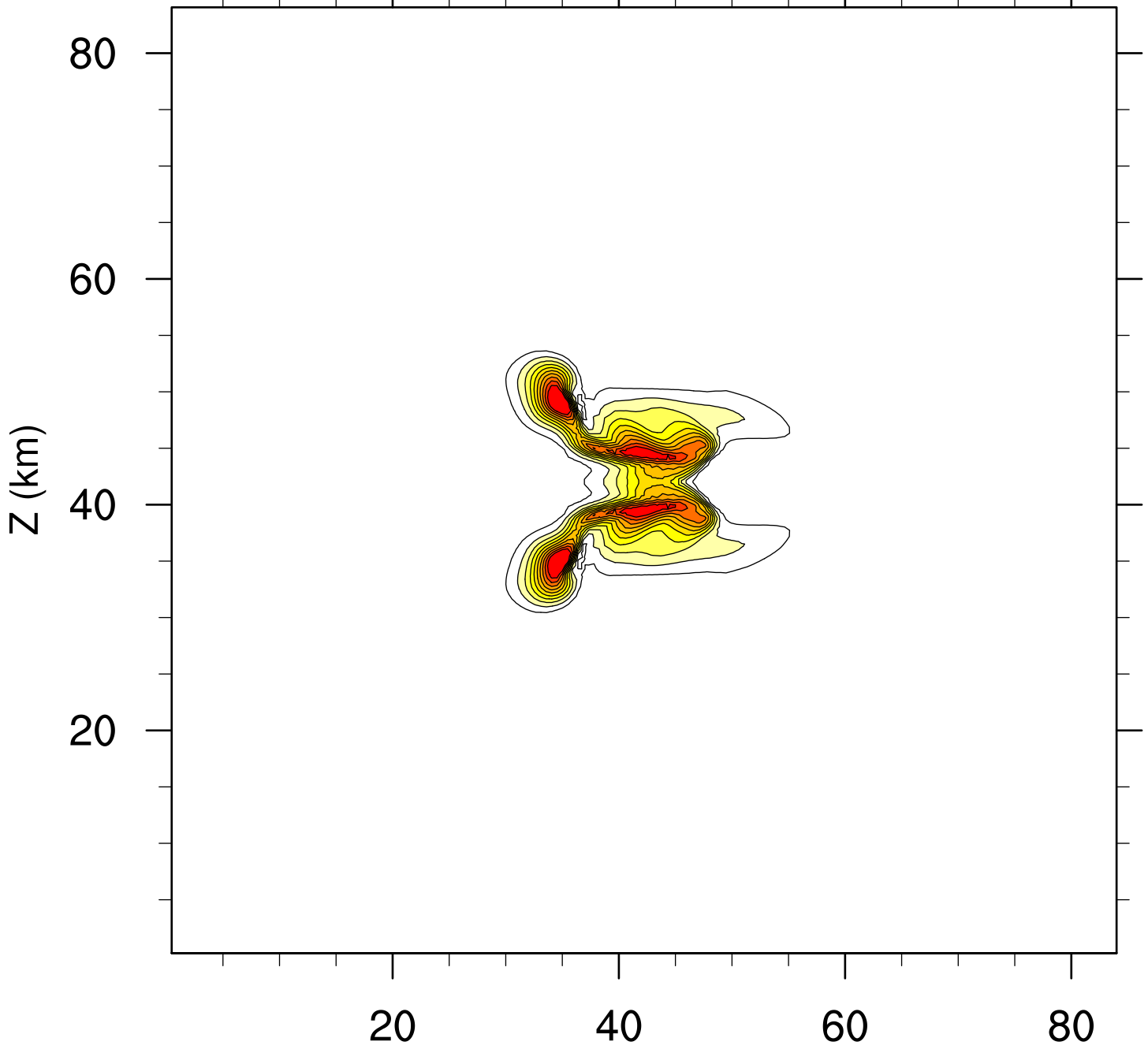


$Y$  (km)



qr, Level 1 at 3600s

MPAS

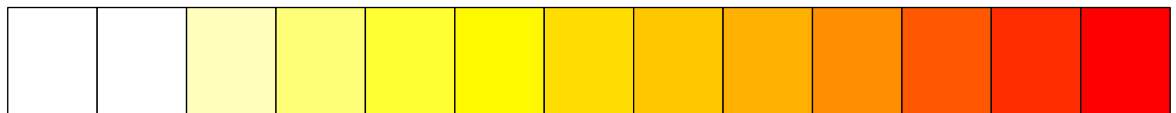
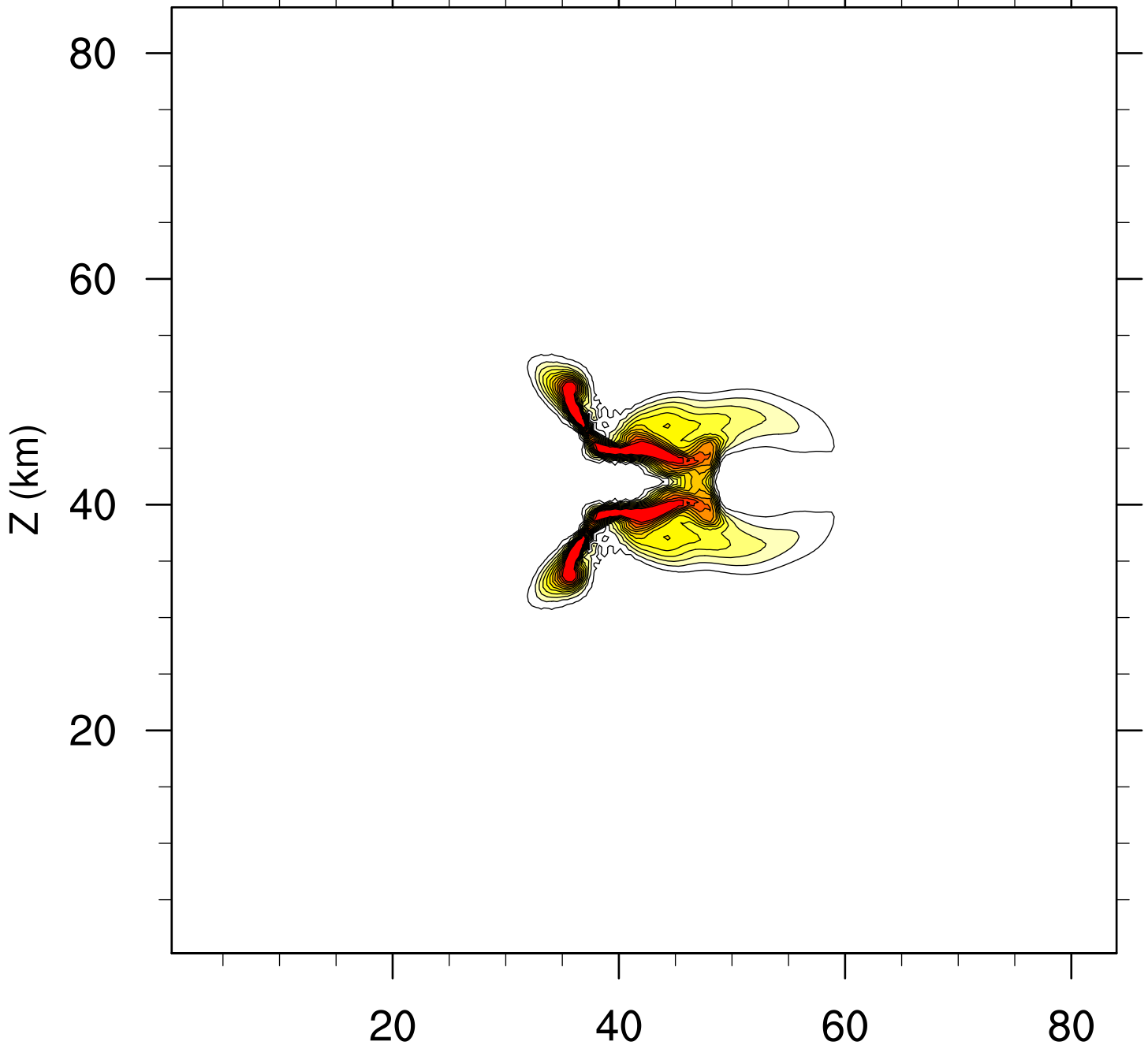


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

Y (km)

qr, Level 5 at 3600s

MPAS

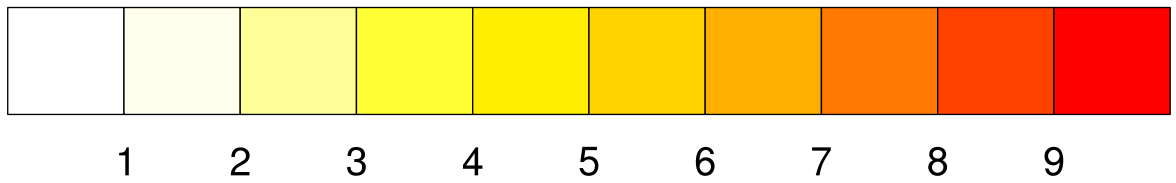
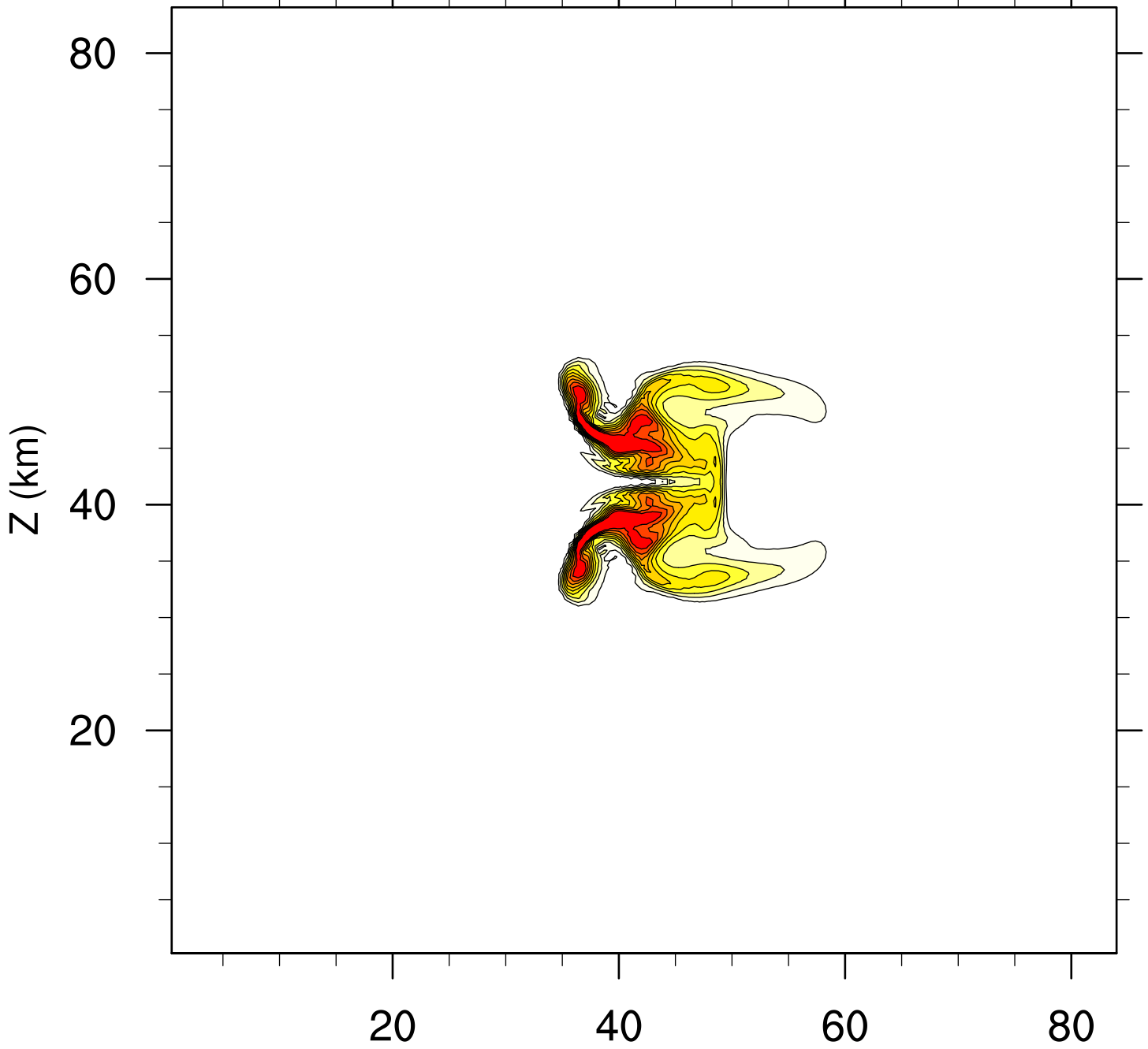


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6

Y (km)

qr, Level 10 at 3600s

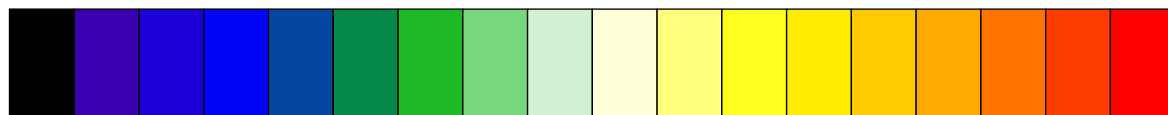
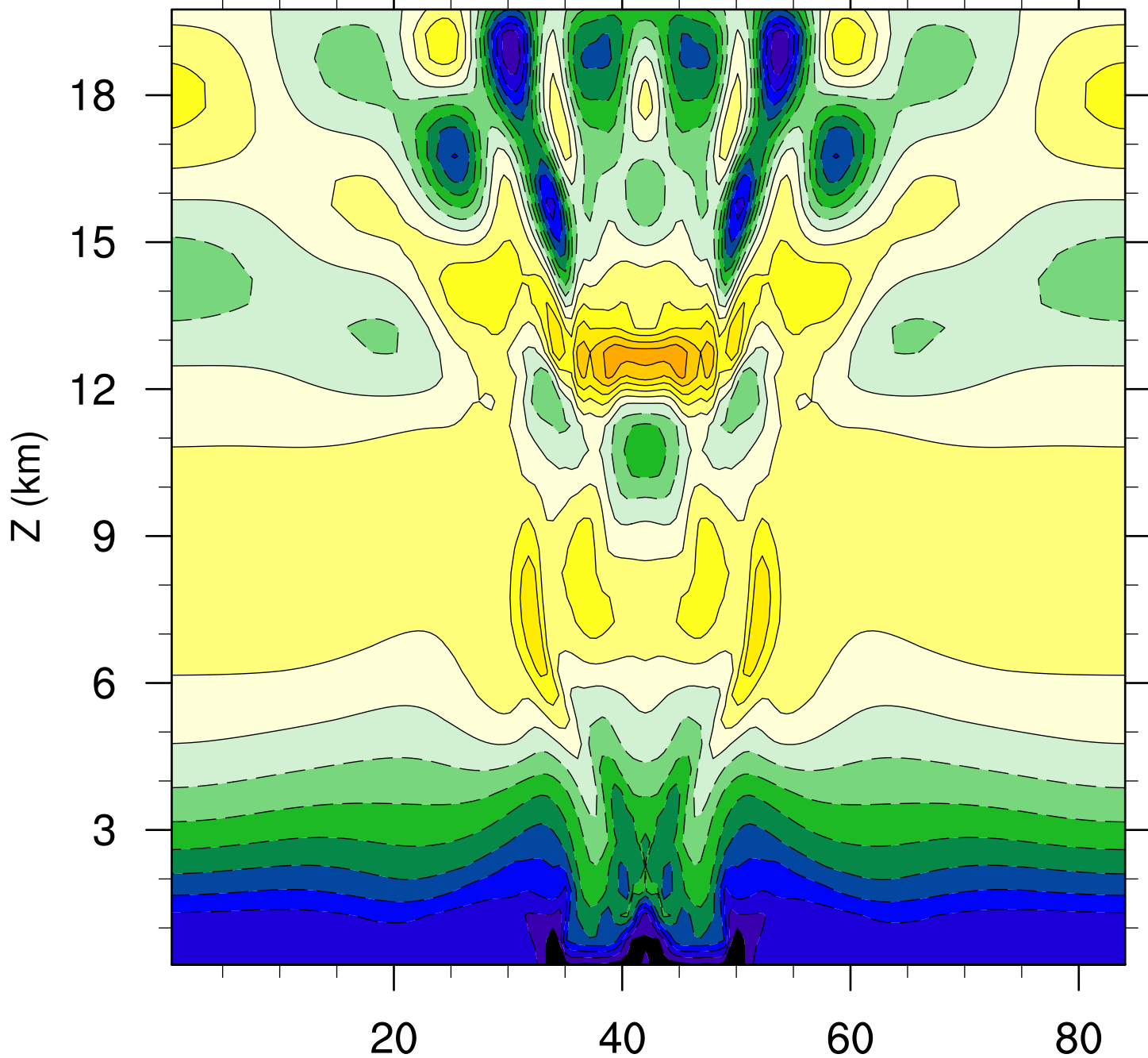
MPAS



Y (km)

perturbation theta, x=50.4km at 3600s

MPAS

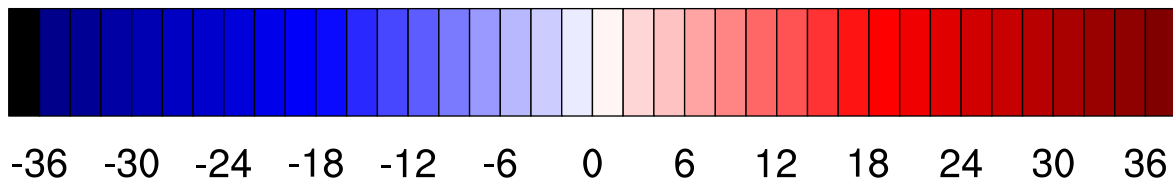
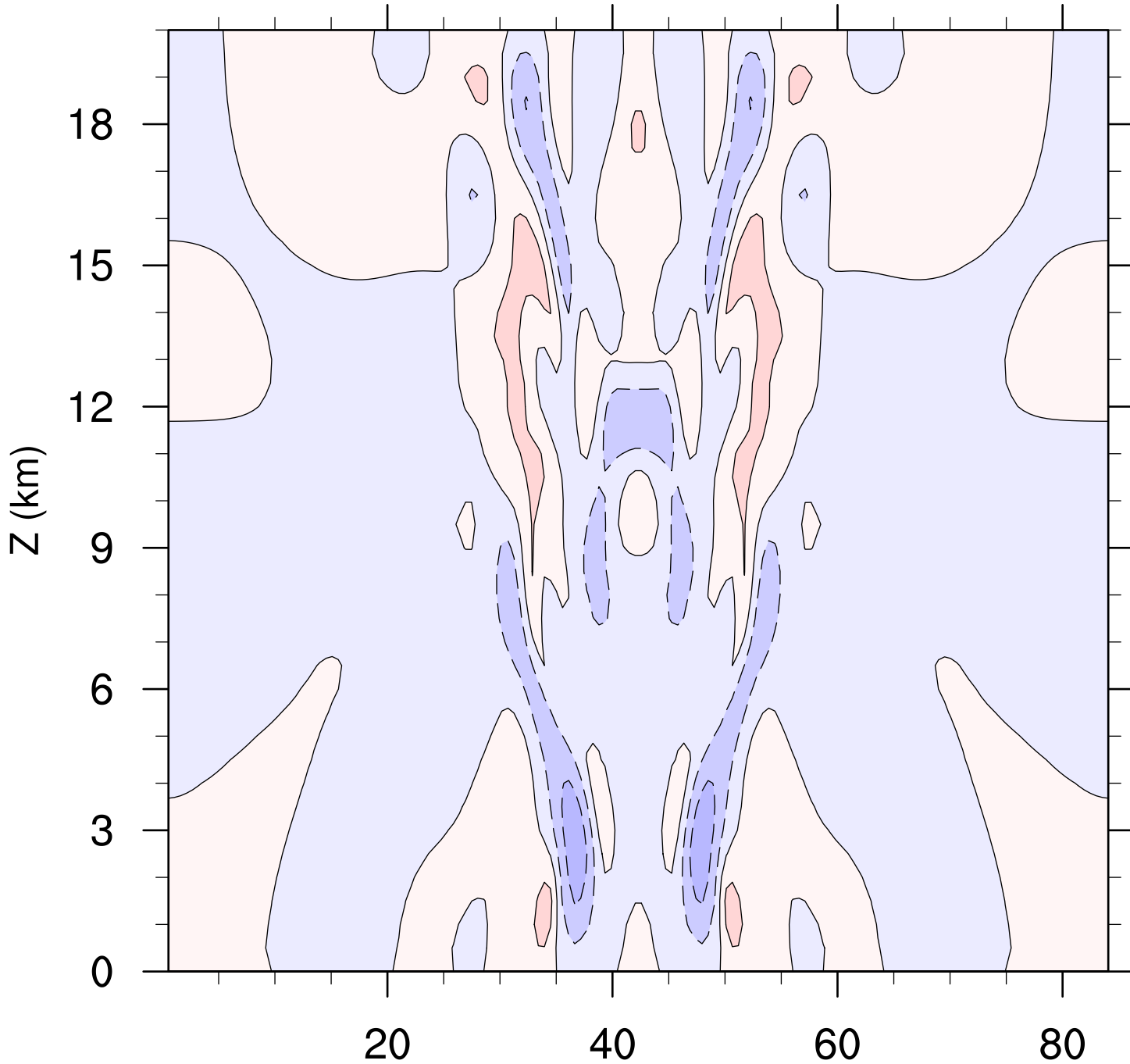


-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

Y (km)

w, x=50.4km at 3600s

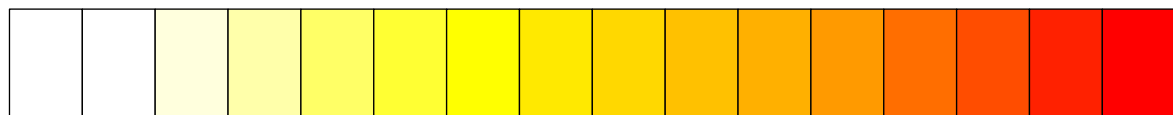
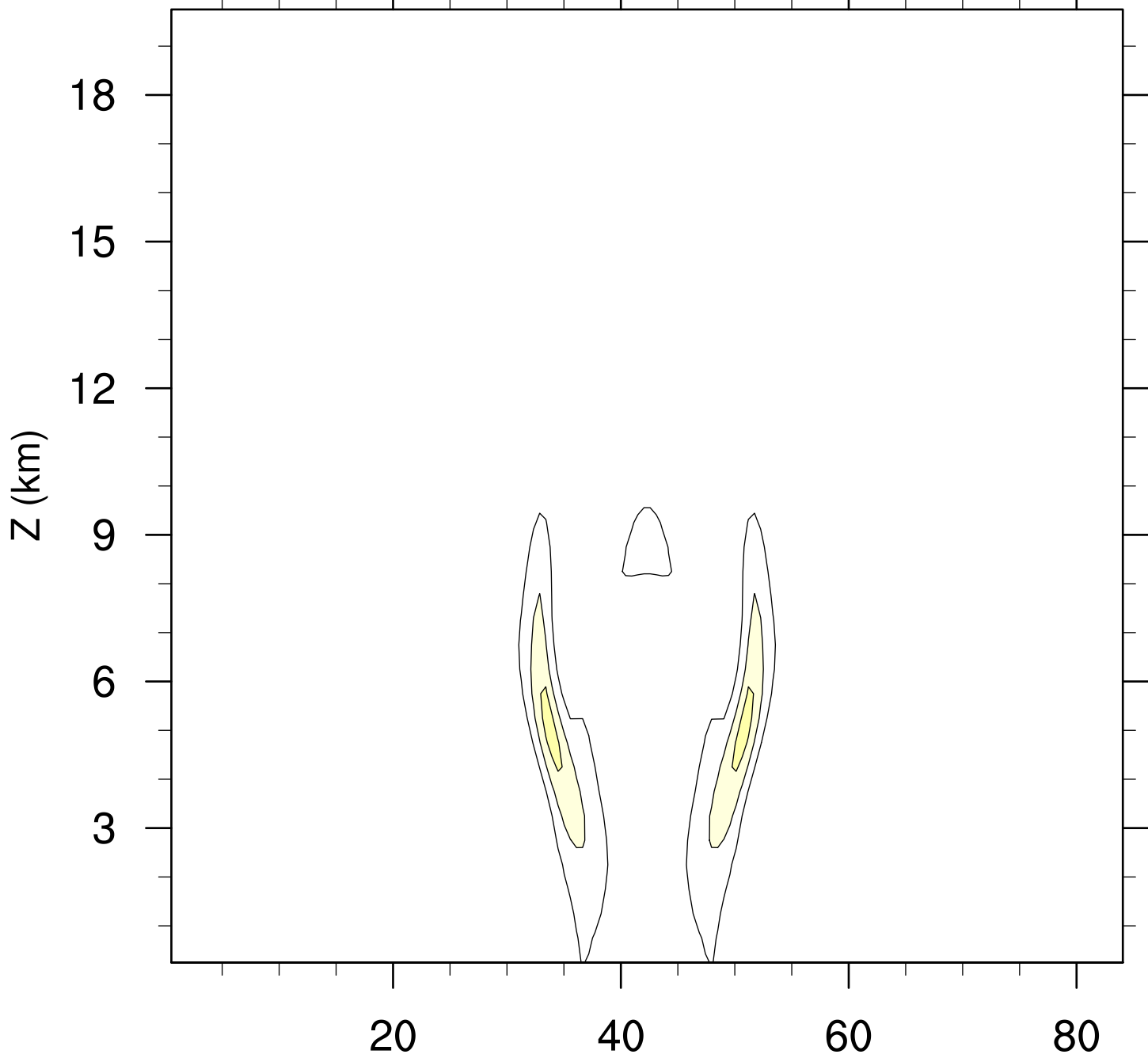
MPAS



Y (km)

qr, x=50.4km at 3600s

MPAS

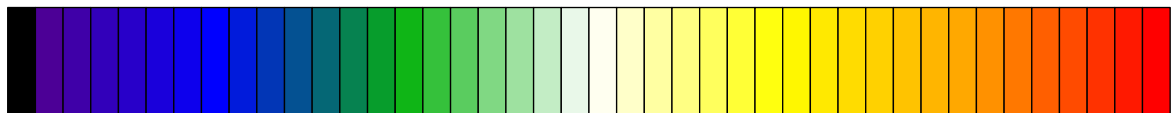
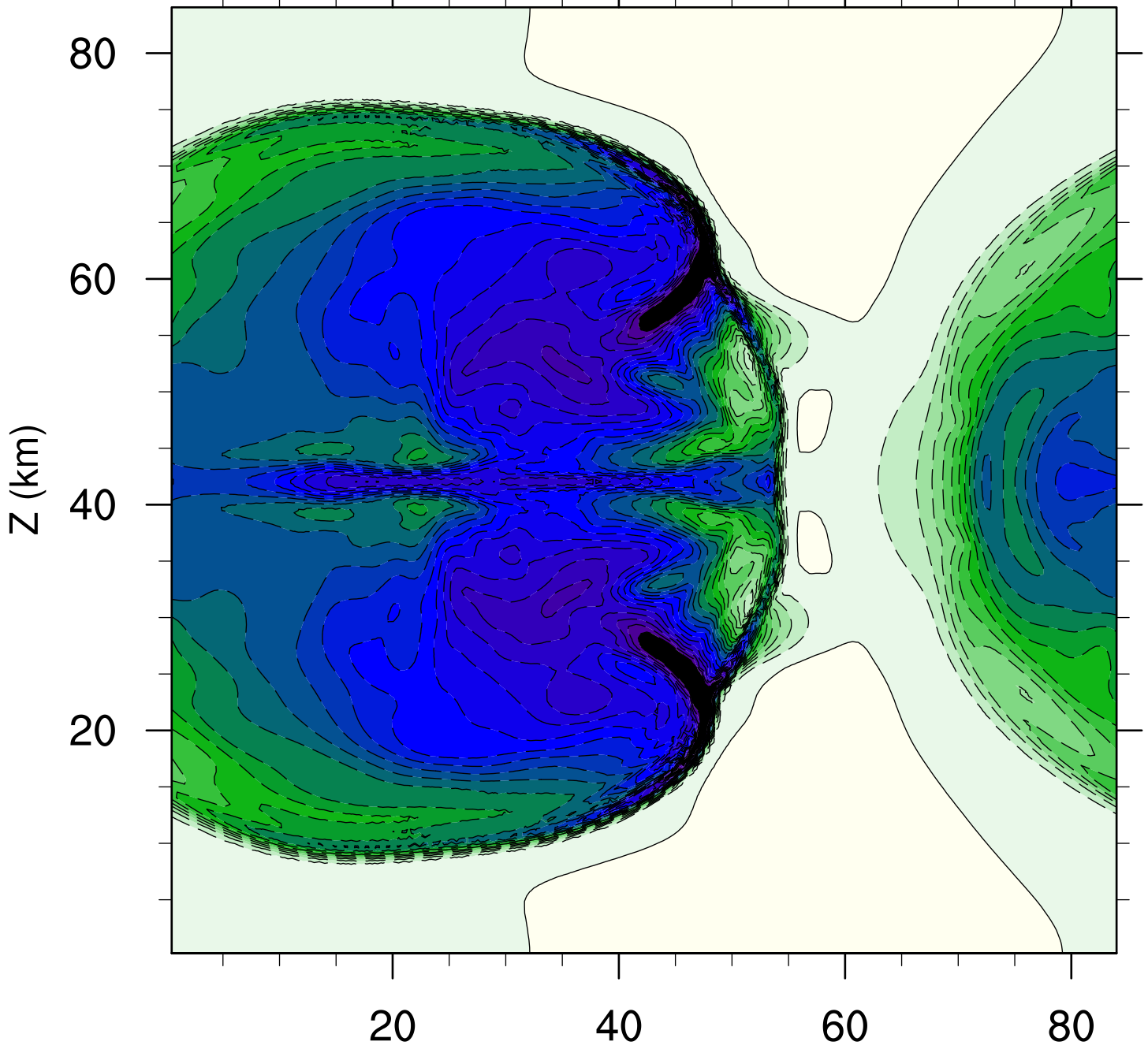


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Y (km)

perturbation theta, Level 1 at 5400s

MPAS

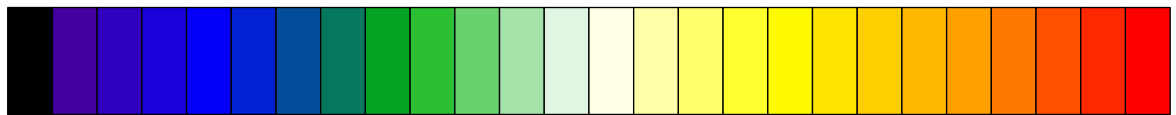
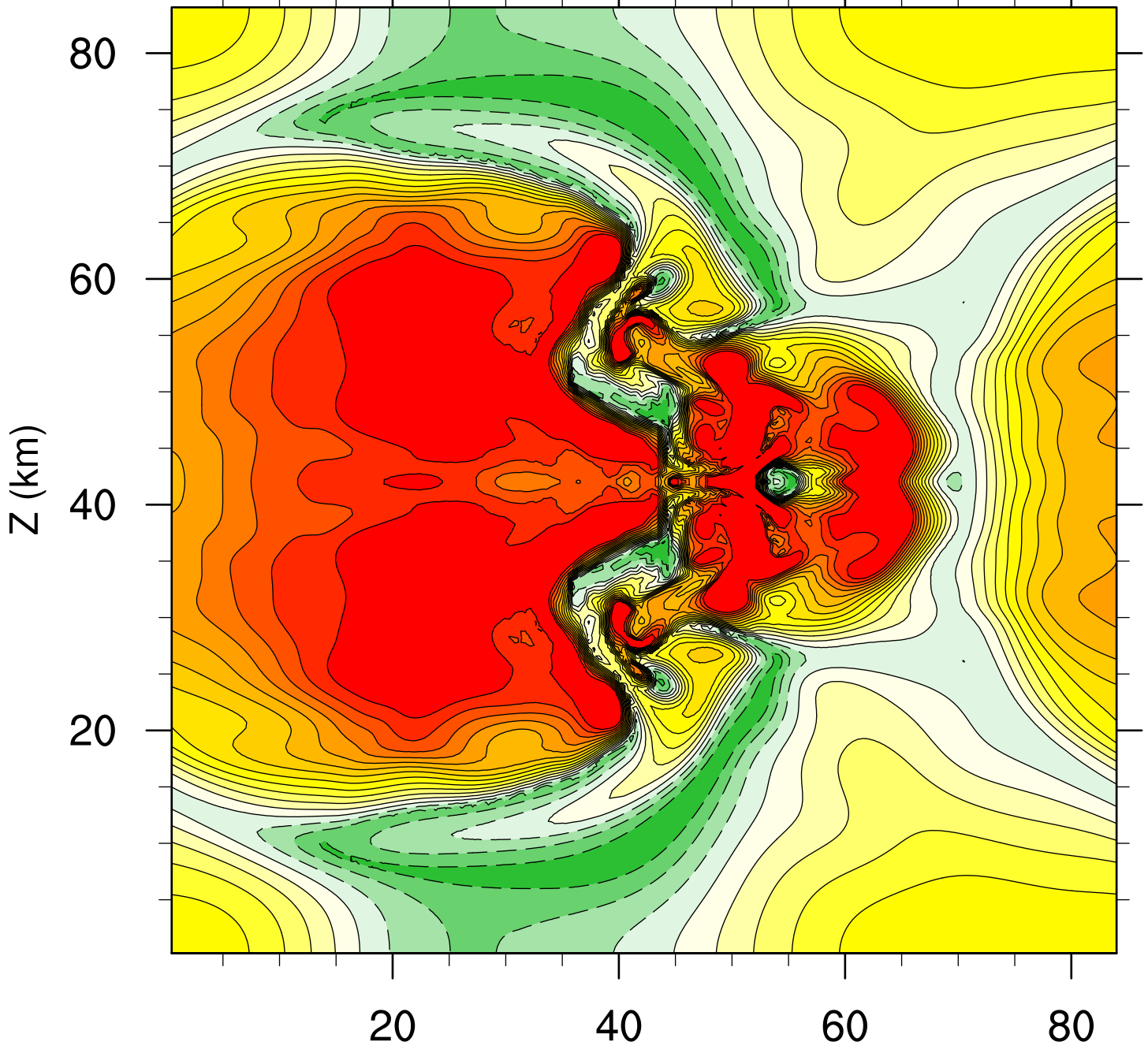


-5.4 -4.5 -3.6 -2.7 -1.8 -0.9 0 0.9 1.8 2.7 3.6 4.5 5.4

Y (km)

perturbation theta, Level 5 at 5400s

MPAS

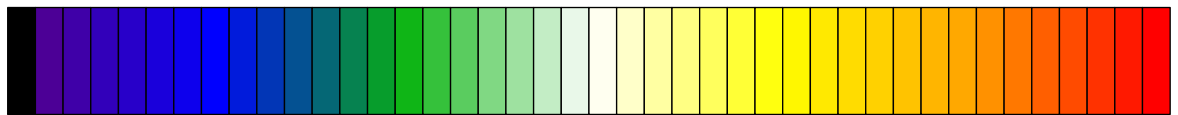
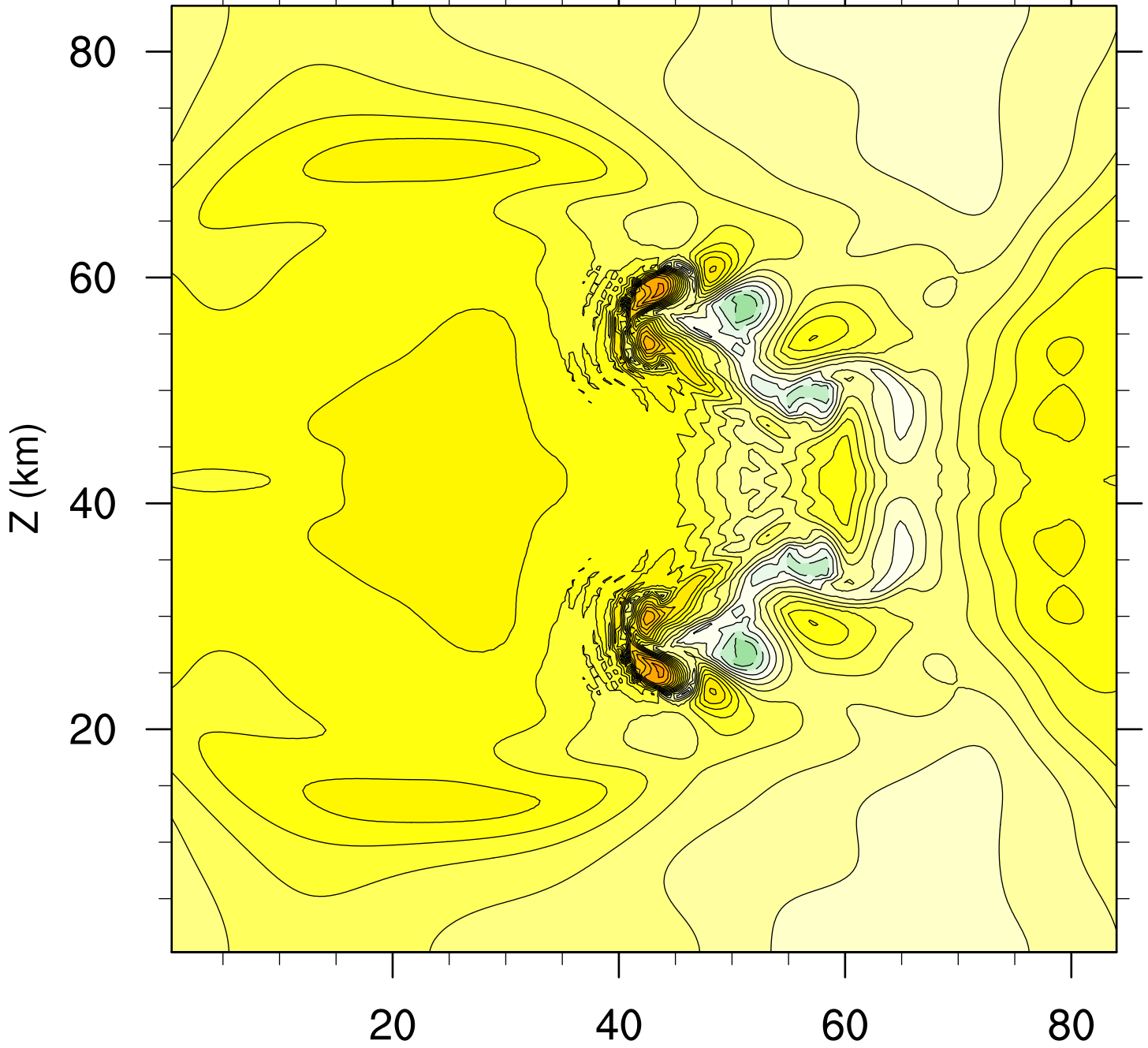


Y (km)



perturbation theta, Level 10 at 5400s

MPAS

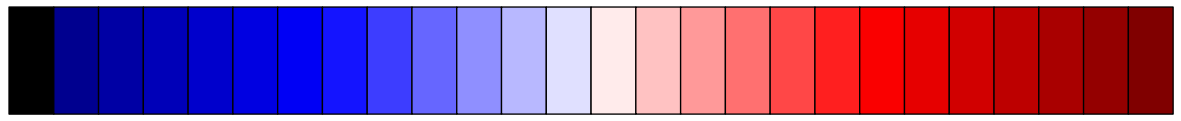
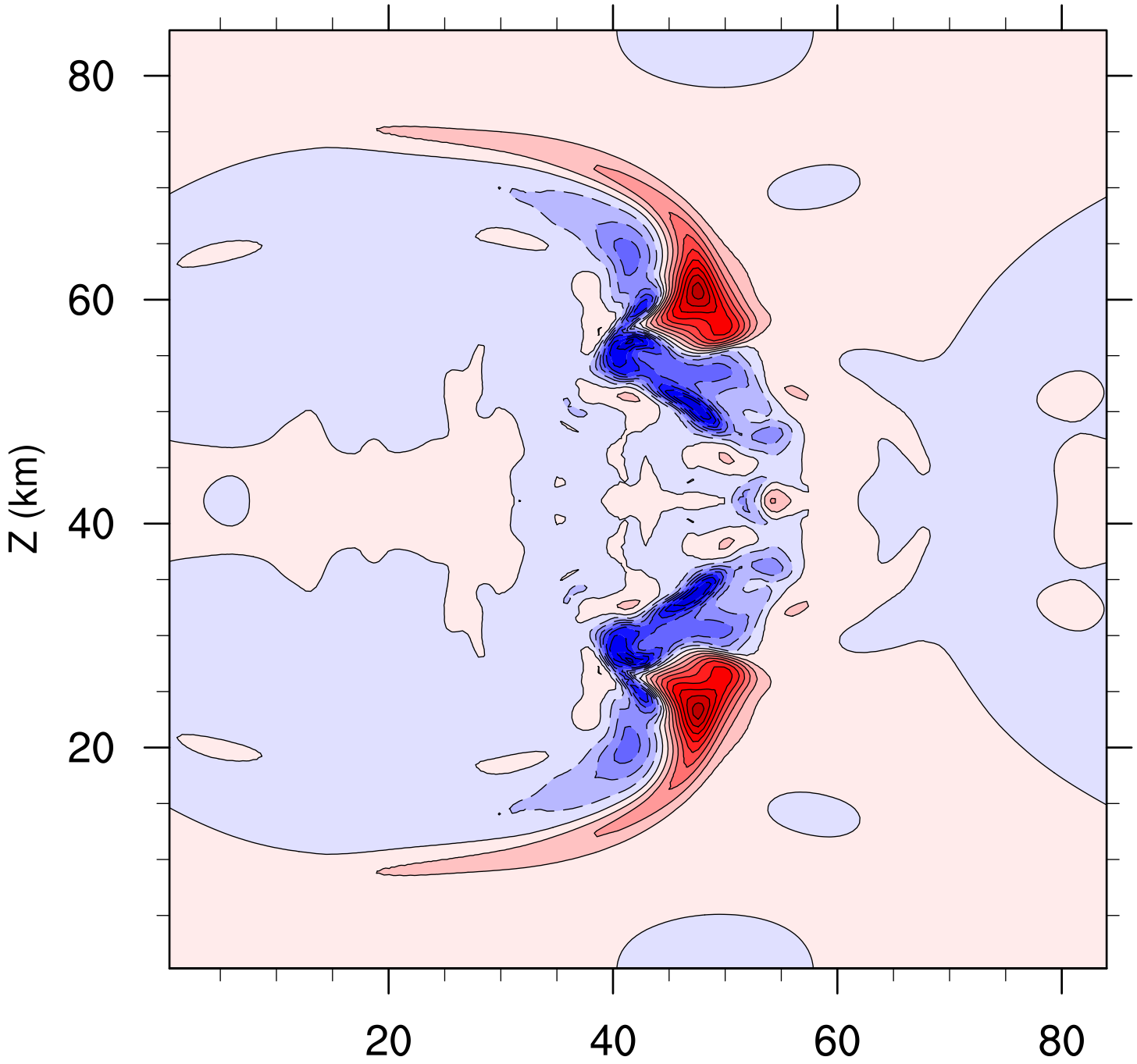


-7.2 -6 -4.8 -3.6 -2.4 -1.2 0 1.2 2.4 3.6 4.8 6 7.2

Y (km)

w, Level 5 at 5400s

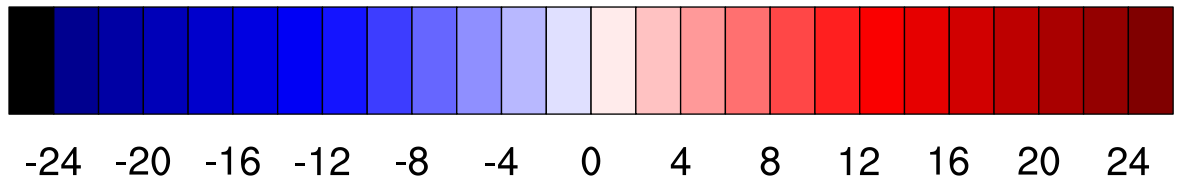
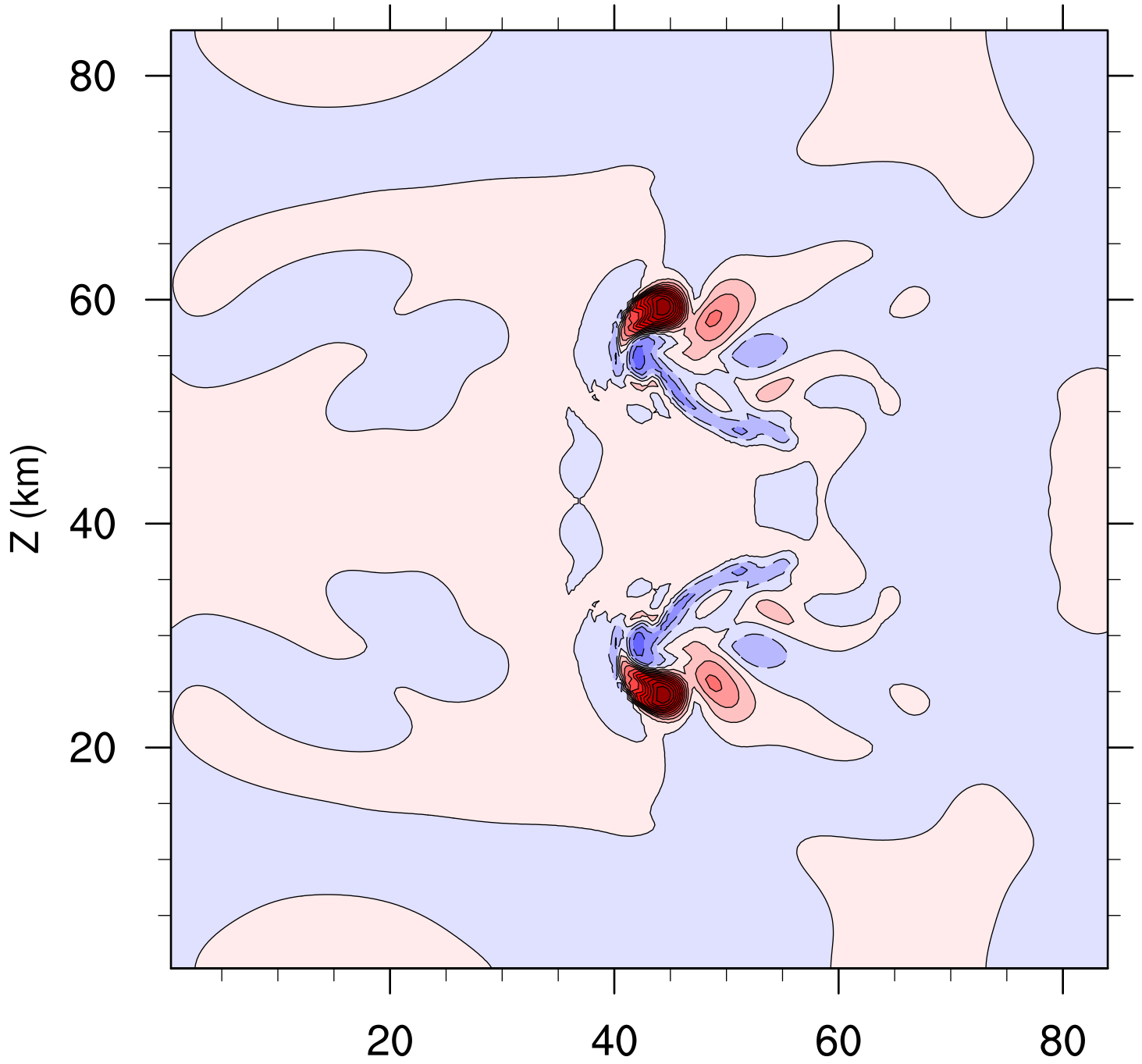
MPAS



$Y$  (km)

w, Level 10 at 5400s

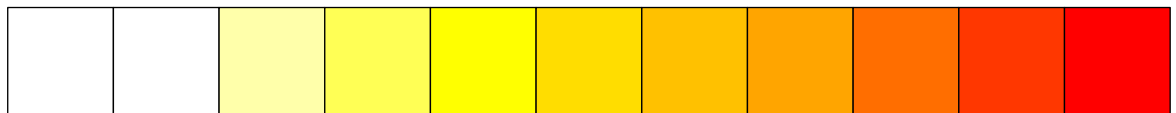
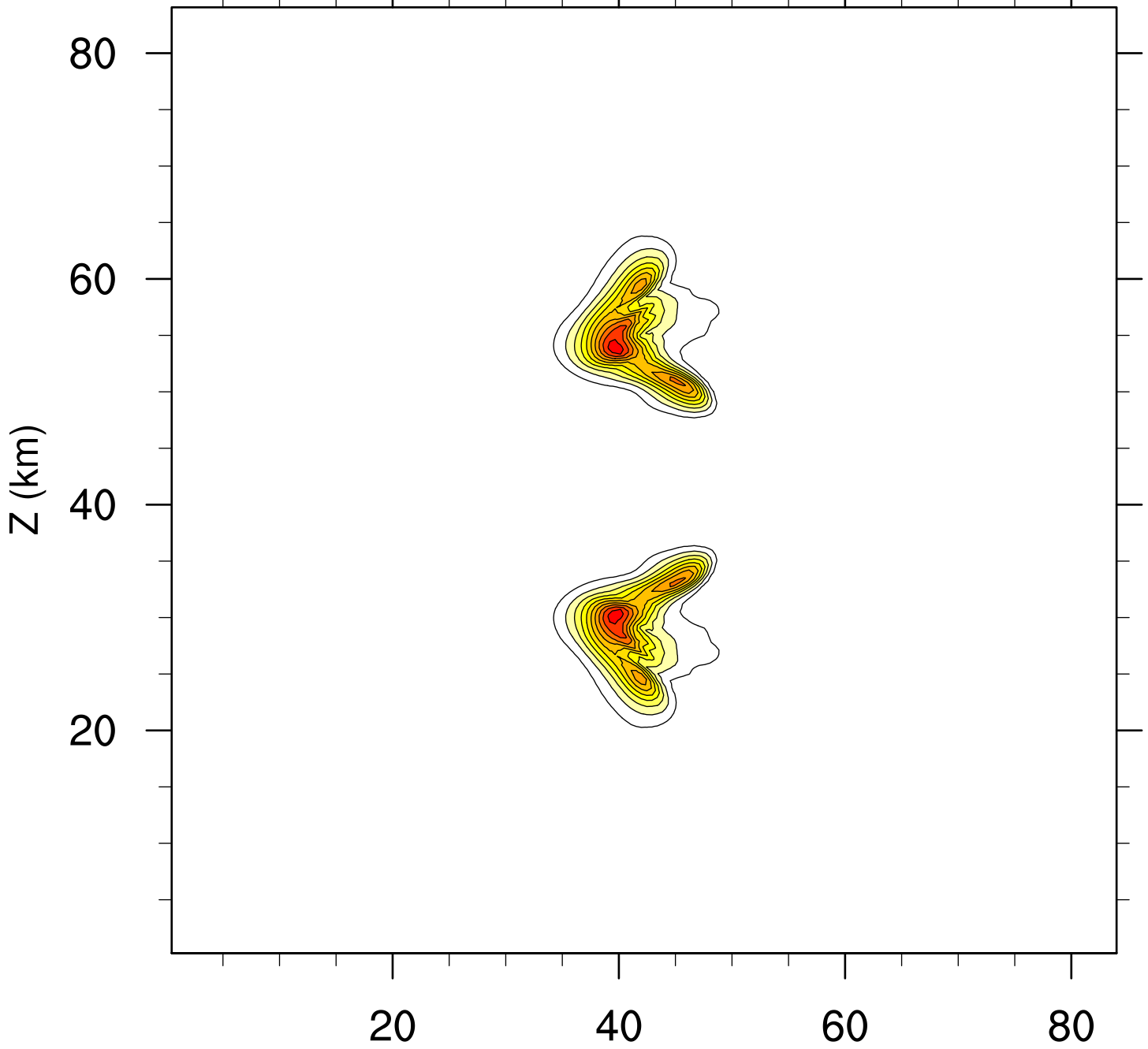
MPAS



$Y$  (km)

qr, Level 1 at 5400s

MPAS

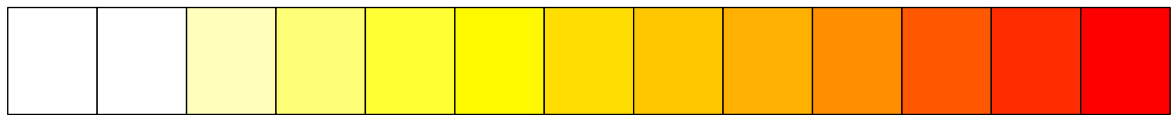
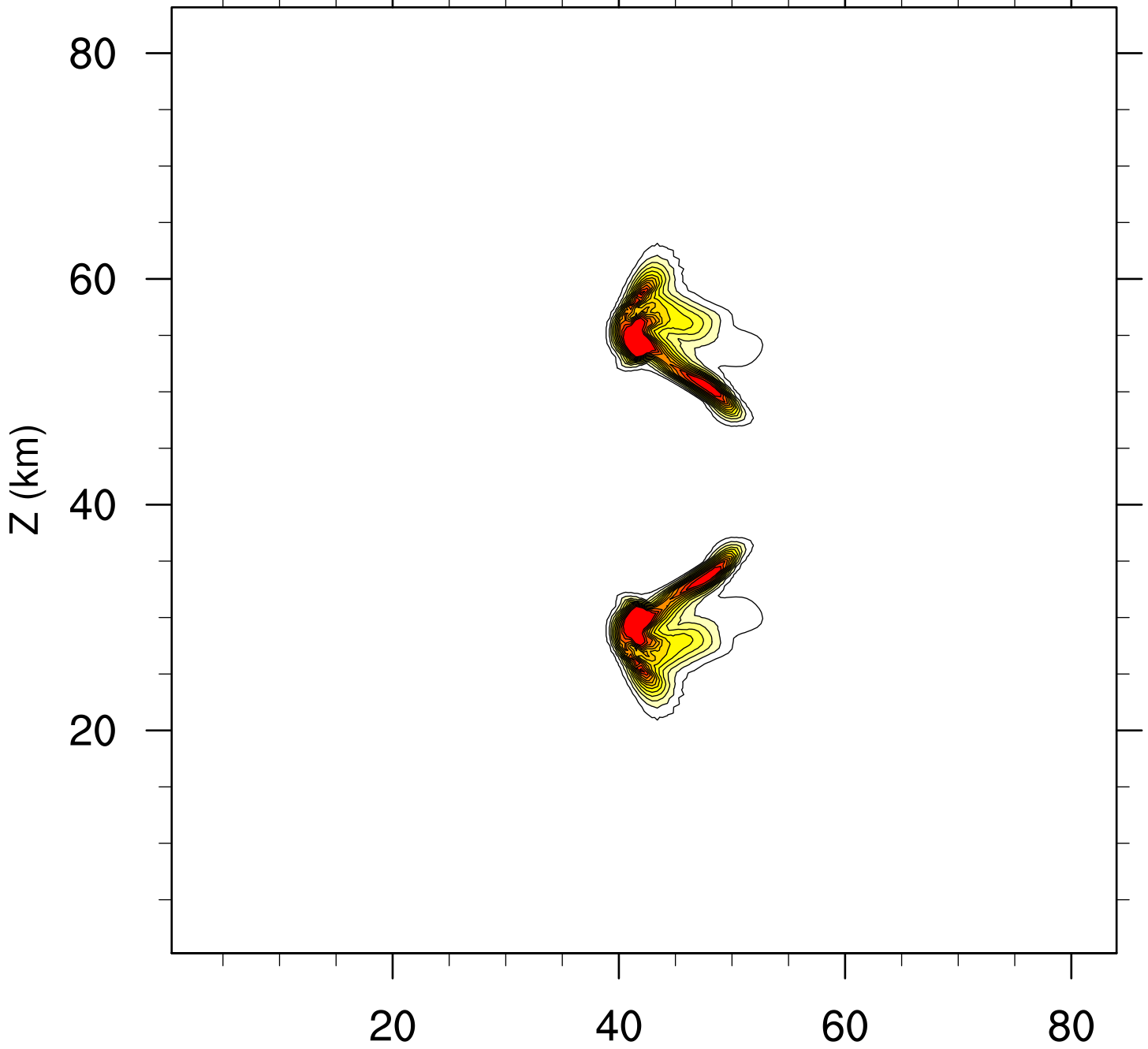


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

Y (km)

qr, Level 5 at 5400s

MPAS

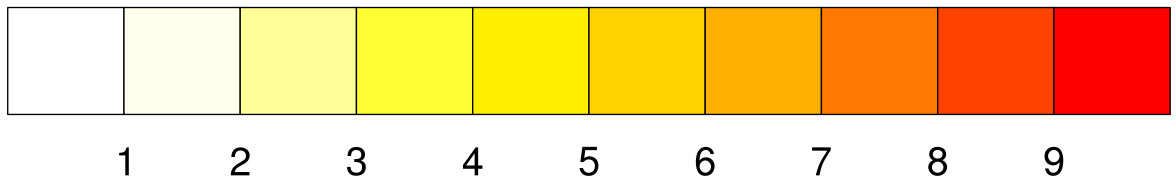
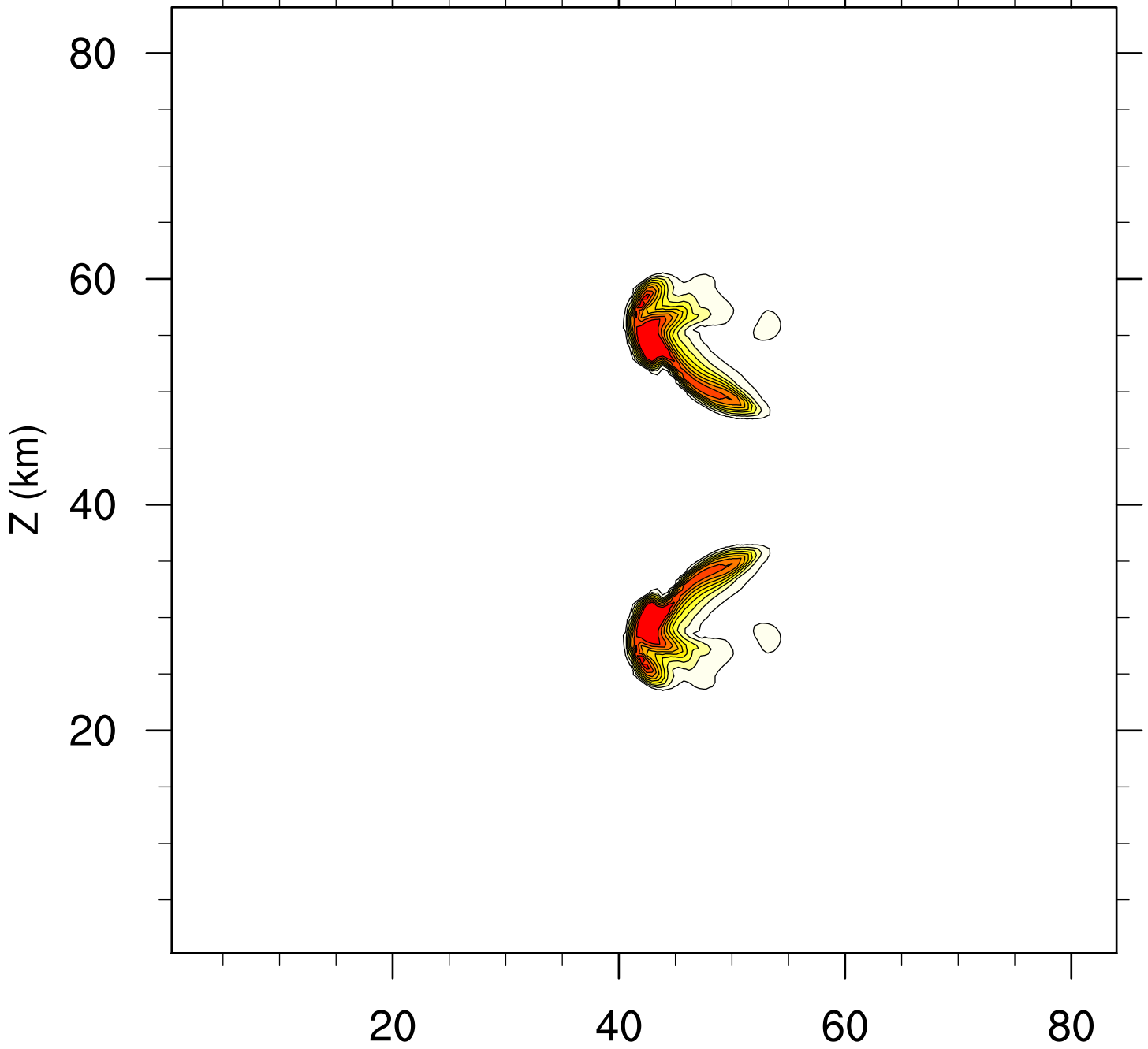


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6

Y (km)

qr, Level 10 at 5400s

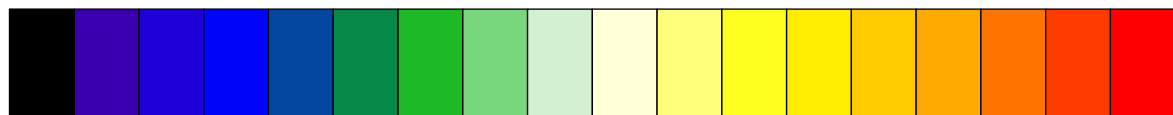
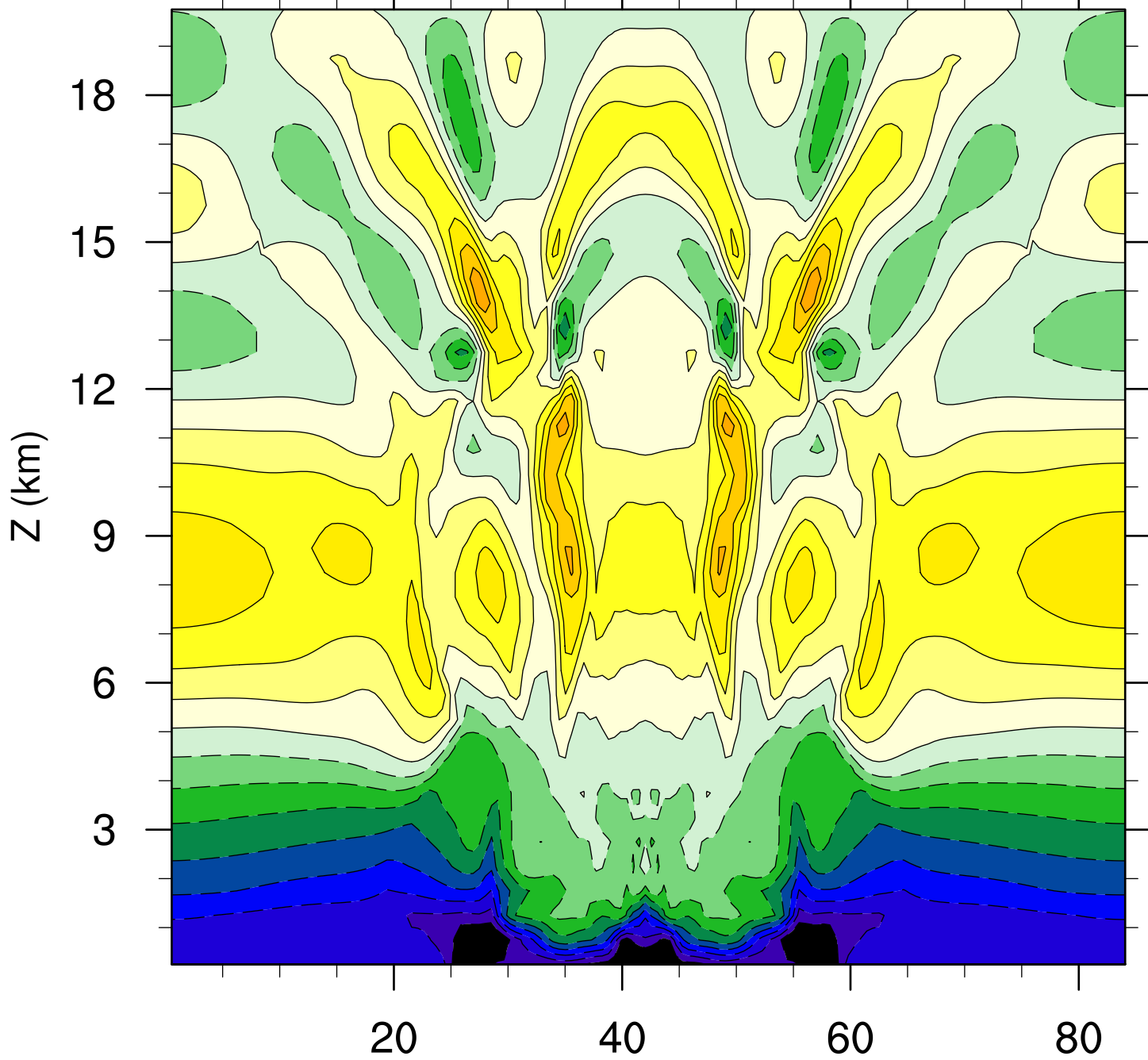
MPAS



Y (km)

perturbation theta, x=50.4km at 5400s

MPAS

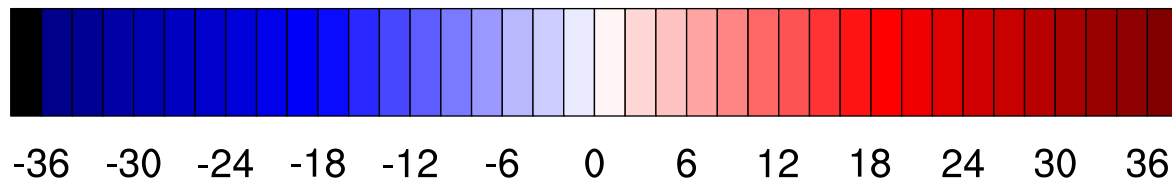
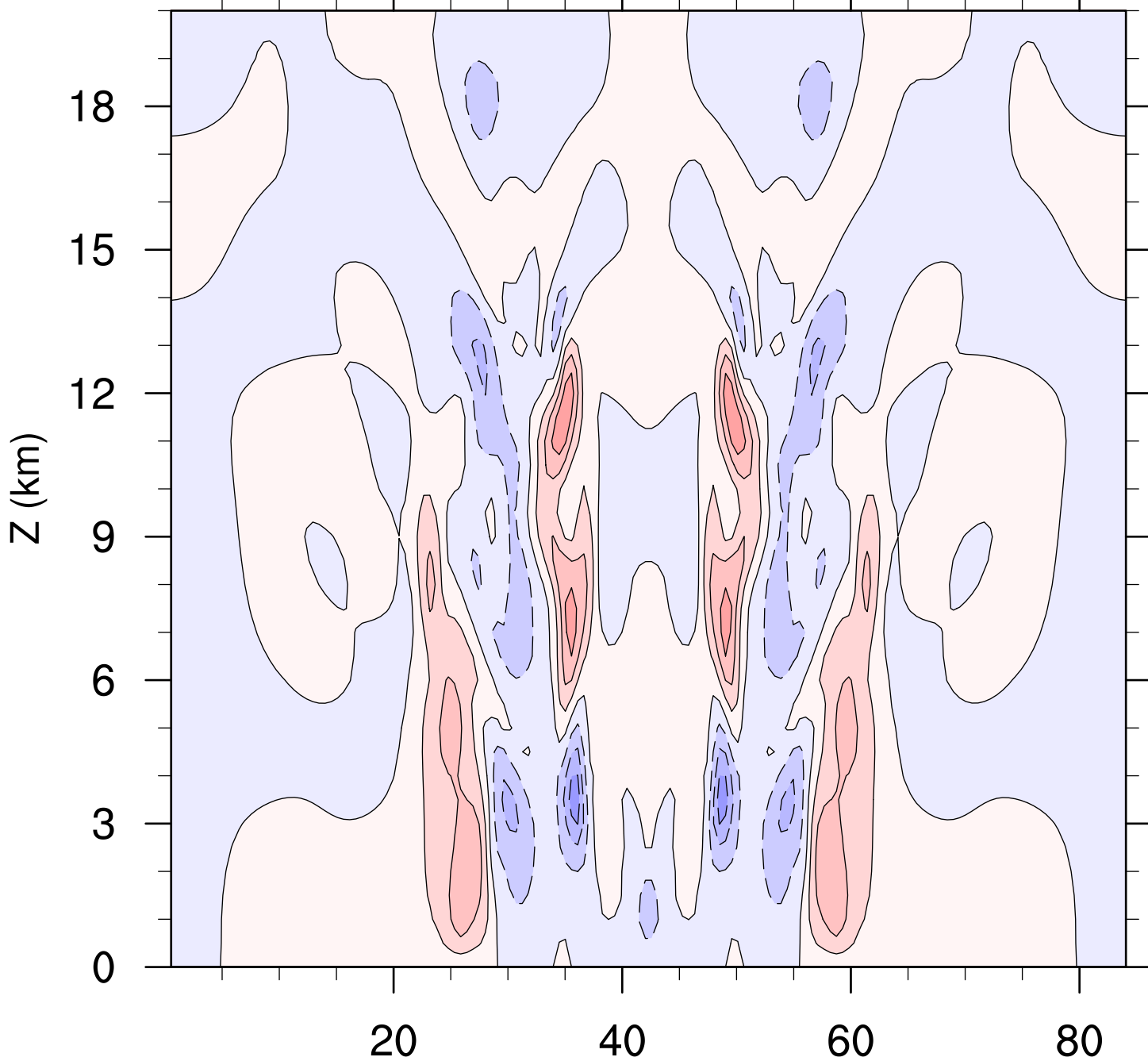


-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

Y (km)

w, x=50.4km at 5400s

MPAS

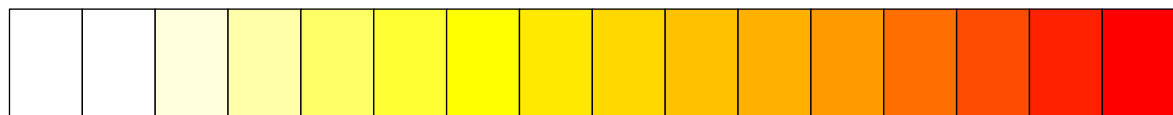
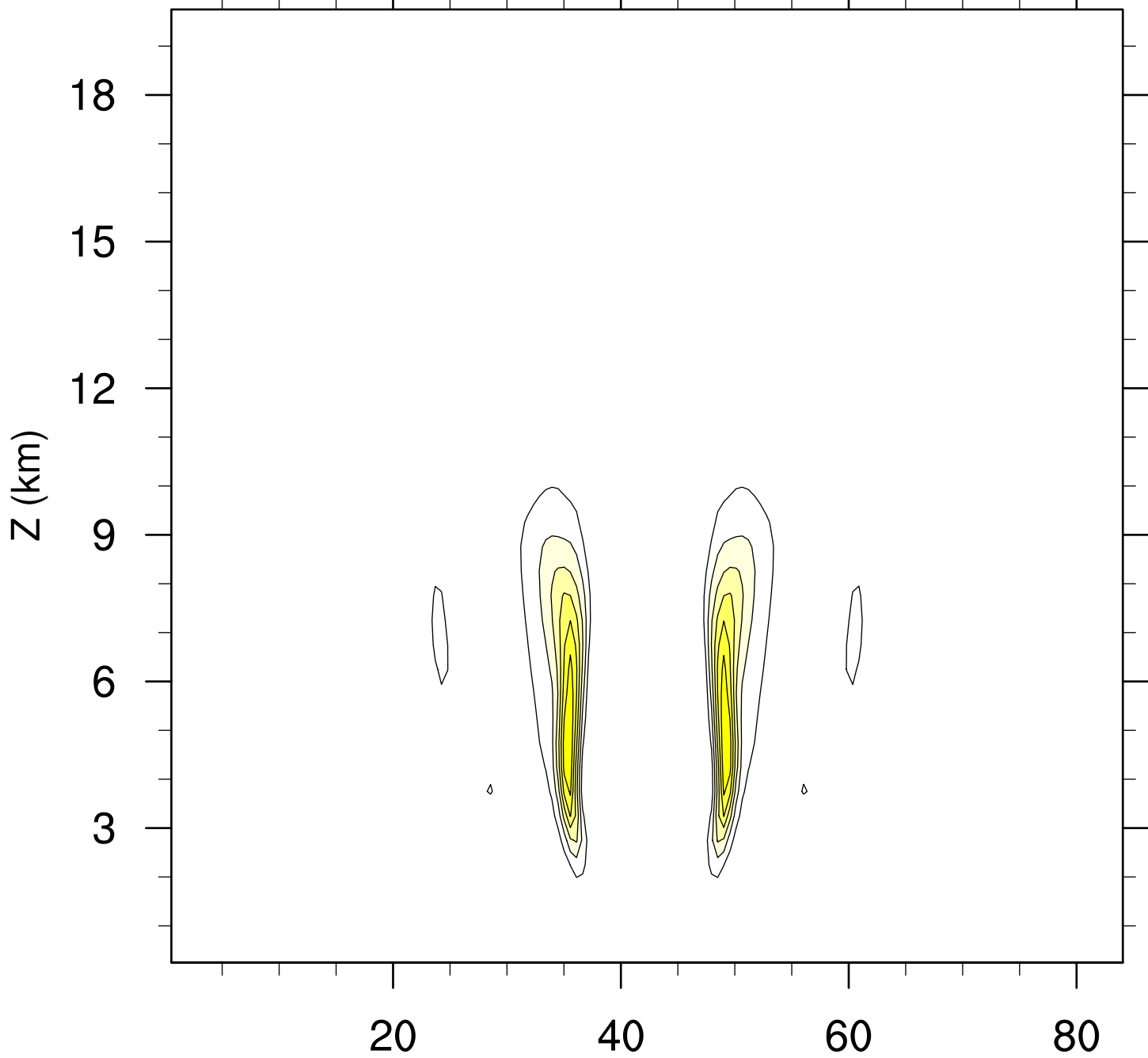


$Y$  (km)



qr, x=50.4km at 5400s

MPAS

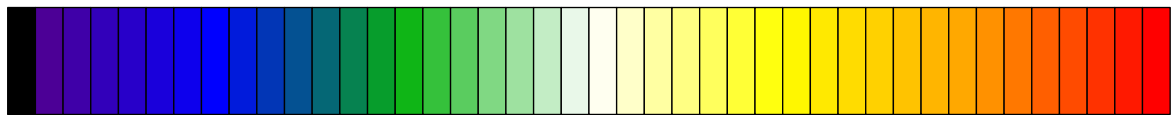
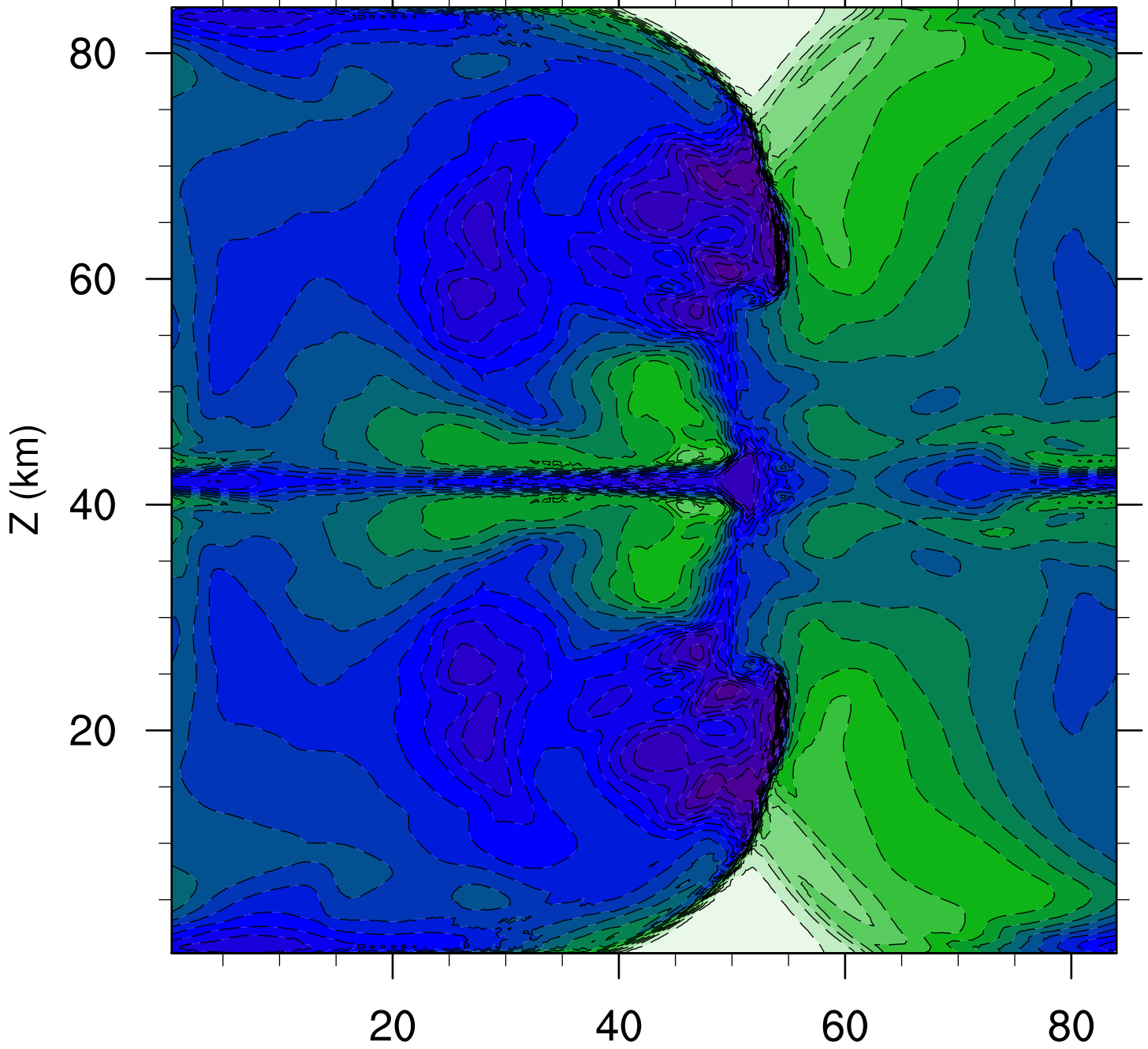


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Y (km)

perturbation theta, Level 1 at 7200s

MPAS

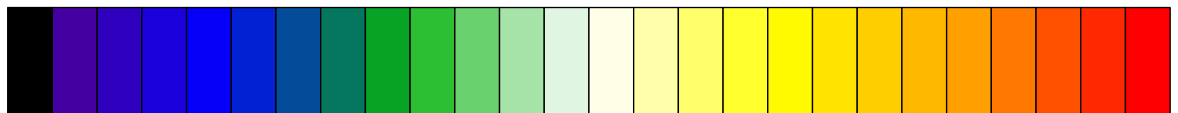
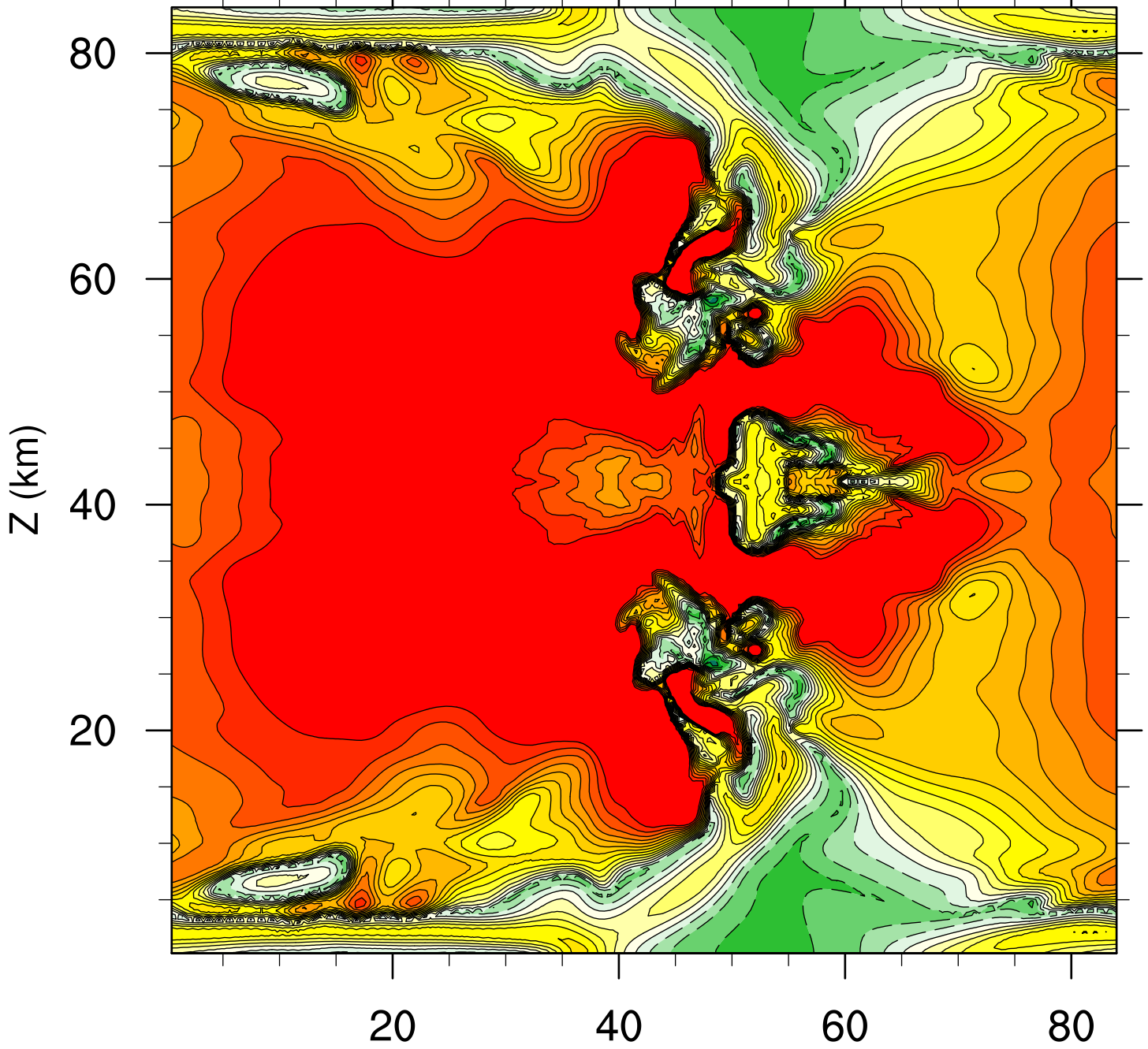


-5.4 -4.5 -3.6 -2.7 -1.8 -0.9 0 0.9 1.8 2.7 3.6 4.5 5.4

Y (km)

perturbation theta, Level 5 at 7200s

MPAS

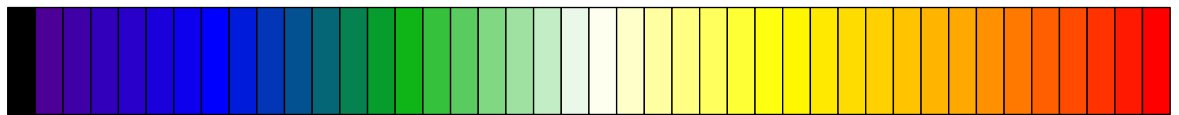
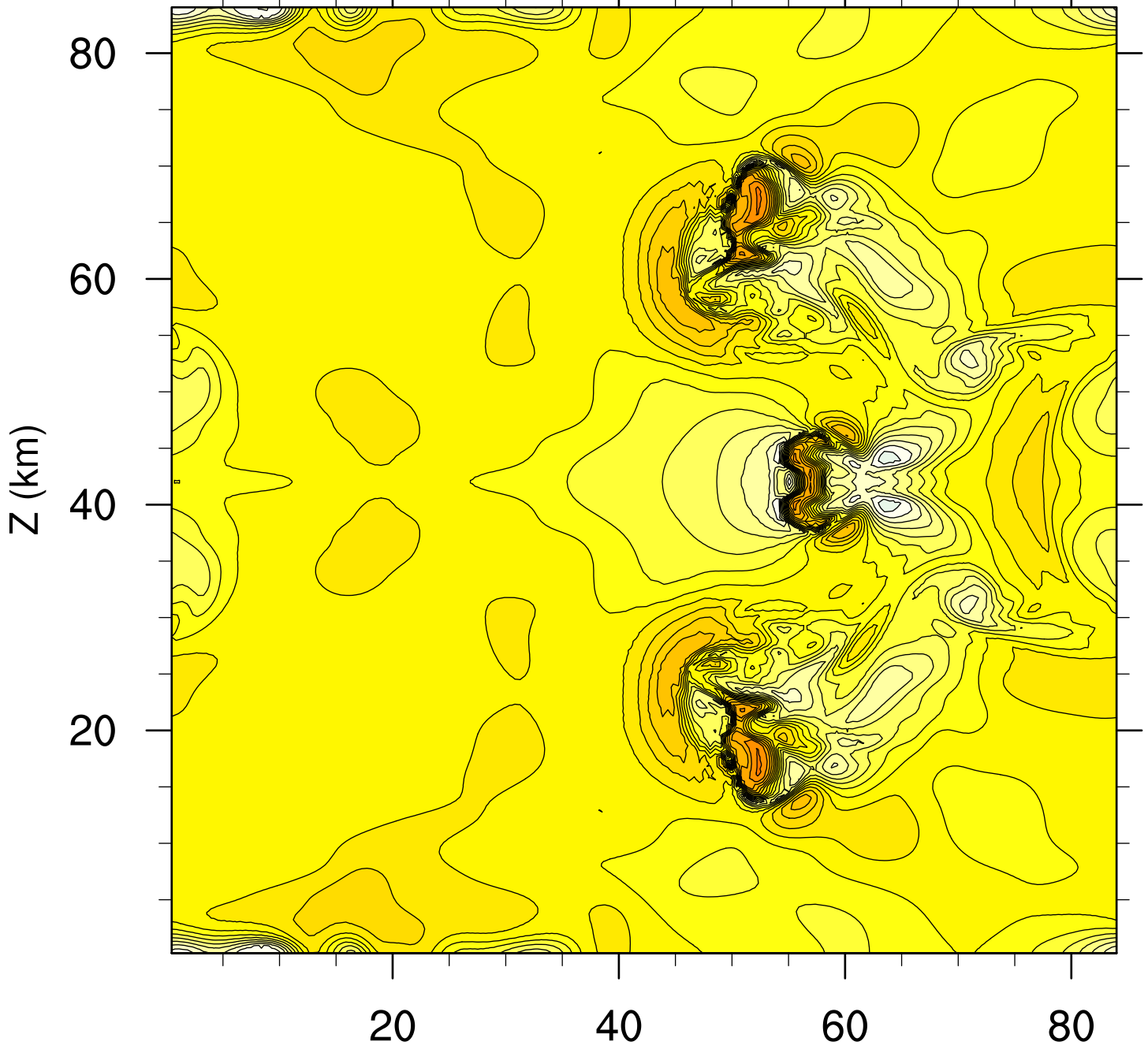


-2.4 -2 -1.6 -1.2 -0.8 -0.4 0 0.4 0.8 1.2 1.6 2 2.4

Y (km)

perturbation theta, Level 10 at 7200s

MPAS

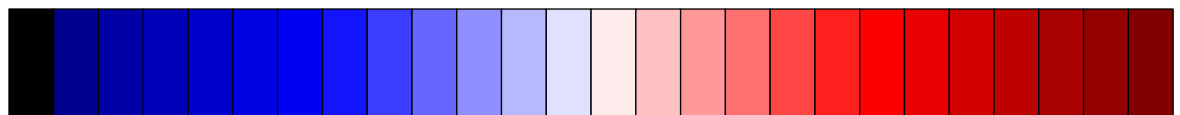
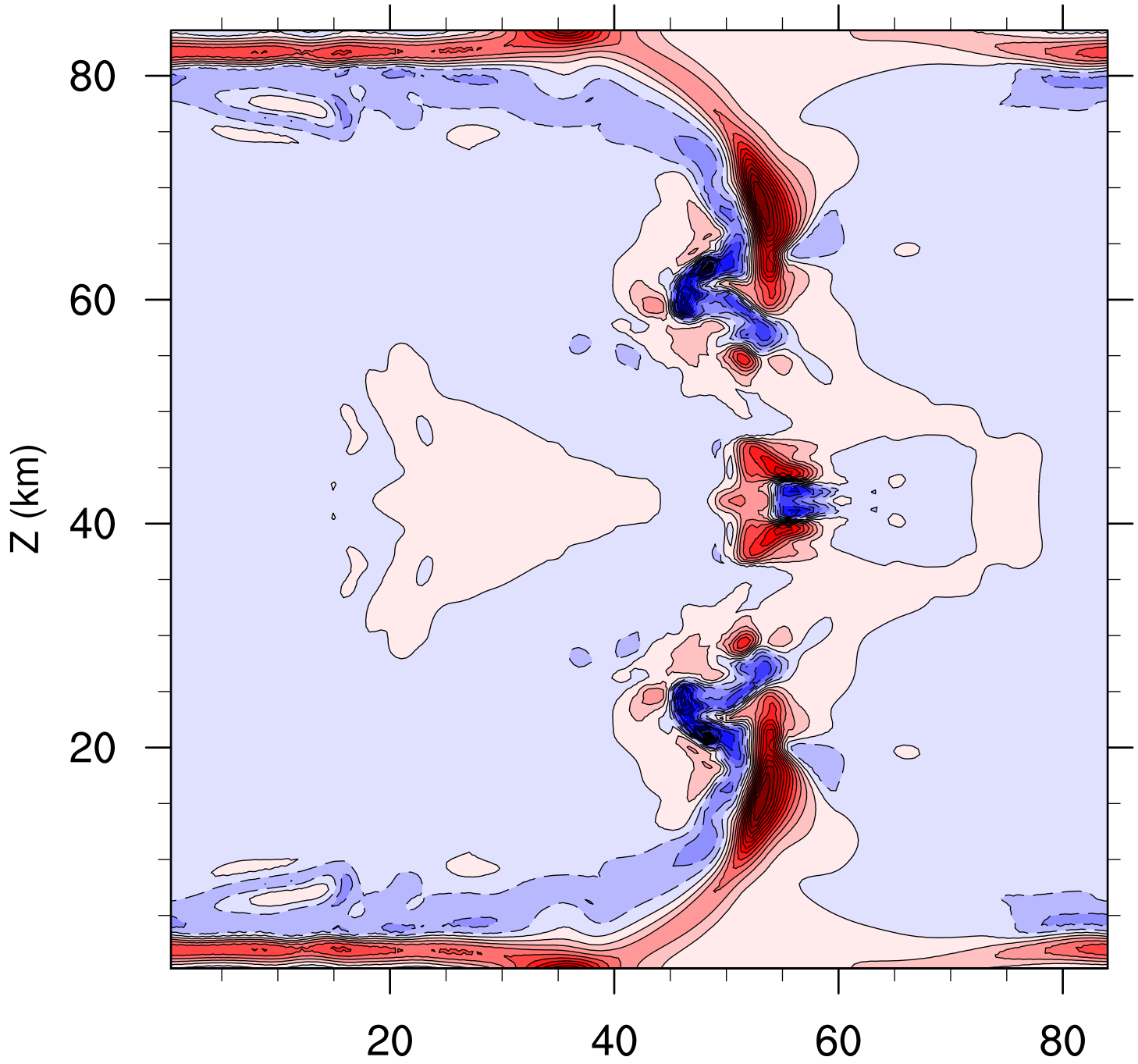


-7.2 -6 -4.8 -3.6 -2.4 -1.2 0 1.2 2.4 3.6 4.8 6 7.2

Y (km)

w, Level 5 at 7200s

MPAS

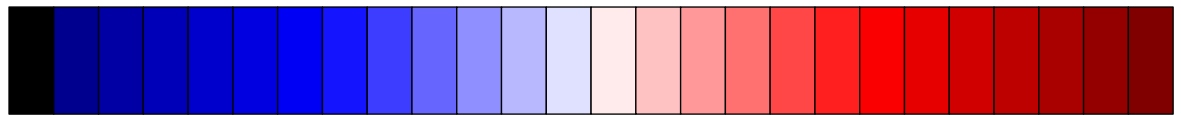
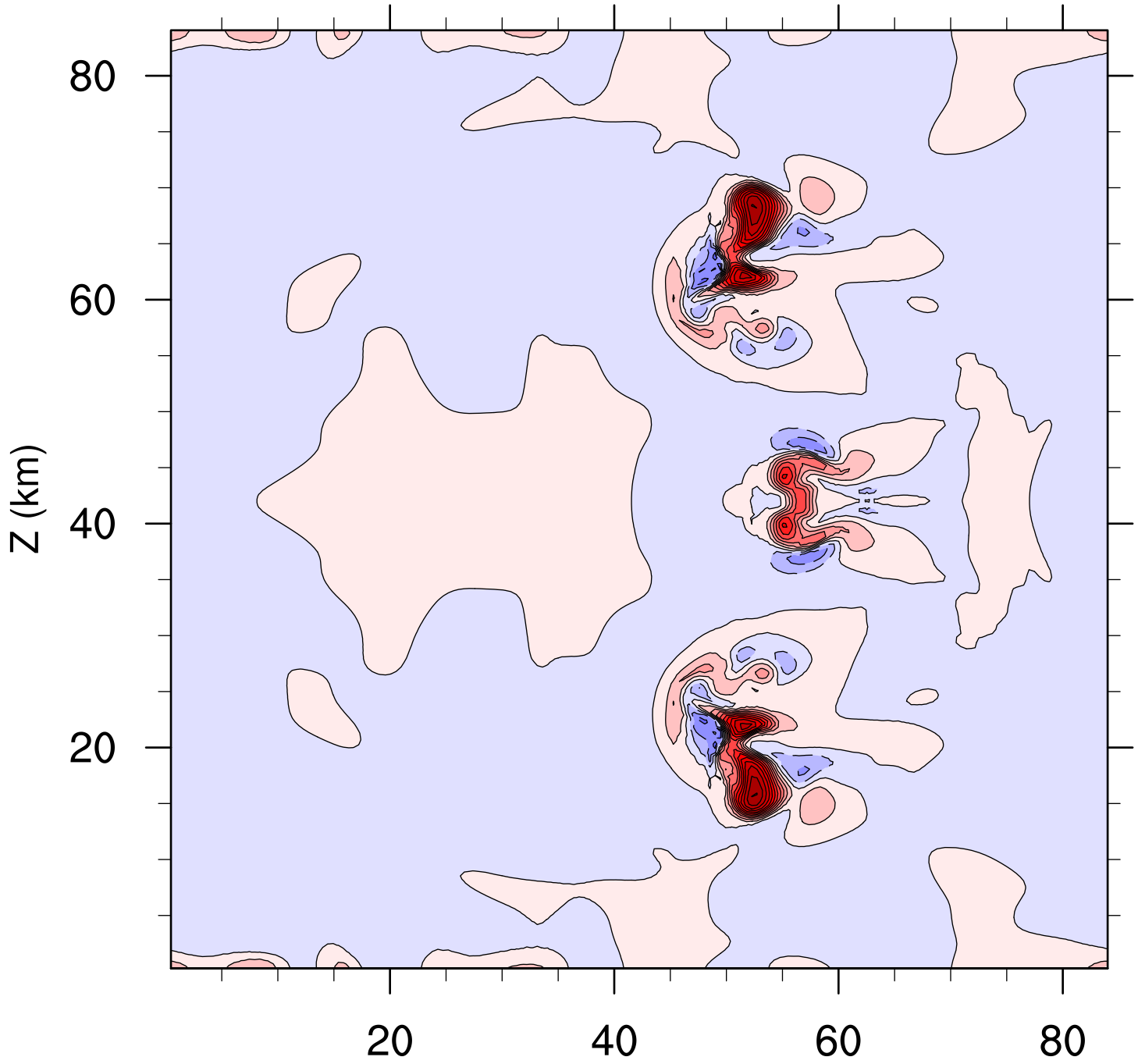


-12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12

$Y$  (km)

w, Level 10 at 7200s

MPAS

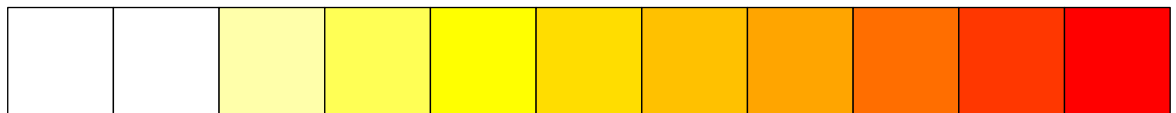
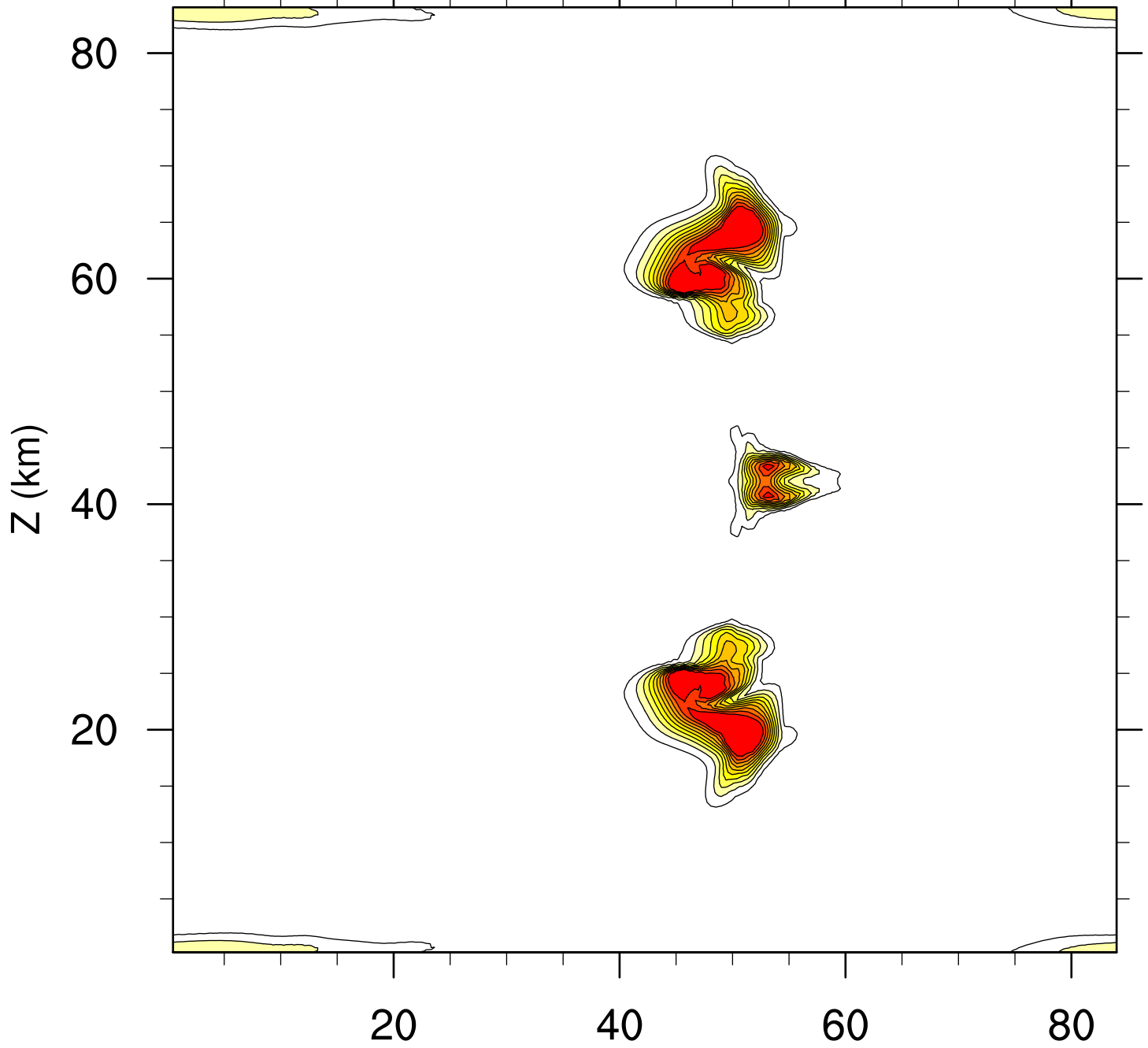


-24 -20 -16 -12 -8 -4 0 4 8 12 16 20 24

$Y$  (km)

qr, Level 1 at 7200s

MPAS

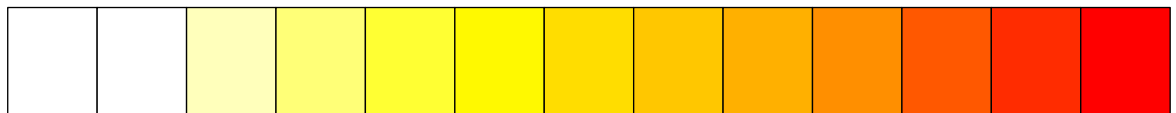
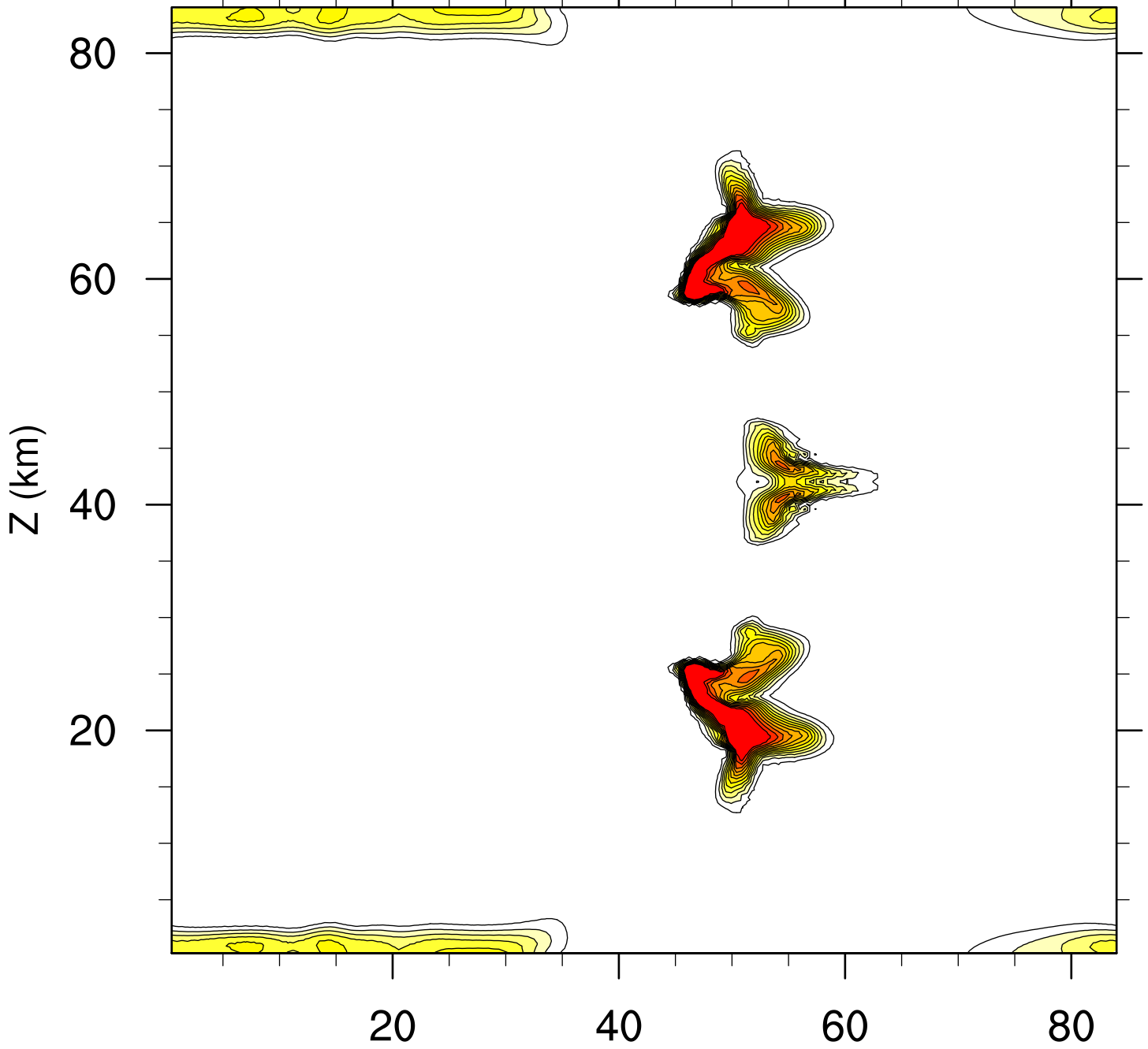


0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

Y (km)

qr, Level 5 at 7200s

MPAS



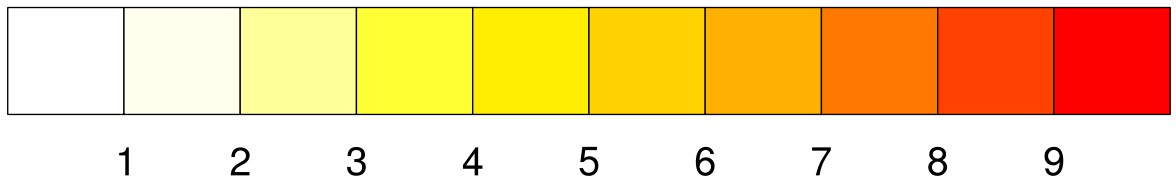
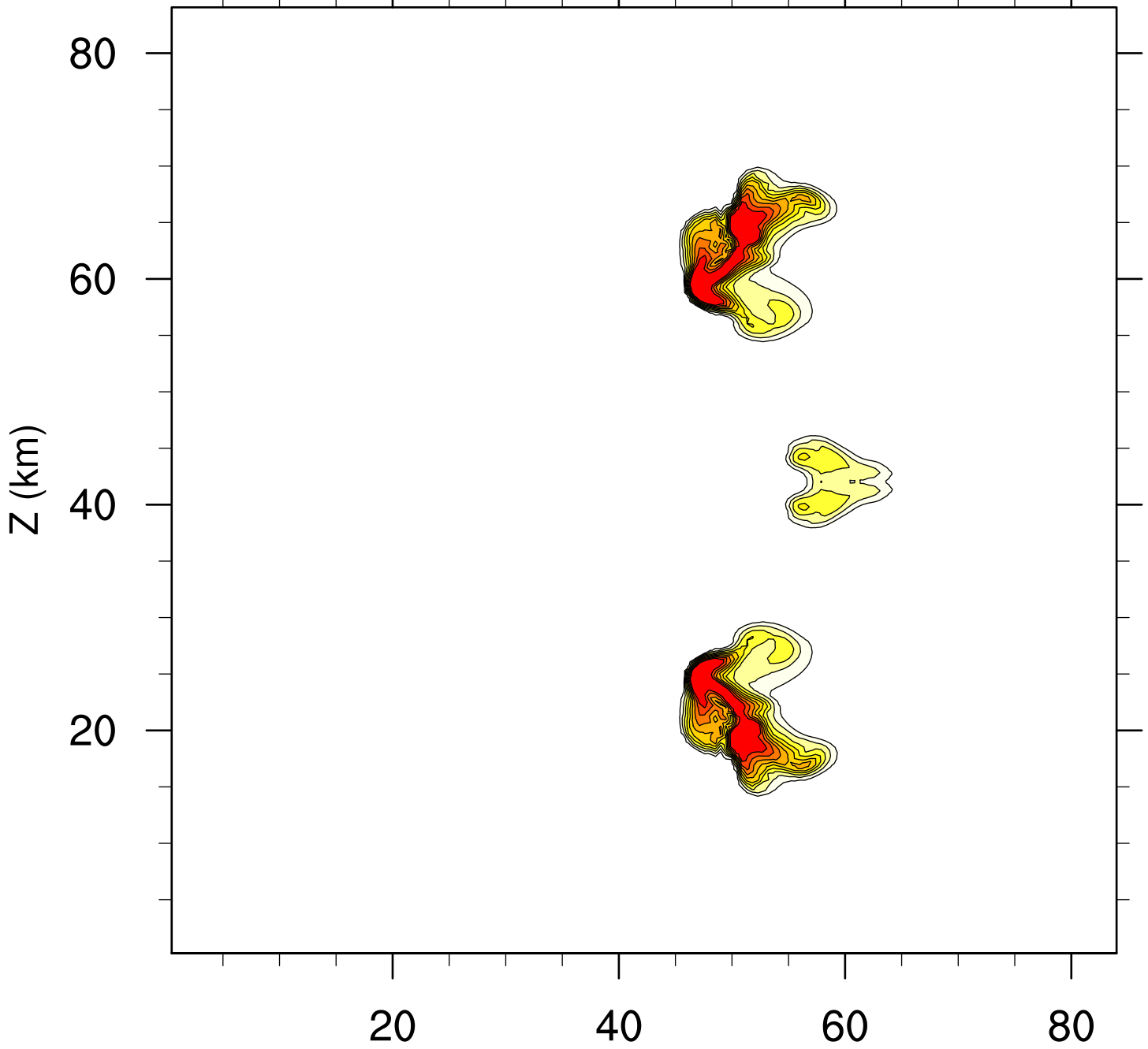
0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6

Y (km)



qr, Level 10 at 7200s

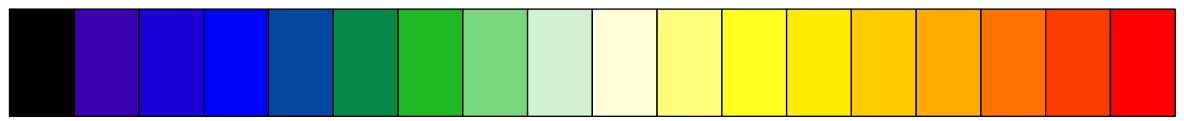
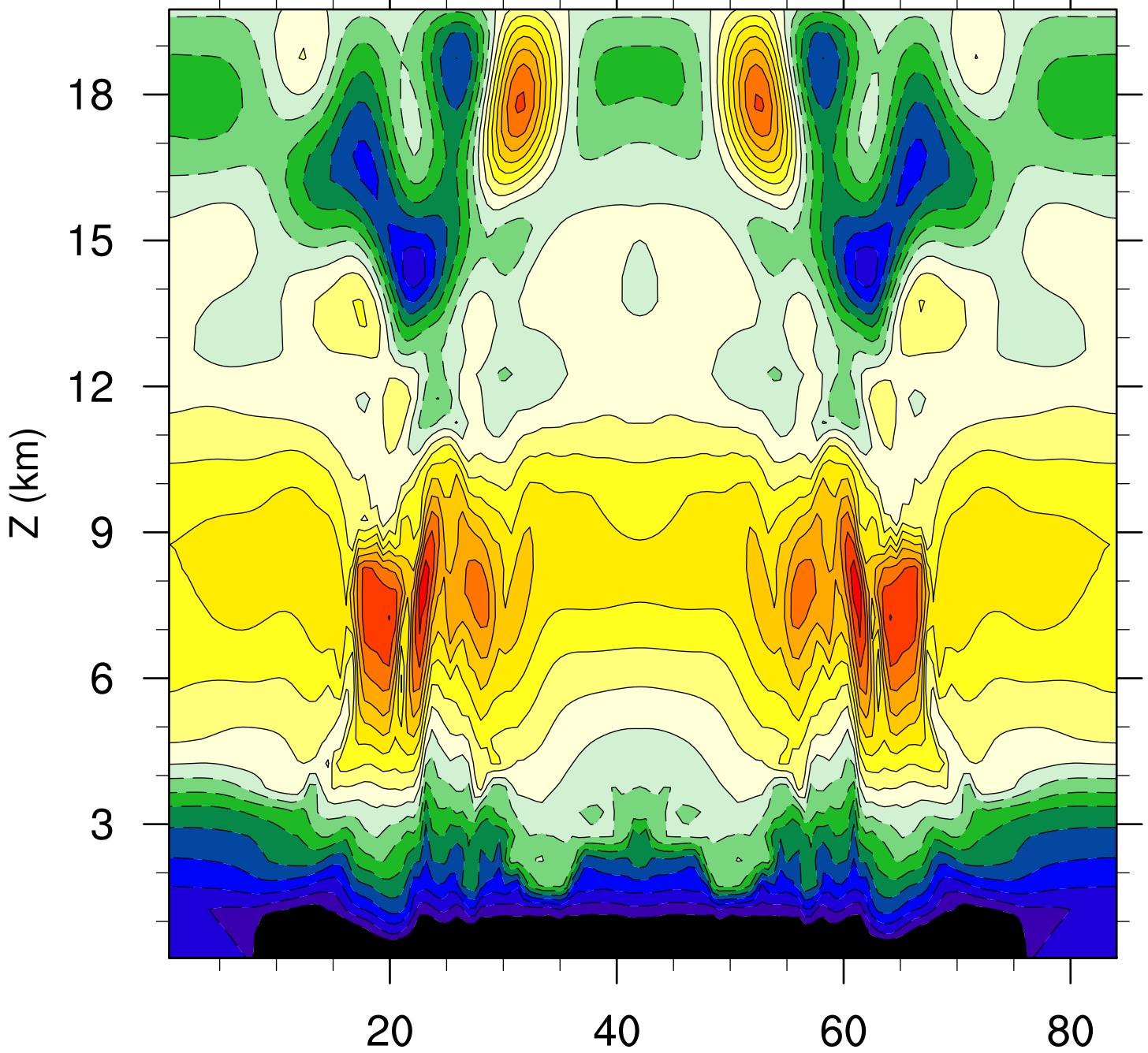
MPAS



Y (km)

perturbation theta, x=50.4km at 7200s

MPAS

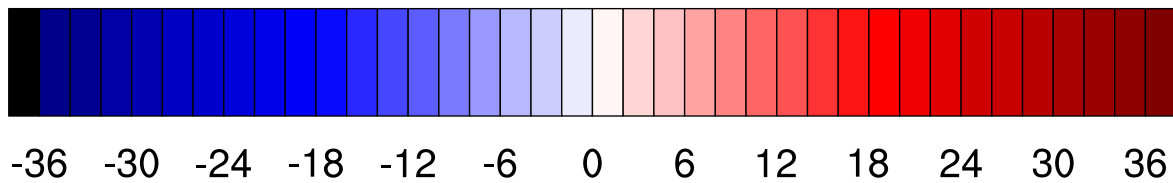
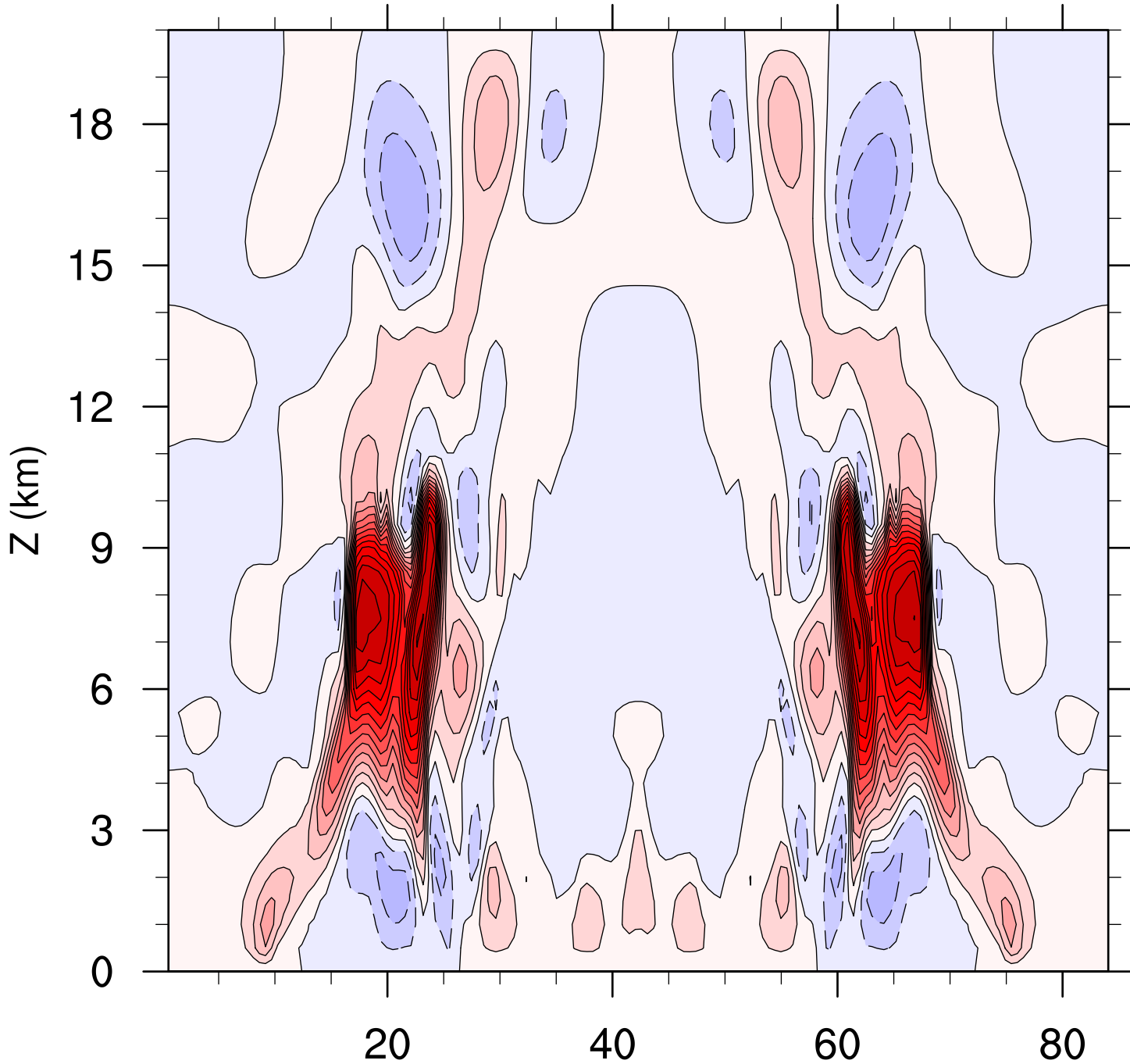


-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

Y (km)

w, x=50.4km at 7200s

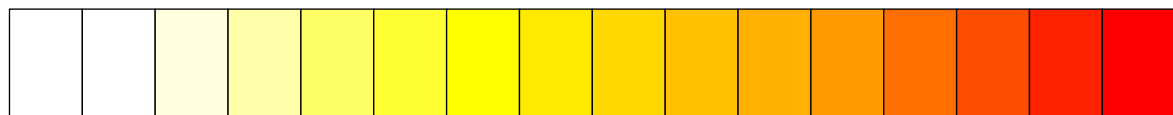
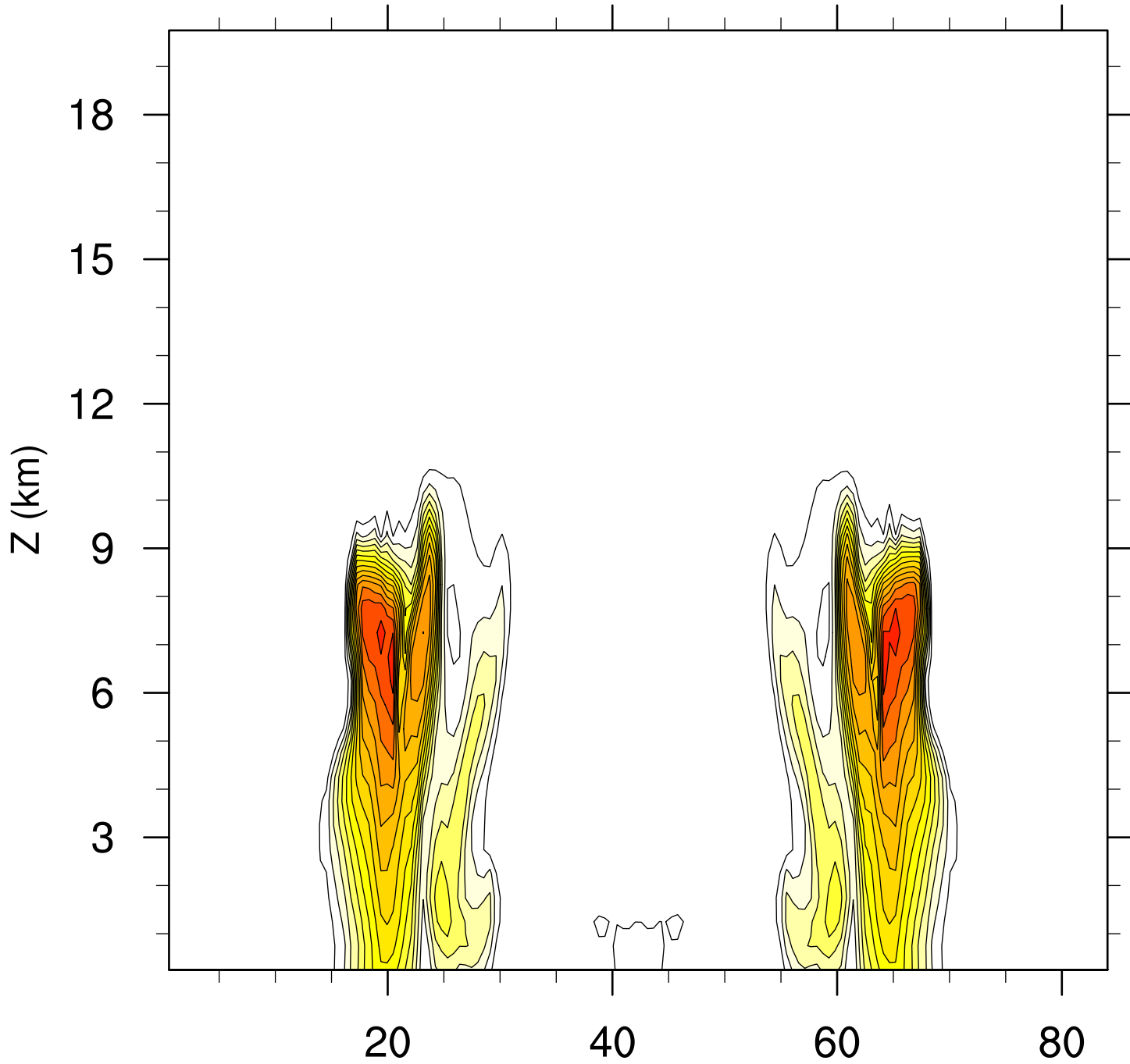
MPAS



$Y$  (km)

qr, x=50.4km at 7200s

MPAS



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Y (km)