(a)

Altitude (km)

Extinction coefficient (km^{-1})

(b)

DOF = 2.25

Altitude (km)

Aerosol averaging kernel

(c)

Model

Meas

O_4 DSCD ($\times 10^{42}$ $molec^2$ cm^{-5})

Elevation angle (°)

(d)

Altitude (km)

NO_2 mixing ratio (ppbv)

(e)

DOF = 2.60

Altitude (km)

NO_2 averaging kernel

(f)

Model

Meas

NO_2 DSCD ($\times 10^{15}$ $molec$ cm^{-1})

Elevation angle (°)

(g)

Altitude (km)

HCHO mixing ratio (ppbv)

(h)

DOF = 2.32

Altitude (km)

HCHO averaging kernel

(i)

Model

Meas

HCHO DSCD ($\times 10^{15}$ $molec$ cm^{-1})

Elevation angle (°)