

Free
troposphere

Hg^0

Hg^{II}

Turbulent/molecular diffusion

Inversion/
mixed layers
~500 m

Hg^0

Hg^{I}

$\text{NO}_2/\text{HO}_2/
OH/\text{Br}/\text{BrO}$

Hg^{II}

O_3

OH

Dry
deposition

Turbulent/
molecular
diffusion

Dry
deposition

Surface
snowpack
20 cm

Hg^0

Photoreduction
and
dark reduction

Hg^{II}

