Polar Stratospheric Clouds

Type I PSC: Nitric acic trihydrate (HNO₃3•H₂O)

Ternary solution (H₂O, H₂SO₄, HNO₃)

Formation Temp: 195 K
Particle diameter: 1µm

Altitudes: 1024 km

Settling rates: 1km/30 days

Type II PSC: Water Ice

Formation Temp: 188 K

Particle diameter: > 10 μm Altitudes: 1024 km

Settling rates: > 1.5 km/day

Type II PSC cloud-

Heterogeneous reactions take place on PSCs, releasing chlorine from HCl and ClONO₂ into reactive forms (ClO) that can rapidly destroy ozone.