Ozone hole photochemistry

- Ozone constantly increases because of the poleward and downward circulation.

- Cl₂ builds up because of the heterogeneous reactions of HCl and ClONO₂ on polar stratospheric clouds (PSCs). HNO₃ is sequestered on PSCs. Cl₂ photolyzes in spring as the sun rise, forming ClO. PSCs settle out of stratosphere carrying HNO₃.

- The reactions of ClO with both itself and BrO accounts for the observed polar ozone destruction.

- ClO, BrO, and ozone observations are all closely in agreement with the photochemistry.

![Graphs showing ClO and Ozone mixing ratios](image-url)