Ozone hole photochemistry

- Ozone constantly increases because of the poleward and downward circulation
- Cl₂ builds up because of the heterogeneous reactions of HCI and CIONO₂ on polar stratospheric clouds (PSCs). HNO₃ is sequestered on PSCs. Cl₂ photolyzes in spring as the sun rise, forming CIO. PSCs settle out of stratosphere carrying HNO₃.
- The reactions of CIO with both itself and BrO accounts for the observed polar ozone destruction.
- CIO, BrO, and ozone observations are all closely in agreement with the photochemistry.



