

- Is there a correlation between $[O_3]$ and $[ClO]$ in the Antarctic stratosphere?
- O_3 : absorption of 254-nm light from a Hg lamp
ClO: (1) Titration: $ClO + NO \rightarrow Cl + NO_2$
(2) Detect Cl by resonance fluorescence
(308-nm light from a laser)
- Fly an old spy plane (an ER-2)
- Raw Data $\Rightarrow [O_3] \pm 5\%$ and $[ClO] \pm 25\%$ as a function of latitude
- Anticorrelation between $[O_3]$ and $[ClO]$
 \Rightarrow The Molina and Rowland mechanism is correct
- 1989-: Montreal Protocols: Banned CFC production