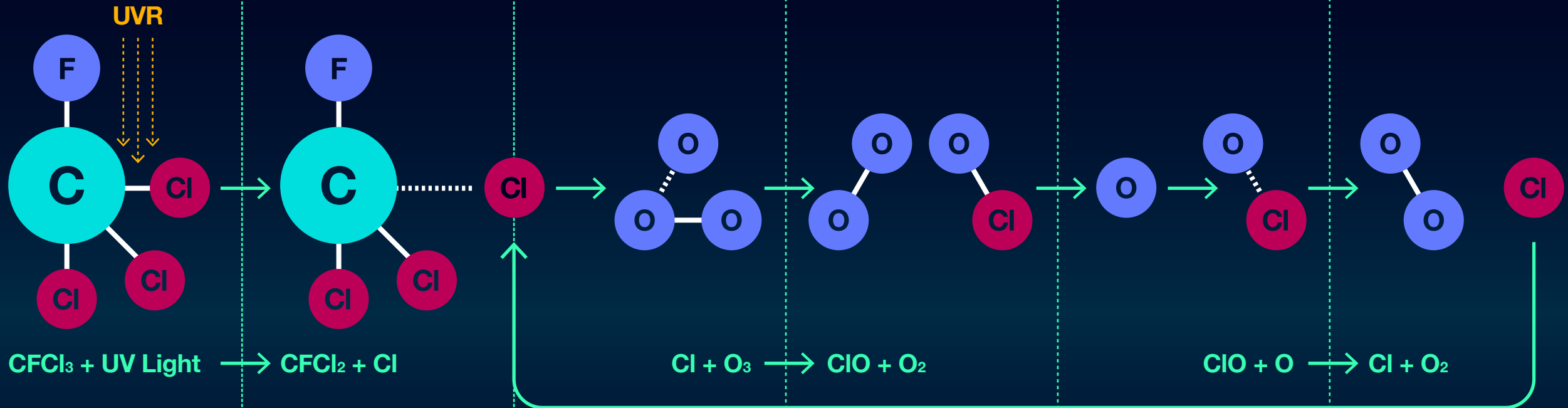


# Ultraviolet Radiation (UVR) & The Ozone Depletion Process



The free chlorine atom reacts with another ozone molecule, repeating the process

Ultraviolet radiation strikes a CFC ( $CFCl_3$ ) molecule in the stratosphere.

A chlorine (Cl) atom breaks away when the carbon-chlorine bond is broken.

The chlorine atom reacts with an ozone molecule and breaks it apart.

A chlorine monoxide (ClO) molecule and an oxygen molecule ( $O_2$ ) are formed.

A free oxygen atom reacts with the chlorine monoxide molecule and breaks it apart.

An oxygen molecule is formed and a chlorine atom is released.

SOURCE:

The Ozone Hole – Ozone Destruction