

## Who is responsible? Part 2 (text p. 34-42)

Review of climate forcing by GHG and aerosols

What happens to the greenhouse gases that we put into the atmosphere?

The carbon balance

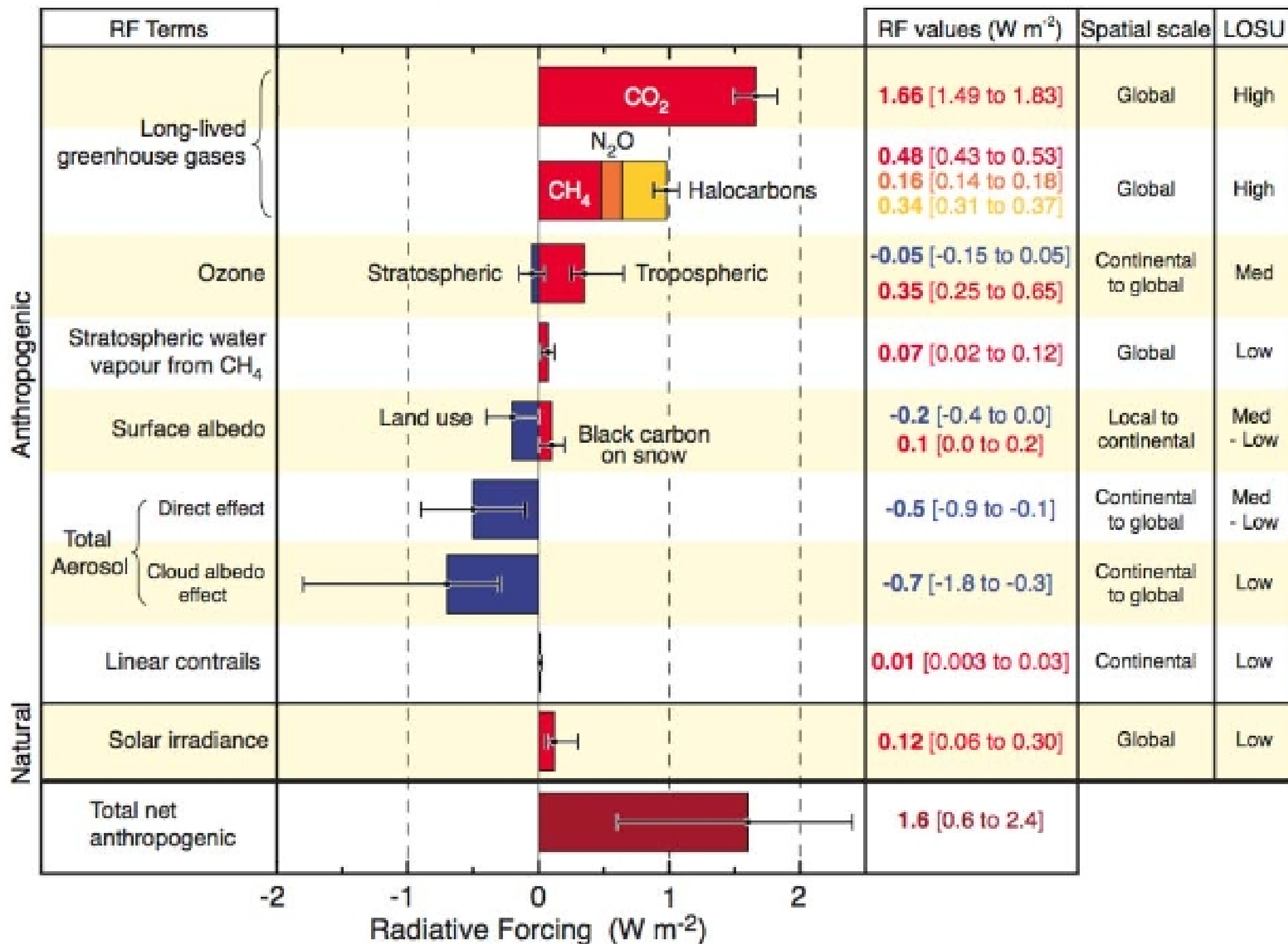
What type of fossil fuel contributes most?

How much do different activities contribute?

Energy and power units

Which countries are most responsible?

# Radiative Forcing Components



What happens to the GHGs that we put into the atmosphere?

CO<sub>2</sub> is well mixed because it has a long *residence time* in the atmosphere

concept of *residence time*

what determines residence time?

evidence of mixing by the winds

most other GHGs are also well mixed but there are exceptions