



Global Emissions		Atmospheric
Year	SO <sub>2</sub> (x10 <sup>6</sup> tons)	CO <sub>2</sub> (ppm) Concentration
1880	16	292
1890	20	296
1900	28	300
1910	44	301
1920	51	303
1930	56	305
1940	65	308
1950	78	311
1960	101	316
1970	140	325
1980	158	337
1990	172	355

- a) How would you interpret the information in the graph in terms of the possible causes of global warming?
- b) Are there possible alternative explanations? If so, briefly describe.
3. Read pages 282-285 and note Figure 11.4 on page 284 (Lutgens and Tarbuck, 2005) which discuss another, related atmospheric air quality issue, ozone depletion. Also note Figure 11.20 on page 298.
- a) Based on your reading and your own thoughts on the issues of CO<sub>2</sub> emissions and greenhouse warming, and of the problem of ozone depletion, what steps do you think should be taken to deal with these issues?

