

## **STATION 19**

### **FOSSIL FUEL USE AND CONSEQUENCES**

**The use of fossil fuels has increased the carbon dioxide content of the atmosphere from 278 ppm (0.0278%) to 400 ppm (0.040%) over the last 200 years. 97% of climatologists agree that this 44% increase of CO<sub>2</sub> will cause significant and dangerous changes to the global climate and ocean acidity. Station 19 one has one demonstration of the effects of increasing CO<sub>2</sub> and a pamphlet that presents compelling evidence that human activity is endangering the life and environment on the earth. Station 20 presents further evidence of global warming.**

**As a result of warming, the density of the water in the oceans goes down and the volume up. This increase in volume coupled with water added due to melting of ice masses will significantly raise sea levels threatening all coastal populations. The maps show the possible consequences for Florida and the S.F. bay area.**

**1. There is a heat lamp in back of each of the maps (2 of the S.F. bay area with 20 ft. and 100 ft. of sea level rise and one of Florida with a 100 ft. sea level rise). Will the projected submerging of land have a significant impact on life?**

**2. Is human caused global warming a threat to life on earth?**