

# SIO 15 LECTURE 24: ANTHROPOGENIC CHANGES: ATMOSPHERE, GROUND, OCEANS

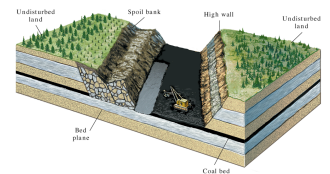
Leftovers from Lecture 23

## The All-American Canal



## The Myth of Clean Coal

Mining Coal



Acid Rain - Great London Fog



Acid Rain and Coal Burning

**watch short video on acid rain!**



Acid Rain - North America

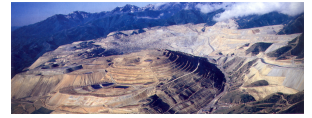
## Black Carbon

Lower Atmosphere



Particulate Matter

## Mining and the Environment



## Mercury and PCB in the Oceans

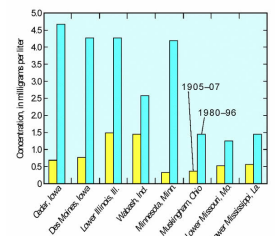


## Nuclear Power

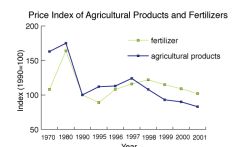


## Farming

### Fertilizers and Groundwater



## Use of Fertilizers

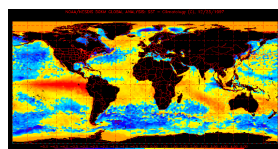


## Consequences of Overfertilization - Oceans

## The California Brown Pelican - DDT

## The Warming Oceans

### Lack of Vertical Mixing



### Coral Die-off

