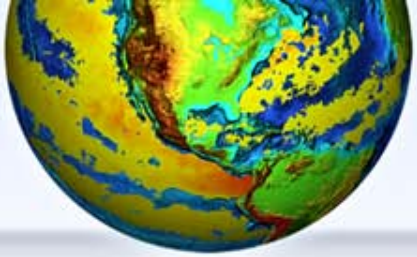
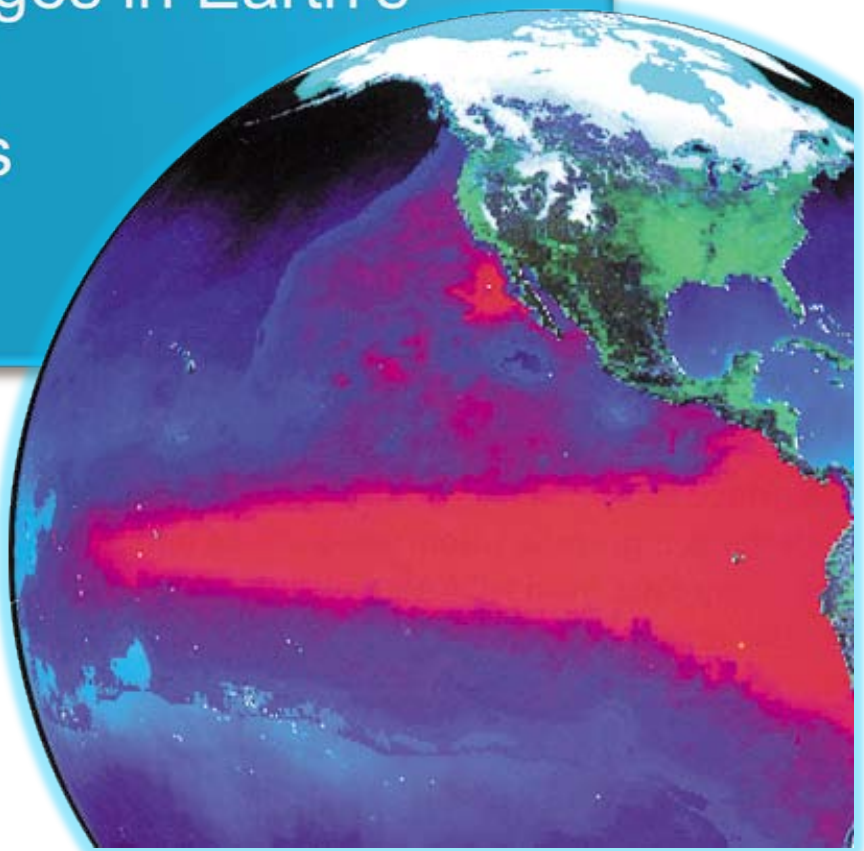


# Global Climate Monitoring

To understand and predict changes in Earth's environment to meet economic, social, and environmental needs



# Goals for Earth Observations

Provide the right information,

in the right format,

at the right time,

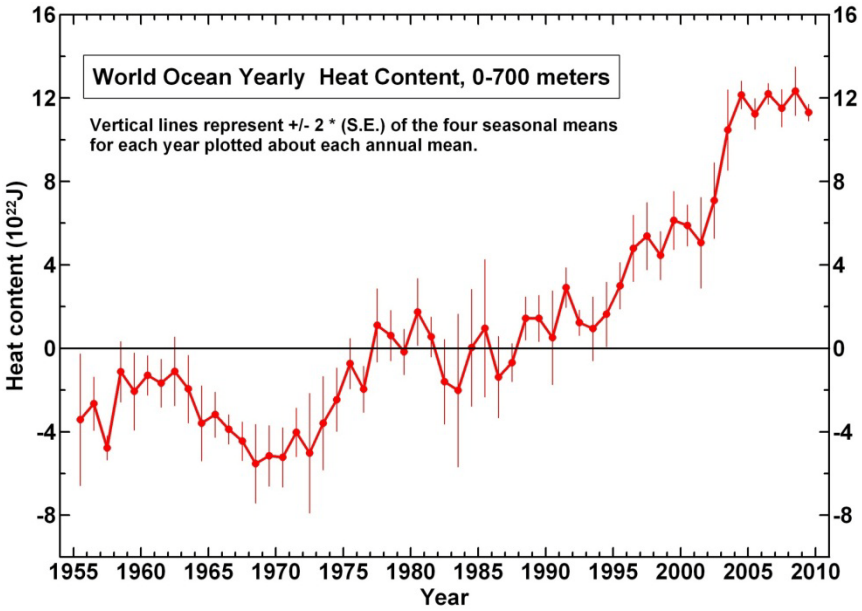
to the right people,

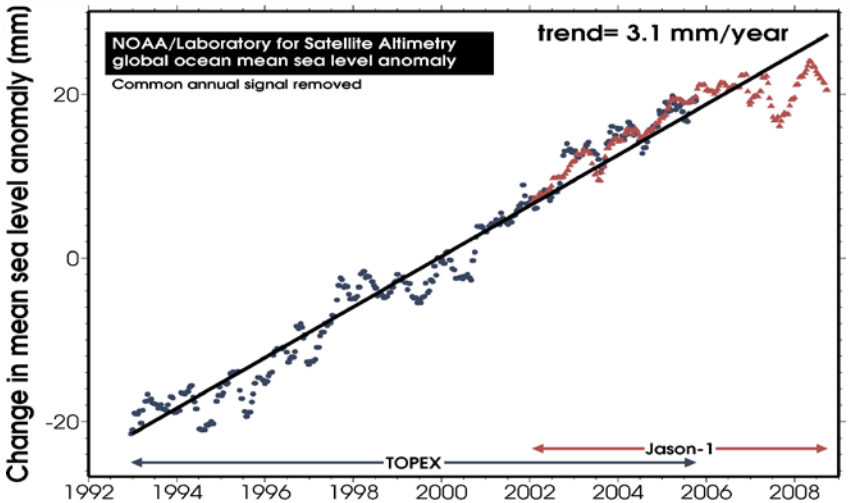
to make the right decisions.

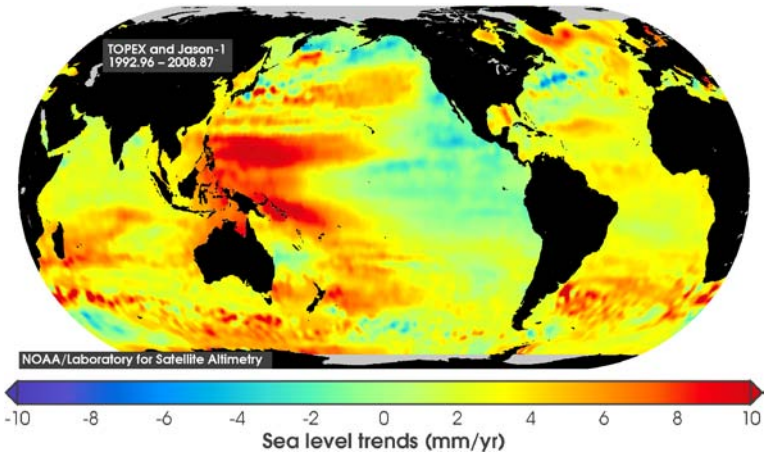
# Ocean Impacts

**Altimetry data shows consistent sea level rise**

**Ocean Heat is major contributor to Earth's Climate System.**



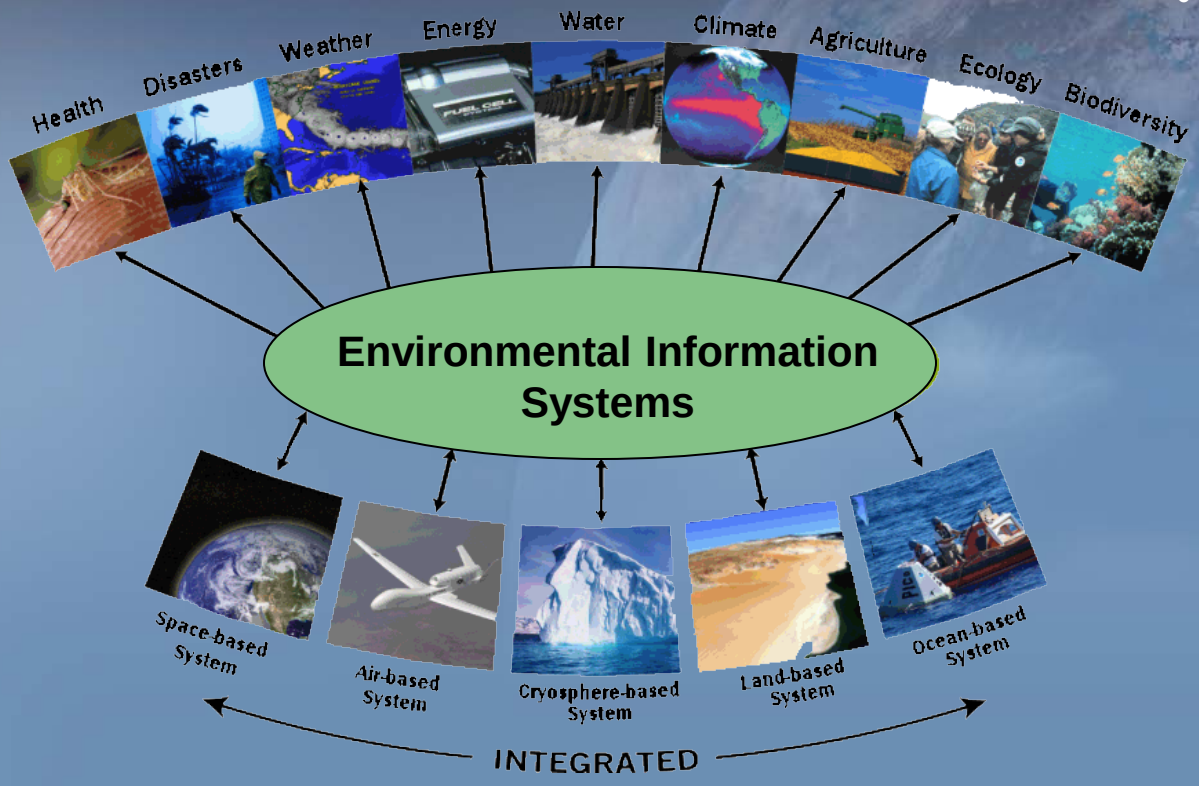



# Lessons Learned

- Agencies and nations cannot go it alone
- Clear value in forming partnerships to address observation gaps; reduce duplication of effort
- Value of reciprocal data access/data sharing

# The Global Earth Observations System of Systems (GEOSS)




## What is GEOSS?

- A distributed system of systems
  - Improves coordination of strategies & observation systems
  - Links all platforms: in situ, aircraft, & satellite networks
  - Identifies gaps in our global capacity
  - Facilitates exchange of data & information
  - Improves decision-makers' abilities to address pressing policy issues