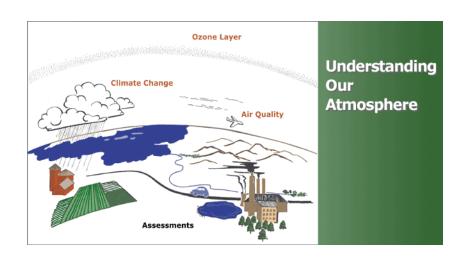
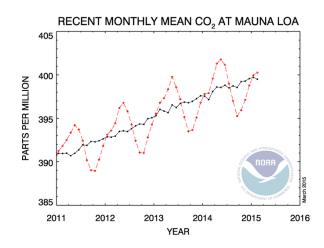


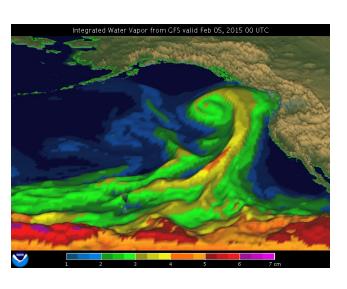
Earth System Research Laboratory



Chemical Sciences Division



Global Monitoring Division



Physical Sciences Division



Global Systems Division

The Earth System Analyzer:

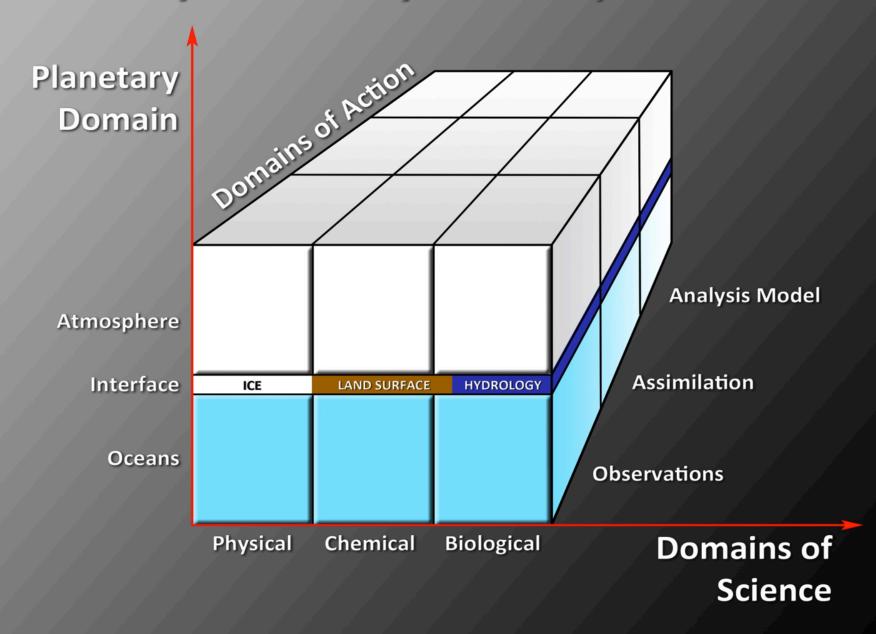
Using all of the Data to Improve NOAA's Mission Capabilities

Alexander E. MacDonald

NOAA
Earth System Research Laboratory

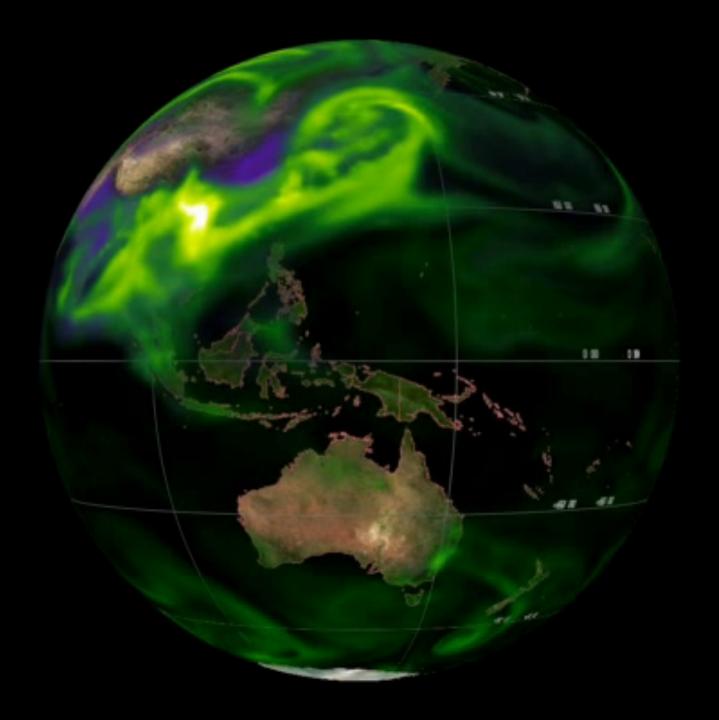


Earth System Analyzer: Components



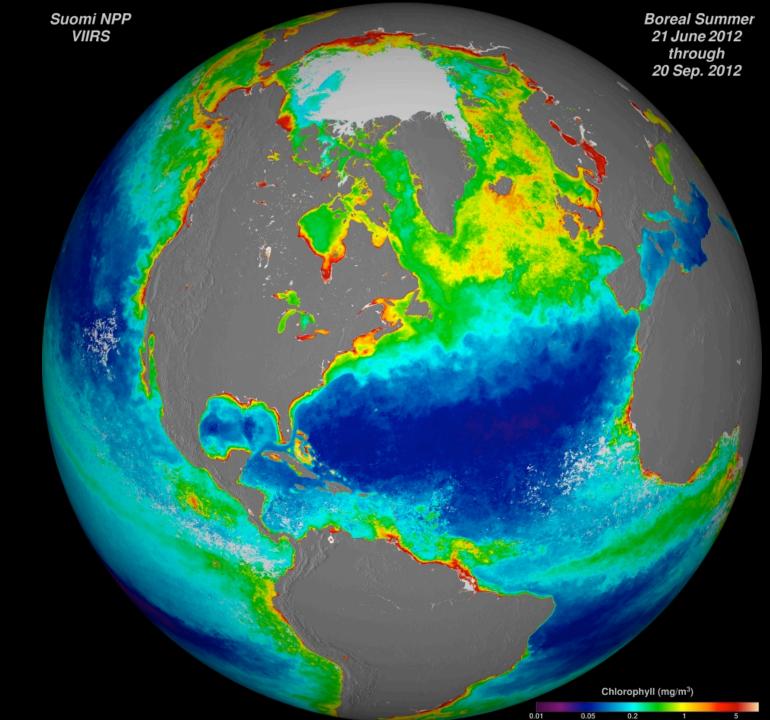
Chemical:

There are about a hundred atmospheric constituents that need to be tracked.

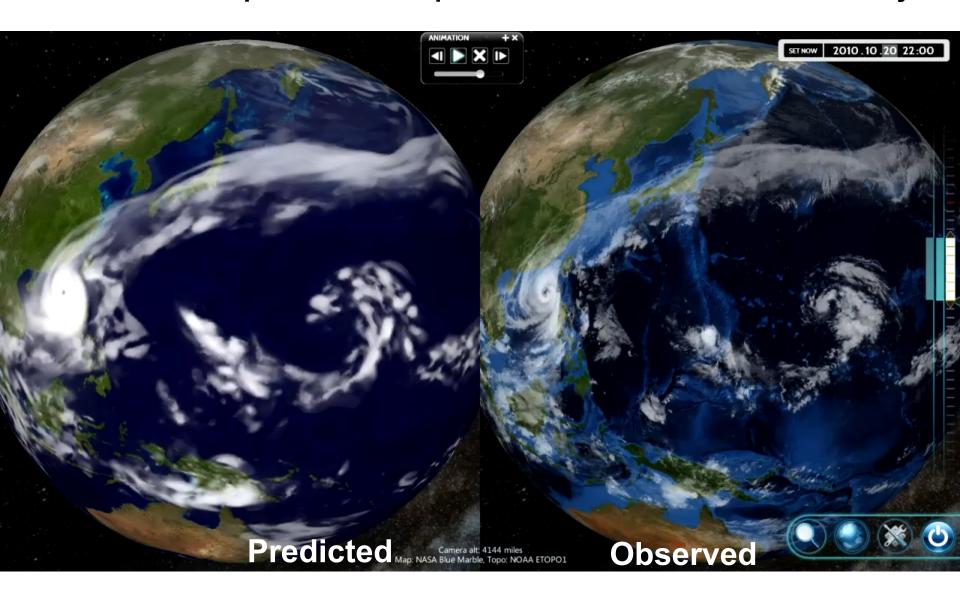


Biology:

The most complex part of the Earth System.



ESRL FIM model prediction compared to actual satellite data for 7 days.



Sources of Geophysical Predictability

