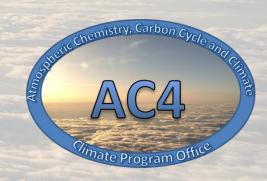
Atmospheric Chemistry, Carbon Cycle and Climate (AC4) Program

Monika Kopacz and Kenneth Mooney
Program Managers



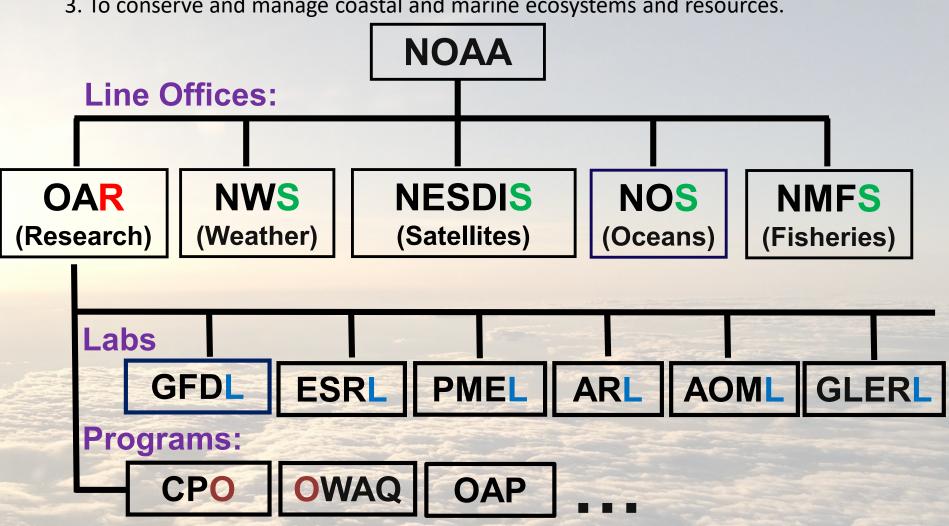
September 25, 2019



NOAA and OAR

NOAA's Mission: Science, Service and Stewardship

- 1. To understand and predict changes in climate, weather, oceans and coasts;
- 2. To share that knowledge and information with others; and
- 3. To conserve and manage coastal and marine ecosystems and resources.



Program Overview

What is AC4?

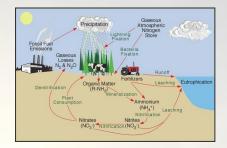
AC4 is a competitive research program which manages a portfolio of multi-year projects

AC4 Goal: Determine the processes governing atmospheric concentrations of trace gases and aerosols in the context of the Earth System

Other NOAA entities with similar focus: ESRL/CSD, ESRL/GMD, ARL, GFDL, PMEL, NESDIS/STAR, NWS/NAQFC, OWAQ

FY13-FY19 Atmospheric Chemistry, Carbon Cycle, and Climate (AC4) Research Portfolio

Nitrogen Cycle



Urban Atmosphere



Field Campaigns (FIREX-AQ, SENEX)



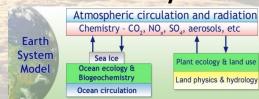
Atmospheric composition from space



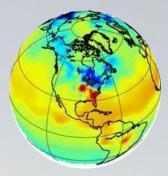
Emissions and Chemistry of Wildfires (FIREX/FIREX-AQ)



Process and Earth System Modeling



CarbonTracker



Oil & Gas Emissions



Sustained Observations



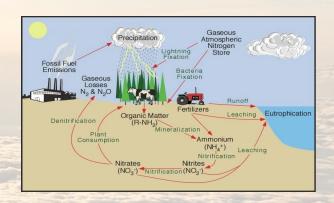
FY20 and beyond



FY 20 call: Urban atmosphere in a warming climate: chemistry, carbon and composition

Beyond: "FY21 solicitation for field efforts is also anticipated"







Looking forward to the outcome of this workshop!

Contact

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