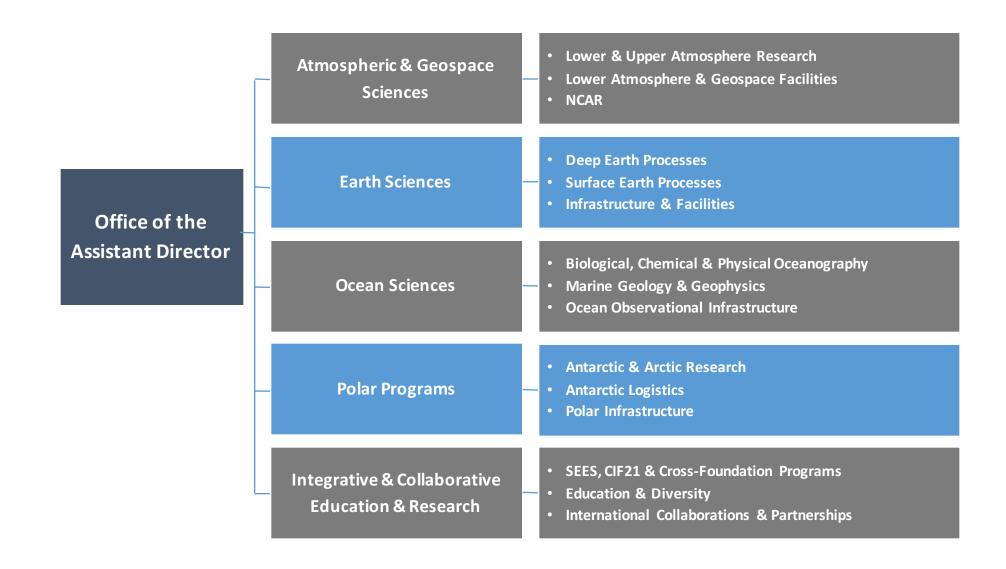
## **GEO Profile**



## **GEO IMPERATIVES AND FRONTIERS 2015-2020**

On-line at www.nsf.gov/geo/advisory.jsp. Click on the top link "AC GEO Reports"

DYNAMIC EARTH:
GEO IMPERATIVES & FRONTIERS 2015-2020

NST-2GROWNERS INCOME.

- Develop community-driven cyber-infrastructure: EarthCube
- Harness the power of computing and computational infrastructure
- Invest in infrastructure for observing systems and sensor arrays
- Use distributed instrumentation and facilities in support of research and education

## **BIG DATA**

- GEO Observations and Facilities
- Main Challenge is Complexity
  - system-level science
  - data and computation not or
- Data Heterogeneity and New Sources

## **OPPORTUNITIES**

- GEO Level
  - EarthCube Solicitation
    - NSF 16-514
    - Earthcube.org
  - Participation in CISE/ACI programs
- Earth Sciences
  - Geoinformatics: NSF 11-581
- Polar Programs
  - Arctic Research: NSF 14-584
  - Antarctic Research: NSF 16-541
- Atmospheric and Geospace Sciences
  - NCAR section
  - Talk to Programs
- Ocean Sciences
  - Organized by Sections