



STAR Center for Satellite
Applications and Research
formerly ORA — Office of Research and Applications

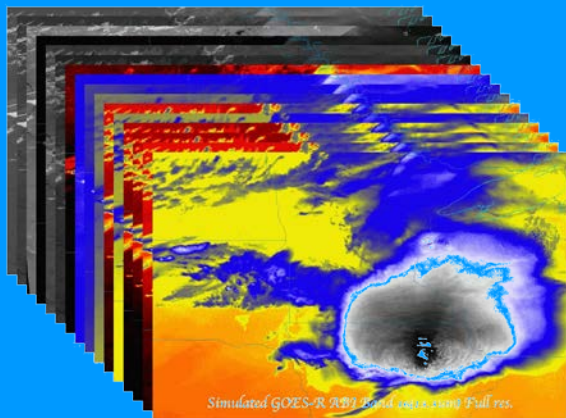
Government employment opportunities (GEO)

Timothy J. Schmit (tim.j.schmit@noaa.gov)

DoC/NOAA/NESDIS/Satellite Applications and Research (STAR)

Advanced Satellite Products Branch (ASPB)

Madison, WI

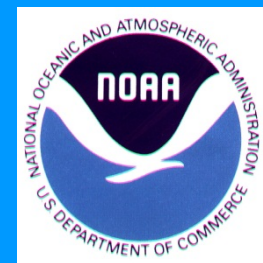


CORP Symposium

July 23, 2013

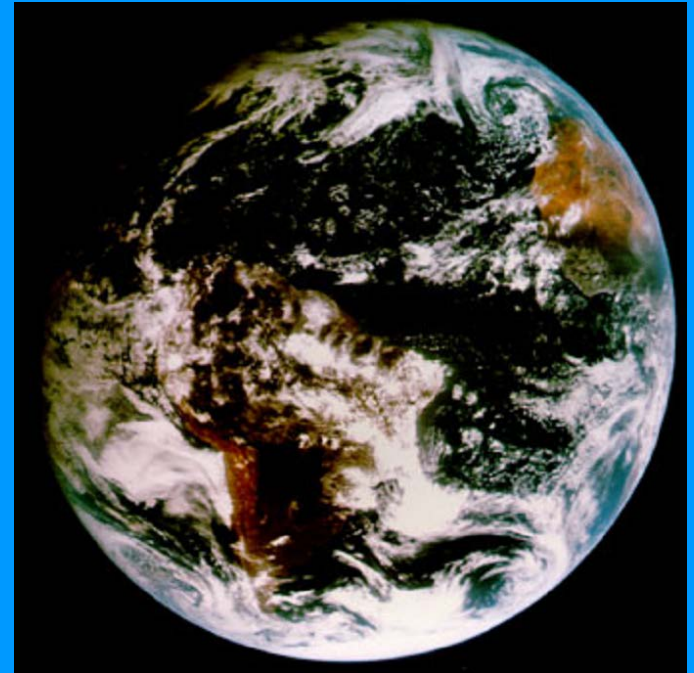
Madison, WI

“The birthplace of Satellite Meteorology”



Outline

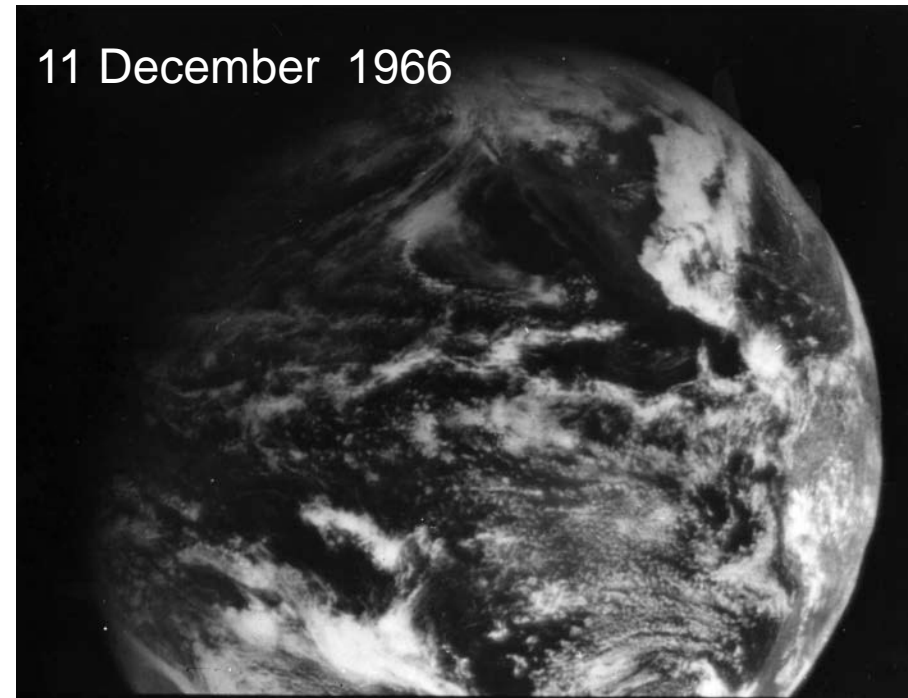
- Introduction
- The ‘graying’ of the workforce
- Options
- Logistics
- “Tips” and Links
- Questions



1966: ATS-1 launched

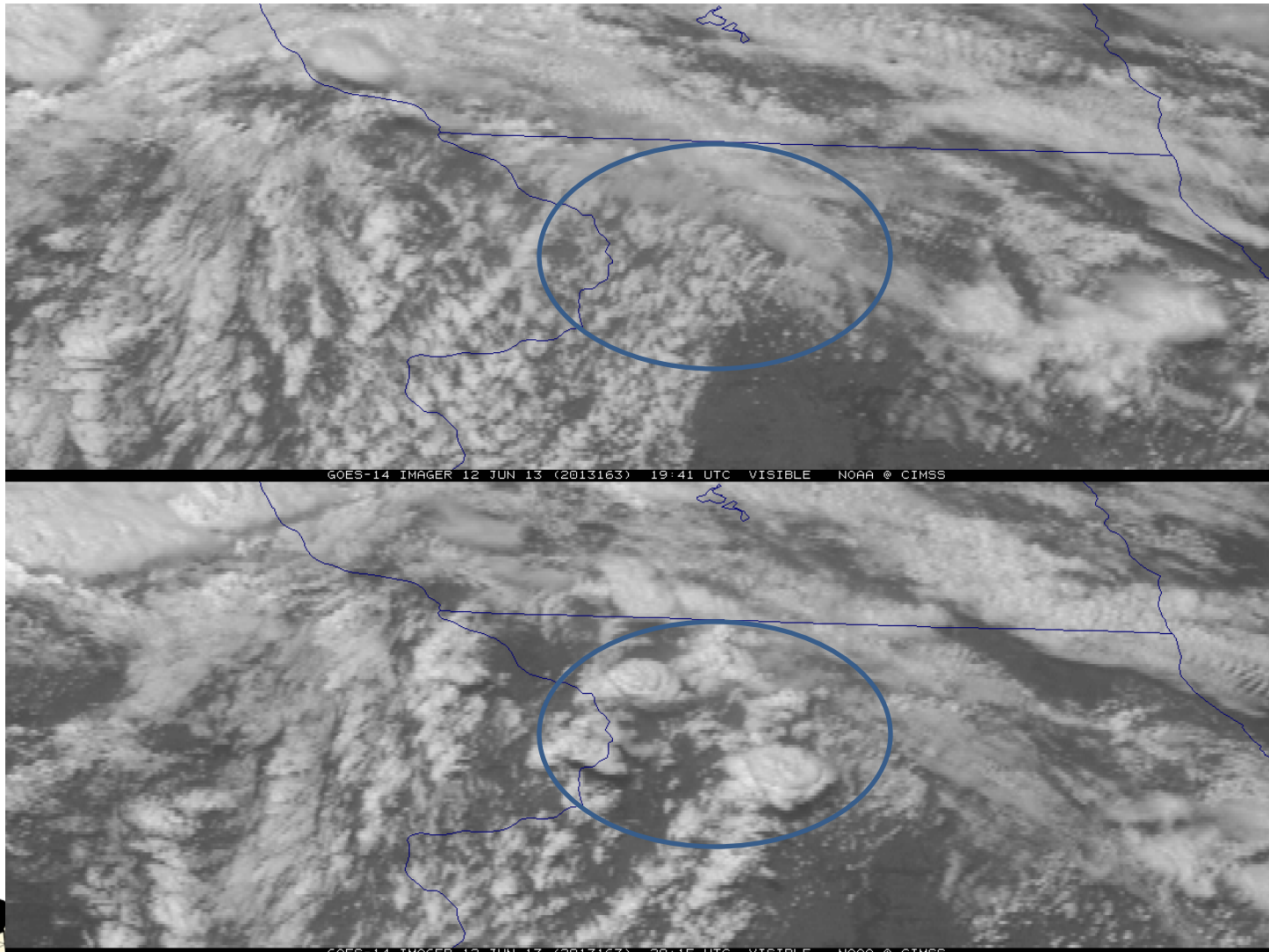
- Applications Technology Satellite (ATS)-1 was the first geostationary imager, launched 6 December 1966. Imaging instrument designer and SSEC (Madison, WI) co-founder, Verner E. Suomi, proclaimed, “*the clouds move, not the earth*”.

11 December 1966

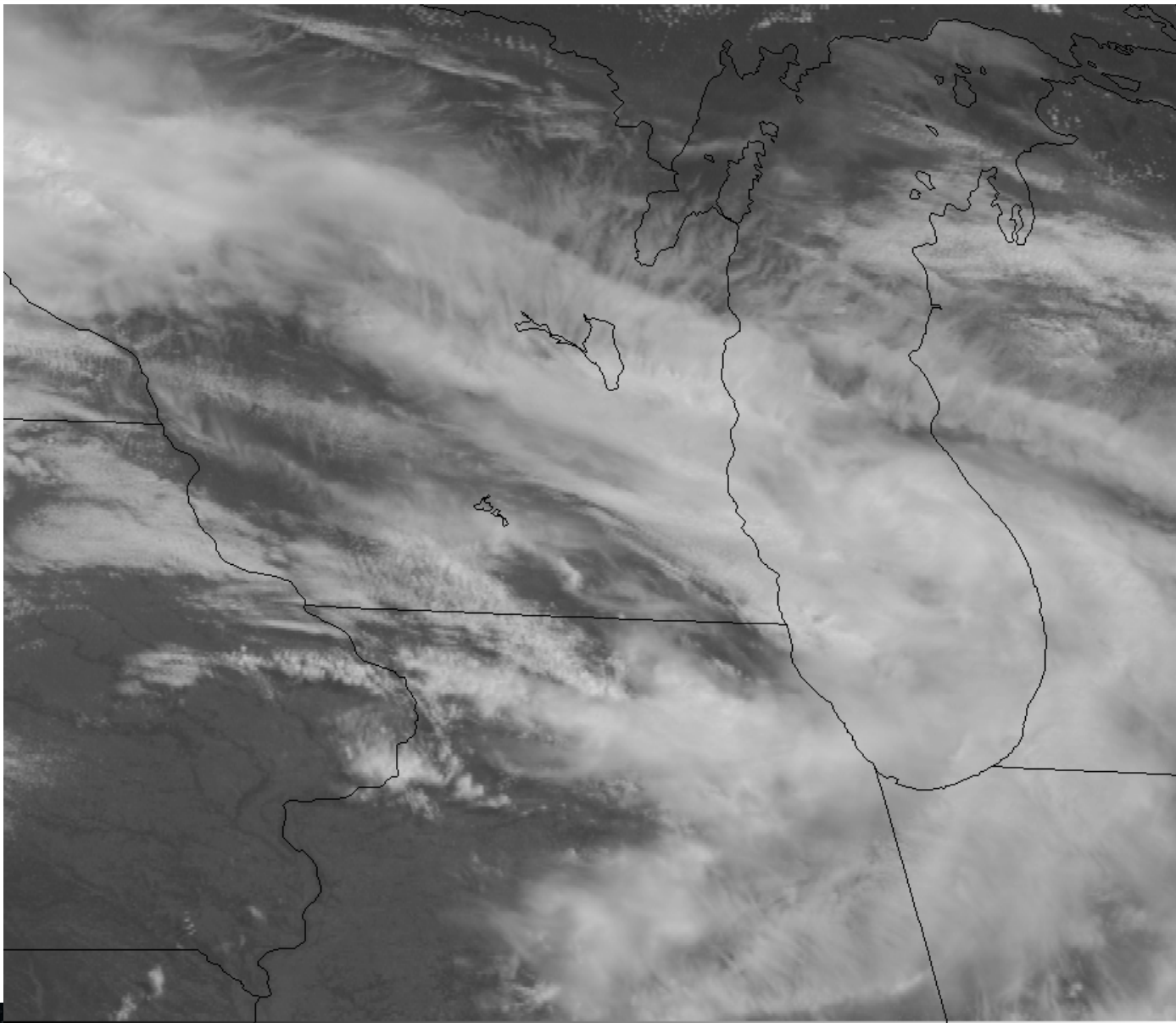


GOES-14 Imager SRSOR special imagery

showing rapid development during a data gap associated with a Full Disk scan on 12 June 2013. (Or, 'what can happen during one Full Disk scan?')



GOES-14 SRSOR



- More days of SRSOR expected in mid-August.

- http://cimss.ssec.wisc.edu/goes/srsor2013/GOES-14_SRSOR.html



GOES-14 Imager 2013 1-min imagery (SRSOR)

(Super Rapid Scan Operations for GOES-R)

GOES-14 Imager provided special 1-min data June 12th to the 14th, 2013. Also, GOES-14 will supply 1-min imagery during parts of mid-August, 2013. These test dates are slated to start on 20 August 2013, and end on August 28, 2013. These would be to support Global Hawk flights (or other targets of opportunity, similar to the SRSOR experiment in 2012). Dry run days are expected to be August 13-16. GOES-14 will be located near 105 degrees West. GOES-14 will return to storage mode on August 29, 2013.

SRSO for GOES-R Experiment [Plan](#).

GOES-14-relevant SRSOR links:

SSEC: [All bands at full coverage/resolutions](#) [With roam and zoom. Allows access to past days.]

SSEC Data Center kml files of Imager: [bands 1 and 4](#)

CIMSS [Satellite Blog](#)

CIRA loop of the [visible](#) and [infrared window](#) and [water vapor](#) [Note that the number at the end of the URL can be changed to show a different number of images.]

NSL loop of the [visible](#) and [infrared window](#)

GOES-14 SRSOR

SRSOR information from [2012](#)

The [SRSOR schedule](#) allows for 26 1-min images most 30 minute periods. Other [GOES schedules](#).

Daily Implementation of GOES-14 SRSOR Schedules

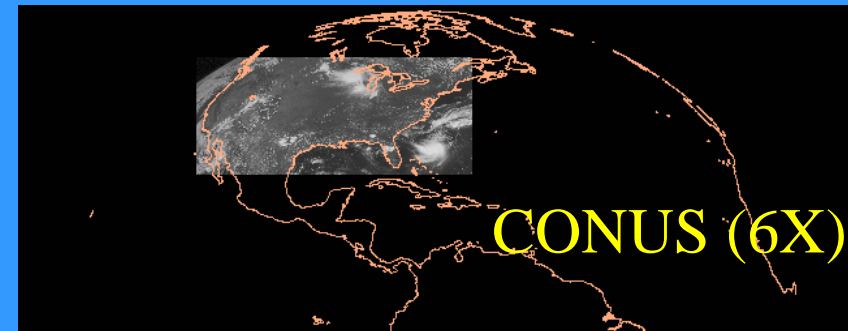
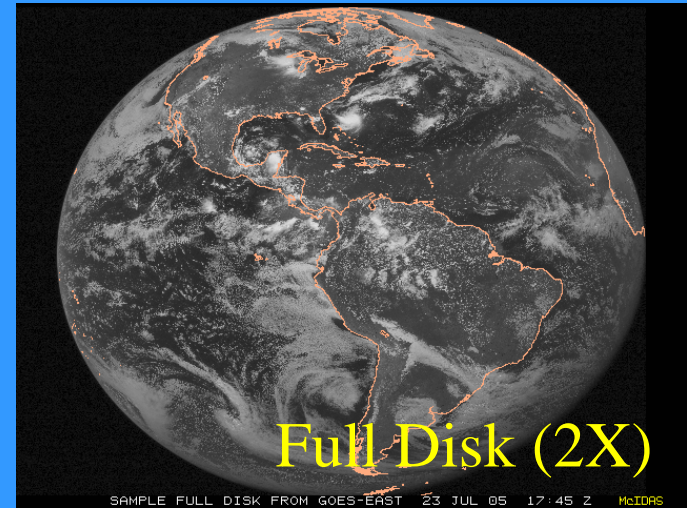
Starting Date [Julian Day] (Day of Week)	Test Schedule Name	Duration	Center Point (coverage)	Comments	Links (large files)
June 12 [163] (Wednesday)	SRSOR	163/ 16:14:30 UTC - 164/ 11:44:30 UTC	37N 85W	Moderate Risk over IL, IN, OH	IL IL (HD) MidWest (YouTube) GA GA (HD) Blog: IL
June 13 [164] (Thursday)	SRSOR	164/ 11:44:30 UTC - 165/ 12:14:30 UTC	36N 84W	Moderate Risk over MD, DE, etc	KY VA MidAtlantic (YouTube) Blog: Eastern US
August 13 [225] (Tuesday)	Dry run	225/ ??:14:30 UTC - 226/ ??:44:30 UTC	??N ??W	-	-
August 14 [226] (Wednesday)	Dry run	226/ ??:14:30 UTC - 227/ ??:44:30 UTC	??N ??W	-	-
August 15 [227] (Thursday)	Dry run	227/ ??:14:30 UTC - 228/ ??:44:30 UTC	??N ??W	-	-
August 16 [228] (Friday)	Dry run	228/ ??:14:30 UTC - 229/ ??:44:30 UTC	??N ??W	-	-
August 20 [232] (Tuesday)	SRSOR?	232/ ??:14:30 UTC - 233/ ??:44:30 UTC	??N ??W	-	-
August 21 [233] (Wednesday)	SRSOR?	233/ ??:14:30 UTC - 234/ ??:44:30 UTC	??N ??W	-	-
August 22 [234] (Thursday)	SRSOR?	234/ ??:14:30 UTC - 235/ ??:44:30 UTC	??N ??W	-	-
August 23 [235] (Friday)	SRSOR?	235/ ??:14:30 UTC - 236/ ??:44:30 UTC	??N ??W	-	-



ABI Spectral Bands

Future GOES imager (ABI) band	Wavelength range (μm)	Central wavelength (μm)	Nominal subsatellite IGFOV (km)
1	0.45–0.49	0.47	1
2	0.59–0.69	0.64	0.5
3	0.846–0.885	0.865	1
4	1.371–1.386	1.378	2
5	1.58–1.64	1.61	1
6	2.225–2.275	2.25	2
7	3.80–4.00	3.90	2
8	5.77–6.6	6.19	2
9	6.75–7.15	6.95	2
10	7.24–7.44	7.34	2
11	8.3–8.7	8.5	2
12	9.42–9.8	9.61	2
13	10.1–10.6	10.35	2
14	10.8–11.6	11.2	2
15	11.8–12.8	12.3	2
16	13.0–13.6	13.3	2

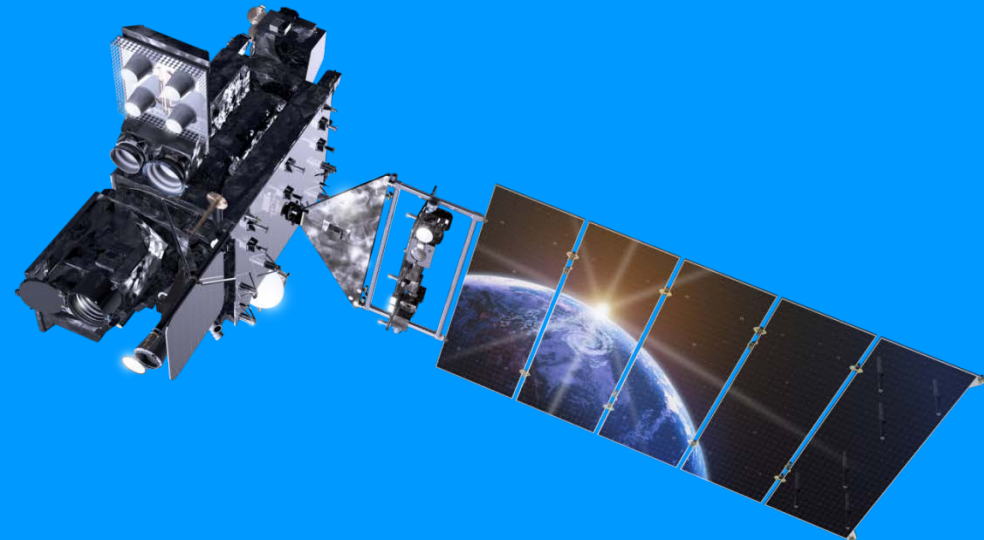
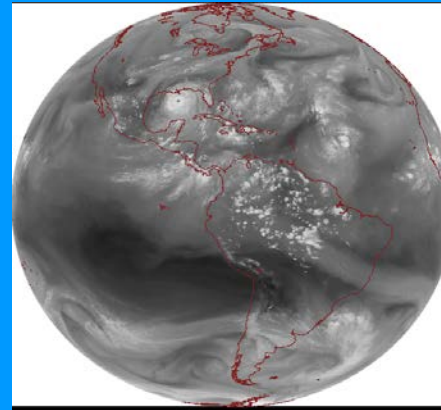
ABI Scans (in 30 min)



The next generation geostationary imager offers more bands, more often

Outline

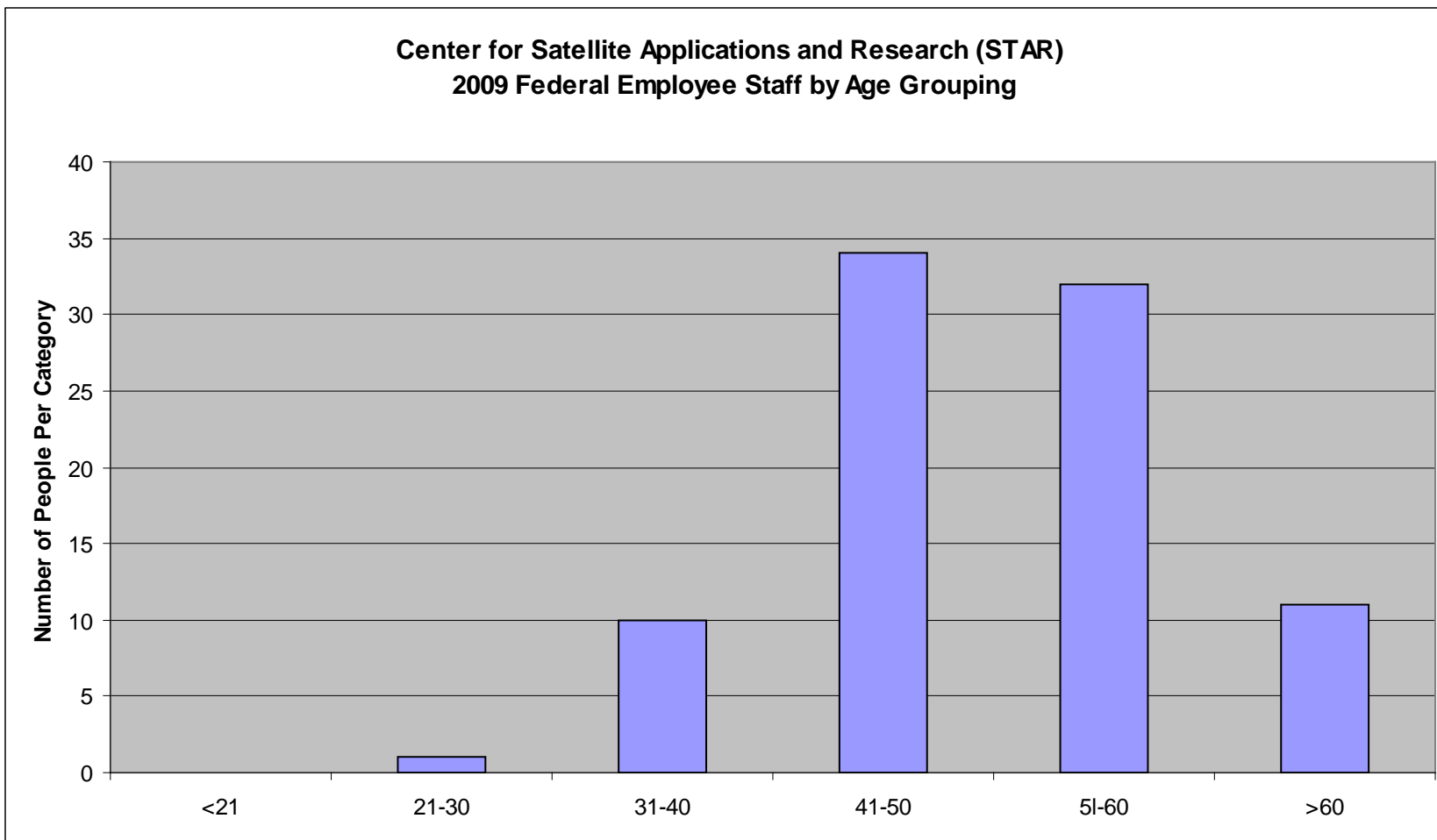
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STAR WORKFORCE

Age Distribution

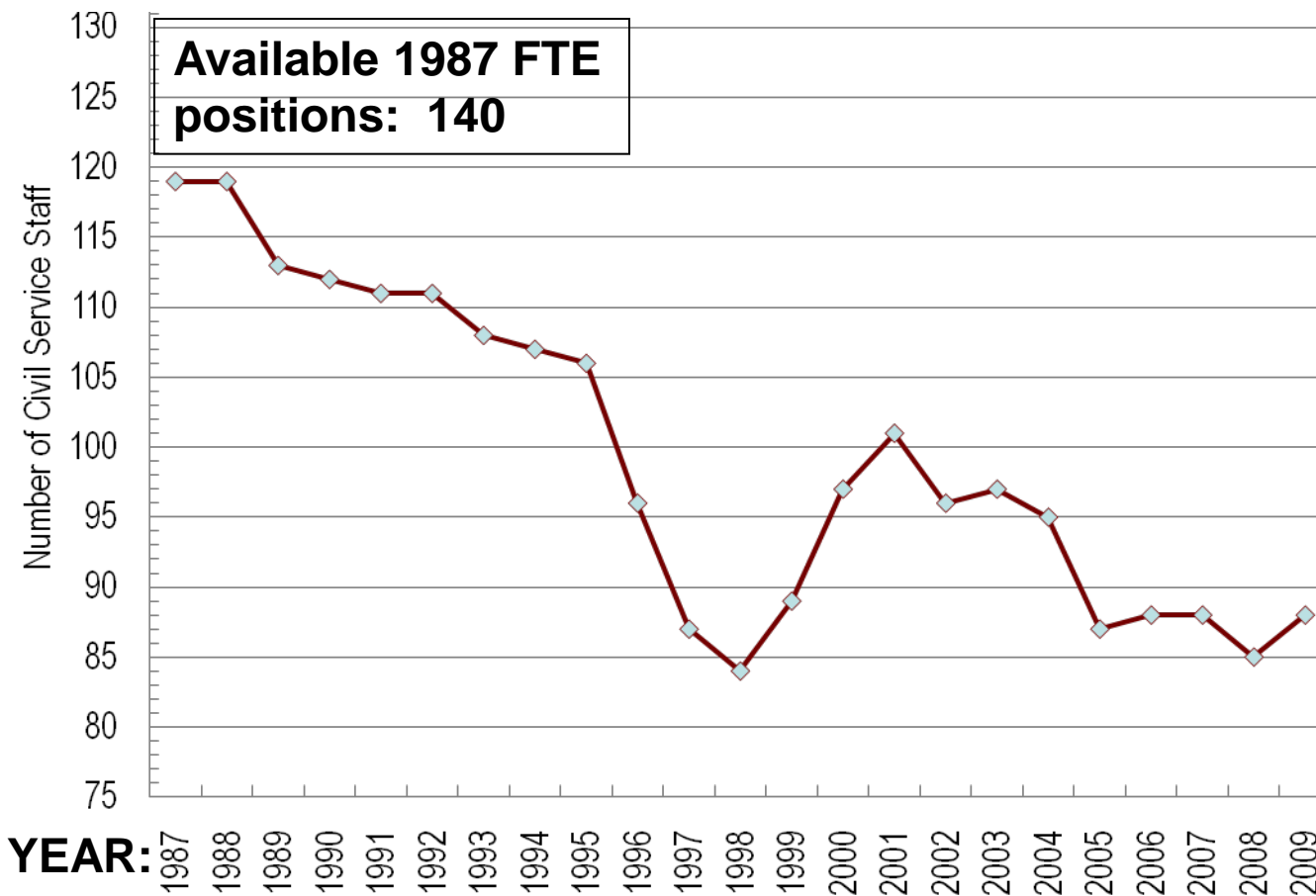


Approximately **40%** of STAR's workforce retired in the last 5 years
40% of STAR's workforce MAY RETIRE in the next 5 years



STAR FACTS

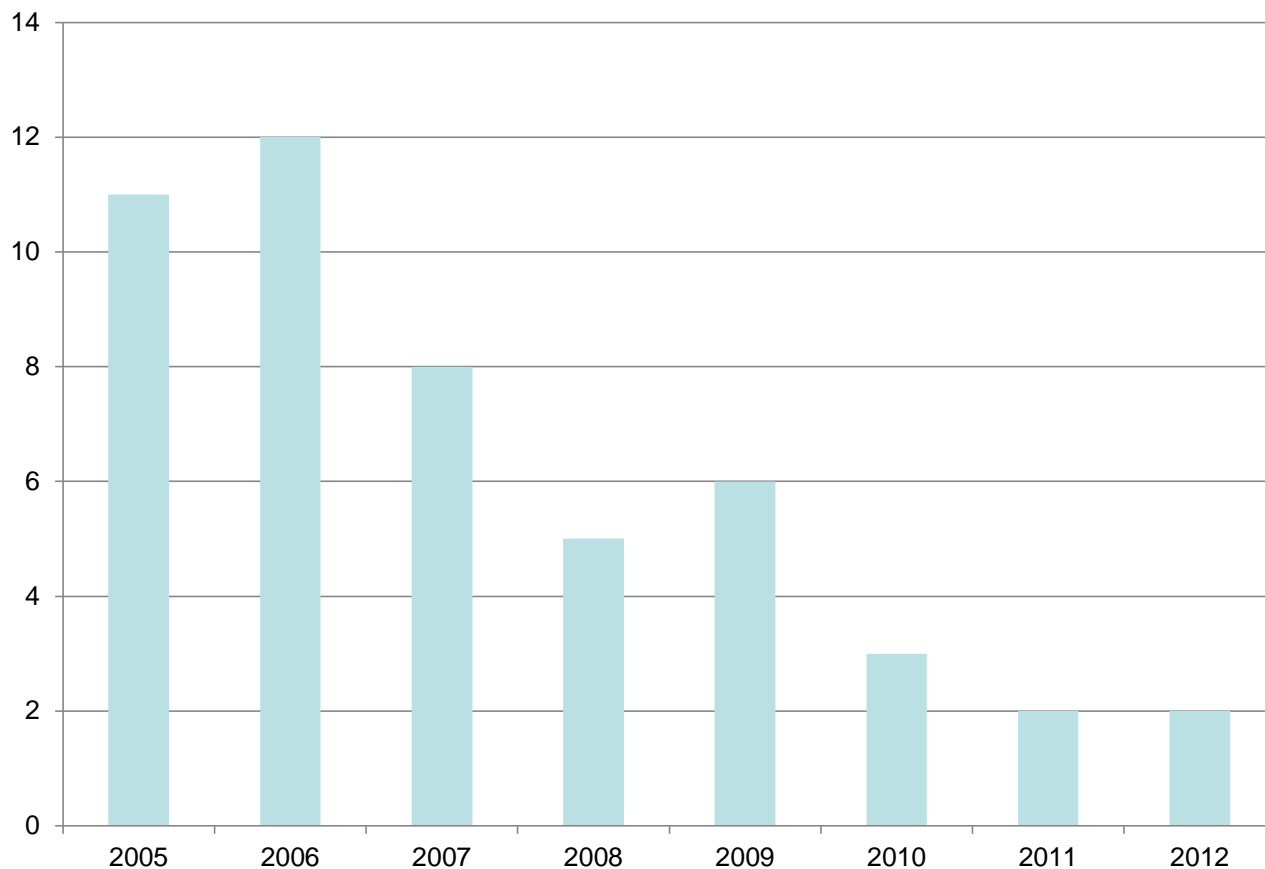
Civil Servant Staffing



STAR workforce planning is essential to maintain a viable science office



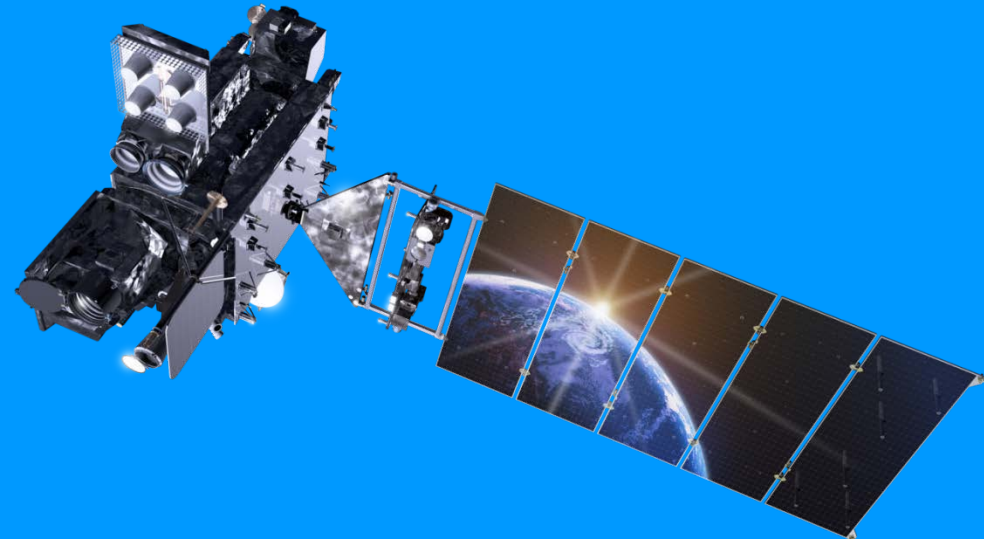
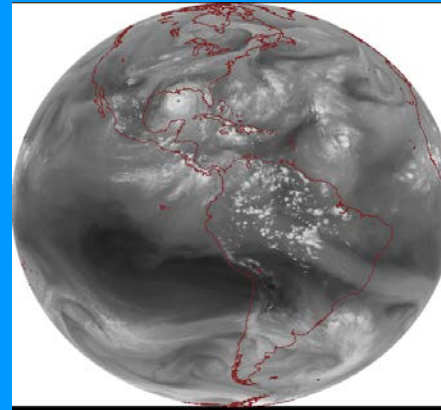
STAR WORKFORCE NUMBER OF RECENT HIRES



Turnover of STAR workforce may impact future readiness

Outline

- Introduction
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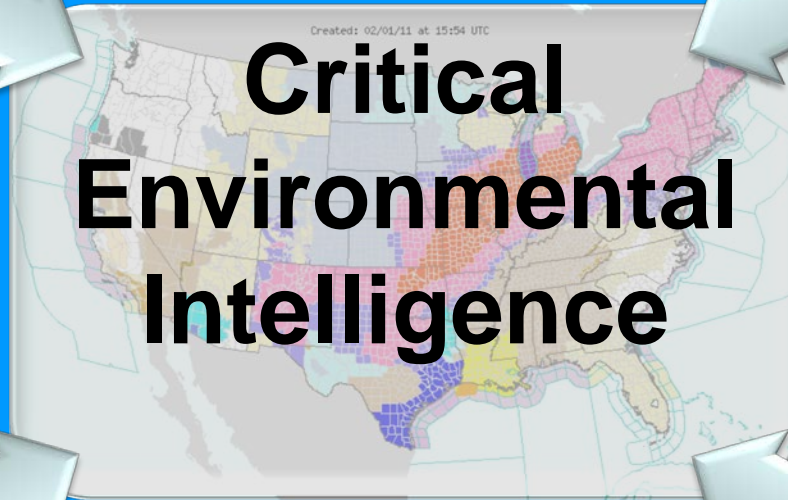
Four Pillars of NOAA



Observations



People



Computation & Modeling



Research

People are key for each pillar!

Options

- NOAA/NWS or NOAA/NESDIS
- DOE or DOI or EPA or FAA or NASA
- DoD (Airforce, Navy, etc.)
- “Government-support”
 - NOAA Cooperative Institutes, etc.
 - Contractors

Details

- **NOAA/NWS**: operational forecasters, modelers (NCEP), hydrologist, NHC, HPC, OPC, AWC, SPC, etc.
- **NOAA/NESDIS**: Satellite algorithm/product development and research; satellite operator, volcanic ash advisory, synoptic analysis, etc.
- **NOAA/NESDIS/OAR**: research, surface observing, etc.

Details

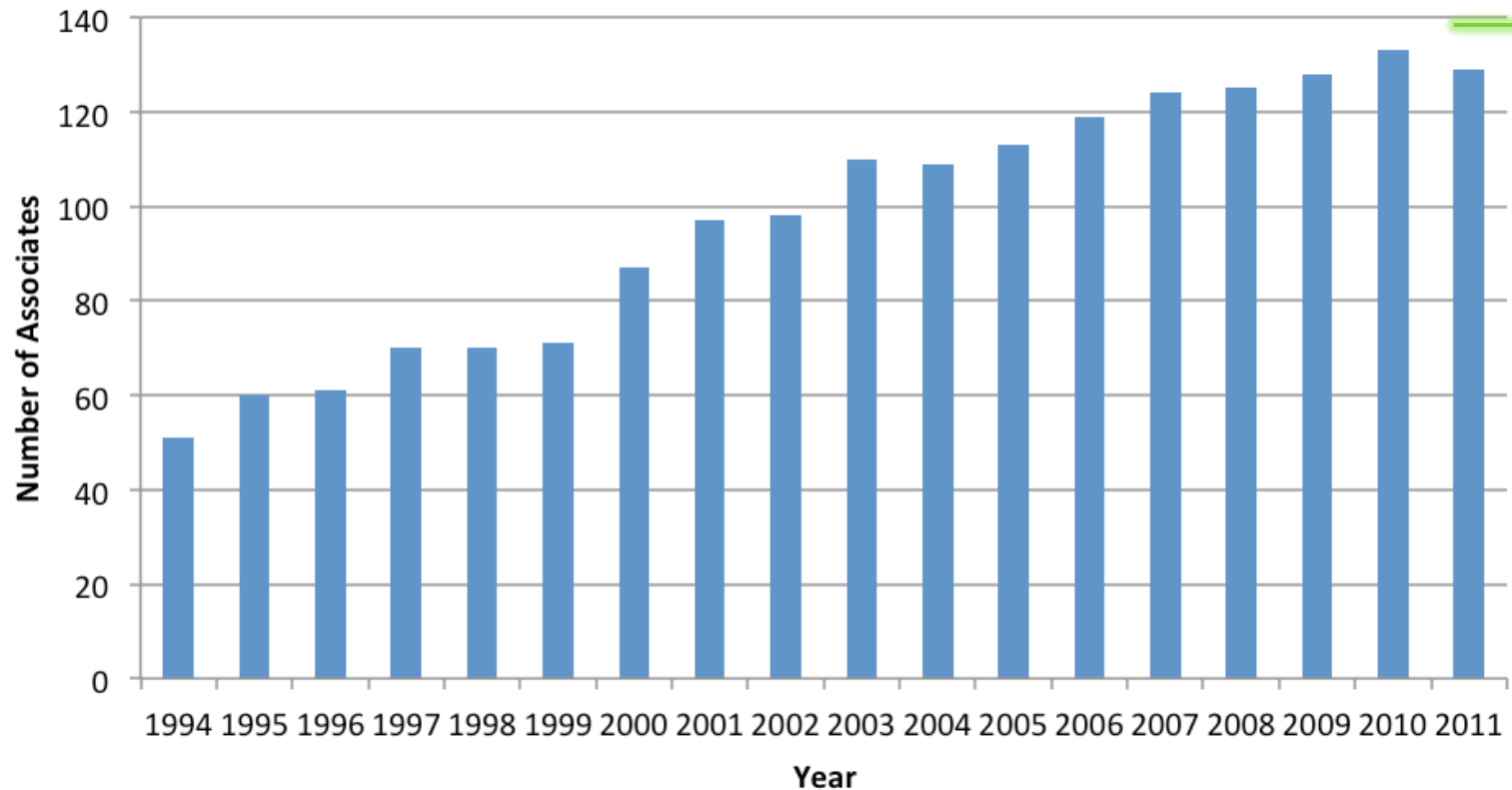
- **NASA**: satellite products, research, etc.
- **DOE** (Energy): solar, etc.
- **DOI** (Interior): wildfires, etc.
- **EPA**: air quality, etc.
- **DOA** (Agriculture): researcher, etc.
- **FAA**: 4-d data cube, hazards to aviation
- **DoD** (Airforce, Navy, etc.)
 - Operational forecasts
 - Modelers
 - Etc.

Details

- “Government-support”
 - NOAA Cooperative Institutes, UCAR, etc.
 - <http://www.nrc.noaa.gov/ci/locations/index.html>
 - Research on many topics
 - Contractors
 - <http://www.corpblogspot.org/>
 - Full range of support from operations to IT to research
 - <http://www2.ucar.edu/opportunities>

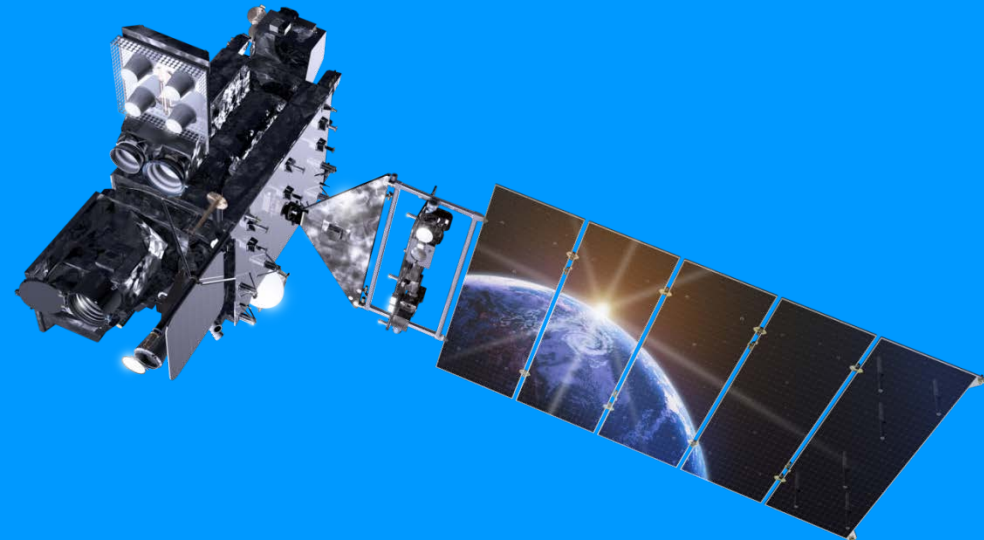
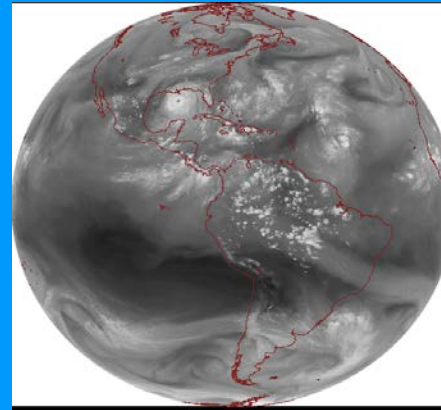
CIMSS Personnel (now 136)

CIMSS Personnel History



Outline

- Introduction
- The 'graying' of the workforce
- Options
- **Logistics**
- "Tips" and Links
- Questions



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Army Research Laboratory (ARL)

ARL

ARL is seeking Scientists and Engineers with advanced technical degrees

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 - + Posting Date

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 RSS Feed of This Search [?]

General Engineer/Physical Scientist [Save Job](#) [Quick View](#) [More Like This](#)

...doe.gov/offices/FAO/index.html)As a General Engineer or **Physical Scientist**, you will: Serve as line managements on-site technical...appropriate professional field). Basic Requirement for **Physical Scientist** 1301: Degree: physical science, engineering, or mathematics...

Department: Department Of Energy	Salary: \$89,664.00 - \$137,740.00 / Per Year
Agency: Department of Energy	Series & Grade: GS-0801/1301-13/14
Open Period: 9/10/2012 to 9/23/2012	Position Info: Full Time - Permanent
Who May Apply: All U.S. Citizens	Control Number: 325942900
Location(s): Warrenville, Illinois	JOA Number: CH-12-39-DEU

Physical Scientist, DR-1301-2/3/4 [Save Job](#) [Quick View](#) [More Like This](#)

...Acquisition Positions and are for anticipated vacancies.;MAJOR DUTIES: 1301 - General Physical Science Series: A **Physical Scientist** could have duties which includes involve professional work in the physical sciences. The duties could also include...

Department: Department of the Air Force	Salary: \$59,481.00 - \$129,517.00 / Per Year
Agency: Air Force Materiel Command	Series & Grade: DR-1301-02/04
Open Period: 7/1/2012 to 9/30/2012	Position Info: Full Time - Multiple Appointment Types
Who May Apply: United States Citizens	Control Number: 320496700
Location(s): Multiple Locations (9)	JOA Number: 9X12EHA-689576-000000-XB

Interdisciplinary (Physical Scientist/Microbiologist) [Save Job](#) [Quick View](#) [More Like This](#)

...Enterprise/Aberdeen Research Office.;As an Interdisciplinary (**Physical Scientist**/Microbiologist) , you will be responsible for the following...appropriate experience or additional education. For Series 1301 (**Physical Scientist**): Degree: physical science, engineering, or mathematics...

Department: Department of Defense	Salary: \$123,758.00 - \$155,500.00 / Per Year
Agency: Defense Threat Reduction Agency	Series & Grade: GS-0403/1301-15/15
Open Period: 8/22/2012 to 9/24/2012	Position Info: Full Time - Term NTE 4years
Who May Apply: US Citizens and Status Candidates	Control Number: 324559500
Location(s): Edgewood, Maryland	JOA Number: DTRA-12-730027

Environmental Engineer/Physical Scientist/Life Scientist, GS-0819/1301/0401-13/14 [Save Job](#) [Quick View](#) [More Like This](#)

...year professional engineering experience acquired under professional engineering supervision and guidance. For **Physical Scientist**: Physical science, engineering, or mathematics that included 24 semester hours in physical science and/or related...

Agency: Environmental Protection Agency	Salary: \$81,823.00 - \$125,695.00 / Per Year
Open Period: 9/17/2012 to 9/21/2012	Series & Grade: GS-0401/0819/1301-13/14
Who May Apply: Any U.S. citizen may apply.	Position Info: Full-time - Permanent
Location(s): Wheeling, West Virginia	Control Number: 326498900
	JOA Number: RTP-R3-DE-2012-0005

Supervisory Interdisciplinary General Engineer/Physical Scientist [Save Job](#) [Quick View](#) [More Like This](#)

...engineering experience under professional engineering supervision/guidance. BASIC EDUCATION REQUIREMENT TO QUALIFY IN **PHYSICAL SCIENTIST** 1301 SERIES: A. Degree: physical science, engineering, or mathematics that included 24 semester hours in physical...

Department: Department of the Army	Salary: \$105,702.00 - \$155,500.00 / Per Year
Agency: U.S. Army Research, Development and Engineering Command	Series & Grade: DB-0801/1301-04/04
Open Period: 9/11/2012 to 9/24/2012	Position Info: Full Time - Term NTE 1Year, 1Day
Who May Apply: United States Citizens	Control Number: 325755500
Location(s): Natick, Massachusetts	JOA Number: NEDB12047822740950D



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 RSS Feed of This Search **2**

Physical Scientist/Geophysicist, GS-1301/1313-14/15, MP-PERM-DB [Save Job](#) [Quick View](#) [More Like This](#)

...position that may be filled as a **Physical Scientist** or Geophysicist and is being advertised...part of the selection process.;As a **Physical Scientist** or Geophysicist within the Office...preview questions please click here .; **Physical Scientist** GS-1301 For information on basic...

Department: Department Of The Interior
Agency: Geological Survey
Open Period: 9/4/2012 to 9/27/2012
Who May Apply: Current or former Federal employees with competitive status or who are eligible ...
Location(s): [Multiple Locations \(2\)](#)

Salary: \$105,211.00 - \$155,500.00 / Per Year
Series & Grade: GS-1301/1313-14/15
Position Info: Permanent - Full-Time
Control Number: 325368200
JOA Number: ATL-2012-0714

General Engineer/Physical Scientist [Save Job](#) [Quick View](#) [More Like This](#)

...doe.gov/offices/FAO/index.html;As a General Engineer or **Physical Scientist**, you will: Serve as line managements on-site technical...appropriate professional field). Basic Requirement for **Physical Scientist** 1301: Degree: physical science, engineering, or mathematics...

Department: Department Of Energy
Agency: Department of Energy
Open Period: 9/10/2012 to 9/23/2012
Who May Apply: Current/Former Federal employees with competitive status. Interagency Career Tra...
Location(s): Warrenville, Illinois

Salary: \$89,664.00 - \$137,740.00 / Per Year
Series & Grade: GS-0801/1301-13/14
Position Info: Full Time - Permanent
Control Number: 325941600
JOA Number: CH-12-39-MP

General Engineer/Physical Scientist [Save Job](#) [Quick View](#) [More Like This](#)

...doe.gov/offices/FAO/index.html;As a General Engineer or **Physical Scientist**, you will: Serve as line managements on-site technical...appropriate professional field). Basic Requirement for **Physical Scientist** 1301: Degree: physical science, engineering, or mathematics...

Department: Department Of Energy
Agency: Department of Energy
Open Period: 9/10/2012 to 9/23/2012
Who May Apply: All U.S. Citizens
Location(s): Warrenville, Illinois

Salary: \$89,664.00 - \$137,740.00 / Per Year
Series & Grade: GS-0801/1301-13/14
Position Info: Full Time - Permanent
Control Number: 325942900
JOA Number: CH-12-39-DEU

INTERDISCIPLINARY: SUPERVISORY PHYSICAL SCIENTIST / SUPERVISORY ELECTRONICS ENGINEER [Save Job](#) [Quick View](#) [More Like This](#)

...interdisciplinary position to be filled as a GS-1301-13 Supervisory **Physical Scientist** OR a GS-0855-13 Supervisory Electronics Engineer position...degree, or the equivalent. BASIC REQUIREMENTS: Supervisory **Physical Scientist**, 1301 A. Degree: physical science, engineering, or mathematics...

Department: Department of the Air Force
Agency: Air Force Materiel Command
Open Period: 9/11/2012 to 9/17/2012
Who May Apply: Status Candidates (Merit Promotion and VEOA Eligibles)
Location(s): Hill AFB, Utah

Salary: \$81,823.00 - \$106,369.00 / Per Year
Series & Grade: GS-0855/1301-13/13
Position Info: Multiple Schedules - Multiple Appointment Types
Control Number: 326113900
JOA Number: 8L-Hill-691933-RDS

Physical Scientist, DR-1301-2/3/4 [Save Job](#) [Quick View](#) [More Like This](#)

...Acquisition Positions and are for anticipated vacancies.;MAJOR DUTIES: 1301 - General Physical Science Series: A **Physical Scientist** could have duties which includes involve professional work in the physical sciences. The duties could also include...

Department: Department of the Air Force
Agency: Air Force Materiel Command
Open Period: 7/1/2012 to 9/30/2012
Who May Apply: United States Citizens
Location(s): [Multiple Locations \(9\)](#)

Salary: \$59,481.00 - \$129,517.00 / Per Year
Series & Grade: DR-1301-02/04
Position Info: Full Time - Multiple Appointment Types
Control Number: 320496700
JOA Number: 9X12EHA-689576-000000-XB

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Overview Duties Qualifications & Evaluations Benefits & Other Info How to Apply

National Oceanic And Atmospheric Administration

Job Title: Physical Scientist, ZP-1301-04 (MAP)
Department: Department Of Commerce
Agency: National Oceanic and Atmospheric Administration
Job Announcement Number: NSDIS-OSPO-2012-0050

SALARY RANGE: \$89,033.00 to \$136,771.00 / Per Year
OPEN PERIOD: Wednesday, September 12, 2012 to Tuesday, September 18, 2012
SERIES & GRADE: ZP-1301-4
POSITION INFORMATION: Competitive: Career/Career-Conditional - Permanent-Full Time
PROMOTION POTENTIAL: 4
DUTY LOCATIONS: 1 vacancy in the following location:
 Suitland, MD, US [View Map](#)
WHO MAY BE CONSIDERED: *Current Federal employees serving under a career or career-conditional appointment in the competitive service; *Former Federal employees with reinstatement eligibility; *CTAP/ICTAP eligibles; *Applicants eligible under special hiring authorities; *Veterans who are preference eligible, or separated from the US Armed Forces under honorable conditions after 3 years or more of continuous active service, may apply under the Veterans Employment Opportunity Act (VEOA).

JOB SUMMARY:
 NESDIS is looking for great people to manage our world-class operations. Our satellites monitor US and global weather conditions and we also have three world-class data centers. The data from NESDIS satellites help save lives and resources. Come be a part of NESDIS!

This position will be located in the National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite, Data & Information Service (NESDIS), Office of Satellite and Product Operation (OSPO), Mission Operations Division, Engineering Branch located in Suitland, Maryland.

The Office of Satellite and Product Operations (OSPO) manages and directs NOAA's 24x7 environmental satellite operations, acquisition, product development and the distribution of environmental data and derived products to domestic and foreign users, and associated services. The environmental data, products and services are used to support analyses for environmental watches, warnings, forecasts and long-term climate analyses. The OSPO works with the Office of Systems Development, the Center for Satellite Applications and Research, and satellite acquisition programs in planning and developing new satellites, ground systems, supporting the transition of research products to operations, and major modifications of existing systems. The OSPO provides planning, management, and coordination with the National Weather Service, U.S. Air Force and U.S. Navy and other users for exchange of environmental satellite data. The OSPO assesses, recommends, and plans for the acquisition and initiation of environmental satellite products and services with the United States and international community. The OSPO manages NOAA's Search and Rescue Satellite Aided Tracking (SARSAT) system, and coordinates participation in the International Cospas-Sarsat Program. The OSPO manages the strategic and tactical environmental and oceanographic ice services at the National Ice Center for the operational requirements of U.S. national interests and the United States government agencies.

This position will be filled under the DOC Alternative Personnel System (CAPS). This system replaced the Federal GS pay plan and structure. Under CAPS, positions are classified by career, pay plan, and pay band. The ZP-4 is equivalent to the GS-13/14.

This position is also being advertised as a Physical Scientist, ZP-1301-4 under announcement number NSDIS-OSPO-2012-0051 (open to the public). You must apply separately under each announcement to be considered for each announcement.

Payment of relocation expenses is NOT authorized. A one-year probationary period may be required. This is a non-bargaining position. Additional vacancies may be filled under this

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Agency Information:
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NOAA/WFMO Client Services Division
 601 E 12th Street
 Room 1737
 Kansas City, MO 64106
 US
 Fax: 000-000-0000

Questions about this job:
 Janet Rizzi
 Phone: 816-426-5916
 Fax: 000-000-0000
 Email: Janet.L.Rizzi@noaa.gov

Job Announcement Number: NSDIS-OSPO-2012-0050
Control Number: 326212300

Watch close dates.

[Back to Results](#)

Overview Duties Qualifications & Evaluations Benefits & Other Info How to Apply

National Oceanic And Atmospheric Administration

Job Title: Hydrologist (Hydrologic Forecaster) GS-1315-07/09/11/12 (DE/CR)
Department: Department Of Commerce
Agency: National Oceanic and Atmospheric Administration
Job Announcement Number: NWS-SR-2012-0185

SALARY RANGE: \$41,002.00 to \$94,551.00 / Per Year
OPEN PERIOD: Tuesday, September 04, 2012 to Monday, September 17, 2012
SERIES & GRADE: GS-1315-07/12
POSITION INFORMATION: Career/Career-conditional - Permanent, Full-time
PROMOTION POTENTIAL: 12
DUTY LOCATIONS: 1 vacancy in the following location:
Fort Worth, TX, US [View Map](#)
WHO MAY BE CONSIDERED: All qualified United States citizens.

JOB SUMMARY:

Your Career Forecast is Sunny and Bright with the National Weather Service (NWS). The NWS, the world's preeminent weather and atmospheric sciences organization, offers you an opportunity to help protect American lives and property. Since 1870, NWS has served the public by providing forecasts and hazardous weather warnings while studying the most dynamic forces of nature. Contribute your talents to this tradition. NWS...Working together to save lives.

This position is located in the National Weather Service, River Forecast Center (RFC), Fort Worth, TX.

Salary Information (which includes locality pay):

- GS-7: \$41,002 - \$53,307
- GS-9: \$50,154 - \$65,196
- GS-11: \$60,681 - \$78,883
- GS-12: \$72,733 - \$94,551

This position is also being advertised under Vacancy Announcement NWS-SR-2012-0184 (status candidates). You must apply separately under each announcement in order to be considered for each announcement.

Relocation expenses are NOT authorized.

A one-year probationary period may be required.

This is a bargaining position.

Additional vacancies may be filled under this announcement.

KEY REQUIREMENTS

- U.S. Citizen.
- Suitable for Federal employment.
- Registered for Selective Service if applicable (www.sss.gov)
- Qualification requirements must be met by closing date of the announcement.

DUTIES:

The individual selected for this position will:

[Dock](#)

Go to section of this Job:

- [Apply Online](#)
- [Print Preview](#)
- [Save Job](#)
- [Share Job](#)

Agency Information:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
WFMO/ Client Services Division
601 E 12th Street
Room 1737
Kansas City, MO 64106
US
Fax: 000-000-0000

Questions about this job:
Linda Moore
Phone: 816-426-2087
Fax: 000-000-0000
Email: Linda.S.Moore@noaa.gov

Job Announcement Number: NWS-SR-2012-0185

Control Number: 325604100

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Welcome Students and Recent Graduates



PATHWAYS

FOR STUDENTS & RECENT GRADUATES
TO FEDERAL CAREERS

Under President Obama's leadership, the Federal Government has taken steps to help students and recent graduates join the Federal service. New opportunities will appear on USAJOBS as agencies post them this fall. We encourage you to visit this site periodically, or set up a [saved search](#).

UPDATE (August 2012): Get the most from your job search with our [video tutorial](#). We'll walk you through how to find internships and entry-level jobs and how to set up an automatic search.

[Search Jobs](#)

Additional Resources

- [Federal Jobs by College Major](#)
 - [Pathways FAQs](#)
 - [A-Z List of Federal Agencies](#)
 - [Volunteer Service](#)
 - [Go Government](#)
- For important information on Federal employment, please visit our [Resource Center](#).

What you need to know about the Pathways Programs...

Pathways for the Students and Recent Graduates ... Share More info

Pathways



https://www.usajobs.gov/studentsandgrads

The Pathways Programs offer clear paths to Federal internships for students from high school through post-graduate school and to careers for recent graduates, and provide meaningful training and career development opportunities for individuals who are at the beginning of their Federal service. As a student or recent graduate, you can begin your career in the Federal government by choosing the path that best describes you and where you are in your academics:

- Internship Program:** This program is for current students enrolled in a wide variety of educational institutions from high school to graduate level, with paid opportunities to work in agencies and explore Federal careers while still in school. [Additional information about the Internship Program.](#)
- Recent Graduates Program:** This program is for individuals who have recently graduated from qualifying educational institutions or programs and seek a dynamic, career development program with training and mentorship. To be eligible, applicants must apply within two years of degree or certificate completion (except for veterans precluded from doing so due to their military service obligation, who will have up to six years to apply). [Additional information about the Recent Graduates Program.](#)
- Presidential Management Fellows Program:** For more than three decades, the PMF Program has been the Federal government's premier leadership development program for advanced degree candidates. This program is now for individuals who have received a qualifying advanced degree within the preceding two years. For complete program information, visit: www.pmf.gov.

For additional information on the Pathways Programs overall, please visit:
<http://www.opm.gov/HiringReform/Pathways/>.

US Bureau of Labor Statistics: <http://www.bls.gov/ooh/Life-Physical-and-Social-Science/Atmospheric-scientists-including-meteorologists.htm#tab-6>

Atmospheric Scientists, Including Meteorologists : Occupational Outlook Handbook : U.S. Bureau of Labor Statistics - Mozilla Firefox

www.bls.gov/ooh/Life-Physical-and-Social-Science/Atmospheric-scientists-including-meteorologists.htm#tab-6

UNITED STATES DEPARTMENT OF LABOR
BUREAU OF LABOR STATISTICS

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OCCUPATIONAL OUTLOOK HANDBOOK

Life, Physical, and Social Science >

Atmospheric Scientists, Including Meteorologists

Summary | What They Do | Work Environment | How to Become One | Pay | **Job Outlook** | Similar Occupations | Contacts for More Info

Job Outlook

Employment of atmospheric scientists is projected to grow by 11 percent from 2010 to 2020, about as fast as the average for all occupations. New computer models have vastly improved the accuracy of forecasts and allow atmospheric scientists to tailor forecasts to specific purposes. This should increase the need for atmospheric scientists working in private industry as businesses demand more specialized weather information.

Job Prospects

Prospective atmospheric scientists should expect competition because the number of graduates from meteorology programs is expected to exceed the number of job openings. Workers with a graduate degree should enjoy better prospects than those whose highest level of education is a bachelor's degree.

Competition may be strong for research positions at colleges and universities because of the limited number of positions available. Few opportunities are expected in federal government because atmospheric scientists will be hired only to replace workers who retire or leave for other reasons. Budget constraints are also expected to limit hiring by federal agencies such as the National Weather Service. The best job prospects for meteorologists will be in private industry.

Atmospheric Scientists, Including Meteorologists

Percent change in employment, projected 2010-20

Category	Percent Change
Life, Physical, and Social Science Occupations	16%
Total, All Occupations	14%
Atmospheric Scientists, Including Meteorologists	11%

Note: All Occupations includes all occupations in the U.S. Economy.
 Source: U.S. Bureau of Labor Statistics, Employment Projections program

Employment projections data for atmospheric scientists, including meteorologists, 2010-20

Occupational Title	SOC Code	Employment, 2010	Projected Employment, 2020	Change, 2010-20		Employment by Industry
				Percent	Numeric	
Atmospheric and Space Scientists	19-2021	9,500	10,400	11	1,000	[XLS]

SOURCE: U.S. Bureau of Labor Statistics, Employment Projections program

SUGGESTED CITATION:
 Bureau of Labor Statistics, U.S. Department of Labor
 on the Internet at <http://www.bls.gov/ooh/life-physical-and-social-science/atmospheric-scientists-including-meteorologists.htm> (visited September 19, 2012).

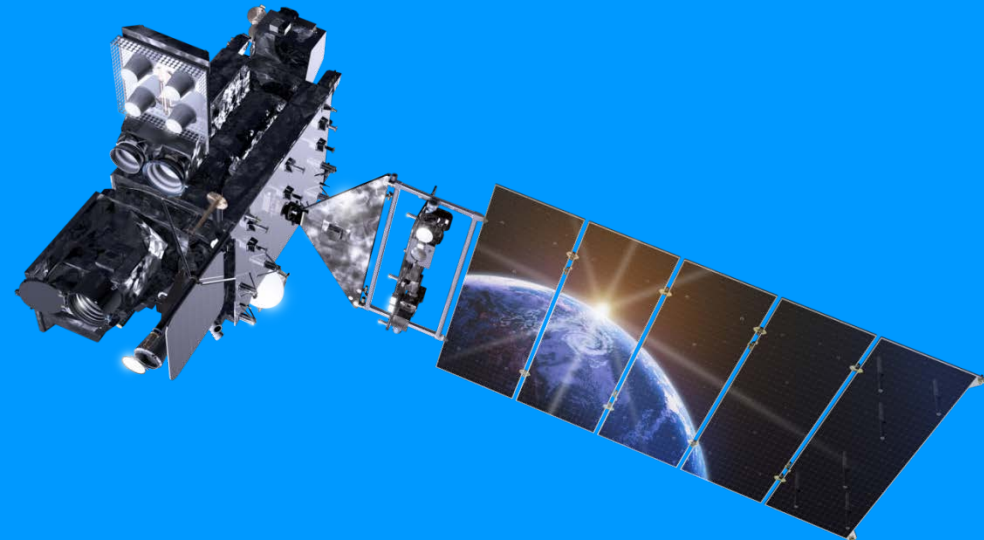
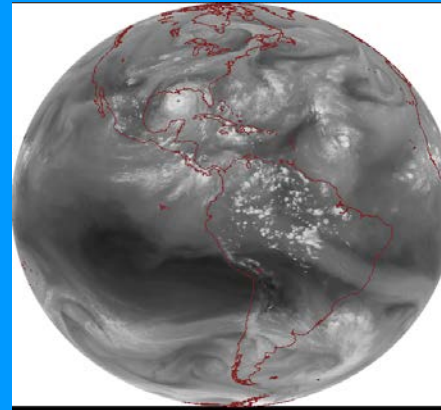
Atmospheric scientists...projected to grow by 11%...

US Bureau of Labor Statistics:

- Prospective atmospheric scientists **should expect competition** because the number of graduates from meteorology programs is expected to exceed the number of job openings.
- Workers with a **graduate degree** should enjoy better prospects than those whose highest level of education is a bachelor's degree.
- **Competition may be strong for research positions** at colleges and universities because of the limited number of positions available.
- **Few opportunities are expected in federal government** because atmospheric scientists will be hired only to replace workers who retire or leave for other reasons.
- The best job prospects for meteorologists will be in **private industry**.

Outline

- Introduction
- The 'graying' of the workforce
- Options
- Logistics
- "Tips" and Links
- Questions



“Tips”

- Gain experience to stand apart
 - Take more courses than required
 - Consider getting a minor
 - Get a masters degree
 - Computer skills (programming, web, etc.)
 - Consider for internships, coops, Student Career Experience Program (SCEP), etc.
 - Business / management courses

“Tips”

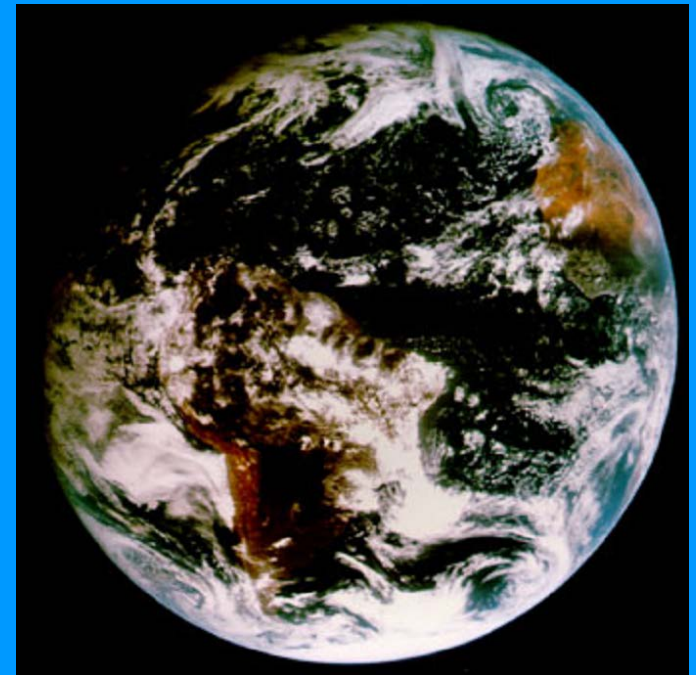
- "You can't teach enthusiasm!"
- Do your homework about the agency/group
- Be flexible wrt location, other options await
- Join profession groups (NWA, AMS, etc.)
- “You only need one job”
- Don't be shy – advertise yourself
- Get involved, network (+ social media)
- Investigate ‘government-support’ positions, such as at NOAA Cooperative Institutes or contractors

Select Links

- <https://www.usajobs.gov/>
- http://www.careers.noaa.gov/special_programs.html
- <http://www.theweatherprediction.com/jobs/>
- <http://www.navy.com/careers.html>
- <http://www.airforce.com/careers/>
- <http://jobs.faa.gov/>
- <http://www.bls.gov/ooh/Life-Physical-and-Social-Science/Atmospheric-scientists-including-meteorologists.htm>
- <http://www.nwas.org/jobs.php> (member portal)

Outline

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Questions?

