

Climate Change Here and Now: Communicating and Teaching About Climate Change

THE PROCESS OF SCIENCE

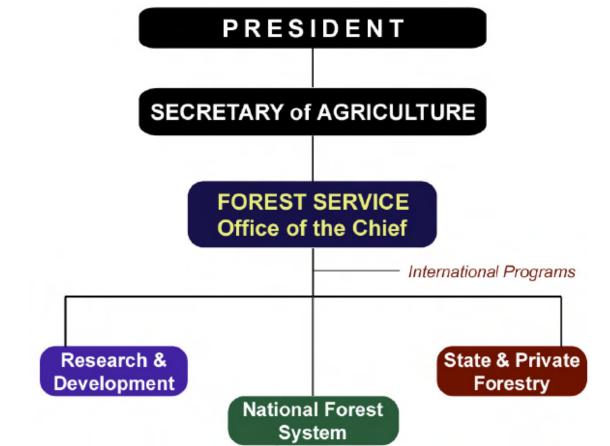
Safiya Samman, Ph.D U.S. Forest Service Director, Conservation Education Program





The Forest Service

MAIN BRANCHES OF THE FOREST SERVICE

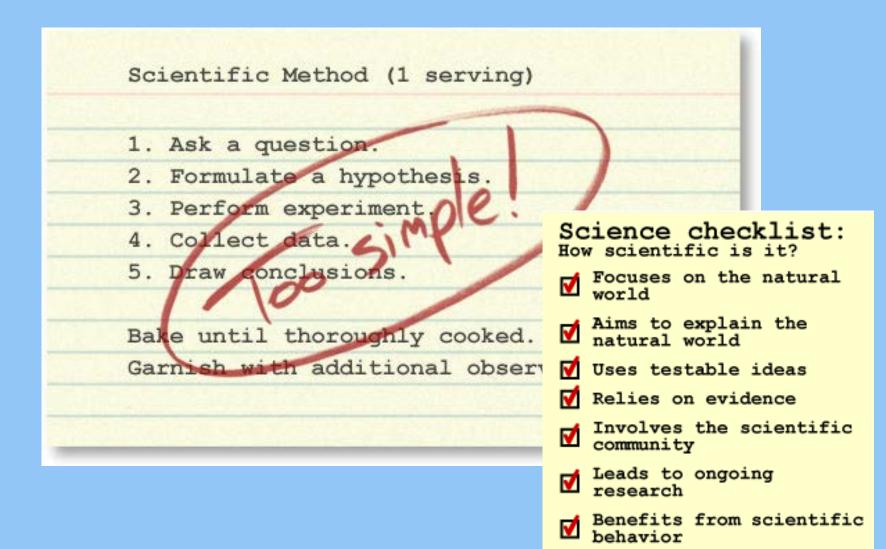




Climate Change Here and Now

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Organization		TAR		Follow up to P-	32 Decisions
Working Groups / Task Force			And the second division of the second divisio	n October 2010,	
Activities		rraced rice fields of Bali, Indonesia thusbertrand.org /		32nd Session recommendations	welcomed the of an
Calendar of Meetings	www.goodpl			independent reviev the InterAcademy	
Meeting Documentation			La Come	PCC member agreed to work in	Governments
News and Outreach			the second s	to take forwa	rd the IAC's
Publications and Data	the state			recommendations 1) Procedures;	
Presentations and Speeches				 Covernance and Conflict of Intere 	
IPCC Scholarship Programme				4) Communication	s Strategy.
Links	IRCC Fifth A	ort (ADS) nou underwa		Following discuss February 2011, th	
Contact	IPCC Fifth Assessment Repo	ort (ARS) now underwa	A DOCTOR OF THE OWNER OF THE OWNE	are consulting with	the Members of
Constant and the	IPCC Fifth Assessment Report (AR5)			the IPCC for their initial comments. Revised proposals by the task groups will be submitted for formal consideration by the Panel at its 33rd Session in Abu Dhabi on 10- 13 May 2011. These documents	
	AR5 Outline and Reference Material	AR5 Lead Author Meeting	3	will be available fo the Session. You	
© © The Nobel Foundation	Key documents approved at the 31st Session of the IPCC, are provided in one compiled AR5 reference document (PDF).	The first AR5 Lead Author meetin follows for each Working Group (WG)	igs are as	about the remit of groups in th Documentation for	of the four task is document. the May Session
IPCC honoured with the 2007 Nobel Peace Prize	AR5 Authors	 WG I First Lead Author meeting, No. 11 2010, Kunming (China) WG II First Lead Author meeting, Ja 14 2011, Tsukuba (Japan) 	vernoer o-	Plenary will be website. New	posted on this
	Lin 24 June 2010, the IPCC announced that 831		1		

Process of Science





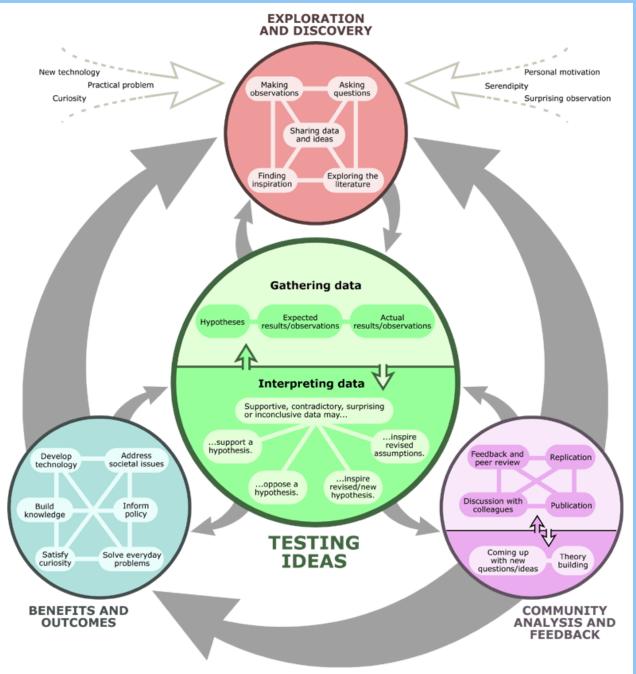
Process of Science What is Science?

- 1. Science is both a body of knowledge and a process
- 2. Science is exciting
- 3. Science is useful
- 4. Science is ongoing

5. Science is a global human endeavor

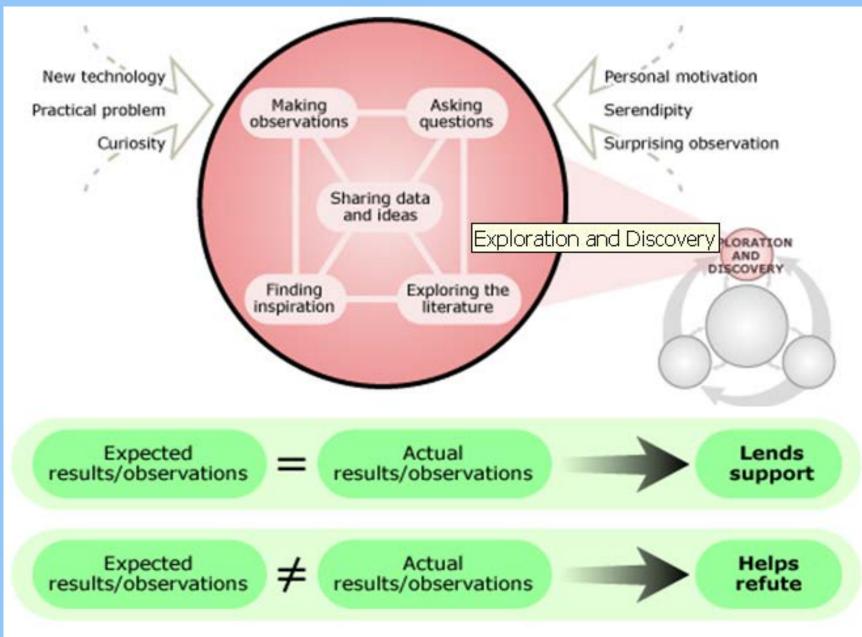


Process of Science

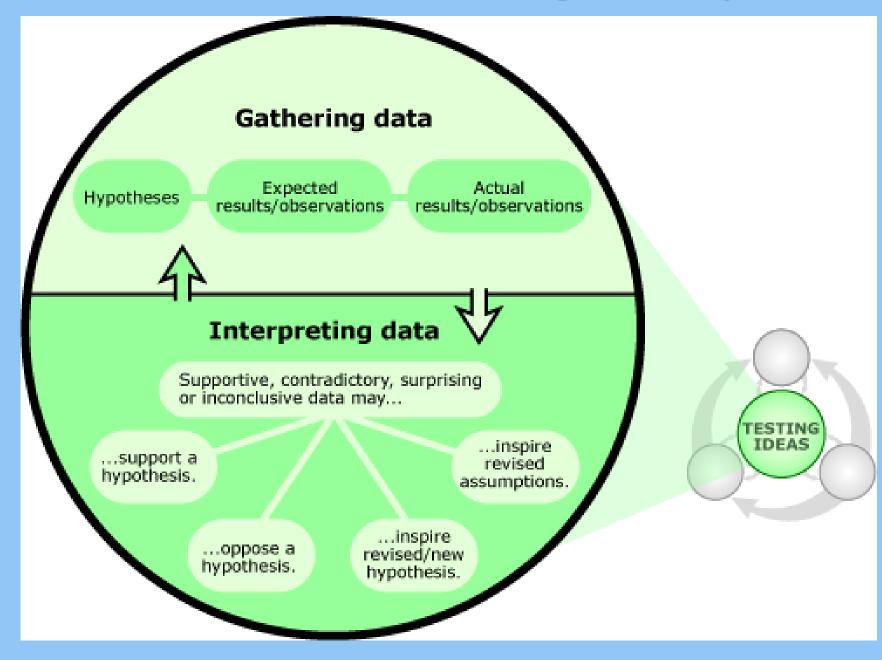




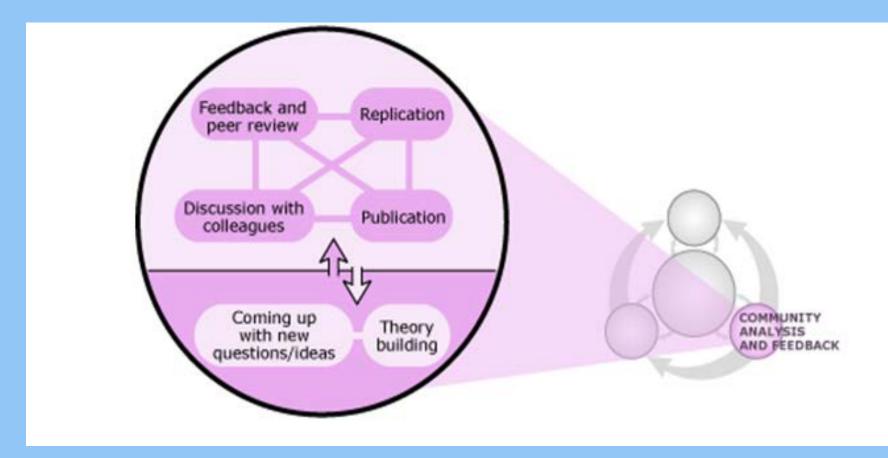
Process of Science – Exploration and Discovery



Process of Science–Data Gathering and Interpretation

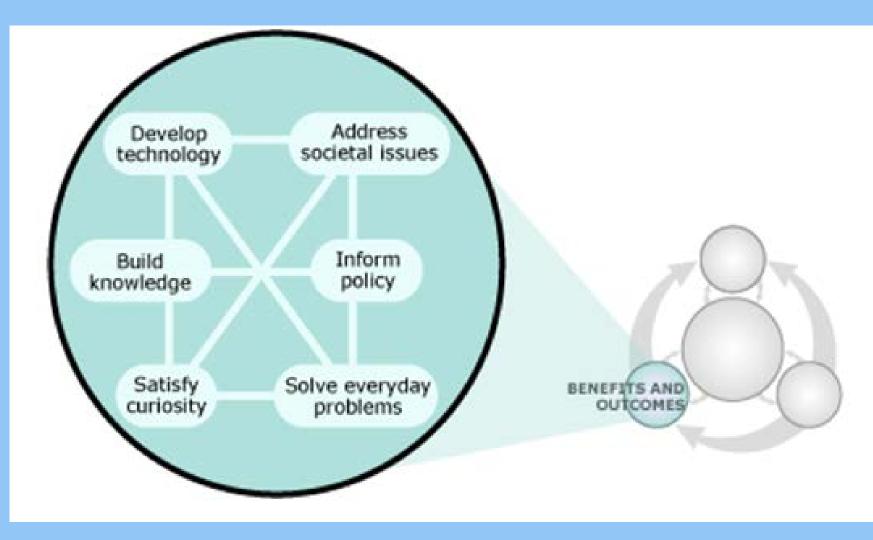


Process of Science – Analysis and Review



Process of Science - Benefits and Outcomes

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Process of Science

How do we evaluate scientific knowledge?



Media Literacy

How to critically evaluate evidence and claims presented in the media?



Examining Sources of Evidence

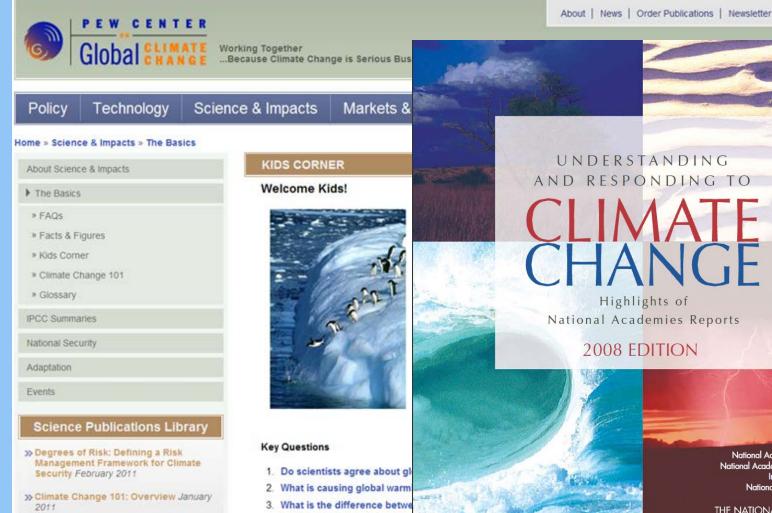
- Where does the information come from?
- Are the views of the scientific community accurately portrayed?
- Does the information come from an unbiased source?
- Is the scientific community's confidence in the ideas accurately portrayed?
- How strong is the evidence?

Selected Climate Change Science Resources





Reports from PEW Center on Global Climate Change National Academies of Science



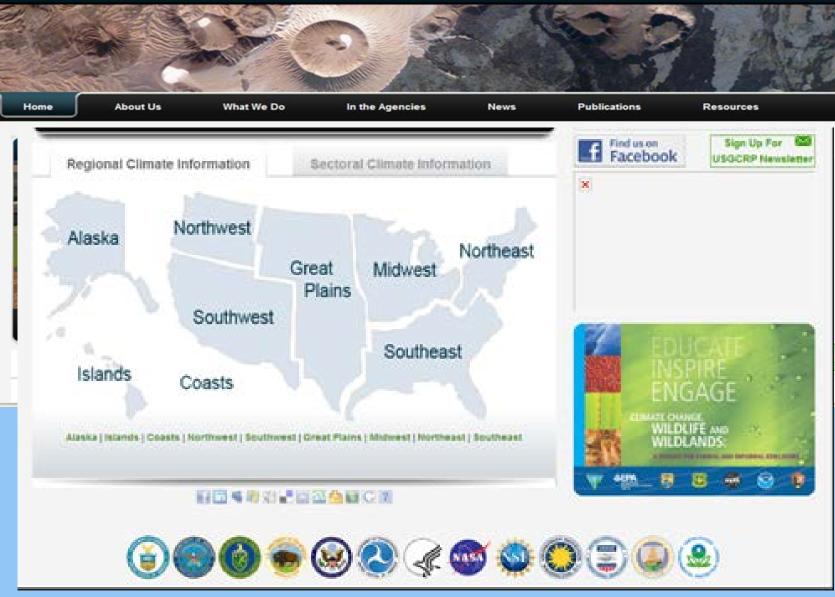
4. What will happen if global wa

National Academy of Sciences National Academy of Engineering Institute of Medicine National Research Council

THE NATIONAL ACADEMIES Advisers to the Nation on Science, Engineering, and Medicine

http://www.pewclimate.org/global-warming-basics/kidspage.cfm http://dels-old.nas.edu/climatechange/

globalchange.gov



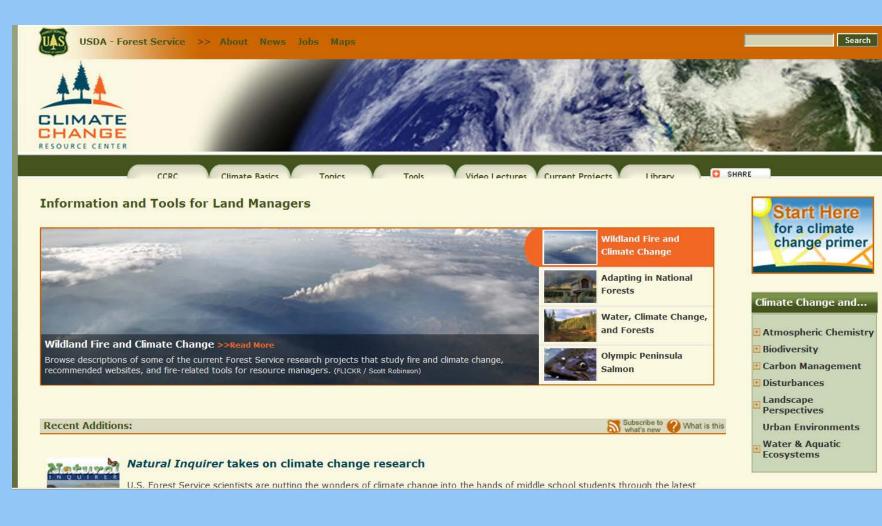
Integrating federal research and solutions for climate and global change

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Q search

United States Global Change Research Program

Forest Service Climate Change Resource Center



http://www.fs.fed.us/ccrc/

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREER



Prototype 2

Explore: ClimateWatch Magazine

Data & Services

< > >

Understanding Climate

Education

Search all of NOA

Featured

Higher Emissions Scenario^{\$1} Projected Temperature Change (°F) From 1961-1979 Baseline

Mid-Century (2040-2059 average)

End-of-Century (2080-2099 average)



US Global Change Image Gallery

The US Global Change Research Program provides access to over 850 image files used in its reports. Data visualizations, graphs, and photographs on the site may be used for educational, instructional, or personal uses, provided they include credit to the U.S. Global Change Research Program (www.globalchange.gov).

U.S. Global Change Research Program Image Gallery »







Teaching Resources

Student activities, interactive tools, labs, and lesson plans present concepts of climate science. Lessons are correlated to education standards.

Professional Development

Professional development opportunities to support educators in learning and teaching about climate.

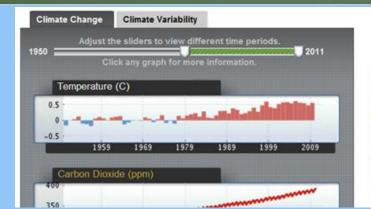
Multimedia

Movies, visualizations, multimedia galleries, interactive media, and educational games about climate science.

Why Teach about Climate?

A climate-literate citizenry is essential for protecting fragile ecosystems and building sustainable communities that are resilient in the face of climate change...

▶ Climate Literacy Guide ₽



Weather

01-05-2011

Google-climate.gov

The ozone layer - the thin atmospheric band high-up in the stratosphere that protects living things on Earth from the sun's harmful ultraviolet rays, not to be confused with damaging ozone pollution close to the ground - faces potential new challenges even as it continues its recovery from earlier damage, according to a recently released international science assessment.

NOAA: January 2011 Ranked 17th Warmest on Record