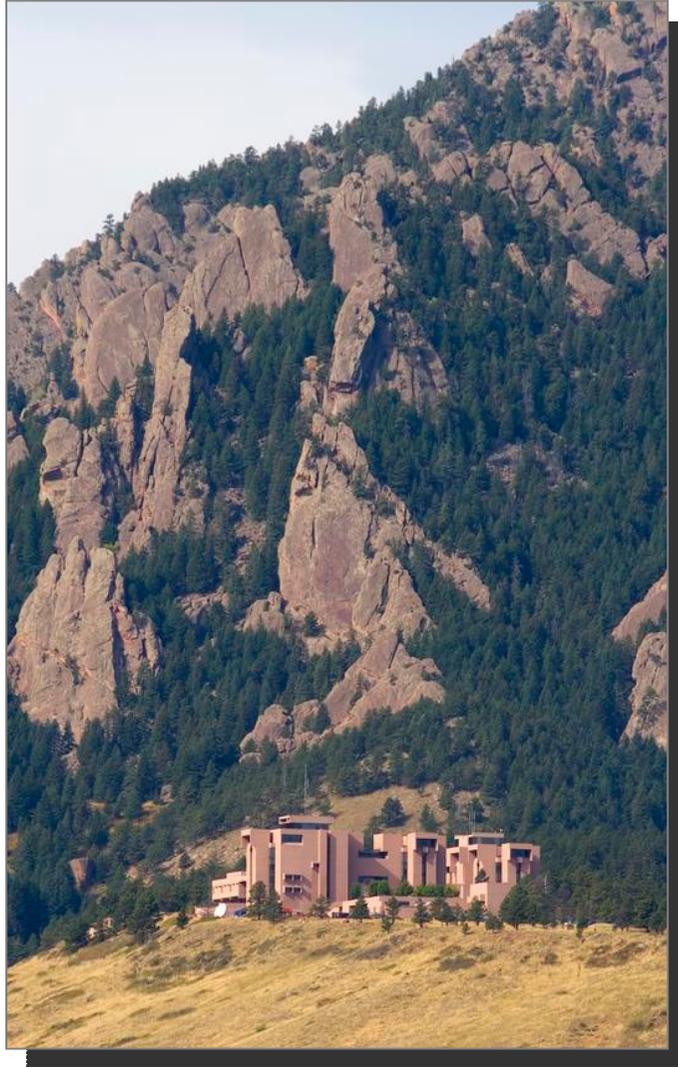


The UCAR Open Access Mandate: A Community-Centered Model of Action

Mary Marlino, Jamaica Jones, Karon Kelly, Mike Wright
University Corporation for Atmospheric Research
Boulder CO, USA

Open Repositories 2010
Madrid, July 5-8

UCAR: Who We Are



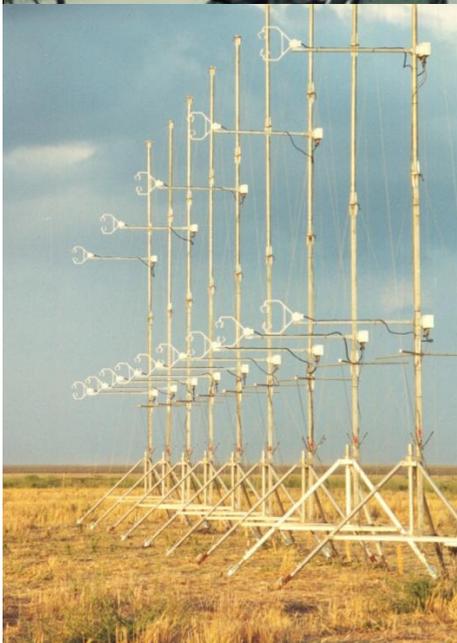
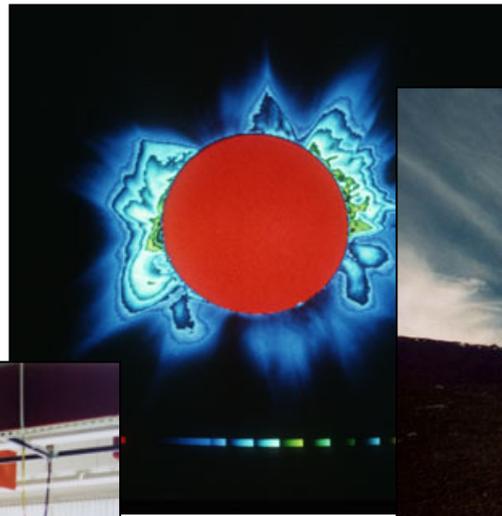
An NSF-sponsored research consortium of 100 US universities and 46 international partners

UCAR's mission is to

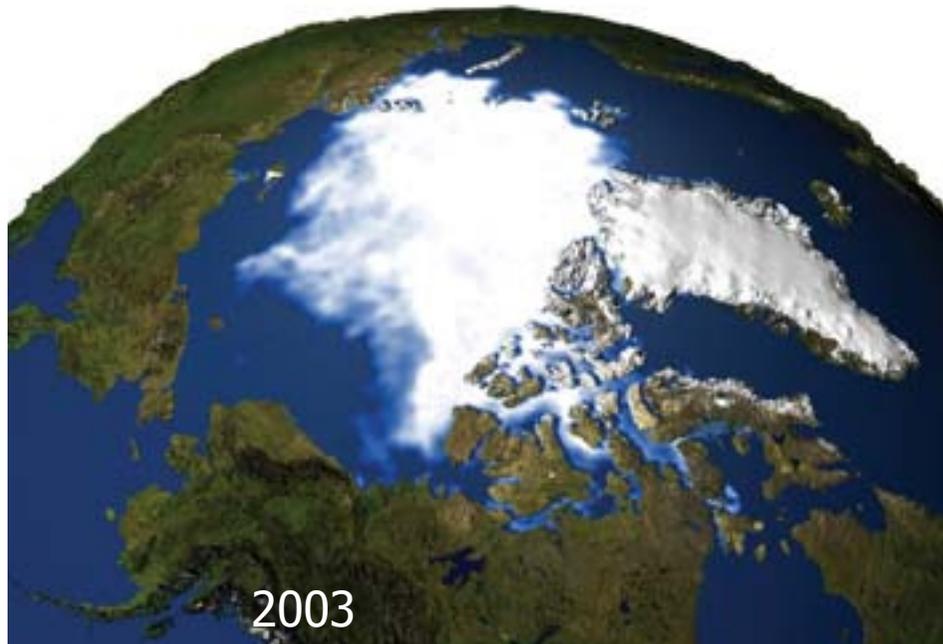
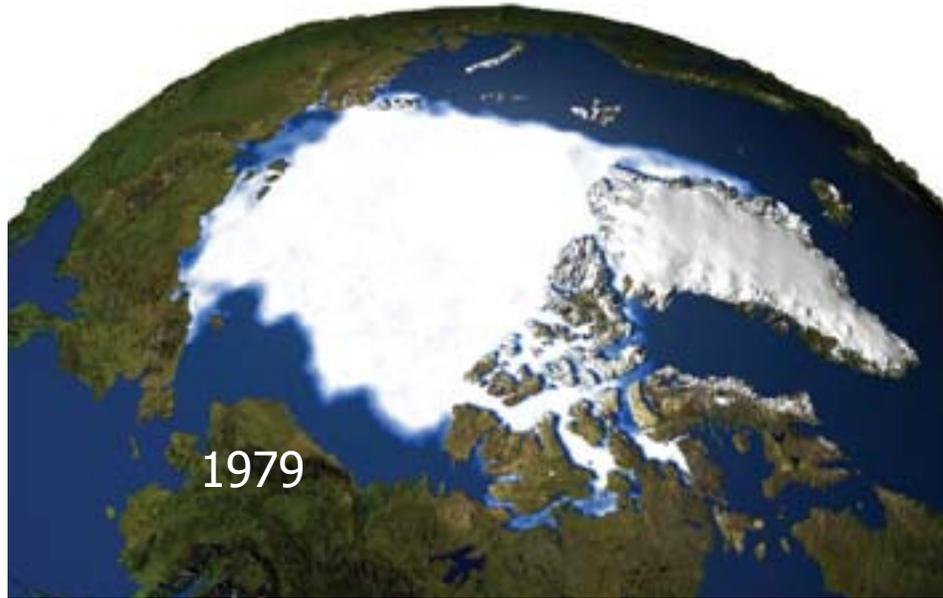
- support, enhance, and extend the capabilities of the university community,
- understand the behavior of the atmosphere and related systems and the global environment
- foster the transfer of knowledge for the betterment of life on Earth

Manages the National Center for Atmospheric Research (NCAR)

Earth Observing System Facilities

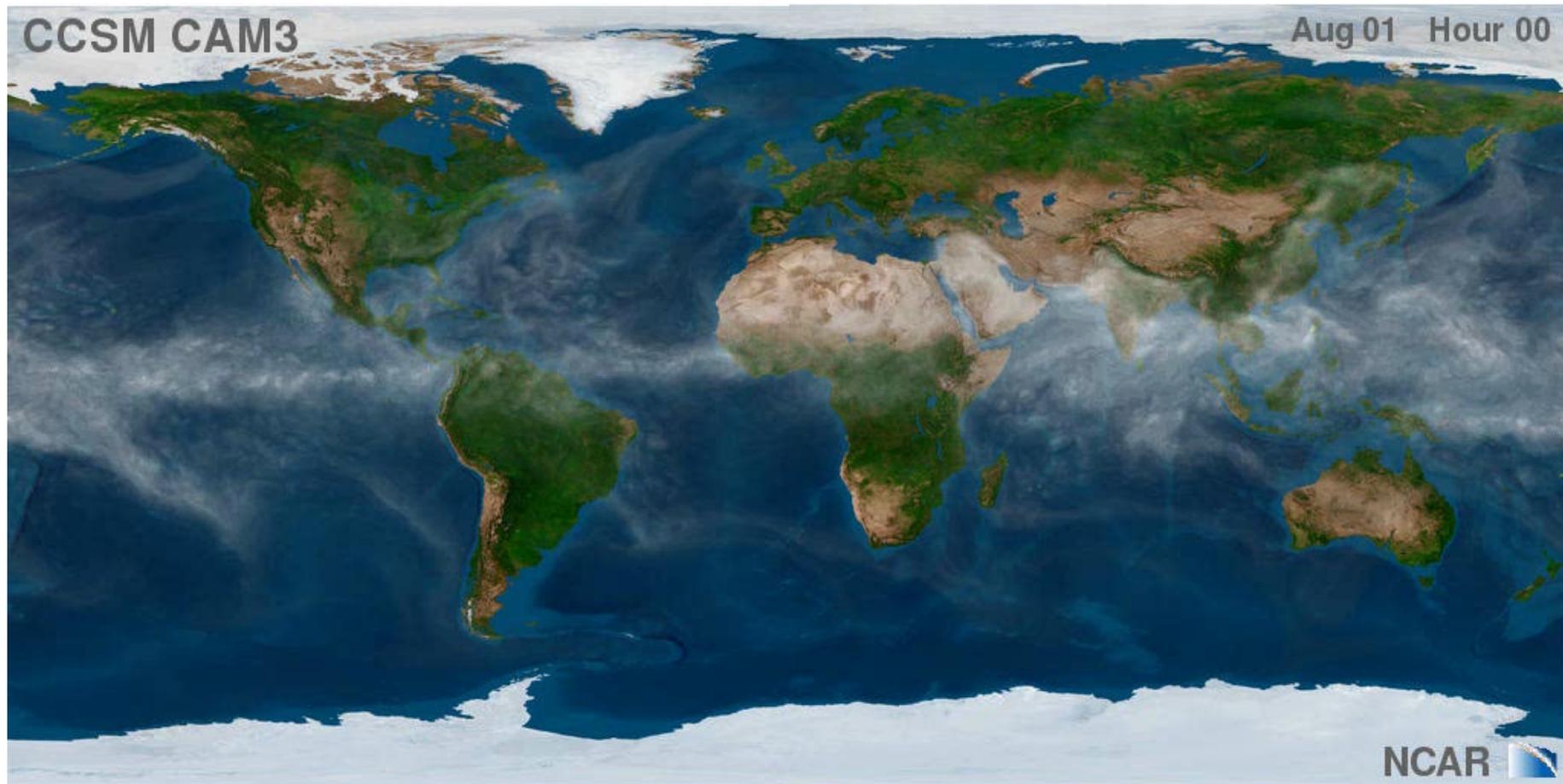


Science on a Global Scale



Community Climate Model

[View](#)



Managing the Pace of our Science

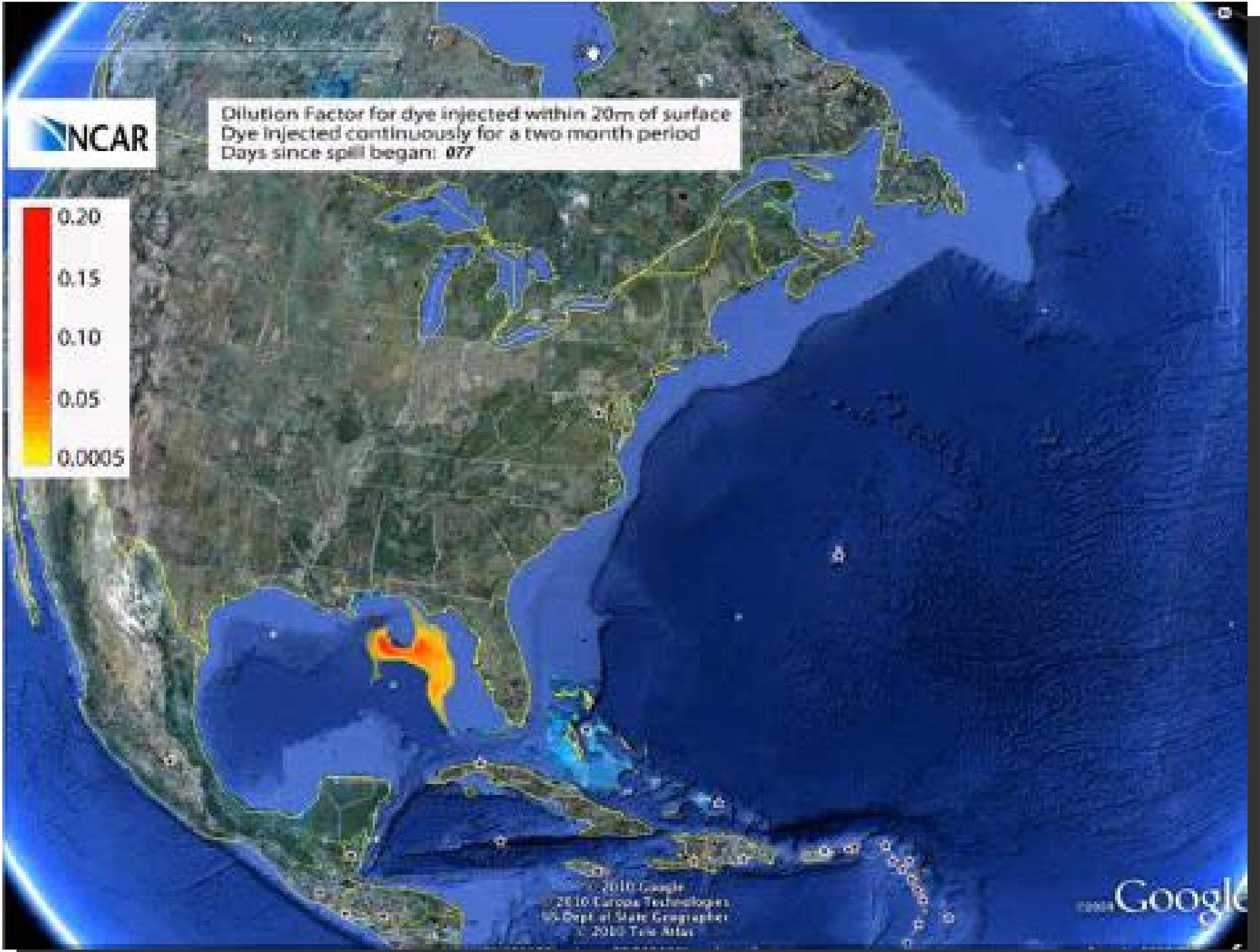


June 3, 2010

A detailed computer modeling study released today indicates that oil from the massive spill in the Gulf of Mexico might soon extend along thousands of miles of the Atlantic coast and open ocean as early as this summer.



Dilution Factor for dye injected within 20m of surface
Dye injected continuously for a two month period
Days since spill began: 077

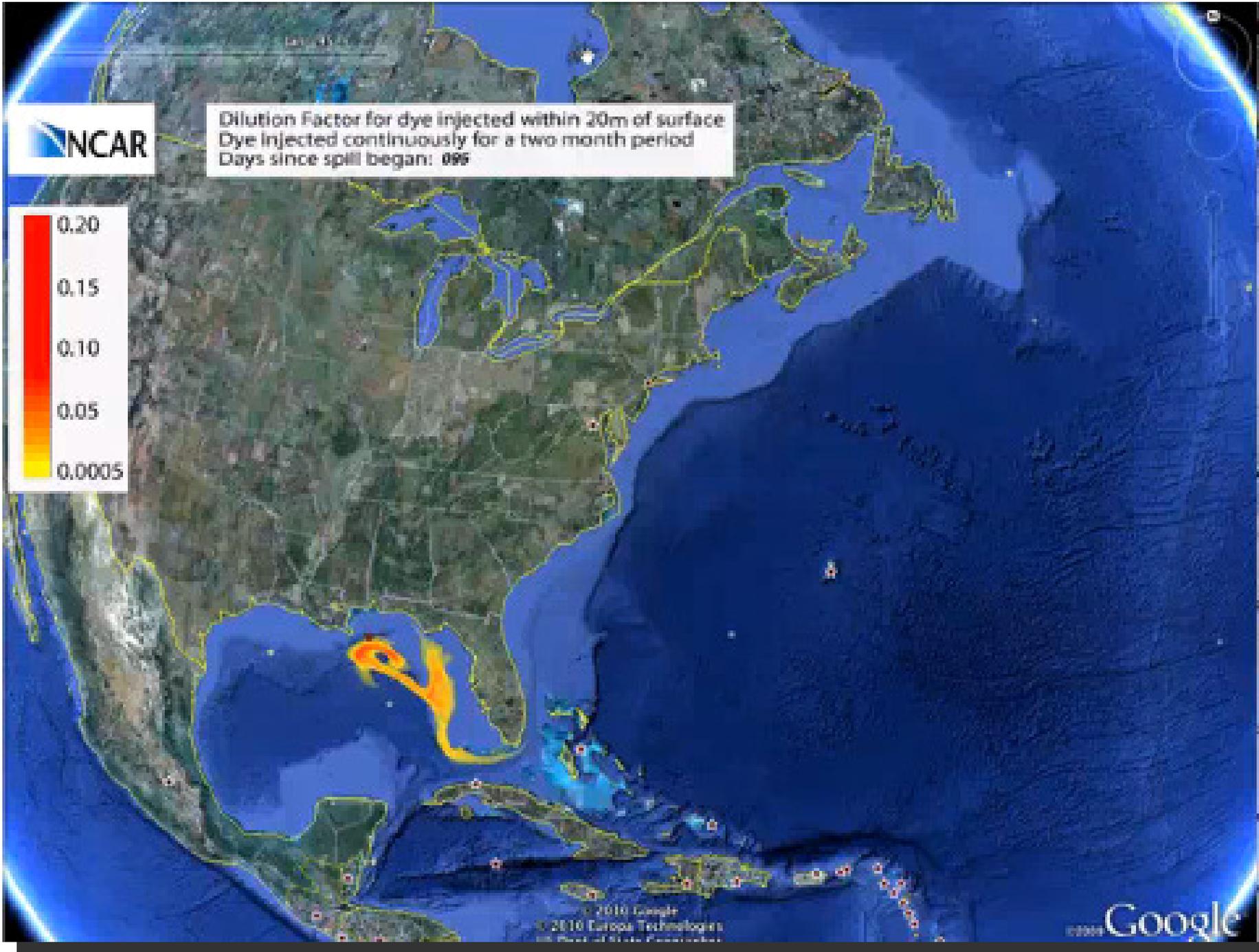


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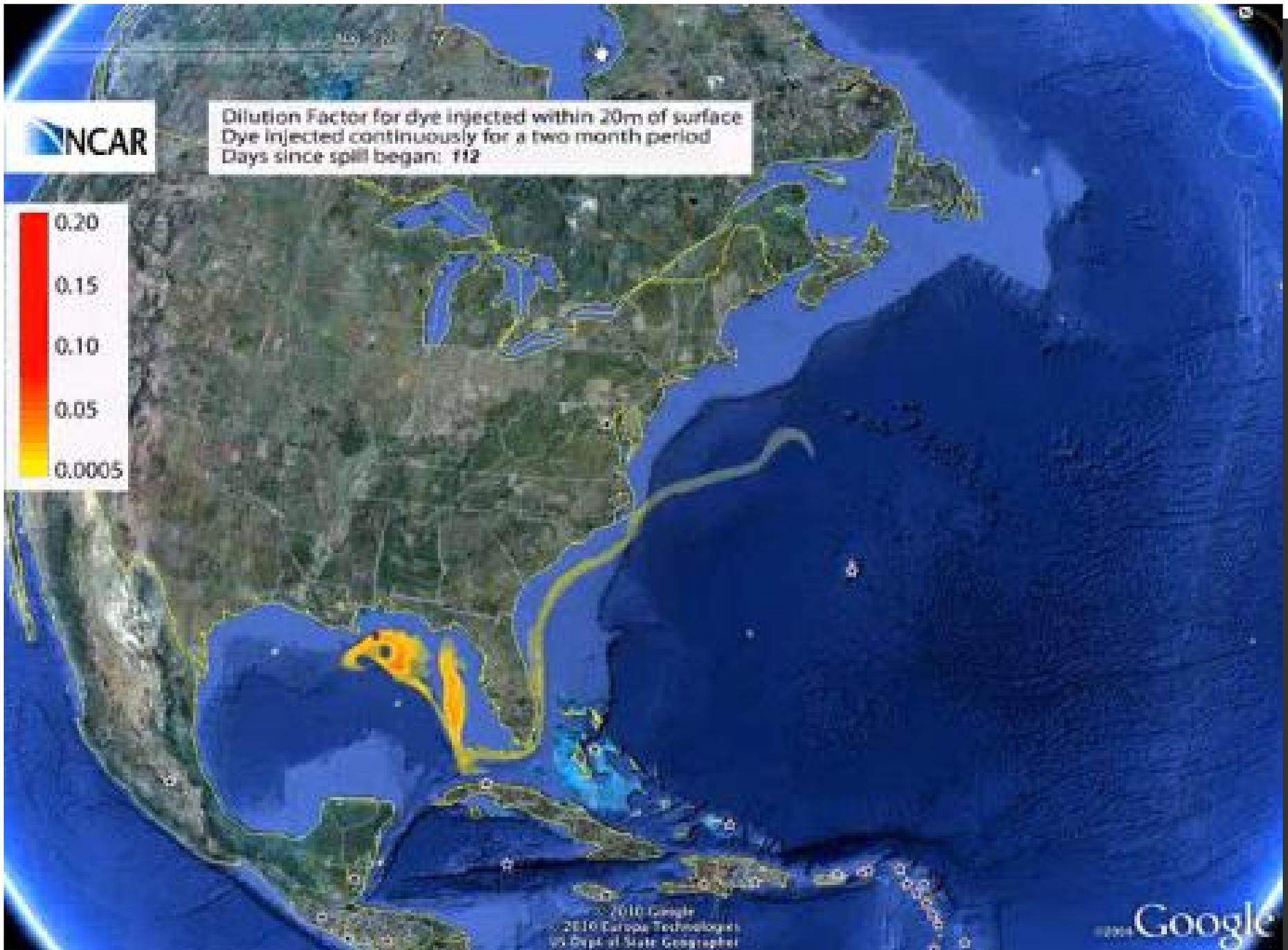


Dilution Factor for dye injected within 20m of surface
Dye injected continuously for a two month period
Days since spill began: 095



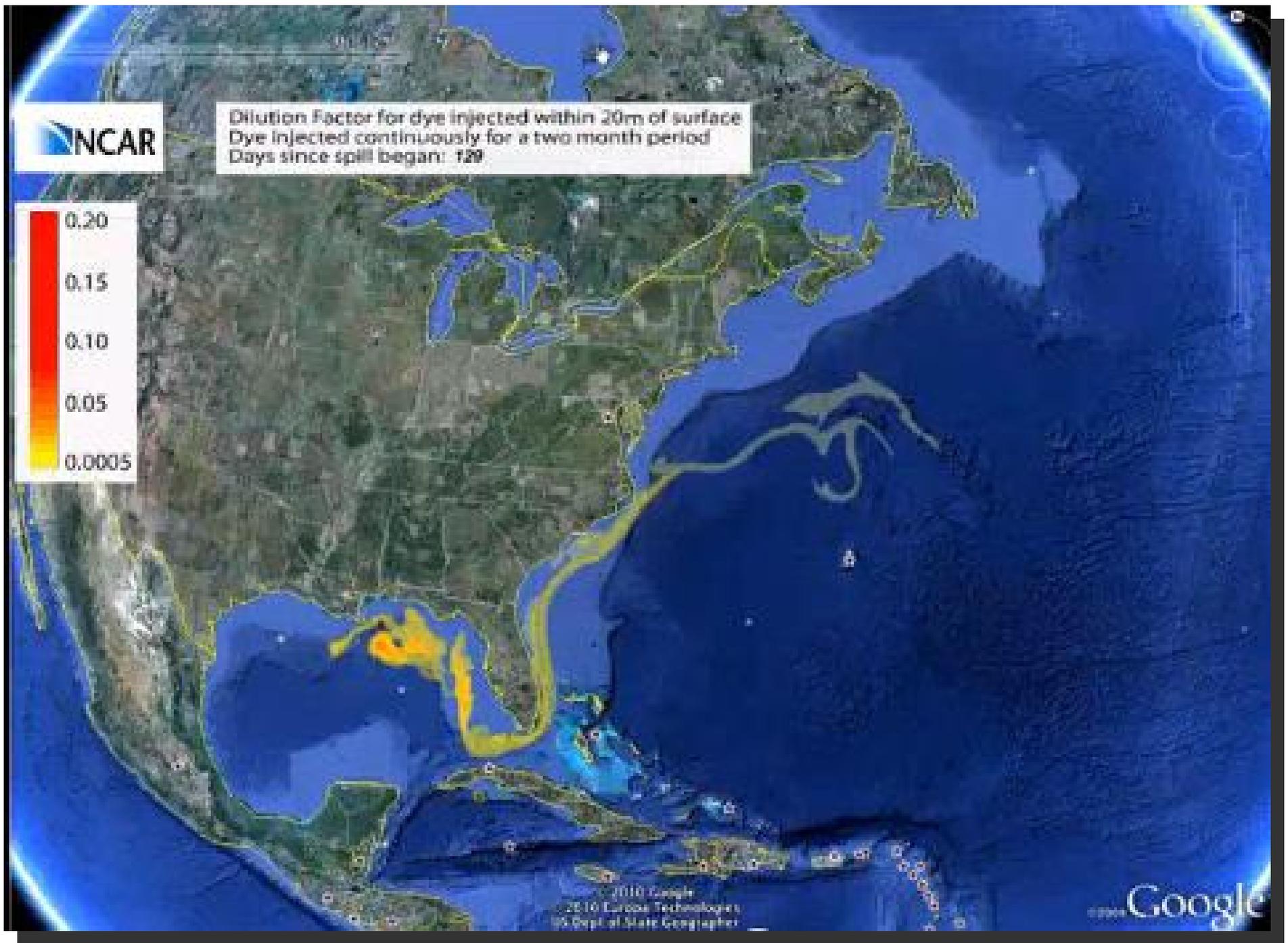


Dilution Factor for dye injected within 20m of surface
Dye injected continuously for a two month period
Days since spill began: 112





Dilution Factor for dye injected within 20m of surface
Dye injected continuously for a two month period
Days since spill began: 129



INSTITUTION RANKINGS IN GEOSCIENCES

Display items with at least: Citation(s)

Sorted by:

1 - 8 (of 8)



Page 1 of 1

	View	Institution	Papers	Citations	Citations Per Paper
1	 	NATL CTR ATMOSPHER RES	2,980	70,494	23.66
2	 	MAX PLANCK SOCIETY	2,696	59,878	22.21
3	 	UNIV WASHINGTON	2,868	58,393	20.36
4	 	NOAA	4,228	84,135	19.90
5	 	NASA	5,044	94,842	18.80
6	 	UNIV COLORADO	3,228	57,879	17.93
7	 	US GEOL SURVEY	3,924	52,640	13.41
8	 	CHINESE ACAD SCI	9,570	69,390	7.25

1 - 8 (of 8)



Page 1 of 1

Extending the Reach of our Science

- Highly diverse community, many members do not have access to scholarly resources to support education and scientific research
- Open access mandate passed 9/09 in response to community requests for access to intellectual output
 - Mandate states that all authors will deposit into UCAR IR, *OpenSky*
- Modeled after the Harvard and MIT policies

Why Notable?

- First NSF-funded national laboratory to mandate Open Access
- Utilized broad community-driven process that promoted engagement and *mirrored institutional and community values*
 - Institutional, professional society, user engagement
 - Developed policy first, followed by IR
- Increased visibility and relevance of the NCAR Library
- Politicization of (climate) science demands open science, open data

The Politicization of Climate Science

Leaked climate e-mail inquiry to release report

By *RAPHAEL G. SATTER*, Associated Press Writer
Raphael G. Satter, Associated Press Writer –
1 hr 31 mins ago

LONDON – An independent report into the leak of hundreds of e-mails from one of the world's leading climate research centers is being published Wednesday, with many scientists hoping it will help calm the global uproar kicked up by their publication online.

Muir Russell's inquiry is the third major investigation into what some have dubbed "Climategate" — the theft and dissemination of more than 1,000 e-mails exchanged between [climate scientists](#) over more than a decade.



Professional Society Engagement

- Concern for health of the professional societies
 - 90% of scientists members of either AMS or AGU
 - Over 50% of UCAR scholarship published by AMS & AGU
 - Sensitivity for
 - stability of these societies
 - their role in promoting scholarship
 - the development of a scientific workforce
- As a result of conversations with AMS and AGU, both have taken significant steps towards more openness
 - significant reductions to their embargo periods
 - equally important, in their willingness to engage with us in the conversation

User Engagement in Repository Design

- User-centered design process
 - Requirements analysis
 - Deep understanding of multiple workflows
- Requirements
 - Tracking usage metrics and impact factors
 - Tracking use of facilities (computing, instruments, etc)
 - Web services that integrate repository resources into departmental work practices
 - Links to related datasets
 - Provenance issues

Anticipated outcomes of UCAR's policy

- The new policy and accompanying repository, OpenSky, will enable us to
 - compile, preserve and share a complete record of our intellectual output
 - increase our community visibility and impact
 - advance research in the atmospheric and Earth system sciences by providing free, worldwide access to NCAR scholarship
- in Salvatore Mele's parlance: *visibility, acceleration, impact*

Institutional and Sponsor Engagement

- Long history of collaboration and sharing in atmospheric sciences
 - NCAR houses community data portal, research data archive
 - High level of trust in institution and amongst the community
- Reporting requirements already in place
- Conducted series of focus groups, town hall meetings to ensure buy in for OA policy
 - Response from scientists, governance, broader community was overwhelmingly positive
 - “What’s the downside?”
 - “Why haven’t we done this before?”

Reflections

- Know your community and disciplinary culture; build advocacy from the beginning
- Understand the nature of the relationship between the producers and the providers
- Balance multiple interests in services that your OA policy and IR will each support, e.g., documenting research output and impact
- Research pooling a necessity, disciplinary approaches inevitable

