

The Electronic Geophysical Year, 2007-2008



**The Electronic Geophysical  
Year - Accomplishments and  
Impacts on the ITM  
Community  
[www.egy.org](http://www.egy.org)**

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# Structure

## **Secretariat** (at LASP, Univ. Colorado)

Director **Dan Baker**, LASP

Secretary: **Bill Peterson**

Communications: **Marissa Rusinek**

Public Relations and E/PO: **Emily CoBabe-Ammann**

## **International Committee**

Chair: **Charlie Barton**; Co-chair: **Guo Huadong**

Representatives from key bodies and countries

Australia, Canada, China, Europe, France, Germany,

Japan, RSA, Russia, UK, USA

## **Working Groups**

Virtual Observatories: **Peter Fox**

Data Integration & Knowledge Discovery **Paul Berkman**

Best Practice (joint with CODATA): **Eric Kihn**

Data Rescue and Preservation: **Jeff Love**

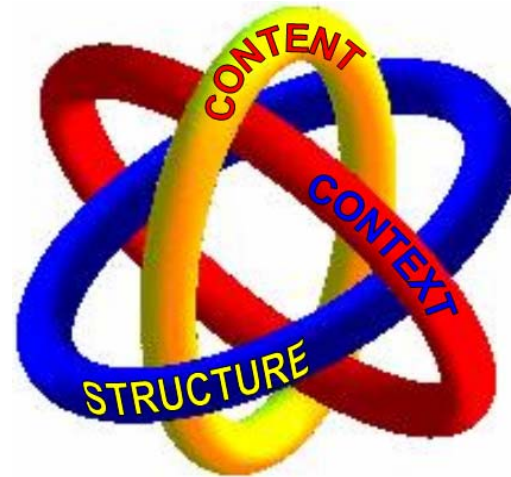
Education and Public Outreach: **Emily CoBabe-Ammann**



## Role

Provide an international, cooperative environment to

- inform
- inspire
- facilitate
- encourage
- promote



On electronic data sharing issues.



# Provides

Networks of people

Newsletter

Website

Events at conferences

Meetings

eGY Declaration

Showcase demonstrations

Support for other initiatives

# is an opportunity to

- Find out who is doing what
- Share experience and expertise
- Coordinate activities
- **Reduce replication of effort**
- **Promote common practices (standards)**
- Widen participation
- Reduce the digital divide
- **Raise awareness of the need for modern, professional data stewardship**
- Educate; influence decision makers
- Inspire public and professional interest.



# Working Group Example: Scientific Data Stewardship (SDS)

What is Scientific Data Stewardship?

- “maintaining the science integrity and long term utility of scientific records”
- “ the actions which maximize the return on investment for archived scientific data”

Community Driven  
Proven  
Documented  
Standards Based

# Best Practices

- Storage and Preservation
- Ease of Use
- Interoperability
- Quality Information and Metadata
- Data Availability
- User Presentation
- Attribution and Accountability
- Electronic Data Preservation

# Best Practices Portal

The screenshot displays the 'Best Practices' website interface. At the top, there is a dark blue header with the 'BEST practices' logo, a search bar, and links for 'site map', 'accessibility', and 'contact'. Below the header is a horizontal navigation menu with items: HOME, NEWS, EVENTS, MEMBERS, PUBLICATIONS, DOWNLOADS, WIKI, FORUM. The main content area features a featured article titled 'Best Practices for Scientific Data Stewardship' by mzhizhina, dated 2006-11-21. The article includes a diagram titled 'NGDC's Science Data Stewardship Vision' which is a pyramid with various stages and stakeholders. To the left of the main content is a 'NAVIGATION' sidebar with links to Home, News, Events, Members, Publications, Downloads, WIKI, and Forum. Below that is a 'LOG IN' section with fields for 'Login Name' (containing 'kihn') and 'Password' (masked with asterisks), and a 'log in' button. There are also links for 'Forgot your password?' and 'New user?'. To the right of the main content is a 'NEWS' sidebar with a recent news item about 'Scientific Data and Knowledge within the Information Society' dated 2006-11-13, and a calendar for March 2007 with the 12th highlighted.

you are here: [home](#)

**NAVIGATION**

- Home
- News
- Events
- Members
- Publications
- Downloads
- WIKI
- Forum

**LOG IN**

Login Name:

Password:

[Forgot your password?](#)

[New user?](#)

**Best Practices for Scientific Data Stewardship**  
by [mzhizhina](#) — last modified 2006-11-21 21:32

Welcome to the Best Practices site!

**NGDC's Science Data Stewardship Vision**

**NEWS**

Scientific Data and Knowledge within the Information Society  
2006-11-13

[More news...](#)


March 2007

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

To be able post messages in forum and in WIKIpedia, you need to log in.



# Portal cont.

site map accessibility contact site setupsearch  
Erik A Kihn preferences undo log out

[HOME](#) [NEWS](#) [EVENTS](#) [MEMBERS](#) **[PUBLICATIONS](#)** [DOWNLOADS](#) [WIKI](#) [FORUM](#) [IMAGES](#)

you are here: [home](#) → publications

### NAVIGATION

- Home
- News
- Events
- Members
- Publications
  - kihn-codata-e1.ppt
  - kroehl-kihn-g1.ppt
  - SPIDR.ppt
- Scientific Data and Knowledge within the Information Society
- Mission for Best Practices
- Downloads
- WIKI
- Forum
- Images

### RECENT CHANGES

- Mission for Best Practices  
2007-02-22

contents view edit properties sharing  
actions display add to folder state: public draft

## Conferences

by [mzhizhina](#) — last modified 2006-11-10 12:29

- Best Practices for Scientific Data Stewardship in support of the eGY**  
by Eric A. Kihn, NOAA/NGDC
- Best Practices for Environmental Data Management Systems  
by Herbert W. Kroehl Eric A. Kihn
- Space Physics Interactive Data Resource – SPIDR**  
by Mikhail ZHIZHIN (Geophysical Center Russian Acad. Sci.)  
Eric KIHN (National Geophysical Data Center NOAA)  
Dmitry MEDVEDEV (Geophysical Center Russian Acad. Sci.)  
Rob REDMON (National Geophysical Data Center NOAA)  
Dmitry MISHIN (Institute of Physics of the Earth Russian Acad. Sci.)

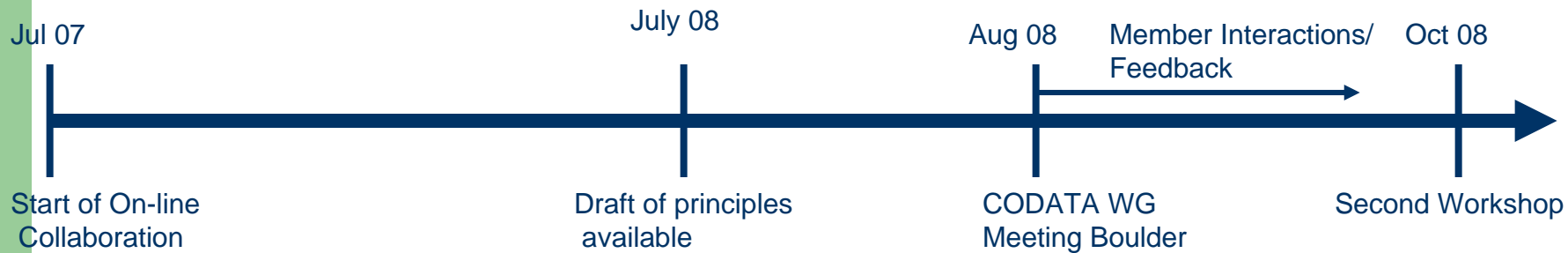
### NEWS

Scientific Data and Knowledge within the Information Society  
2006-11-13  
More news...

March 2007

Su	Mo	Tu	We	Th	Fr	Sa
					1	2 3
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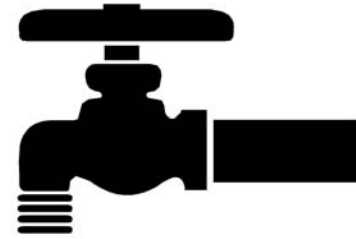
# The Way Forward



## Deliverables:

- Papers documenting best practices fro SDS
- Gathered community feed back and mechanism
- Example systems

# Earth & Space Science Informatics responses



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1 1

## WGISS



## ESSI



## ICSU

International Council for Science



## CGI One Geology

QuickTime™ and a  
TIFF (Uncompressed) decompressor  
are needed to see this picture.



- AVO – Astrophysical Virtual Observatory
- NVO – US National Virtual Observatory
- VCO – Virtual Carbon Observatory
- VGMO – Virtual Geomagnetic Observatory
- VHO – Virtual Heliophysical Observatory
- VIRBO – Virtual Radiation Belt Observatory
- VMO – Virtual Magnetospheric Observatories
- VOO – Virtual Ocean Observatory
- VSN – Virtual Seismic Network
- VSO – Virtual Solar Observatory

## US National Geoinformatics

# Geoinformatics Journals

1. *Computers and Geoscience*, Elsevier.
2. *Data Science Journal*, CODATA.
3. *Advances in Geosciences*, EGU
4. *Earth Science Informatics* - Springer-Verlag for 2008
5. AGU ESSI (with EGU?) is contemplating a new Earth & Space Science Informatics journal
6. Geo Informatics – a magazine for surveying, mapping, and GIS professionals

# News of Note

- New World Data System will be created October 2008
  - WDS Scientific Committee established spring 2009
  - WDS will be made up of many of the WDCs and the Federation of Astronomical and Geophysical data-analysis Services
  - WDS will incorporate many new data activities also
- WDS will be better positioned to address ICSU data needs of its programs
  - Near term **emphasis on IPY, GEO, Millennium Ecosystem Assessment** and others
- The WDS will have a **baseline of technology** and resources **needed for global interoperability**
- In the interim, a **WDS Transition Team** will bridge the gap between the WDC System and the new WDS
- Dan Baker presented to the National Research Council/Space Studies Board a proposal to reintroduce a standing panel on data and informatics similar to the Committee on Data Management and Computing (CODMAC). The proposal was well received - Questions were asked about which agencies might support this.

# Summary

- The eGY provides tools, maps, discussions for working with scientific data in the new electronic age.
- Particularly important are VO maps, stewardship guidelines, and a series of informatics journals.
- The eGY presence will persist beyond 2008 with the support of a new CODATA working group.

# Interested in getting involved?



[www.egy.org](http://www.egy.org)

- Presentations
- Demonstrations

eGY News

Email lists

- **eGY Team** (for mngt correspondence)
- **eGY Participants** (for most people)
- **eGY Observers** (main notices only)

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**Sign the 'Declaration for an Earth and Space Science Information Commons'**