

Education and Training in the Discipline

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Developing Standards for Data Citation & Attribution in Linguistics
Workshop 1 | Boulder, CO | September 18-20 2015

Presentation Overview

- Establishing an education and training mandate
- Drawing on existing resources
 - Specific to data citation
 - General DM
 - Formal coursework
- Engaging early career researchers

Establishing an Education and Training Mandate

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Broad Community Body(ies)



A closely related issue is that the intellectual work going in creating a good data set should be recognized and ideally cited in formal publications. Citation also aids reproducibility, which means that the citation must have a persistent locator or identifier to the data such as digital object identifier. This in turn means the data need to be professionally stewarded over time.

Fair attribution is also fundamental to an ethically open data environment. Data creators and associated institutions deserve formally recognizable credit for their scientific contributions. IASC encourages this recognition through citation, appropriate co-authorship, and other means, and encourages IASC members to require appropriate credit and reference when serving as editors and reviewers.

15 Monday
IASC Announ
Dr
Brendan Kelly was
International Arctic C

19th Internat
Conference
was held in Potsd
2015...

31/08/2015 Mond
SEARCH Ann
Director
Dr. Brendan Kelly
Environmental Ar

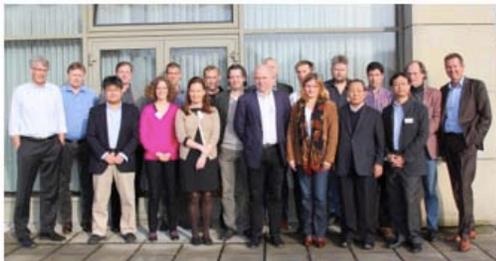


Broader Efforts

- ARCTIC DATA COMMITTEE
- Collection of national representatives and champions with an interest in integration and education

1st Meeting of the IASC Data Standing Committee (IDSC) and SAON Committee on Data and Information Services (CDIS)

Report of the 1st Meeting of the Arctic Data Committee



Meeting Details

Meeting: 1st Meeting of the IASC Data Standing Committee (IDSC) and SAON Committee on Data and Information Services (CDIS)

Time: 10 November 2014, 14:00 - ~~18:00~~; 11 November 08:30 - 13:00 (CET)

Location:

Mercury Hotel Potsdam City
Lange Brücke
14467 Potsdam
Germany
Room: Studio 1+2.

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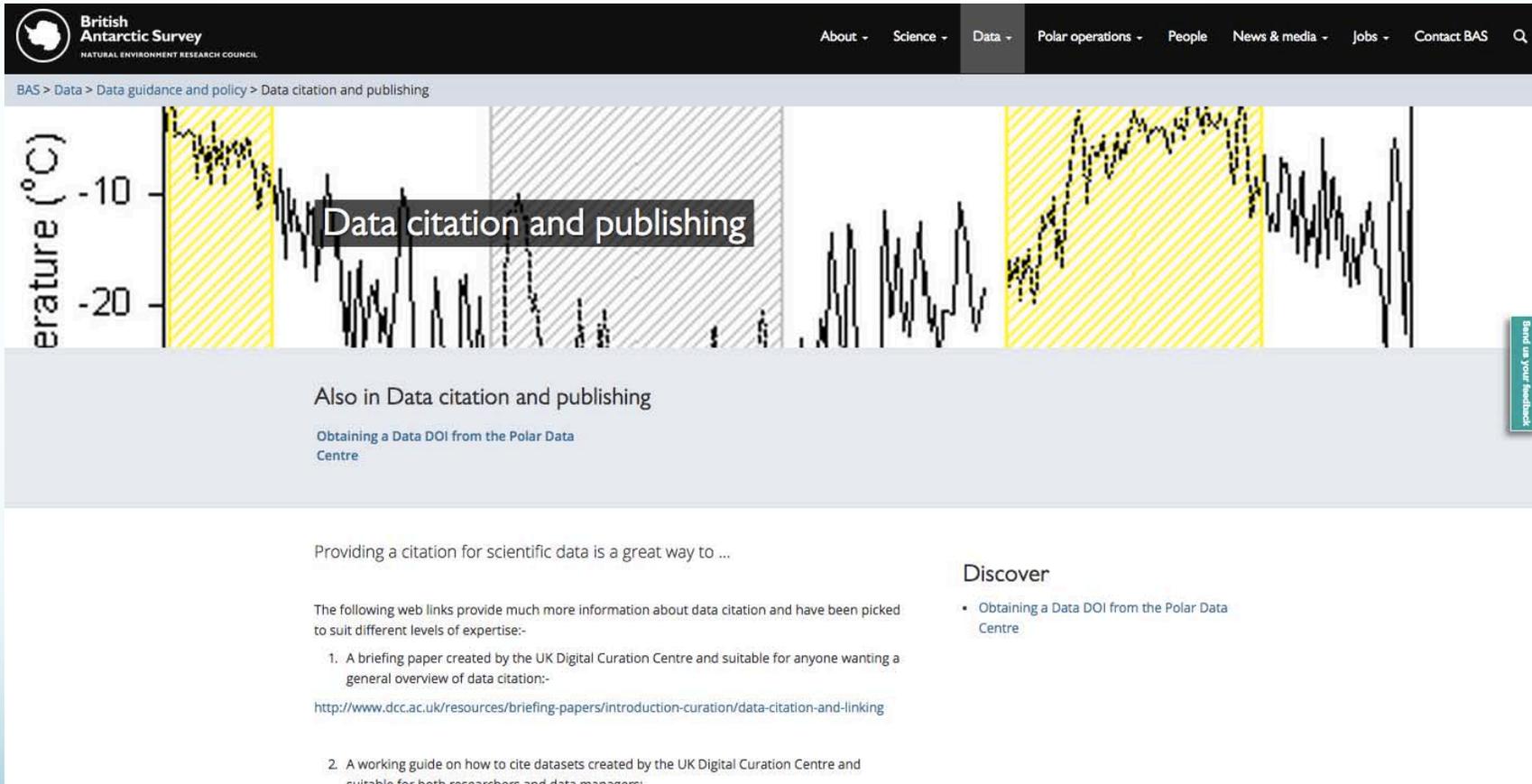
Confirmation of Key Priorities (WPs)

1. Documenting and understanding the Arctic data management ecosystem
2. Identifying and promoting common metadata elements
3. Engaging in data citation and publication movement
4. Promoting interoperability through action – interoperability experiment

Drawing on existing resources

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Reference Existing Materials



The screenshot shows the British Antarctic Survey website. The header includes the logo and navigation links: About, Science, Data, Polar operations, People, News & media, Jobs, and Contact BAS. The breadcrumb trail reads: BAS > Data > Data guidance and policy > Data citation and publishing. The main content area features a line graph of temperature in degrees Celsius, with a central text box titled "Data citation and publishing". Below the graph, there is a section titled "Also in Data citation and publishing" with a link to "Obtaining a Data DOI from the Polar Data Centre". A "Discover" section lists the same link. The footer contains the text: "Developing Standards for Data Citation & Attribution in Linguistics Workshop 1 | Boulder, CO | September 18-20 2015".

British Antarctic Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

About - Science - Data - Polar operations - People News & media - Jobs - Contact BAS

BAS > Data > Data guidance and policy > Data citation and publishing

erature (°C)

-10

-20

Data citation and publishing

Also in Data citation and publishing

Obtaining a Data DOI from the Polar Data Centre

Discover

- Obtaining a Data DOI from the Polar Data Centre

Providing a citation for scientific data is a great way to ...

The following web links provide much more information about data citation and have been picked to suit different levels of expertise:-

1. A briefing paper created by the UK Digital Curation Centre and suitable for anyone wanting a general overview of data citation:-
<http://www.dcc.ac.uk/resources/briefing-papers/introduction-curation/data-citation-and-linking>
2. A working guide on how to cite datasets created by the UK Digital Curation Centre and suitable for both researchers and data managers:-

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Basic Training

The screenshot shows the DCC website interface. At the top, there is a navigation bar with the DCC logo and the tagline "because good research needs good data". A search bar is located on the right side of the navigation bar. Below the navigation bar, there is a breadcrumb trail: "Home > Drupal > Resources > Briefing Papers > Introduction Curation > Data Citation And Linking".

In this section

Briefing Papers

- Introduction to Curation
- Annotation
- Appraisal and Selection
- Curating Emails
- Curating e-Science Data
- Curating Geospatial Data
- Data Accreditation
- Data Citation and Linking**
- Data Protection
- Database Archiving
- Digital Repositories
- Freedom of Information
- Genre Classification
- Interoperability

Data Citation and Linking

By Alex Ball and Monica Duke, UKOLN, University of Bath

Published: 19 July 2011

Updated: 21 June 2012

Please cite as: Ball, A., Duke, M. (2012). 'Data Citation and Linking'. DCC Briefing Papers. Edinburgh: Digital Curation Centre. Available online: <http://www.dcc.ac.uk/resources/briefing-papers/>

Browse the paper below or download the pdf.

- Introduction
- Short-term Benefits and Long-term Value
- Perspectives on Data Citation
- Roles and Responsibilities
- Issues to be Considered

Useful links

Download the PDF

Curation Reference Manual

Advice, in-depth information and criticism on current techniques and best practice.

Contributions are made by our extended network of specialist partners and associates.

[Read more](#)

<http://www.dcc.ac.uk/resources/briefing-papers/introduction-curation/data-citation-and-linking>

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Advanced Training

The screenshot shows the DCC website interface. At the top, there is a navigation bar with the DCC logo and the tagline "because good research needs good data". A search bar is located on the right side of the navigation bar. Below the navigation bar, there is a breadcrumb trail: "Home > Drupal > Resources > How Guides > Cite Datasets".

In this section

- Briefing Papers
- How-to Guides & Checklists**
 - Five Steps to Decide What Data to Keep
 - Five Things You Need to Know About RDM and the Law
 - How to Appraise & Select Research Data for Curation
 - How to Cite Datasets and Link to Publications**
 - How to Develop RDM Services
 - How to Develop a DMP
 - How to Discover Requirements
 - How to License Research Data

How to Cite Datasets and Link to Publications

This guide will help you create links between your academic publications and the underlying datasets, so that anyone viewing the publication will be able to locate the dataset and vice versa. It provides a working knowledge of the issues and challenges involved, and of how current approaches seek to address them. This guide should interest researchers and principal investigators working on data-led research, as well as the data repositories with which they work.

By Alex Ball (DCC) and Monica Duke (DCC)

Published: 18 October 2011
Last updated: 30 July 2015

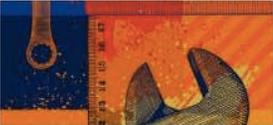
Browse the guide below or [download the PDF](#)

**** This publication is available in print and can be ordered from our online store ****

Useful links

Audiovisual Citation: BUFVC Guidelines for Referencing Moving Image and Sound

Tools and Services Catalogue



The catalogue was created to address the myriad challenges facing those who engage with data. Focusing on software and services that directly perform curation and management tasks, the catalogue splits the resources into five major categories, based

<http://www.dcc.ac.uk/resources/how-guides/cite-datasets>

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Advanced Training

The screenshot displays the RDA website interface. At the top, there is a navigation bar with links for REGISTER, LOGIN, RDA INTRANET AREA, and CONTACT US. The RDA logo is on the left, with the tagline "Research Data Sharing without barriers". Social media icons for Facebook, Twitter, LinkedIn, and RSS are on the right, along with the text "Share your news with RDA, write to news@rd-alliance.org". A search bar is located below the social media icons. A main navigation menu includes Home, Organisation, Working and Interest Groups, Plenary Meetings, News & Events, Early Career Programmes, and About. A green bar below the menu contains the link "View All Working Groups". The main content area shows the breadcrumb "Home » Working and Interest Groups » Working Group » Data Citation WG" and the title "Data Citation WG". A group icon is shown on the left. The "Group details" section lists: Status: Recognised & Endorsed; Chair(s): Andreas Rauber, Ari Asmi, Dieter van Uytvanck; Secretariat Liaison: Herman Stehouwer; TAB Liaison: Beth Plale; Case Statement: Download. A sidebar on the right contains links for Group Wiki, File Repository, and Group Mailing list Archive. Below this is a "Case Statement" box with the title "WG on Data Citation: Making Data Citable Case Statement" and "Comments: 2". At the bottom left, it states "Total Members: 138" and "Total Posts: 69", followed by a brief description of the group's purpose.

<https://rd-alliance.org/groups/data-citation-wg.html>

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ICPSR

The screenshot shows the top navigation bar of the ICPSR website. It features a black background with several colored buttons: 'Log In/Create Account' (white text), 'Find & Analyze Data' (purple), 'Membership in ICPSR' (blue), 'Deposit Data' (teal), 'ICPSR Summer Program' (green), 'Resources for Instructors' (orange), and 'Data Management & Curation' (red). Below this is a black banner with the 'ICPSR' logo in blue and the text 'Find & Analyze Data' in white. A purple navigation bar contains links for 'Find Data', 'Search/Compare Variables', 'Find Publications', 'Resources for Students', and 'Get Help'. The main content area is white and contains the following text:

Data Citations

Professional associations in the social sciences are increasingly recognizing the importance of properly citing data in their publications to encourage the replication of scientific results, to improve research standards, and to give proper credit to data producers.

The Data-PASS partners are committed to promoting standards and improving practices for the citation of data. This site offers guidelines and best practices for citing social science research data in order to promote vigorous and consistent attribution of datasets.

The [American Sociological Review](#) ⁷¹ has already adopted a set of standards for citing data after an appeal from the Data-PASS partners. As other peer-reviewed journals and data stakeholders follow suit, consistently applied data citation standards will ensure that research data can be: discovered; reused; replicated for verification; credited for recognition; and tracked to measure usage and impact.

In short, accurate citation of data promotes more and better science, and we believe all data stakeholders can do more to improve data citation. Below are guidelines on how to cite data and what you can do to help.

How to Cite Data

Citing data is straightforward. Each citation must include the basic elements that allow a unique dataset to be identified over time:

- Title
- Author
- Date
- Version

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UK Data Archives

The screenshot shows the UK Data Archive website homepage. At the top right, there are links for 'HELP', 'CONTACT US', and 'SIGN UP'. Below this is a navigation menu with 'HOME', 'ABOUT US', 'CREATE & MANAGE DATA', 'DEPOSIT DATA', 'HOW WE CURATE DATA', 'FIND DATA', and 'NEWS & EVENTS'. A search bar is located on the right side of the navigation menu. The main content area is divided into several sections: 'FIND DATA' with a description of the archive's collection and a 'READ ON' button; 'DEPOSITING YOUR DATA' with a 'DEPOSIT DATA' button; 'FINDING DATA TO USE' with an 'OUR CATALOGUE' button; 'HOW WE CURATE DATA' with a 'DATA CURATION' button; 'OUR SERVICES' with a 'VIEW SITE' button and logos for RELU-DSS and RELU; 'FIRST TIME HERE? HELPFUL INFORMATION' with a 'A QUICK GUIDE TO THE ARCHIVE' section; 'WHO GIVES US DATA?' with a 'Find out what kind of data are available to you' link; and 'LATEST NEWS & EVENTS' with two news items: '#EULifeAppChallenge: enter now' and 'OECD PMR Statistics'.

<http://www.data-archive.ac.uk/>

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ANDS

The screenshot shows the ANDS website homepage. At the top left is the ANDS logo (Australian National Data Service). A navigation menu on the left lists: ANDS Home, About ANDS, Partners & Communities, Data Management, Metadata, Discovery, Access, Reuse, Guides and Publications, Online Services, Technical Resources, News, Events, Updates, and Quick Links. A search bar is located at the top center. On the right, there are links for ANDS Home, Contact Us, and Guides, along with a search box for the site using Google Custom Search. The main content area features the title "Australian National Data Service" and the vision statement: "Our Vision: More valuable data for Australian research". Below this, it states "ANDS is enabling the transformation of:" followed by a diagram showing the transition from unmanaged, disconnected, invisible, and single-use data to structured, managed, connected, findable, and reusable collections. A "More>>" link is provided. The bottom left of the main content area has sections for "Australian Research Data Commons" and "Research Data Australia". On the right side, there is an "ANDS News" sidebar with social media icons and three news items: "Data Librarians Online Catchup", "6th Research Data Alliance Plenary Meeting", and "Webinar: Introducing ANDS Vocabulary service".

ANDS
AUSTRALIAN NATIONAL DATA SERVICE

ANDS Home | Contact Us | Guides

Find Research Data: Search

Search our site: Go

Australian National Data Service

Our Vision: More valuable data for Australian research

ANDS is enabling the transformation of:

Data that are:	to	Structured Collections that are:
Unmanaged	→	Managed
Disconnected	→	Connected
Invisible	→	Findable
Single-use	→	Reusable

[More>>](#)

Australian Research Data Commons
ANDS is building the **Australian Research Data Commons**: a cohesive collection of research resources from all research institutions, to make better use of Australia's research data outputs.

Research Data Australia
Research Data Australia, ANDS' flagship service, provides a comprehensive window into the Australian Research Data Commons. It is an Internet-based discovery service designed to provide rich connections between data, projects, researchers and institutions, and promote

ANDS News

- Data Librarians Online Catchup**
Theme 'Stories from the Field'. 8 Oct 2015 12.30-1.15pm AEST
[Register](#)
- 6th Research Data Alliance Plenary Meeting**
Theme: Enterprise Engagement with a focus on Research Data for Climate Change. Paris 23-25 Sept. [More info](#)
- Webinar: Introducing ANDS Vocabulary service**
Come learn all about Research Vocabularies Australia - a new controlled vocabulary service, to be made available soon. 24 Sep 1-2 pm AEST [Register](#)

Subscribe to **andsUP**, our regular e-newsletter.
Give **ANDS** feedback.
View **ANDS** website changes.

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General DM Resources

The screenshot shows the ESIP Commons website interface. At the top, there is a dark navigation bar with the ESIP Commons logo (a stylized 'E' with a globe) and the text 'ESIP Commons EXPLORE -'. To the right of the logo are links for 'Learn', 'Meeting -', and 'Help'. Further right is a 'Log in' button with a user icon. Below the navigation bar is a breadcrumb trail: 'Collaboration Area / Data Management Training / Data Management Short Course for Scientists'. On the left side, there is a vertical menu with various categories, including 'Data Management' which is highlighted. The main content area features a large heading 'Titles for: Responsible Data Use Section' followed by a bulleted list: 'Citation and Credit', 'Copyright and Data', and 'Data Restrictions'. Below this list is a sub-heading 'Titles for: The Case for Data Stewardship Section' with a partially visible bullet point 'Agency Requirements'. On the right side, there is a sidebar with text that is partially obscured but includes phrases like 'ge with scientists', 'ment', 'rove the', and 'k as long as you', 'd.org'.

<http://commons.esipfed.org/datamanagementshortcourse>

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Formal Coursework

The screenshot shows the website for the Graduate School of Library and Information Science at the University of Illinois. The header includes navigation links for 'about gsis', 'academics', 'research', 'careers', 'people', 'giving', 'newsroom', and 'help desk'. There are also buttons for 'future students' and 'current students'. The main content area features a large banner for 'Explore the CAS' with a 'learn more' link. Below this is a 'HEADLINES' section with a news item about a \$6 million NSF award. A 'EVENT' section is partially visible. A modal window displays course details for LIS531DCL and LIS531LE, both titled 'Foundations of Data Curation' and worth 4 GR hours. The descriptions for both courses are identical, detailing the active management of data throughout its lifecycle.

LIS531DCL	Foundations of Data Curation
Credit	4 GR hours
Description	Data curation is the active and on-going management of data through its lifecycle of interest and usefulness to scholarship, science, and education; curation activities and policies enable data discovery and retrieval, maintain data quality and add value, and provide for re-use over time. This course provides an overview of a broad range of theoretical and practical problems in the emerging field, examining issues related to appraisal and selection, long-lived data collections, research lifecycles, workflows, metadata, and legal and intellectual property issues.
Prerequisites	

LIS531LE	Foundations of Data Curation
Credit	4 GR hrs
Description	Data curation is the active and on-going management of data through its lifecycle of interest and usefulness to scholarship, science, and education; curation activities and policies enable data discovery and retrieval, maintain data quality and add value, and provide for re-use over time. This course provides an overview of a broad range of theoretical and practical problems in the emerging field, examining issues related to appraisal and selection, long-lived data collections, research lifecycles, workflows, metadata, and legal and intellectual property issues.
Prerequisites	

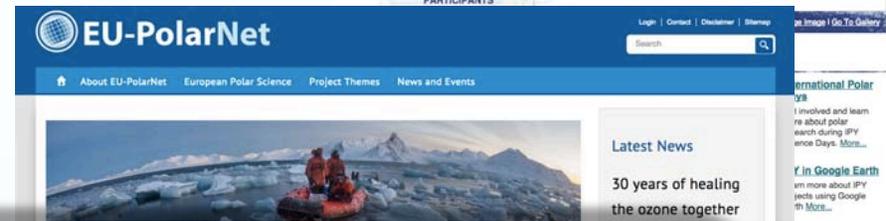
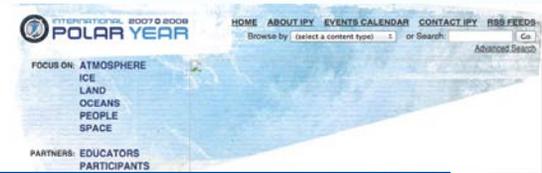
<https://www.lis.illinois.edu/>

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Engaging Early Career Researchers

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Many Actors Working Together



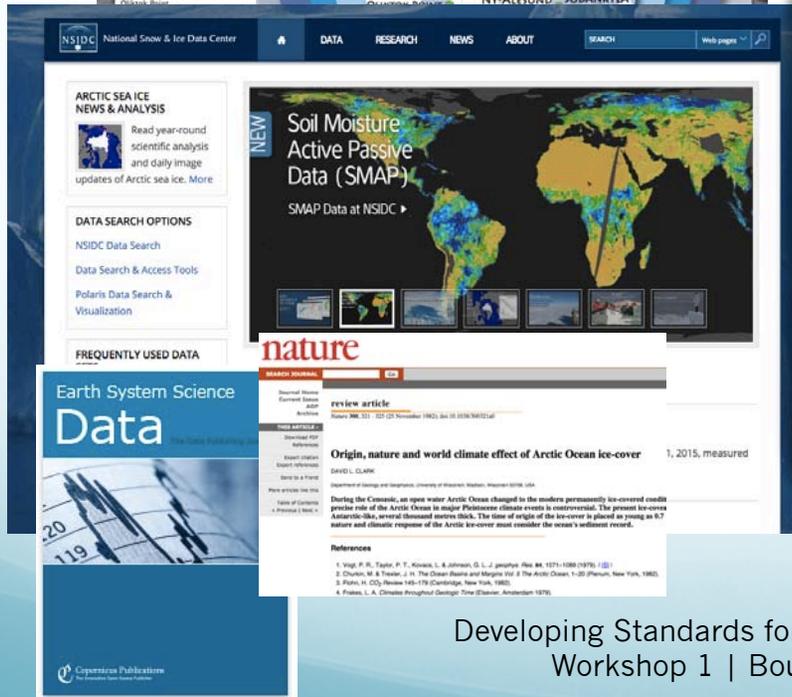
ASSOCIATION OF POLAR EARLY CAREER SCIENTISTS

Search ...



APECS World Summit 2015

APECS organized its first APECS World Summit in Sofia, Bulgaria from 6 - 8 June 2015. Since its success during the International Polar Year (IPY), APECS has been grown significantly. At the time of the summit, APECS's membership counted about 5000 with interests in the Polar Regions in over 100 countries, institutionally with currently 26 National Co-



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APECS

Upcoming APECS Executive Committee Election
We are looking for a new Executive Committee for the 2015-2016 term! Find out more how to apply ...

Become a Member ▶ **Get Involved** ▶ **Volunteers Needed** ▶

Job Board ▶ **Mentor Database** ▶ **National Committees** ▶

UPCOMING EVENTS

APECS NEWS

APECS-WWRP-Polar Prediction Project Webinar Series - Part 3 on 22 September!
08/09/2015, 16:00

Apply by 5 September - Early career scientist session co-convenor positions available for the SCAR OSC 2016
28/08/2015, 16:06

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Venue Location: Sofia University (Main building), Conference Hall, second floor , bl. 6 (15 Tzar Osvoboditel, blvd, Sofia)

Topic 1: Data Sharing and Open Science in Polar Research

08:30 - 08:45 Welcome

08:45 - 09:30 **Sharing Data - the International Polar Year legacy** (Speaker: David Co



APECS World Summit 2015

APECS organized its first APECS World Summit in Sofia, Bulgaria from 6 - 8 June 2015. Since its success during the International Polar Year (IPY), APECS has been grown significantly. At the time of the summit, APECS's membership counted about 5000 early career scientists, mentors and educators with interests in the Polar Regions in over 80 countries. But APECS has also evolved institutionally with currently 26 National Committees (NCs) across all continents – except Antarctica. **The APCEs World Summit 2015 "The Future of Polar Research"** was an initiative to bring representatives of APECS' leadership and NCs together to discuss the future of polar research, APECS' experiences in communicating science and new challenges APECS wants to tackle in the near future. The venue for the APECS World Summit 2015 was Sofia University.



cross disciplines,
at Boulder)

a publications

(speaker: **Pavel Stoev**, Pensott Publishers / National Museum of Natural History, Sofia

12:00 - 12:30

Unpacking the concept of open science (Speaker: **Ivo Grigorov**, Danish National Institute of Aquatic Resources)

12:30 - 13:00

The Antarctic Environments Portal (Speaker: **Neil Gilbert**, Constantia Consulting / Antarctic Environments Portal)

Acknowledgements

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Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

The role of LSA/CoSCIL in standardizing citation and attribution practices in linguistics

Geoffrey Nathan
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Wayne State University

What is CoSCIL?

- Established by LSA Executive Committee in December 2014
- Charge:
 - assess the challenges and opportunities presented by new technologies for the dissemination of linguistic scholarship
- Chair: Geoff Nathan (formerly chair of COMSIT)
- Members: volunteers and ‘volunteers’

Responsibilities

- To advise the LSA Executive Committee on actions to take with respect to the development of new technologies for the dissemination of scholarly linguistic work, in particular where they may impact the Society's existing programs and activities.
- To assess the ways in which the results of linguistic research can be effectively communicated to diverse audiences of stakeholders in language data, including scholars in allied disciplines, speaker communities, government agencies, and standards bodies.
- To provide opportunities for members of the linguistics community to receive training in the use of new methods for the curation, dissemination, and processing of language data in order to enhance their research, teaching, and advising.
- To coordinate with other LSA committees, delegates/liaisons, and the LSA's sister societies in efforts related to scholarly communication, as appropriate.

Standards Categories

- Text
- Interlinear Glossing
- Video
- Audio

Issues

- a volunteer effort
- meetings are all virtual
- wide variety of experience
- we're all busy (i.e. not everyone does their homework on time, or at all...)
- We shouldn't be reinventing the wheel

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