Data Science ESIP Publication

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Spotfire Dashboard
Research Notes
ESIP Earth Science Data Analytics
ESIP Web Sites
USDA Food Security Google Search Results
About the Food Environment Atlas
Coalition for Publishing Data in the Earth and Space Sciences

ESIP Commons
Winter Meeting 2015 Agenda

Commons annotated schedule
Google Doc spreadsheet

Day 1 Tuesday, January 6

7:00 Registration Open
8:00 Welcome
8:15 Leveraging Earth Science Data and Analytics in Food Systems
8:45 A Systems Approach to Food Resilience
9:15 USDA Speaker
9:45 USDA Speaker
10:15 Break
10:30 Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA
12:00 Lunch, ESIP 101
1:30 Breakout Sessions
   - Metadata for Discoverability, Accessibility, Useability, and Understanding (BEDI/NASA)
   - Docker: open container system for developers and sys admins
   - Bridging the resolution gap between satellite data and agricultural applications
   - Progress in Data Management Planning
   - EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure
   - Improving Performance for Data Access Web Services
3:00 Break/Poster Set-up
3:30 Breakout Sessions
   - Metadata evaluation, consistency and improvement
   - Schema.org for Earth Science
   - Bridging the resolution gap between satellite data and agricultural applications (part 2)
   - What does it mean to Publish Data?
   - BOF
   - GEOSS AIP-7
5:00 Poster Session & Reception

Day 2 - Wednesday, January 7

7:00 Registration Open
8:00 ESIP Federation Annual Business Meeting (Open to any interested)
9:00 State of the Federation & Partners
10:15 Break
10:30 Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA
12:00 Lunch, ESIP Peer Recognition Awards
1:30 Breakout Sessions
Global Change Information System (GCIS)
Earth Science Data Analytics 101
Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests
Science Software Cluster
Resilience, Sustainability and Data-driven Adaptation
Cloud Technologies and Architectures Seminars
3:00 Break
3:30 Breakout Sessions
The HDF Product Designer
Earth Science Data Analytics 201
Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel
Climate Informatics: Some use cases and future directions for an emerging domain
Data Needs for Energy Applications
EarthCube Architecture
5:00 End of Day 2
Day 3 - Thursday, January 8
7:30 Registration Open
8:30 Breakout Sessions
NASA EOSDIS Evolving Technologies Discussion
Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions
Disaster Life Cycle I
Semantic Tech Expo
Preservation and Stewardship Committee reporting session
ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities
10:00 Break
10:30 Breakout Sessions
ISO 19115-1 in practice
Discovery Session (Best Practices)
Disaster Life Cycle II
Drupal Working Group: Open House
Data Stewardship Planning
BOF
12:00 Lunch - ESIP 202 New Leadership
1:30 Breakout Sessions
(re)Vision 2020 for Earth Science Data Systems
Attribute Convention for Data Discovery: Present and Future
Digital maturity of federal and federally funded earth sciences – status and next steps
Drupal Working Group: Code Sprint
Dynamic Data Citation
BOF
3:00 Break
3:30 Breakout Sessions
Earth Science Collaboratory Showcase
BOF
Digital maturity of federal and federally funded earth sciences – status and next steps
BOF
Dynamic Data Citation
BOF

Speakers

Day 1 - Jan. 6, 2015
Wade Crow, USDA ARS
Joseph Fiskel, Center for Resilience at Ohio State University (PDF)
Molly Jahn, University of Wisconsin
Mark Walbridge, USDA LTAR
Panel on User Needs for Food Resilience
Moderated by Bradley Doorn, NASA
Molly Brown, NASA
John Bolton, NASA GEOGLAM
Gary Eilerts, USAID
Liangzhi You, International Food Policy Institute

Day 2 - Jan. 7, 2015
State of the Federation
Peter Fox
Around the Federation
EarthCube - Bruce Caron
GEOSS Evaluation - Matt Druckenmiller
RDA-US
NASA
NOAA
USGS
Enhanced Use of Earth Observations for Societal Benefit
Tim Stryker, OSTP
Rick Driggers, National Security Council/ Climate Resilience Toolkit
Fabien Laurier, OSTP
Posters and Demos

Leveraging Google Earth Engine to Derive High Quality Water Reference Data for Disaster Decision Support

Descriptive Semantic Annotations for Science Media Repositories

Enhancing and Educating with the WxSat Mobile App

Augmenting Basic Web Services with Middleware Services and Interfaces

Going Beyond the Earthdata Website: Connecting with End Users Using Social Media and Webinars

GISCube, an open source web-based GIS application

Enriching Earthdata by Improving Content Curation

Enriching Earthdata by Improving Content Curation

NOAA/NCEP Weather Model Output Data for Decision Support Systems, Including Aggregation of Ensemble Model Output

CINERGI: Community Inventory of EarthCube Resources for Geoscience Interoperability

Discovering Public Data: an Assessment of Current Metadata Practices Across the U.S. Department of the Interior

Proto-Examples of Data Access and Visualization Components of a Potential Cloud-Based GEOSS-AI System

Architectures Toward Reusable Science Data Systems

Rule-Based Curation in the DataNet Federation Consortium: Policies to Policies Using iRODS

Towards Executable Provenance Graphs for Reported Results in Research Publications

Integrating and Visualizing Sea Ice Charts and Cruise Tracks using Linked Open Data and Open Source Tools

The legacy of the Bering Sea Project: archival and preservation of the project data for current and future research

NASA’s Implementation of the President’s Climate Data Initiative

What’s Up these Days with Persistent Identifiers for Earth Science Data?

An Information Architect’s View of Earth Observations for Disaster Risk Management

Big Data Challenges in a Data Center Workflow

Big Data Challenges in a Data Center Workflow

Data System for HS3 airborne field campaign

Event-Driven Cyberinfrastructure Technologies Supporting The Disaster Lifecycle

Enabling Ongoing Access to Data Products and Services When Dependencies are No Longer Supported

Cloudbursting - Solving the 3-body problem

Expanding OceanLink using Facebook crowdsourcing

Global Precipitation Measurement (GPM) Mission Applications

ESDIS Standards Office Information

Spatial Analysis Of Sediment Persistence: How Tropical Cyclone Events Affect Sedimentation In The Gulf Of Mexico

A Practical Conceptual Design of Cyberinfrastructure for Earth Sciences

Big Data for a Big Ocean - Preserve, Discover, Access, and Use

Ontology Alignment with Mappings published in the Purdue Research Repository
NOAA/NCEP Weather Model Output Data for Decision Support Systems, Including Aggregation of Ensemble Model Output

Human & Machine Actionable Data Citations

Entity Linking for Earth and Environmental Science

Converting mb-system Files in Windows and Apple

Extending the ToolMatch Service by Expanding Community Engagement

Implementing Ecological Metadata Language in a Cross-Disciplinary Environmental Monitoring Database

Unidata: Helping the University Education and Research Community Access and Use Real-time Weather Data

HDFCRAFT: Making Data Fun!

Geofairy: An Open Geospatial Information Sharing Mobile Platform

ToolMatch Use Case Extension

VegScape: an update on the large-scale crop condition and progress monitoring system

Content Model Use and Development to Redeem Thin Section Records

Science on Drupal

Digital Object Identifiers (DOIs) Usage and Adoption in US Geological Survey (USGS)

Machine-Assisted Buildout of a Structured Vocabulary, including Ontology, for Geomaterials

Globally-Extensive Deep-Time Ocean-Floor Sedimentary Data in Paleocoordinates

Serving High-Resolution Imagery With OnEarth Open Source Software

Common Infrastructure to Improve User Experience (UX)

Automated Data Submission: From the Scientist to the Archive

LP DAAC Product Lifecycle Plan In Action

Geo-Space observation of atmospheric environmental effects associated with 2011 Fukushima nuclear accident

Climate Literacy and Energy Awareness Network (CLEAN)

Disaster Preparedness and Event Analysis

Estimating Rainfall for Index-based Agricultural Insurance

Applying Provenance Extensions to the OPeNDAP Framework

Internet and Mobile GIS Tools for Renewable Energy and Agricultural Application

LaTiS: Enabling Interoperability via a Universal Functional Data Model

Data and Documentation Preservation Systems at the NASA GES-DISC

Linking Us Together: the GeoScience Knowledge Network

A Proposed Study: Information Seeking Behavior of Geologists when Searching for Physical Sample Materials

Science Data on the Web Platform

Enterprise Metadata Management Architecture (EMMA)

Global Hydrology Resource Center

Development of a REST-like service for delivery of high resolution gridded bathymetry data and attribution metadata from the Global Multi-Resolution Topography (GMRT) synthesis

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The HICO Online Processing System: A Web-accessible Coastal Hyperspectral Imagery Processing System
Development of cyberinfrastructure to facilitate collaboration and knowledge sharing for marine Integrated Ecosystem Assessments
Enriching Earthdata by Improving Content Curation
Seamlessly collaborate, share, extend, version, and scale science experiments using a workbench
Going Beyond the Earthdata Website: Connecting with End Users Using Social Media and Webinars
OpenSearch: the data search API for everyone
The Live Access Server: Display, Analysis, and Distribution of Environmental Data
Rapid Deployment of a RESTful Service for Oceanographic Research Cruises
Digital Crust – A 4-D Exploratory Environment for Earth Science Research and Learning
Science Keyword Taxonomy and SKOS/Semantic Relationships in NASA's Global Change Master Directory (GCMD)
OPeNDAP Services – Present and Future at LP DAAC
LP DAAC MODIS Data Services
INTEROP – Spatial Ontology Community of Practice: an Interdisciplinary Network to Support Geospatial Data Sharing, Integration, and Interoperability
ToolMatch: Matching Visualization Tools with Data - an Ontology Based Web Service
Semantics and Linked Open Data: The OceanLink Project
RESTful Drupal Data Display Module using IDL/ENVI Service Engine hosted on a cloud
Improving the Review of Scientific Data for Public Dissemination
LTER GeoNIS: workflows to create web mapping services from Ecological Metadata Language (EML) documents
GCE Data Toolbox for MATLAB
Semantic Similarity Computation and Concept Mapping in Earth and Environmental Science
Aquaponics For Triage and Emergency Response (A.F.T.E.R.)
ESDIS DOI System, Approach, and Future Direction
NASA Worldview & Global Imagery Browse Services (GIBS) Demonstrating Changing Paradigms for Using Satellite Imagery
SensorWeb Disaster Architecture Framework: Lessons Learned
The Imagery Exchange: Global Imagery Generation/Management
Development and Use of Segmented Libraries of Inundation Extents for Rapid Flood Mapping
Deliberations of Reusing the PROV Ontology for provenance capture in Earth and Environmental Sciences
Earth Science Data from NASA Earthdata
Progress in Open-World, Integrative, Collaborative Science Data Platforms,
Sharing Earth Science Data Using The Earthdata Collaboration Environment (ECE)
ArcGIS Online as Linked Data
The Common Metadata Repository: A High Performance, High Quality Metadata Engine for Next Generation ESDIS Applications
Linking Humans to Data: Designing an Enterprise Architecture for EarthCube
The value of friction, tension, and disparity in global collaboration
From Big Data to Small Transportable Products for Decision Support for Floods in Namibia

LTAR-NEON Integration: A Conceptual Architecture

ISEES: Envisioning the Future for Earth Science Software

Provenance Capture in Data Access And Data Manipulation Software

Earth Science Data from NASA's Earthdata website

Evaluating and Improving Metadata for Data Use and Understanding

HDF4 Maps: For Now and For the Future

ODISEES: An Ontology-Driven Interactive Search Environment for Earth Sciences

OnEarth imagery access using the Meta Raster Format (MRF)

ToolMatch: Discovering What Tools can be used to Access, Manipulate, Transform, and Visualize Data

Climate Literacy and Energy Awareness Network (CLEAN)

Orographic Storms Laboratory, Spring 2013: Student Research and Education at 685mb

Semantic Similarity Computation and Concept Mapping in Earth and Environmental Science

User-Oriented Agricultural Drought Information Cluster

Global Land Cover Facility: Overview of Current Research Activities

CLIMATE LITERACY INITIATIVES FROM THE COOPERATIVE INSTITUTE FOR METEOROLOGICAL SATELLITE STUDIES

Tracking Provenance with the Global Change Information System (GCIS)

The Global Emissions Initiative’s Vision for Improved Emissions Information

A Comparative Analysis of Scientific Data Publication Opportunities

Big Data and the Atmospheric Science Data Center: Improving Access & Understanding of Data

Toolssets for Airborne Data (TAD): Customized Data Merging Function

Making the Case for Data Stewardship Use Cases Through Better Stakeholder Connections

The CEOS Global Observation Strategy for Disaster Risk Management: An Enterprise Architect's View

Event-Driven Data Delivery (ED3) Technologies for Severe Weather Research Innovations Lab: Moving Technology from Research to Production

The Biological and Chemical Oceanography Data Management Office

Data Albums: A synthesis engine to support case study and climatology analysis

Collaborative Workbench for Cyberinfrastructure to Accelerate Science Algorithm Development

Real Time Data Management Tools for GPM Ground Validation Field Campaigns

Physical Oceanography Distributed Active Archive Center Web Services

CanopyApp

Investigating the potential for archaeological sites on the submerged southern Beringian Archipelago

ESIP’s Emerging Provenance and Context Content Standard Use Cases: Developing Examples and Models for Data Stewardship

Connecting Users to Earth Science Data and Services through NASA's Global Change Master Directory's (GCMD) Web Services

Creating a Collaborative Environment for Earth Data

The HDF Earth Science Platform
An International GIS and Data Curation dissemination framework using mobile devices: a Purdue-Aalto University example

The Standards Adoption Process

USGS Community for Data Integration: Project Overview

ScienceBase: a big ol' scientific database

U.S. Geological Survey Emergency Response to Evaluate and Support Natural and Human-induced Disasters: The EROS Experience

Ongoing CEESMO Projects

Lifemapper: Infrastructure and Web Services Enabling Biodiversity Research

DataNet Federation Consortium - Policy-based data management

Cloud for Climate: Data & Resource Management on Cloud

The OpenPub Funding Friday Project: New Approaches for Scientific Publishing

Coastal Hazard Events Driven Automated Data Aggregation, Processing, and Delivery

Improved Access, Management and Preservation of Traditional Knowledge and Data through Online Tools

Ontology engineering for provenance enablement in the third National Climate Assessment

NASA Earthdata Code Collaborative (ECC)

National Earth Science Teachers Association: Earth Science Education Leadership and the Next Generation Science Standards

CPPCC National Committee, Zhejiang Geely Holding Group Chairman Li Shufu the answer is quite impressive.

Big Spatio-Temporal Data: OGC Web Coverage Services

Agile Analytics with EarthServer

GPM Ground Validation Field Campaigns: Collaboration and Data Management Tools

Data Conservancy Provenance, Context and Lineage Services: Key Components for Data Preservation and Curation

Toward NASA Best Practices for ISO 19115

Nagg - a Tool to Aggregate and Package JPSS Products

NASA Worldview & Global Imagery Browse Services (GIBS) - Demonstrating NASA's Changing Paradigms for Using Satellite Imagery

ECHO OpenSearch

The SEAD Prototype: Data Curation and Preservation for Sustainability Science

NASA Science on Drupal Central: Science is better on Drupal

Data Management Training for Earth Scientists -- What's Next?

Measuring the Multidisciplinary Impact of Scientific Data Disseminated by the NASA SEDAC

MODIS Web Services: Enabling Automated Access and Post-Processing of MODIS Science Data

Conversion of Archived HDF Satellite Level 2 Swath Data Products to NetCDF

Funding Friday Project Update: ESIP Federation Network Analysis Project

Cloud Computing for the NASA Atmospheric Sciences Data Center with Amazon Web Services

Advanced Subsetter Capabilities for Atmospheric Science Datasets

Overview of Data Discovery and Access at the ASDC
Eye on Earth Global Network of Networks Special Initiative Activities for 2013
Climate Literacy and Energy Awareness Network (CLEAN) – Providing Reviewed Educational Resources to Enhance the Effective Use of Earth Science Data and Knowledge
ENVI & IDL Services Engine for Web Accessible Multi- & Hyperspectral Applications
Data for Disaster Planning, Response, Management and Awareness
Ontology-supported Data Discovery and Access
Implementing GIS for Expanded Data Accessibility and Discoverability
Implementing iRODS for Data Federation
Making the Old New Again: New Seasat Satellite Images from 35-Year-Old Raw Data
Discovery of atmosphere composition data through federated catalog
Global Agricultural Drought Monitoring and Forecasting System: a tool to map and analyze agricultural drought
VegScape: a national crop condition monitoring system
Digital Earth Watch and Picture Post Network– What’s in a Digital Picture?
Geospatial Information Management - a Model for Embrapa
NASA’s Global Change Master Directory (GCMD) Next Generation Website
DataONE Data Observation Network for Earth
Using OGC Standards for Big Earth Data Analytics: the EarthServer Initiative
Digital Object Identifiers for EOSDIS Products
Climate Literacy and Energy Awareness Network (CLEAN) – A Mechanism for Broader Impacts of Research Efforts
New Initiatives at the Renaissance Computing Institute (RENCI - UNC): Water Science Software Institute and the National Consortium for Data Science
Federation of Coastal Storm Surge Forecasts using THREDDS, OPeNDAP, and UGRID, a CF Extension for Unstructured Model Grids
Framework for data-informed policy making
Using Satellite Data for Disaster Management
Data reorganization for optimal time series data access, analysis, and visualization
Improving Open Scientific Data Practices: Lessons from Open Source Software
ODISEES: An Ontology-Driven Interactive Search Environment for Earth Science
Coastal Research at the Information Technology and Systems Center
Assessing opinions on Skills, Access, and Trust relating to Data Re-use within the ESIP member community
The Use of Near Real-Time Oceanographic Data in Undergraduate Learning Environments
A cloud platform adoption advisory tool for cloud computing adopters
Addressing Science and Policy Needs with Community Emissions Efforts
Data Identifiers, Versioning, and Micro-citation
Automated Data Delivery and Processing for Disaster Events
Bridging the Big Data Digital divide with Data Prospecting
Lessons learned in deploying a cloud-based knowledge platform for the ESIP Federation
ISO Lineage Metadata at the AMSR-E SIPS
Navigating ESIP on the Web: A unifying online presence for the multifaceted services of the ESIP community.
Climate Change Challenge Championship: A gamified, interactive, educational web tool
HTTP-based Search and Ordering Using ECHO’s REST and OpenSearch APIs
CWIC Start a proof-of-concept client for the CEOS WGISS Integrated Catalog (CWIC)
From interoperability to interactivity: a test of exploratory visualization with semantic web technologies
A Case Study of Data Management With New Mexico EPSCoR
Cf/Radial - A Radar and Lidar Data Format for data providers, end users, and tool providers
Information Modeling and Semantic Web Application For National Climate Assessment
Revitalizing Forgotten Data: Bringing 50 years of Glacial Photography into the Digital Age
The ASF Wetlands data portal: Enabling visualization, analysis, and distribution of NASA MEaSUREs Wetlands data
Climate services partnership
Rapid prototyping of Linked Data visualizations using LODSPeaKr
NASA Science on Drupal Central ACCESS Project
Collaboration Environments
Earth Science Keyword Stewardship: Access and Management through NASA’s Global Change Master Directory (GCMD) Keyword Management System (KMS)
Arctic Collaborative Environment (ACE)
Interpretation of Real-time Weather and Climate for Spherical Displays
McIDAS-V : Visualization and Analysis Capabilities for JPSS
Brokering as a Core Element of EarthCube’s Cyberinfrastructure
Computer-based Games, Interactive Simulations and Virtual Labs for STEM Teaching and Learning
Discovery Cluster Testbed Geoportal
The Rosetta Stone - Connecting Metadata Dialects
A Public Cloud-Based Portal for Ontology Management and Distribution
Discovering and Utilizing Coastal Ocean Data via NASA’s CMDS
NEON: Transforming Environmental Data into Information for Societal Benefit
Climate Literacy and Energy Awareness Network (CLEAN) – A Mechanism for Broader Impacts of Research Efforts
Scalable Job Management for Data Ingestion
MODIS Web Services
The USGS Derived Downscaled Climate Projection Portal: A data rich web application for visualization of climate change indices.
STOQS: The Spatial Temporal Oceanographic Query System
ESSI-LOD: A Crystallization Point for Linked Data in the Geosciences
ESIP’s Data Management Training Efforts
What’s New at the HDF-EOS Tools and Information Center Website
Artic Collaborative Environment (ACE)
GCMD/IDN: Advances in Keyword and Metadata Interoperability
AeroStat: Online Platform for the Statistical Intercomparison of Aerosols
Curated Data Albums for Earth Science Case Studies
A Probabilistic Approach to Understanding the Rain-Snow Transition in Future Climates
Detecting Suspended Sediments from Remote Sensed Data in the Northern Gulf of Mexico
NASA Reverb: Metadata-Driven Earth Science Data Discovery
Digital Earth Watch and Picture Post Network
Leveraging emerging technologies for spatial data infrastructure/portal serving maps and models
Towards a Multi-Mission, Airborne Science Data System Environment
An Understanding Framework for NASA Open Source Software
Real-time Data and Communications Services of NCAR's Earth Observing Laboratory
Decision Support Using NASA Data and Dispersion Modeling to Identify Possible Impacts of Prescribed Burns in Alabama
Beyond an image: using ontology and visualization to enrich Web Map Service for geosciences
Underwater Predictive Modeling for submerged archeological sites off Prince of Wales Island, SE AK
Development and Implementation of NASA ISO Geographic Metadata
MODIS Web Services: Enabling Automated Standard Access to MODIS Science Data
Skolr Digital Poster Service: from concept to service
How to Cite an Earth Science Data Set
Pre-Mission, Mission and Post Mission Data Management for NASA Field Campaigns
Using NASA Remote Sensing Data in a Geographical Information System
ESIP Teacher Workshops
Learning about Climate Change and Human-Health Impacts with the CHANGE Viewer
Service, Dataset, and Event Casting
Traversing Data Relations Using ESIP Standards
CEOS Atmospheric Composition Portal
inSitu Experience
Real-time Automated Cloud Classification from Live Webcams
Picture Post Newsletter: An Opportunity for Outreach
Climate Literacy and Energy Awareness Network (CLEAN)
Retrospective analog year analyses using NASA satellite data, a metric of improvements to USDA world agricultural estimates
Geoportal Server & Portal for ArcGIS: Disambiguation
Towards Natural Language Programming for Geospatial Analysis
Reference Model for Disaster Management
ECHO and ISO

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NEON: Transforming Environmental Data into Information for Societal Benefit
NASA's Global Change Master Directory's Discover and Access Earth Science Data Sets, Related Services, and Climate Diagnostics

CropScape

Picture Post: Digital Earth Watch: Relationships Between Land-Based Digital Imagery and Space-Based Satellite Imagery

Linking Open Research Data for Earth and Space Science Informatics

Engaging Climate Change Learners in Public School Settings

Demonstrating preservation connections using OAI-ORE

Enhanced Collaborative Disaster Management Through Interoperable Data Visualization

Human Sensor Networks: Use of Social Media and Self Organizing Maps for Automated Detection of Oil Spill Plumes in Satellite Observations

Towards a Domain Specific Software Architecture for Scientific Data Distribution

Provenance Collection and Display for the AMSR-E SIPS

Create Collaboratories for Earth Science using Talkoot

Building a Climatology for Coastal Gap Winds and Resulting Ocean Upwelling Events

Mine Your Data: GLIDER brings data mining to the masses

Can you build an iPhone app without writing a single line of code?

The GEOSS User Requirements Registry

The Picture Post Newsletter: An Opportunity for Outreach

An Elemental OPeNDAP Use Case

Winter Meeting 2015 Schedule

Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin

Notes

Citation

A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University

Abstract/Agoenda

About the Speaker

Notes

Citation

The Long-Term Agro-ecosystem Research (LTAR) Network: Current Status & Future Trends - Mark Walbridge, USDA LTAR

Overview of the NASA Soil Moisture Active/Passive (SMAP) Mission - Wade Crow, USDA ARS

Panel on User Needs Related to Food Resilience - Moderated by Brad Doom, NASA

ESIP 101

Improving Performance for Data Access Web Services

Metadata for Discoverability, Accessibility, Useability, and Understanding

Docker: open container system for developers and sys admins

Progress in Data Management Planning
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Schema.org for Earth Science
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GEOSS Architecture Implementation Pilot Phase 7: Earth Observation Apps for end-users
Birds of a Feather - Free space
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New ISO 19115-1 Capabilities
Data Stewardship Planning
10 Reasons Why Drupal & Automated FISMA IT Compliance is Becoming a Reality by Greg Elin

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Digital maturity of federal and federally funded earth sciences – status and next steps

Abstract/Agenda
Objectives
Approach
Topical Focus
Anticipated attendees
Session format
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Proceedings

Plenary
Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin
A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University
The Long-Term Agro-ecosystem Research (LTAR) Network: Current Status & Future Trends - Mark Walbridge, USDA LTAR
Overview of the NASA Soil Moisture Active/Passive (SMAP) Mission - Wade Crow, USDA ARS
Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA
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Executive Committee
ESIP Federation Annual Business Meeting (Open to any interested)
State of the Federation

Other
Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA
Docker: open container system for developers and sys admins
GEOSS Architecture Implementation Pilot Phase 7: Earth Observation Apps for end-users
Resilience, Sustainability and Data – driven Adaptation
Science Software Cluster
Climate Informatics: Some use cases and future directions for an emerging domain
(re)Vision 2020 for Earth Science Data Systems
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Digital maturity of federal and federally funded earth sciences – status and next steps

Data Management Training
  Progress in Data Management Planning
  EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure

Documentation
  Metadata for Discoverability, Accessibility, Useability, and Understanding
  Metadata evaluation, consistency, compliance and improvement
  New ISO 19115-1 Capabilities
  Attribute Convention for Data Discovery: Present and Future

Climate Education Working Group
  Bridging the resolution gap between satellite data and agricultural applications
  Bridging the resolution gap between satellite data and agricultural applications

Semantic Web
  Schema.org for Earth Science

Preservation and Stewardship
  What does it mean to Publish Data?

Data Preservation
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  Data Stewardship Planning
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  Dynamic Data Citation

Products and Services
  HDF Product Designer

Education
  Earth Science Data Analytics 101
  Earth Science Data Analytics 201

Cloud Computing
  Cloud Technologies and Architectures Seminars
  EarthCube Architecture
  Disaster Lifecycle I
  Disaster Lifecycle II

Energy and Climate
  Data Needs for Energy Applications: Gaps, Traceability, Requirements

Discovery

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Information Technology and Interoperability
Improving Performance for Data Access Web Services
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Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel
Data Management Training
ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities
Workshop
Semantic Web
Semantic Tech Expo
Posters
Recordings
Day 1 - Tuesday January 6th
Welcome Remarks & Plenary
Esip 101
Metadata for Discoverability, Accessibility, Useability, and Understanding (BEDI/NASA)
Docker: open container system for developers and sys admins
Progress in Data Management Planning
Bridging the resolution gap between satellite data and agricultural applications
Improving Performance for Data Access Web Services
EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure

Day 2 - Wednesday Jan 7th
Annual Business Meeting
Morning Plenary
Global Change Information System (GCIS)
Earth Science Data Analytics 101
Science Software Cluster
Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests
Cloud Technologies and Architectures Seminars
Resilience, Sustainability and Data-driven Adaptation

Day 3 - Thursday January 8th
NASA EOSDIS Evolving Technologies Discussion
Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions
Semantic Tech Expo
Disaster Life Cycle I
ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities
Preservation and Stewardship Committee reporting session
(re)Vision 2020 for Earth Science Data Systems
Attribute Convention for Data Discovery: Present and Future
Drupal Working Group: Code Sprint
Digital maturity of federal and federally funded earth sciences – status and next steps
Dynamic Data Citation

Story

Data Science ESIP Publication

I have attended these ESIP meetings before and tried to figure out their purpose and web/wiki content.

The ESIP Winter Meeting 2015 was equally difficult to figure out the purpose and content. The bits and pieces I heard were about data publication and briefing the NITRD. Since the Federal Big Data Working Group Meetup does data science publications for senior government leaders and programs, I decided to better organize the ESIP Winter Meeting 2015 content for a purpose, namely a data publication.

Interestingly, ESIP uses Drupal (a Wiki) to add structure and semantics, but I find it hard to see that ESIP content in Drupal is more understandable and a data publication. The key piece of ESIP Winter Meeting 2015 content is a Google spreadsheet, not Drupal, and should be the interface to all the other content in a structured and semantically...
searchable form. That is what the Knowledge Base and Spreadsheets I am going to build will do.

So here is the navigation path:

- There are 4 sources of information
  - Federation: http://esipfed.org/
  - Commons: A knowledge repository created by members of the ESIP community. Content on this site is licensed under Creative Commons and freely available to the public for use, sharing, repurposing and remixing.
    - Test Bed: http://testbed.esipfed.org/
    - Wiki: http://wiki.esipfed.org/
  - The Commons knowledge repository contains 3,356 items that can be in linked data format in an Excel spreadsheet
  - The Winter Meeting 2015 Agenda consists of multiple formats and pages: http://commons.esipfed.org/2015WinterMeeting
    - Drupal annotated schedule: http://commons.esipfed.org/2015WinterMeeting#Agenda
    - Google Doc spreadsheet
  - The Commons also contains the Posters and Demos for 2012-1015
  - The Winter Meeting 2015 Proceedings have not been posted yet

The key results for data publication are:

- The ESIP: Semantic Portal contains the ESIP: Ontology Portal provides a single site where ontologies related to ESIP, its members, and the earth science domain can be found, but the question is: What do these do for ESIP?
- Selected Sessions:
  - A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University
  - What does it mean to Publish Data?
  - Earth Science Data Analytics 101
  - Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests
  - Resilience, Sustainability and Data --driven Adaptation
  - Dynamic Data Citation

The closest ESIP content I found to what I am doing here is the following 2013 poster:

Navigating ESIP on the Web: A unifying online presence for the multifaceted services of the ESIP community

The purpose of this poster is to display the creation of a comprehensive web presence that represents concepts of the philosophy and the integral components of the ESIP community. The design serves to create a cohesive hub unifying the distinct communication and knowledge capture services offered by and for the ESIP federation. The esipfed.org front page incorporates other web elements by link and provides a visual understanding of the network that facilitates navigation, reduces text elements, and adds an element of interactivity. The design is in
the process of implementation and this poster displays the elements of that new design for the community.

Reid Boehm, University of Tennessee, Erin Robinson, Foundation for Earth Science, and Carol Meyer, Foundation for Earth Science

I found the USDA Food Environmental Atlas data download, cleaned and added an integration tab, imported it in Spotfire, build a Spotfire application that tells a data science story, and found that Harris County, Texas leads the nation in Population with low access to store in 2010 and Household Food Insecurity (percent, 3-year average 2010-2012). There is also a strong correlation between obesity and diabetes at the county level. See Spotfire Dashboard and screen captures below.

Some Conclusions and Recommendations

- Foundation & ESIP: Information in many places and multiple tools.
  - Need to integrate and structure.
- Winter Meeting 2015 Theme: Leveraging Earth Science Data and Analytics in Food Systems.
  - Where’s the data science and analytics?
  - Mine for data sets for data science publications.
- Data: Citation Guidelines 2012 and Data Publication 2015.
  - Add Proceedings to my ESIP Data Science Publication.

I think this Data Science ESIP Publication meets the Coalition for Publishing Data in the Earth and Space Sciences requirements.

The Data Citation Principles cover purpose, function and attributes of citations. These principles recognize the dual necessity of creating citation practices that are both human understandable and machine-actionable.

The principles are grouped so as to facilitate understanding, rather than according to any perceived criteria of importance.

- Importance
Data should be considered legitimate, citable products of research. Data citations should be accorded the same importance in the scholarly record as citations of other research objects, such as publications.

- **DONE**

**Credit and Attribution**

- Data citations should facilitate giving scholarly credit and normative and legal attribution to all contributors to the data, recognizing that a single style or mechanism of attribution may not be applicable to all data.

- **DONE**

**Evidence**

- In scholarly literature, whenever and wherever a claim relies upon data, the corresponding data should be cited.

- **DONE**

**Unique Identification**

- A data citation should include a persistent method for identification that is machine actionable, globally unique, and widely used by a community.

- **DONE**

**Access**

- Data citations should facilitate access to the data themselves and to such associated metadata, documentation, code, and other materials, as are necessary for both humans and machines to make informed use of the referenced data.

- **DONE**

**Persistence**

- Unique identifiers, and metadata describing the data, and its disposition, should persist -- even beyond the lifespan of the data they describe.

- **DONE**

**Specificity and Verifiability**

- Data citations should facilitate identification of, access to, and verification of the specific data that support a claim. Citations or citation metadata should include information about provenance and fixity sufficient to facilitate verifying that the specific time-slice, version and/or granular portion of data retrieved subsequently is the same as was originally cited.

- **DONE**

**Interoperability and Flexibility**

- Data citation methods should be sufficiently flexible to accommodate the variant practices among communities, but should not differ so much that they compromise interoperability of data citation practices across communities.

- **DONE**

I added the Proceedings to the Knowledge Base, but still did not find links to actual data sources.
Data Science ESIP Publication

Dr. Brand Nimmer
Director and Senior Data Scientist/Data Journalist
Semantic Community
http://semanticommunity.info/
http://wwwmeetup.com/Virginia-Big-Data-Meetup/
http://wwwmeetup.com/Federal-Big-Data-Working-Group/
http://semanticommunity.info/Data_Science/weekly_big_data_working_group_meetup
January 9, 2013

Overview

- Foundation for Earth Science: management
  - Traditional Science View
  - Future Post-Data View
- ESP: 4 functions
  - Interoperability: Cross-domain collaboration & Interoperability
  - Commons: alternative publications
  - Test-bed: lab for new ideas
  - Wiki: day-to-day workplace
- Winter Meeting 2013: posters, proceedings (IN PROGRESS), & schedule
  - Knowledge Repository: Each Data Set
  - Winter Meeting 2013: Table Spreadsheet
  - Winter Meeting 2013: Multitask Knowledge Base
  - Winter Meeting 2013: Knowledge Base Excel Spreadsheet
  - Winter Meeting 2013: Sotkite Data Publication
- Some conclusions and recommendations: what I learned and did
  - Foundation & ESP: information in many places and multiple tools
  - Winter Meeting 2013 Theme: Leveraging Earth Science Data and Analytics in Food Systems
  - Winter Meeting 2013 Topics: P&L, Social Benefit, Monetary, Internal, & Data Stewardship
  - Data Citation Guidelines 2012 and Data Publication 2013

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication
Updated: Mon, 11 Nov 2019 06:15:56 GMT
Powered by mindtouch
## Slide 5 ESIP Commons: Knowledge Repository

**ESIP Commons: Knowledge Repository**

![ESIP Commons: Knowledge Repository Image](http://commons.esipfed.org/)

## Slide 6 ESIP Commons: Knowledge Repository Excel Data Set

**ESIP Commons: Knowledge Repository Excel Data Set**

![ESIP Commons: Knowledge Repository Excel Data Set Image](http://semanticommunity.info/api/df/1065/53047/ESIP2015.xlsx?d1a=1.xlsx)
Slide 7 ESIP Commons: Winter Meeting 2015

ESIP Commons: Winter Meeting 2015

http://commons.esipfed.org/2015/WinterMeeting

Slide 8 ESIP Commons: Winter Meeting 2015 Annotated Schedule

ESIP Commons: Winter Meeting 2015 Annotated Schedule

http://commons.esipfed.org/schedule/Winter%20Meeting%202015
Slide 9 ESIP Commons: Winter Meeting 2015 Individual Meeting

ESIP Commons: Winter Meeting 2015 Individual Meeting

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication

Updated: Mon, 11 Nov 2019 06:15:56 GMT
Powered by mindtouch
ESIP Commons: Knowledge Repository Search for Semantic Web

ESIP Commons: Knowledge Repository Search for Semantic Web

http://commons.esipfed.org/search/site?dc_title字段=ESIP

ESIP: Semantic Portal

- ESIP members have been developing ontologies for the environmental and geosciences domains for many years. They have also developed ontologies for representing in a machine language its own entities and processes. The purpose of these ontologies is to facilitate the description and exchange of all information related to ESIP. As the federation grows and becomes more diverse, there is a need for hosting these ontologies in a dedicated repository developed specifically for managing, accessing, searching, browsing, and generally disseminating ontologies. The benefit of such a repository for the ESIP foundation is to provide a single site where ontologies related to ESIP, its members, and the earth science domain can be found. Members can thus share their ontologies with each other and build additional constructs on each other’s foundation.
- The ESIP semantic portal can be accessed at:
  - http://semanticportal.esipfed.org/ontologies
ESIP: Ontology Portal

[Image: https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication]

Updated: Mon, 11 Nov 2019 06:15:56 GMT

Powered by mindtouch

Winter Meeting 2015: Knowledge Base Excel Spreadsheet

[Image: https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication]

Updated: Mon, 11 Nov 2019 06:15:56 GMT

Powered by mindtouch
Slide 19 Winter Meeting 2015: Spotfire Data Publication

Slide 20 Some Conclusions and Recommendations

Some Conclusions and Recommendations

- Foundation & ESIP: Information in many places and multiple tools.
  - Need to integrate and structure.
- Winter Meeting 2015 Theme: Leveraging Earth Science Data and Analytics in Food Systems.
  - Where's the data science and analytics?
  - Mine for data sets for data science publications.
- Data: Citation Guidelines 2012 and Data Publication 2015.
  - Add Proceedings to my ESIP Data Science Publication.

Spotfire Dashboard

For Internet Explorer Users and Those Wanting Full Screen Display Use: Web Player Get Spotfire for iPad App

Media, iframe, embed and object tags are not supported inside of a PDF.

Screen Captures
Research Notes

ESIP Earth Science Data Analytics

Discuss Use Case Information Needed. Continuing our face to face at ESIP, we decided to build a library of Earth science data analytics use cases, but first needed to ensure the information requested was clear and appropriate. Steve Kempler created a Google Spreadsheet open for review and comments. Besides the folks who, at the face-to-face, signed up to spend a little time to review and provide inputs on the spreadsheet, if others wish to be involved in editing, please send me an e-mail. I did this below. My Note: See our Spreadsheet

We will provide feedback our your spreadsheet on Analytics Use Cases. In fact our Meetup tonight will be doing that as well:

Data Science for the National Big Data R and D Initiative: http://www.meetup.com/Federal-Big-Data-Working-Group/events/218868025/

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication
Updated: Mon, 11 Nov 2019 06:15:56 GMT
Powered by mindtouch
by senior NSF and NIST big data scientists.

We have planned Federal Big Data Working Group Meetup coming out of the ESIP Winter Meeting that may be of interest: http://www.meetup.com/Federal-Big-Data-Working-Group/events/220121871/

All are welcome in-person our remotely.

USDA CIO and ACDO on Open Data Plan and Roundtable, March 16, 2015

I also meant to mention that I am using the newest Spotfire Cloud with their new Recommendations Analytics (Slides) and am very pleased. It is based on 19 years of Best Practices and built into the software to help one be both a data artist and decision maker with the data set (s) being used.

What if you let the data tell you what analytics are most appropriate so each data set is a use case data publication? The Federal Big Data Working Group Meetup has produced a number of uses cases for past and upcoming meetups like the ESIP for USDA: http://www.meetup.com/Federal-Big-Data-Working-Group/events/220121871/

Recommendations: Charting a Faster Course to Analytic Insights: http://spotfire.tibco.com/blog/?p=28507

From Data to Dashboard in Under a Minute: http://spotfire.tibco.com/blog/?p=28651

Because Analytics Should Be For Everyone

Business professionals, like you, rely on data to guide your decisions. But not everyone is an expert in analytics techniques and it can be tough to get started.

Recommendations from TIBCO Spotfire® uses a built-in analytics intelligence wizard to enable anyone to create best practice visualizations (or entire dashboards) in just a couple of clicks – no expertise required.

Finding new business insights just got even easier and faster.

Recommended visualizations appear automatically when you select the data you want to analyze.

As you select more data, recommended graphs and chart choices update to reflect best practices for your chosen data, eliminating visualization selection trial and error.

Previews of your actual data give you a sneak peek into data insights, jumpstarting your analysis.

When you see a visualization you like, select it and begin your analysis. Create one, two, or a whole dashboard of connected, interactive visualizations with just a few simple mouse clicks.

http://spotfire.tibco.com/recommendations

Recommendations is specifically for the everyday business user who relies on data for discovery and insight to guide business decisions. Recommendations makes finding value in data easier and faster by using a built-in analytics intelligence wizard, creating best-practice visualizations for those who want insight in just a couple of clicks.
ESIP Web Sites

Federation: http://esipfed.org/

Commons: See Below

Test Bed: http://testbed.esipfed.org/

Wiki: http://wiki.esipfed.org/

Results for #ESIPFed: https://twitter.com/search?q=%23ESIPFed&src=typd

Government Data Hubs: https://project-open-data.cio.gov/data-hubs/

Department of Agriculture (2) My Note: USDA Open Data Catalog that should be in linked open data format

Economic Research Service My Note: See Food Environment Atlas below

Food and Nutrition Service My Note: Data and Statistics in Excel

Foreign Agricultural Service My Note: Browse Data & Analysis (Lots)

National Agricultural Statistics Service My Note: Data and Statistics 2010

USDA Food Security Google Search Results


My Note: It says download in Excel, but I do not find Excel files. There is a link to data: http://www.ers.usda.gov/data-products.aspx

Maps
The Food Environment Atlas is a web-based mapping tool developed by ERS that allows users to compare U.S. counties in terms of their "food environment"--indicators (most at the county level) that help determine and reflect a community’s access to affordable, healthy food.

And then I found where to download the data: http://www.ers.usda.gov/data-product...downloads.aspx Excel

http://blogs.usda.gov/2013/04/29/ope...food-security/

https://www.youtube.com/watch?v=DMdn9VTeaRg

http://www.ars.usda.gov/Services/docs.htm?docid=24912
GitHub Glossary

Fork: How other users copy a repo and repurpose it.

Gist: A simple way to share code snippets without committing to a full repo.

Git: An open-source, distributed version control system that allows anyone, anywhere to collaborate on code. GitHub uses Git version control.

Issues: A way for people to submit feature requests or bugs that others can then comment on and help resolve.

Pull request: How users contribute code to a repo. If the owner accepts it, the code is "merged" into the main project.

Repo: Short for "repository"; this is where an open-source project lives.

About the Food Environment Atlas


Objectives of the Atlas:

Food environment factors—such as store/restaurant proximity, food prices, food and nutrition assistance programs, and community characteristics—interact to influence food choices and diet quality. Research has been documenting the complexity of these interactions, but more research is needed to identify causal relationships and effective policy interventions.

The objectives of the Atlas are:

- to assemble statistics on food environment indicators to stimulate research on the determinants of food choices and diet quality, and
- to provide a spatial overview of a community's ability to access healthy food and its success in doing so.

What information is included in the Atlas?

The Atlas assembles statistics on three broad categories of food environment factors:

- **Food Choices**—Indicators of the community's access to and acquisition of healthy, affordable food, such as: access and proximity to a grocery store; number of foodstores and restaurants; expenditures on fast foods; food and nutrition assistance program participation; food prices; food taxes; and availability of local foods.

- **Health and Well-Being**—Indicators of the community's success in maintaining healthy diets, such as: food insecurity; diabetes and obesity rates; and physical activity levels.

- **Community Characteristics**—Indicators of community characteristics that might influence the food environment, such as: demographic composition; income and poverty; population loss; metro-nonmetro status; natural amenities; and recreation and fitness centers.
The Atlas currently includes over 211 indicators of the food environment. The year and geographic level of the indicators vary to better accommodate data from a variety of sources. Some indicators are at the county level while others are at the State or regional level. The most recent county-level data are used whenever possible.

See Data Access and Documentation Downloads for a complete list of indicators, definitions, and data sources. **NOTE: This link has important information extracted below.**

In the downloadable Excel spreadsheets:

- State and county Federal information processing standards (FIPS) codes are provided.
- The variable lookup file links the short field descriptions (indicator names) used in the data file with the longer indicator names used in the Atlas.
- Unless otherwise noted with asterisks on the longer indicator names (in the variable lookup file), indicators are county-level measures. A single asterisk * denotes a State-level indicator, while a double asterisk ** denotes a regional-level indicator.
- "No data" fields are empty or referenced with "-9999".
- Supplemental data are provided in additional tabs (State- and county-level data are provided separately).

**What can users do with the Atlas?**

- Create maps showing the variation in a single indicator across the United States; for example, variation in the prevalence of obesity or access to grocery stores across U.S. counties;
- View all of the county-level indicators for a selected county;
- Zoom in to specific areas and export or print maps;
- Download the full dataset in Excel format.

**Recommended Citation**


**Acknowledgments**

The Economic Research Service would like to acknowledge the support it has received from across the Federal Government, academia, and the private sector in compiling the information for the Atlas. The Centers for Disease Control and Prevention provided the statistics on obesity, diabetes, and physical activity; the National Cancer Institute provided indicators on recreation centers; USDA's Agricultural Marketing Service provided indicators on farmers' markets; USDA's Food and Nutrition Service provided information on State-level food and nutrition assistance program participation rates; and the National Farm-to-School Network provided statistics on farm-to-school programs. The information on State beverage and snack taxes are from the Bridging the Gap Program, University of Illinois at Chicago.

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**Coalition for Publishing Data in the Earth and Space Sciences**


The newly formed Coalition for Data Publication in the Earth and Space Sciences intends to provide an organizational
framework for Earth and space science publishers and data facilities to jointly implement and promote common policies and procedures for the publication and citation of data across Earth Science journals.

Marking the launch of the partnership is a joint Statement of Commitment signed by key publishers and repositories that is released on January 15, 2015.

Statement of Commitment

Source: http://www.copdess.org/home/statement-of-commitment/

Statement of Commitment from Earth and Space Science Publishers and Data Facilities

Coalition on Publishing Data in the Earth and Space Sciences

Earth and space science data are special resources, critical for advancing science and addressing societal challenges – from assessing and responding to natural hazards and climate change, to use of energy and natural resources, to managing our oceans, air, and land. The need for and value of open data have been encoded in major Earth and space science society position statements, foundation initiatives, and more recently in statements and directives from governments and funding agencies in the United States, United Kingdom, European Union, Australia, and elsewhere. This statement of commitment signals important progress and a continuing commitment by publishers and data facilities to enable open data in the Earth and space sciences.

Scholarly publication is a key high-value entry point in making data available, open, discoverable, and usable. Most publishers have statements related to the inclusion or release of data as part of publication, recognizing that inclusion of the full data enhances the value and is part of the integrity of the research. Unfortunately, the vast majority of data submitted along with publications are in formats and forms of storage that makes discovery and reuse difficult or impossible.

Repositories, facilities, and consortia dedicated to the collection, curation, storage, and distribution of scientific data have become increasingly central to the scientific enterprise. The leading Earth and space science repositories not only provide persistent homes for these data, but also ensure quality and enhance their value, access, and reuse. In addition to data, these facilities attend to the associated models and tools. Unfortunately, only a small fraction of the data, tools, and models associated with scientific publications makes it to these data facilities.

Connecting scholarly publication more firmly with data facilities thus has many advantages for science in the 21st century and is essential in meeting the aspirations of open, available, and useful data envisioned in the position statements and funder guidelines. To strengthen these connections, with the aim of advancing the mutual interests of authors, publishers, data facilities, and end-users of the data, a recent Earth and space science data and publishing conference, supported by the National Science Foundation, was held at AGU Headquarters on 2-3 October 2014. It brought together major publishers, data facilities, and consortia in the Earth and space sciences, as well as governmental, association, and foundation funders. Further informational meetings were held with Earth and space science societies, publishers, facilities, and librarians that were not present at the October meeting. Collectively the publishers, data facilities, and consortia focused on open data for Earth and space science formed a working group: Coalition on Publishing Data in the Earth and Space Sciences. As one outcome, this group collectively endorsed the following commitments to make meaningful progress toward the goals above. We encourage other publishers and data
facilities and consortia to join in support.

Signatory data facilities, publishers, and societies, in order to meet the need for expanding access to data and to help authors, make the following commitments:

- We reaffirm and will ensure adherence to our existing repository, journal, and publisher policies and society position statements regarding data sharing and archiving of data, tools, and models.
- We encourage journals, publishers, and societies that do not have such statements to develop them to meet the aspirations of open access to research data and to support the integrity and value of published research. Examples of policies and position statements from signatory journals and societies are listed here.
- Earth and space science data should, to the greatest extent possible, be stored in appropriate domain repositories that are widely recognized and used by the community, follow leading practices, and can provide additional data services. We will work with researchers, funding agencies, libraries, institutions, and other stakeholders to direct data to appropriate repositories, respecting repository policies.
- Where it is not feasible or practical to store data on community-approved repositories, journals should encourage and support archiving of data using community-established leading practices, which may include supplementary material published with an article. These should strive to follow existing NISO guidelines.

Over the coming year, the signatory Earth and space science publishers, journals, and data facilities will work together to accomplish the following:

- Provide a usable online community directory of appropriate Earth and space science community repositories for data, tools, and models that meet leading standards on curation, quality, and access that can be used by authors and journals as a guide and reference for data deposition.
- Promulgate metadata information and domain standards, including in the online directory, to help simplify and standardize data deposition and re-use.
- Promote education of researchers in data management and organize and develop training and educational tools and resources, including as part of the online directory.
- Develop a working committee to update and curate this directory of repositories.
- Promote referencing of data sets using the Joint Declaration of Data Citation Principles, in which citations of data sets should be included within reference lists.
- Include in research papers concise statements indicating where data reside and clarifying availability.
- Promote and implement links to data sets in publications and corresponding links to journals in data facilities via persistent identifiers. Data sets should ideally be referenced using registered DOI’s.
- Promote use of other relevant community permanent identifiers for samples (IGSN), researchers (ORCID), and funders and grants (FundRef).
- Develop workflows within the repositories that support the peer review process (for example, embargo periods with secure access) and within the editorial management systems that will ease transfer of data to repositories.

A major challenge today is that much more Earth and space science data are being collected than can be reasonably stored, curated, or accessed. This includes physical samples, information about them, and digital data (sometimes streaming at rates of terabytes per minute). Researchers and publishers are looking for guidance on what constitutes archival data across diverse fields and disciplines. The major data repositories provide leading practices that should help guide the types of samples, data, metadata, and data processing descriptions that should be maintained, including information about derivations, processing, and uncertainty.

To enable improved coordination and availability of open data, we encourage funders to support these commitments.
ensure a robust infrastructure of data repositories, and enable broad outreach with researchers. As a general rule, data management plans promulgated by funders should indicate that release into leading repositories, where available, of those data necessary to support published results is expected at publication. The ultimate measure of success is in the replicability of science, generation of new discoveries, and in progress on the grand challenges facing society that depend on the integration of open data, tools, and models from multiple sources.

Signatories

American Astronomical Society
American Geophysical Union
American Meteorological Society
Biological and Chemical Oceanography Data Management Office, Woods Hole Oceanographic Institution (BCO-DMO)
Center for Open Science
CLIVAR and Carbon Hydrographic Data Office (CCHDO)
Community Inventory of EarthCube Resources for Geosciences Interoperability (CINERGI)
Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI)
Continental Scientific Drilling Coordination Office (CSDCO)
Council of Data Facilities
Elsevier
European Geophysical Union
Geological Data Center of Scripps Institution of Oceanography
ICSU World Data System
Incorporated Research Institutions for Seismology (IRIS)
Integrated Earth Data Applications (IEDA)
John Wiley and Sons
LacCore: National Lacustrine Core Facility
Magnetics Information Consortium (MagIC)
Mineralogical Society of America
Neotoma Paleoecology Database
National Snow and Ice Data Center
Nature Publishing Group
OpenTopography
Paleontological Society
Proceedings of the National Academy of Sciences
Rolling Deck to Repository (R2R) Program
Science
UNAVCO

ESIP Commons

Source: http://commons.esipfed.org/

The ESIP Commons is a knowledge repository created by members of the ESIP community. Content on this site is
winter Meeting 2015 Agenda

http://commons.esipfed.org/2015WinterMeeting

Commons annotated schedule

http://commons.esipfed.org/2015WinterMeeting#Agenda

My Note: See below

Google Doc spreadsheet

https://docs.google.com/spreadsheet/...FSWF1LUE#gid=0

My Note: This Interface is in the Knowledge Base Spreadsheet

Day 1 Tuesday, January 6

Key: IT&I, Societal Benefit, Plenary, External, Data Stewardship

7:00 Registration Open

Lower Level Foyer

8:00 Welcome

Peter Fox, ESIP President, RPI-TWC
New Hampshire

8:15 Leveraging Earth Science Data and Analytics in Food Systems

Molly Jahn, University of Wisconsin
New Hampshire

8:45 A Systems Approach to Food Resilience

Joseph Fiksel, Center for Resilience, Ohio State University
New Hampshire
9:15 USDA Speaker
Mark Walbridge, USDA LTAR
New Hampshire

9:45 USDA Speaker
Wade Crow, USDA ARS
New Hampshire

10:15 Break
Lower Level Foyer

10:30 Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA
Molly Brown, NASA/SMAP Early Adopter Program
Liangzhi You, International Food Policy Research Institute
John Bolten, NASA (GEOGLAM)
Josh Liebermann, OGC Agriculture & Climate WG
New Hampshire

12:00 Lunch, ESIP 101
City Center Ballroom

1:30 Breakout Sessions

Metadata for Discoverability, Accessibility, Useability, and Understanding (BEDI/NASA)
Habermann
New Hampshire

Docker: open container system for developers and sys admins
Fils
Potomac

Bridging the resolution gap between satellite data and agricultural applications
Teng
Mt. Vernon

**Progress in Data Management Planning**

Ritchey

Dupont

**EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure**

Katz

Dining Room

**Improving Performance for Data Access Web Services**

Fulker/Gallagher

Foggy Bottom

**3:00 Break/Poster Set-up**

Lower Level Foyer

**3:30 Breakout Sessions**

**Metadata evaluation, consistency and improvement**

Armstrong

New Hampshire

**Schema.org for Earth Science**

Fils

Potomac

**Bridging the resolution gap between satellite data and agricultural applications (part 2)**

Teng

Mt. Vernon
What does it mean to Publish Data?
Ritchey/Duerr
Dupont

BOF
Dining Room

GEOSS AIP-7
Percivall
Foggy Bottom

5:00 Poster Session & Reception
City Center Ballroom
See Posters and Demo

My Note: Which are 2015 Winter Meeting?

Day 2 - Wednesday, January 7

7:00 Registration Open

8:00 ESIP Federation Annual Business Meeting (Open to any interested)
Fox
City Center

9:00 State of the Federation & Partners
Fox
New Hampshire

10:15 Break
Lower Level Foyer
10:30 Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA

Tim Stryker, Office of Science and Technology Policy
Fabien Laurier, Office of Science and Technology Policy
Rick Driggers, National Security Council
New Hampshire

12:00 Lunch, ESIP Peer Recognition Awards
City Center

1:30 Breakout Sessions

Global Change Information System (GCIS)
Wolfe
New Hampshire

Earth Science Data Analytics 101
Kempler
Potomac

Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests
Ma/Fox
Mt. Vernon

Science Software Cluster
Weber
Dupont

Resilience, Sustainability and Data-driven Adaptation
Foley
Dining Room
Cloud Technologies and Architectures Seminars
Yang/Huang
Foggy Bottom

3:00 Break
Lower Level Foyer

3:30 Breakout Sessions

The HDF Product Designer
Jelenak/Lee
New Hampshire

Earth Science Data Analytics 201
Kempler
Potomac

Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel
Ma/Fox
Mt. Vernon

Climate Informatics: Some use cases and future directions for an emerging domain
Weber
Dupont

Data Needs for Energy Applications
Eckman/Privette
Dining Room

EarthCube Architecture
Richard
Day 3 - Thursday, January 8

7:30 Registration Open

8:30 Breakout Sessions

NASA EOSDIS Evolving Technologies Discussion
Baynes
New Hampshire

Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions
Ross/Bender
Potomac

Disaster Life Cycle I
Law/Moe
Mt. Vernon

Semantic Tech Expo
Narock/Huffer
Dupont

Preservation and Stewardship Committee reporting session
Hills
Dining Room
ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities

Pearthree/Powers
Foggy Bottom

10:00 Break
Lower Level Foyer

10:30 Breakout Sessions

ISO 19115-1 in practice
Habermann
New Hampshire

Discovery Session (Best Practices)
Newman/Lynnes
Potomac

Disaster Life Cycle II
Law/Moe
Mt. Vernon

Drupal Working Group: Open House
Bassendine/Shepherd
Dupont

Data Stewardship Planning
Duerr/Goldstein
Dining Room

BOF
Foggy Bottom
12:00 Lunch - ESIP 202 New Leadership
City Center

1:30 Breakout Sessions

(re)Vision 2020 for Earth Science Data Systems
Lynnes
New Hampshire

Attribute Convention for Data Discovery: Present and Future
Monteleone
Potomac

Digital maturity of federal and federally funded earth sciences – status and next steps
Ziegler
Mt. Vernon

Drupal Working Group: Code Sprint
Bassendine/Shepherd
Dupont

Dynamic Data Citation
Duerr
Foggy Bottom

BOF
Dining Room

3:00 Break

3:30 Breakout Sessions
Earth Science Collaboratory Showcase
Lynnes
New Hampshire

BOF
Potomac

Digital maturity of federal and federally funded earth sciences – status and next steps
Ziegler
Mt. Vernon

BOF
Dupont

Dynamic Data Citation
Duerr
Dining Room

BOF
Foggy Bottom

Speakers

Day 1 - Jan. 6, 2015

Wade Crow, USDA ARS

Joseph Fiskel, Center for Resilience at Ohio State University (PDF)

Dr. Joseph Fiksel is Executive Director of the Center for Resilience at The Ohio State University, an interdisciplinary research center that is developing a unified approach for modeling risk, resilience, and sustainability in complex systems. As a research faculty member in the Integrated Systems Engineering Department, he collaborates with companies, government agencies, non-profits, and other organizations to develop new methods and tools for understanding the interdependence among social, environmental, and economic interests.
Molly Jahn, University of Wisconsin

Molly Jahn is a professor at the University of Wisconsin-Madison, holding appointments in the Department of Agronomy, the Laboratory of Genetics, and the Center for Sustainability and the Global Environment. From 2006-2011, she served as dean of the University of Wisconsin’s College of Agricultural and Life Sciences and Director of the Wisconsin Agricultural Experiment Station. In 2009-10, she was called to Washington, DC to provide interim leadership as Deputy and Acting Under Secretary of Research, Education and Economics at the U.S. Department of Agriculture. Her research programs at University of Wisconsin and Cornell University have produced vegetable varieties grown commercially and for subsistence on six continents. In 2011, she was selected to represent the U.S. on the CGIAR’s Commission for Sustainable Agriculture and Climate Change. In 2012, she was recognized with the highest award conferred by the U.S.D.A., the Secretary’s Honor Award and, in 2013, was named a Rothamsted Fellow in the U.K. Based on her contributions to the recent U.S. President’s Council of Advisors for Science and Technology report on agricultural preparedness, Jahn was selected to launch and lead a national student prize for agricultural innovation.

Mark Walbridge, USDA LTAR

Panel on User Needs for Food Resilience

Moderated by Bradley Doorn, NASA

Dr. Doorn is the Program Manager for Water Resources in the Applied Science Program of the Earth Science Division of NASA. With over 25 years of experience in applying remote sensing data to earth application issues, Dr. Doorn now manages over 50 applied projects. He also serves as the Applied Sciences Project Scientist on three missions; SMAP, LDCM, and GRACE-II; the Applied Project Scientist for two Earth Venture-1 projects; Global Agriculture Monitoring task lead at NASA; member of various sub-groups of the National Science and Technology Council of the Executive Office of the President’s Office of Science and Technology Policy; among other duties.

Molly Brown, NASA

John Bolton, NASA GEOGLAM

Gary Eilerts, USAID

Gary Eilerts oversees management and implementation of U.S. Agency for International Development’s Famine Early Warning Systems Network (FEWS NET), collaborating with international and national partners to provide on-the-ground information regarding food security issues in many areas of the world. He has led development of new FEWS NET program expertise in identifying climate change impacts in food insecure countries and in building new tools for monitoring the impacts of markets and trade on food security.
Liangzhi You, International Food Policy Institute

Liangzhi You, a senior scientist, joined IFPRI in 2000 to conduct research on agricultural science and technology policy. Liangzhi earned a B.S. in hydraulic engineering from Tsinghua University, Beijing, and an M.S. in environmental economics and Ph.D. in civil and environmental engineering from Johns Hopkins University.

Day 2 - Jan. 7, 2015

State of the Federation

Peter Fox

Around the Federation

EarthCube - Bruce Caron

GEOSS Evaluation - Matt Druckenmiller

RDA-US

NASA

NOAA

USGS

Enhanced Use of Earth Observations for Societal Benefit

Tim Stryker, OSTP

Rick Driggers, National Security Council/ Climate Resilience Toolkit

Fabien Laurier, OSTP
Leveraging Google Earth Engine to Derive High Quality Water Reference Data for Disaster Decision Support

Descriptive Semantic Annotations for Science Media Repositories

Enhancing and Educating with the WxSat Mobile App

Augmenting Basic Web Services with Middleware Services and Interfaces

Going Beyond the Earthdata Website: Connecting with End Users Using Social Media and Webinars

GISCube, an open source web-based GIS application
Enriching Earthdata by Improving Content Curation

NOAA/NCEP Weather Model Output Data for Decision Support Systems, Including Aggregation of Ensemble Model Output

CINERGI: Community Inventory of EarthCube Resources for Geoscience Interoperability

Proto-Examples of Data Access and Visualization Components of a Potential Cloud-Based GEOSS-AI System

Discovering Public Data: an Assessment of Current Metadata Practices Across the U.S. Department of the Interior

Architectures Toward Reusable Science Data Systems

Rule-Based Curation in the DataNet Federation Consortium: Policies to Towards Executable Provenance Graphs for Reported Results in

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<td>Integrating and Visualizing Sea Ice Charts and Cruise Tracks using Linked Open Data and Open Source Tools</td>
<td>The legacy of the Bering Sea Project: archival and preservation of the project data for current and future research</td>
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<td>NASA’s Implementation of the President’s Climate Data Initiative</td>
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<td>What's Up these Days with Persistent Identifiers for Earth Science Data?</td>
<td>An Information Architect's View of Earth Observations for Disaster Risk Management</td>
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<td>Big Data Challenges in a Data Center Workflow</td>
<td>Event-Driven Cyberinfrastructure Technologies Supporting The Disaster Lifecycle</td>
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Big Data Challenges in a Data Center Workflow

Data System for HS3 airborne field campaign
Enabling Ongoing Access to Data Products and Services When Dependencies are No Longer Supported

Cloudbursting - Solving the 3-body problem

Expanding OceanLink using Facebook crowdsourcing

Global Precipitation Measurement (GPM) Mission Applications

ESDIS Standards Office Information

Spatial Analysis Of Sediment Persistence: How Tropical Cyclone Events Affect Sedimentation In The Gulf Of Mexico

A Practical Conceptual Design of Cyberinfrastructure for Earth Sciences

Big Data for a Big Ocean - Preserve, Discover, Access, and Use

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<td>HDFCRAFT: Making Data Fun!</td>
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<td>Globally-Extensive Deep-Time Ocean-Floor Sedimentary Data in Paleocoordinates</td>
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Applying Provenance Extensions to the OPeNDAP Framework

Internet and Mobile GIS Tools for Renewable Energy and Agricultural Application

LaTiS: Enabling Interoperability via a Universal Functional Data Model

Data and Documentation Preservation Systems at the NASA GES-DISC

Linking Us Together: the GeoScience Knowledge Network

A Proposed Study: Information Seeking Behavior of Geologists when Searching for Physical Sample Materials

Science Data on the Web Platform

Enterprise Metadata Management Architecture (EMMA)

Global Hydrology Resource Center

Development of a REST-like service for delivery of high resolution gridded bathymetry data and attribution metadata from the Global Multi-Resolution Topography (GMRT) synthesis

The HICO Online Processing System: A Web-accessible Coastal Hyperspectral Imagery Processing System

Development of cyberinfrastructure to facilitate collaboration and knowledge sharing for marine Integrated Ecosystem Assessments

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Data Albums: A synthesis engine to support case study and climatology analysis

Collaborative Workbench for Cyberinfrastructure to Accelerate Science Algorithm Development

Real Time Data Management Tools for GPM Ground Validation Field Campaigns

Physical Oceanography Distributed Active Archive Center Web Services

CanopyApp

Investigating the potential for archaeological sites on the submerged southern Beringian Archipelago

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Ongoing CEESMO Projects

Lifemapper: Infrastructure and Web Services Enabling Biodiversity Research

DataNet Federation Consortium - Policy-based data management

Cloud for Climate: Data & Resource Management on Cloud

The OpenPub Project: New Approaches and Platforms for Scientific Publishing

Coastal Hazard Events Driven Automated Data Aggregation, Processing, and Delivery

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Improved Access, Management and Preservation of Traditional Knowledge and Data through Online Tools

Ontology engineering for provenance enablement in the third National Climate Assessment

National Earth Science Teachers Association: Earth Science Education Leadership and the Next Generation Science Standards

CPPCC National Committee, Zhejiang Geely Holding Group Chairman Li Shufu the answer is quite impressive.

Big Spatio-Temporal Data: OGC Web Coverage Services
Agile Analytics with EarthServer

GPM Ground Validation Field Campaigns: Collaboration and Data Management Tools

Data Conservancy Provenance, Context and Lineage Services: Key Components for Data Preservation and Curation

Toward NASA Best Practices for ISO 19115

Nagg - a Tool to Aggregate and Package JPSS Products

NASA Worldview & Global Imagery Browse Services (GIBS) - Demonstrating NASA’s Changing Paradigms for Using Satellite Imagery
ECHO OpenSearch

The SEAD Prototype: Data Curation and Preservation for Sustainability Science

NASA Science on Drupal Central: Science is better on Drupal

Data Management Training for Earth Scientists -- What's Next?

Measuring the Multidisciplinary Impact of Scientific Data Disseminated by the NASA SEDAC

MODIS Web Services: Enabling Automated Access and Post-Processing of MODIS Science Data
Conversion of Archived HDF Satellite Level 2 Swath Data Products to NetCDF

Advanced Subsetter Capabilities for Atmospheric Science Datasets

Funding Friday Project Update: ESIP Federation Network Analysis Project

Overview of Data Discovery and Access at the ASDC

Cloud Computing for the NASA Atmospheric Sciences Data Center with Amazon Web Services

Eye on Earth Global Network of Networks Special Initiative Activities for 2013

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Climate Literacy and Energy Awareness Network (CLEAN) – Providing Reviewed Educational Resources to Enhance the Effective Use of Earth Science Data and Knowledge

ENVI & IDL Services Engine for Web Accessible Multi- & Hyperspectral Applications

Data for Disaster Planning, Response, Management and Awareness

Ontology-supported Data Discovery and Access

Implementing GIS for Expanded Data Accessibility and Discoverability

Implementing iRODS for Data Federation

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<p>| Making the Old New Again: New Seasat Satellite Images from 35-Year-Old Raw Data |
| Discovery of atmosphere composition data through federated catalog |
| Global Agricultural Drought Monitoring and Forecasting System: a tool to map and analyze agricultural drought |
| VegScape: a national crop condition monitoring system |
| Digital Earth Watch and Picture Post Network–What’s in a Digital Picture? |
| Geospatial Information Management - a Model for Embrapa |</p>
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Assessing opinions on Skills, Access, and Trust relating to Data Re-use within the ESIP member community

The Use of Near Real-Time Oceanographic Data in Undergraduate Learning Environments

A cloud platform adoption advisory tool for cloud computing adopters

Addressing Science and Policy Needs with Community Emissions Efforts

Data Identifiers, Versioning, and Micro-citation

Bridging the Big Data Digital divide with Data Prospecting
Automated Data Delivery and Processing for Disaster Events

Lessons learned in deploying a cloud-based knowledge platform for the ESIP Federation

ISO Lineage Metadata at the AMSR-E SIPS

Navigating ESIP on the Web: A unifying online presence for the multifaceted services of the ESIP community.

Climate Change Challenge Championship: A gamified, interactive, educational web tool

HTTP-based Search and Ordering Using ECHO’s REST and OpenSearch APIs

From interoperability to interactivity: a test of exploratory visualization with semantic web technologies

CWIC Start a proof-of-concept client for the CEOS WGISS Integrated Catalog (CWIC)
A Case Study of Data Management With New Mexico EPSCoR

Cf/Radial - A Radar and Lidar Data Format for data providers, end users, and tool providers

Revitalizing Forgotten Data: Bringing 50 years of Glacial Photography into the Digital Age

The ASF Wetlands data portal: Enabling visualization, analysis, and distribution of NASA MEaSUREs Wetlands data

Climate services partnership

NASA Science on Drupal Central ACCESS Project

Collaboration Environments

Rapid prototyping of Linked Data visualizations using LODSPeaKr

Information Modeling and Semantic Web Application For National Climate Assessment

Arctic Collaborative Environment (ACE) Interpretation of Real-time Weather and Climate for Spherical Displays

McIDAS-V: Visualization and Analysis Capabilities for JPSS

Brokering as a Core Element of EarthCube’s Cyberinfrastructure

Computer-based Games, Interactive Simulations and Virtual Labs for STEM Teaching and Learning

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Scalable Job Management for Data Ingestion

MODIS Web Services

The USGS Derived Downscaled Climate Projection Portal: A data rich web application for visualization of climate change indices.

STOQS: The Spatial Temporal Oceanographic Query System

ESSI-LOD: A Crystallization Point for Linked Data in the Geosciences

ESIP’s Data Management Training Efforts

Artic Collaborative Environment (ACE)

GCMD/IDN: Advances in Keyword and Metadata Interoperability
What's New at the HDF-EOS Tools and Information Center Website


AeroStat: Online Platform for the Statistical Intercomparison of Aerosols

Curated Data Albums for Earth Science Case Studies

A Probabilistic Approach to Understanding the Rain-Snow Transition in Future Climates

Detecting Suspended Sediments from Remote Sensed Data in the Northern Gulf of Mexico

NASA Reverb: Metadata-Driven Earth Science Data Discovery
Beyond an image: using ontology and visualization to enrich Web Map Service for geosciences

Underwater Predictive Modeling for submerged archeological sites off Prince of Wales Island, SE AK

Development and Implementation of NASA ISO Geographic Metadata

MODIS Web Services: Enabling Automated Standard Access to MODIS Science Data

Skolr Digital Poster Service: from concept to service

How to Cite an Earth Science Data Set

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication

Updated: Mon, 11 Nov 2019 06:15:56 GMT

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<td>Learning about Climate Change and Human-Health Impacts with the CHANGE Viewer</td>
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https://semanticonmunity.info/Data_Science/Data_Science_ESIP_Publication

Updated: Mon, 11 Nov 2019 06:15:56 GMT

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CEOS Atmospheric Composition Portal

inSitu Experience

Real-time Automated Cloud Classification from Live Webcams

Picture Post Newsletter: An Opportunity for Outreach

Climate Literacy and Energy Awareness Network (CLEAN)

Retrospective analog year analyses using NASA satellite data, a metric of improvements to USDA world agricultural estimates

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication
Updated: Mon, 11 Nov 2019 06:15:56 GMT
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Geoportal Server & Portal for ArcGIS: Disambiguation

Towards Natural Language Programming for Geospatial Analysis

Reference Model for Disaster Management

ECHO and ISO

NEON: Transforming Environmental Data into Information for Societal Benefit

NASA's Global Change Master Directory's Discover and Access Earth Science Data Sets, Related Services, and Climate Diagnostics
Human Sensor Networks: Use of Social Media and Self Organizing Maps for Automated Detection of Oil Spill Plumes in Satellite Observations

Towards a Domain Specific Software Architecture for Scientific Data Distribution

Provenance Collection and Display for the AMSR-E SIPS

Create Collaboratories for Earth Science using Talkoot

Building a Climatology for Coastal Gap Winds and Resulting Ocean Upwelling Events

Mine Your Data: GLIDER brings data mining to the masses
Can you build an iPhone app without writing a single line of code?

The GEOSS User Requirements Registry

The Picture Post Newsletter: An Opportunity for Outreach

An Elemental OPeNDAP Use Case

Winter Meeting 2015 Schedule

http://commons.esipfed.org/schedule/...Meeting%202015

My Note: Finish adding Source: URLs and Individual content with structure

Room Location
Expertise Level
Collaboration Area
Apply
Tue, 01/06/2015 - 08:15 to 08:45
Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin

Source: http://commons.esipfed.org/node/7851

Room: New Hampshire
Expertise Level: Beginner
Collaboration Area: Not specified
Teaser: Not specified
Tue, 01/06/2015 - 08:45 to 09:15

My Note: Edited spelling

Notes

- for 150 yr had a strategy in food system focused on yield - maximize short term yield
- currently have enough productively to produce enough food for all people and even for 9 billion by 2050.
- if drive harder, need to address waste and depletion. Agriculture production is only 1 part of the system

recommendation 7: Create comprehensive, shared, integrated information system that encompass human and ecological dimensions

Note: expect major spikes in demand - examples to show new demand

Nimble systems to scan integrated information patterns for detection and intervention - need to get to pre-bang. need for safer space or resilliance

Q - food security and animals - require key definitions - the relationship of food security to health is important

Citation

Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin; Winter Meeting 2015. ESIP Commons, December 2014
Submitted by Annie Keyes on 12/30/2014 - 12:18

A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University

Source: http://commons.esipfed.org/node/7710
Abstract/Agenda

Pursuing sustainability, whether at the national or local level, requires systems thinking to understand the complex linkages among food, energy, water, materials, waste management, ecosystem services, economic development, and social issues such as environmental justice. The speaker will describe a systems approach based on the Triple Value (3V) framework, which captures the dynamic interactions between human society and natural ecosystems. This approach is being implemented through a number of ongoing efforts being led by the EPA Office of Research and Development (ORD). For example, ORD has launched collaborative projects in New England and several other U.S. regions to improve coastal resilience and sustainability. These regions are experiencing water quality problems due to excess nutrients released from agriculture, organic wastes, and other sources, and these problems are compounding by increasing storm intensity due to climate change. To help policy-makers develop sustainable solutions, ORD has developed a dynamic, interactive modeling tool that is capable of analyzing the costs and benefits of alternative policy interventions on a watershed scale.

About the Speaker

Dr. Joseph Fiksel is a faculty member in the Department of Integrated Systems Engineering at The Ohio State University, where he co-founded the Center for Resilience. From 2010 to 2014 he served as Special Assistant for Sustainability at ORD, working closely with the leadership to establish collaborative initiatives with EPA program and regional offices. He is an internationally recognized authority on sustainability and resilience, with over 25 years of research and consulting experience for government agencies, multi-national companies, and industry consortia. Dr. Fiksel received a B.Sc. from M.I.T. and a Ph.D. from Stanford University in Operations Research. He has held a number of positions in the private sector, and prior to joining Ohio State he was Vice President for Life Cycle Management at Battelle.

Notes

Risk - new risks emerging including stress on planet (catastrophic events)
currently live in a global village - learn live in a new era
Plan - take a systems approach
resilience - capacity of a system to survive, adapt, and flourish in the face of turbulent change and uncertainty.
Q - 3V framework - human and social capital - may not have the capital that we need - this is often overlooked

Citation

Fiksel, J.; A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University ; Winter Meeting 2015. ESIP Commons , December 2014

The Long-Term Agro-ecosystem Research (LTAR) Network: Current Status & Future Trends - Mark Walbridge, USDA LTAR

Source: http://commons.esipfed.org/node/7852
Overview of the NASA Soil Moisture Active/Passive (SMAP) Mission - Wade Crow, USDA ARS

Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA

ESIP 101
Not specified

Teaser

Bring your lunch & come learn about #ESIPFed and how to get more involved.

Tue, 01/06/2015 - 13:30 to 15:00

Improving Performance for Data Access Web Services

Room
Foggy Bottom
Expertise Level
Intermediate
Collaboration Area
Information Technology and Interoperability

Teaser
Improving Performance for Data Access Web Services

Metadata for Discoverability, Accessibility, Useability, and Understanding

Room
New Hampshire
Expertise Level
Intermediate
Collaboration Area
Documentation

Teaser
How can we improve accessibility, Usability, and understanding of environmental data

Docker: open container system for developers and sys admins

Room
Potomac
Expertise Level
Beginner
Collaboration Area
Not specified

Teaser
Docker: lightweight containers for developers and sysadmins

Progress in Data Management Planning

Room
Dupont
Expertise Level
Sharing leading practices, approaches and tools that will further improve Data Management Planning across the Earth Science Data Partners

EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure

Bridging the resolution gap between satellite data and agricultural applications

Tue, 01/06/2015 - 15:30 to 17:00
Schema.org for Earth Science

Room
Potomac
Expertise Level
Beginner
Collaboration Area
Semantic Web
Teaser
This session will focus on schema.org and its applicability to Earth Science data management.

What does it mean to Publish Data?

Room
Dupont
Expertise Level
Beginner
Collaboration Area
Preservation and Stewardship
Teaser
Bring together data repositories and publishers to understand their perspectives and to begin the discussion needed to answer this question

GEOSS Architecture Implementation Pilot Phase 7: Earth Observation Apps for end-users

Room
Foggy Bottom
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
The GEOSS Architecture Implementation Pilot (AIP) is agile development process for the GEOSS Information System.

Birds of a Feather - Free space

Room
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Need space during the #ESIPFed meeting to meet? This is your room.

**Metadata evaluation, consistency, compliance and improvement**

Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Documentation, Information Quality, Preservation and Stewardship, Products and Services
Teaser
Focus on tools and approaches for the evaluation and improvement of metadata from the perspective of error, consistency and quality.
Wed, 01/07/2015 - 08:00 to 09:00

**ESIP Federation Annual Business Meeting (Open to any interested)**

Room
City Center
Expertise Level
Beginner
Collaboration Area
Executive Committee
Teaser
Not specified
Wed, 01/07/2015 - 09:00 to 10:15

**State of the Federation**

Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Executive Committee
Teaser
The State of the Federation will have two parts - the first inward looking at #ESIPFed and the second part will feature community updates
Wed, 01/07/2015 - 10:30 to 12:00
Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA

Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
White House staff will provide an overview of the 2014 National Plan for Civil Earth Observations, USGEO, BEDI, and CDAT
Wed, 01/07/2015 - 12:30 to 13:30

2014 Peer Recognition - Awards & Thanks

Room
City Center
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
During lunch on Wednesday, Jan. 7, we acknowledge our peers contributions to #ESIPFed.
Wed, 01/07/2015 - 13:30 to 15:00

Science Software Cluster

Room
Dupont
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Meeting / Breakout Session for Science Software cluster.

Earth Science Data Analytics 101

Room
Potomac
Expertise Level
Beginner
Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests

Room
Mt. Vernon
Expertise Level
Beginner
Collaboration Area
Data Preservation, Discovery, Documentation, Earth Science Collaboratory, Information Technology and Interoperability, Partnership, Preservation and Stewardship, Semantic Web
Teaser
The Office of Science and Technology Policy (OSTP) has taken initiatives to promote Open Data, Open Science and Open Government

HDF Product Designer

Room
Foggy Bottom
Expertise Level
Beginner
Collaboration Area
Products and Services
Teaser
Design interoperable data with a few mouse clicks.

Resilience, Sustainability and Data --driven Adaptation

Room
Private Dining Room
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Resilience and sustainability are closely linked.
Cloud Technologies and Architectures Seminars

Room
Foggy Bottom
Expertise Level
Beginner
Collaboration Area
Cloud Computing
Teaser
This session invites speakers to present studies, technologies and architectures that fully leverage the elastic Cloud.

Global Change Information System (GCIS)

Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Data Preservation, Documentation, Semantic Web
Teaser
Present an overview of the system, status and progress with some initial information modeling and web site concepts.
Wed, 01/07/2015 - 15:30 to 17:00

Climate Informatics: Some use cases and future directions for an emerging domain

Room
Dupont
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Climate Informatics: Some use cases and future directions for an emerging domain

Earth Science Data Analytics 201

Room
Potomac
Expertise Level
Intermediate
Collaboration Area
Education, Information Technology and Interoperability
Teaser
Are you interested in helping to guide the future of information analysis?

**Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel**

Room
Mt. Vernon
Expertise Level
Beginner
Collaboration Area
Data Preservation, Discovery, Documentation, Earth Science Collaboratory, Finance, Information Technology and Interoperability, Preservation and Stewardship, Semantic Web
Teaser
The Office of Science and Technology Policy (OSTP) has taken initiatives to promote Open Data, Open Science and Open Government

**Data Needs for Energy Applications: Gaps, Traceability, Requirements**

Room
Private Dining Room
Expertise Level
Beginner
Collaboration Area
Energy and Climate
Teaser
Energy applications from Earth Observations: Data Needs, Requirements, Management Practices

**EarthCube Architecture**

Room
Foggy Bottom
Expertise Level
Beginner
Collaboration Area
Teaser
Not specified
Thu, 01/08/2015 - 08:30 to 10:00
Semantic Tech Expo
Room
Dupont
Expertise Level
Beginner
Collaboration Area
Semantic Web
Teaser
For individuals and organizations to present their semantic technology projects and showcase capabilities through hands-on demonstrations.

NASA EOSDIS Evolving Technologies Discussion
Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Discovery, Information Quality, Information Technology and Interoperability, Products and Services
Teaser
Earth Observing System Data and Information System (EOSDIS) continues its work on a number of different projects, systems, and initiatives.

Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions
Room
Potomac
Expertise Level
Beginner
Collaboration Area
Earth Science Collaboratory, Education, Geospatial, Partnership
Teaser
Addressing issues of data access and management for users who may have unique data applications with abbreviated project timelines

Preservation and Stewardship Committee reporting session
Room
Private Dining Room
Expertise Level
Beginner
Collaboration Area
Data Preservation, Preservation and Stewardship
Teaser
Reporting session for the Data Preservation Committee - to update everyone on our activities for the past 6 months.

Disaster Lifecycle I

Room
Mt. Vernon
Expertise Level
Beginner
Collaboration Area
Cloud Computing, Decisions, Discovery, Earth Science Collaboratory, Energy and Climate, Products and Services, Semantic Web, Visualization
Teaser
Working toward a common information architecture/model to facilitate consistent management of data products useful for disaster life cycle

ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities

Room
Foggy Bottom
Expertise Level
Beginner
Collaboration Area
Data Management Training, Decisions, Discovery, Education, Information Technology and Interoperability, Preservation and Stewardship
Teaser
Community-developed global e-infrastructure and data management funding recommendations to support global change research
Thu, 01/08/2015 - 10:30 to 12:00

Drupal Working Group: Open House

Room
Dupont
Expertise Level
Beginner
Collaboration Area
Drupal Working Group
Teaser
Drupal stands apart from other content management solutions because of its success as an open source technology
platform AND a community.

**Discovery Best Practices discussion session**

Room
Potomac
Expertise Level
Beginner
Collaboration Area
Discovery
Teaser
OpenSearch: the data search API for everyone

**Birds of a Feather - Free space**

Room
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Need space during the #ESIPFed meeting to meet? This is your room.

**New ISO 19115-1 Capabilities**

Room
New Hampshire
Expertise Level
Intermediate
Collaboration Area
Documentation
Teaser
There are new ISO capabilities that can help you and your users.

**Data Stewardship Planning**

Room
Private Dining Room
Expertise Level
Beginner
Collaboration Area
Data Preservation, Preservation and Stewardship
Teaser
Data stewardship planning session at the winter meeting.

10 Reasons Why Drupal & Automated FISMA IT Compliance is Becoming a Reality by Greg Elin

Room
Dupont
Expertise Level
Beginner
Collaboration Area
Drupal Working Group, Information Technology and Interoperability
Teaser
10 Reasons Why Drupal & Automated FISMA IT Compliance is Becoming a Reality

Disaster Lifecycle II

Room
Mt. Vernon
Expertise Level
Beginner
Collaboration Area
Cloud Computing, Decisions, Discovery, Earth Science Collaboratory, Products and Services, Semantic Web
Teaser
We are establishing a testbed called Collaborative Common Operation Picture (C-COP)
Thu, 01/08/2015 - 13:30 to 15:00

(re)Vision 2020 for Earth Science Data Systems

Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
We're Baaaack! The NASA Vision 2020 Working Group has a candidate vision. We want to hear from you, the community (again).

Drupal Working Group: Code Sprint

Room
Dupont
Expertise Level
We are seeking to establish the ESIP Winter Meeting as the official Science on Drupal Code Sprint.

**Digital maturity of federal and federally funded earth sciences – status and next steps**

Room  
Mt. Vernon  
Expertise Level  
Intermediate  
Collaboration Area  
Not specified  
Teaser  
Earth sciences organizations from around the world have achieved various levels of maturity in taking advantage of our digital age.

**Attribute Convention for Data Discovery: Present and Future**

Room  
Potomac  
Expertise Level  
Intermediate  
Collaboration Area  
Documentation  
Teaser  
Latest updates and approaches for the ACDD discovery convention

**Birds of a Feather - Free space**

Room  
Expertise Level  
Beginner  
Collaboration Area  
Not specified  
Teaser  
Need space during the #ESIPFed meeting to meet? This is your room.

**Dynamic Data Citation**

Room
Private Dining Room
Expertise Level
Beginner
Collaboration Area
Data Preservation, Preservation and Stewardship
Teaser
This workshop will explore the feasibility of implementing a data citation model developed by the Research Data Alliance for dynamic data.
Thu, 01/08/2015 - 15:30 to 17:00

Earth Science Collaboratory Showcase
Room
New Hampshire
Expertise Level
Beginner
Collaboration Area
Earth Science Collaboratory
Teaser
Showcase of Earth Science Collaboratory technologies

Digital maturity of federal and federally funded earth sciences – status and next steps

Source: http://commons.esipfed.org/node/7705

Session Leads:
Rick Ziegler
Gary Foley
Lindsay Powers

Room: Mt. Vernon
Expertise Level: Intermediate
Collaboration Area: Not specified
Teaser: Earth sciences organizations from around the world have achieved various levels of maturity in taking advantage of our digital age

Abstract/Agenda

Please note: This session will be a continuation of sessions 299 and 300 (Jan 7) and will be a working session that broadens the scope of subject matter, and explores publication opportunities – journal articles, white papers, etc. – on matters specific to all 3 sessions.

Earth sciences organizations from around the world – including US government agencies, federally funded efforts and
academic institutions – have achieved various levels of maturity in taking advantage of our digital age. Concepts of participatory web, software interoperability, technology transfer, scaling/re-use, big data and open science are no longer “new and emerging.” They have emerged and – in some cases – are tied to government directives, including, for example:

- Office of Science and Technology Policy (OSTP) 2013 memo: Increasing access to the results of Federally funded research; [http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf)

An organization’s efficiency, transparency and/or ability to innovate -- in the context of Earth sciences -- are directly tied with that organization’s:

- Maturity in embracing data and software interoperability, scaling and-re-use;
- Scientific data infrastructure (discoverability, open data, curation, etc.);
- Ability to practice external technology transfer (e.g., code sharing, partnership building, decentralized research and development);
- Use of participatory web (crowdsourcing, dynamic multilateral communication with society, etc.), particularly in the context of secondary or applied science (e.g., decision support, environmental assessment, meta analyses, syntheses, reviews);
- Horizon scanning and futures analysis (e.g. getting ahead of the curve by exploring and leveraging emerging digital technologies and new business models, as opposed to retroactively).

Once considered a tool for getting Earth sciences work done, cyber technology (computers, internet, etc.) has become essential, prompting some Earth sciences organizations to question their institutional and organizational structures. Over the past thirty years, Earth and information science disciplines have merged across a multi-dimensional spectrum. Pre-digital organizational charts or agency structures often maintain unhelpful, dichotomous perceptions between IT and Earth science disciplines and activities. This has led to inefficiencies and communication problems, reliance on external contractors to connect IT and Earth sciences (e.g., developing decision support applications), and an emergence of ad-hoc cyber-related working groups (e.g., GIS workgroups, R-user groups) within, and on top of, existing organization structures. In response to changing times, some organizations have created new offices and laboratories dedicated to topics associated with cyber innovation (e.g., USAID Global Development Lab and United Nations Global Pulse). The US National Science Foundation identified new Cyber Infrastructure challenges and opportunities almost a decade ago and are now funding many large-scale data, infrastructure and informatics activities (e.g., NEON Inc., EarthCube). Research Infrastructures globally can benefit greatly by sharing lessons learned and experiences to better guide progress toward interoperability.
Objectives

- Continue working on objectives of ESIP sessions 299 and 300, with broader focus – that is, this session will expand on the topics of OSTP and open government directives (see above description), not limited to the topic of open geodata (http://commons.esipfed.org/node/7300 and http://commons.esipfed.org/node/7299);
- Explore publication opportunities on the status and progress of the above topics; explore various journal article and publication approaches for disseminating information from this session and proceeding sessions 299 and 300; build authorship teams around several manuscripts and begin outlining and writing those manuscripts; topics may include, for example:
  - Socio-technical system of open science,
  - Altmetrics in open science,
  - Mechanisms of data and software publication,
  - Case studies of federal efforts and agencies, and their digital maturity,
  - Other topics identified in sessions 299 and 300;
- Build an informal community of practice at the ESIP Meeting and identify the driving passions that will be the glue to keep the community active and involved;
- Set a schedule for knowledge sharing events;
- Identify the best examples of Tiger Teams, communities of practice, public-private partnerships, changes to organizational charts, additions to existing organizational structures, etc., that have been successful on complex issues such as these;
- Move towards an agreement among organizations to work more closely together on priority issues;
- Develop a “landscape” of the major informatics players (e.g., ESIP, COOPEUS, RDA, ICSU-WDS, GEOSS, EarthCube, Eye on Earth Alliance, etc.), globally.

Approach

Please note that much of the following may be addressed in sessions 299 and 300, and continued in this session.

- Assess where organizations stand in their evolution (maturity) to embrace modern digital technology, from an organizational and institutional perspective (including goals and timetables);
- Learn and share what other agencies have tried in their efforts to meet: 1) the above cyber-related government directives in the Earth science context – What would they have done differently? What strategies worked really well? What to avoid? – and 2) develop and apply innovative alternatives to business as usual;
- Determine future steps in how organizations might help each other move forward efficiently and in cooperation (to better address internal issues and to collaborate externally on game-changing approaches);
- Explore, vet and overcome existing and future challenges (rank the challenges and the probability of success that they will be overcome);
- Develop horizon issues on the cyber landscape (How can US government agencies get ahead of the game over the next 10 years of digital evolutions?).

Topical Focus

When possible, session presenters and participants will be encouraged to use examples and case studies in the thematic area for ESIP’s Winter meeting: “Earth Science and Data in Support of Food Resilience: Climate, Energy,
Anticipated attendees

Approximately 30 to 50 Earth and information science practitioners and managers, from across academia, US government agencies and US government-funded efforts.

Session format

This half-day session will be geared toward writing, documenting and following up on sessions 299 and 300, with broader focus – that is, this session will expand on the topics of OSTP and open government directives (see above description), including, but going beyond the topic of open geodata. We will begin to draft several manuscripts, white papers, and/or journal articles. This session will begin with a plenary review of sessions 299 and 300; next, we will review the agenda and potential writing topics for this session. Depending on number of participants, we will split into small writing break-out groups for between 0.5 and 1.5 hours, followed by report out / facilitated discussions, and discussion of follow up plans for future publication development and submittal.

Organizers' roles

We will work with session organizers from sessions 299 and 300 to ensure continuity among the 3 sessions. We will introduce this session and facilitate break out groups, plenary discussions and writing efforts.

Disclaimer

The views expressed herein are those of the authors and do not necessarily reflect the views or policies of the organizations for which they work and/or represent.

Citation

Ziegler, R.; Foley, G.; Powers, L.; Digital maturity of federal and federally funded earth sciences – status and next steps; Winter Meeting 2015. ESIP Commons, December 2014

Birds of a Feather - Free space

Room
Expertise Level
Beginner
Collaboration Area
Not specified
Teaser
Need space during the #ESIPFed meeting to meet? This is your room.

Dynamic Data Citation

Room
Private Dining Room
Expertise Level
This workshop will explore the feasibility of implementing a data citation model developed by the Research Data Alliance for dynamic data.

### Proceedings

Source: [http://commons.esipfed.org/proceeding and Actual](http://commons.esipfed.org/proceeding and Actual)

### Meeting Sessions

#### Plenary

**Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin**

Leveraging Earth Science Data and Analytics in Food Systems - Molly Jahn, University of Wisconsin; [Winter Meeting 2015. ESIP Commons](http://commons.esipfed.org), December 2014

Notes:
- for 150 yr had a strategy in food system focused on yield - maximize short term yield
- currently have enough productive to produce enough food for all people and even for 9 billion by 2050.
- if drive harder, need to address waste and depition. Agric productive is only 1 part of the system

 recommendation 7: Create comprehensive, shared, integrated information system that encompass human and ecological dimensions

Note: expect major spikes in demand - examples to show new demand

Nimble systems to scan integrated information patterns for detection and intervention - need to get to pre-bang. need for safer space or resilience

Q - food security and animals - require key definitions - the relationship of food security to health is important

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Submitted by Annie Keyes on 12/30/2014 - 12:18.
A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University

Fiksel, J.; A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University; Winter Meeting 2015. ESIP Commons, December 2014

Abstract/Agenda:
Pursuing sustainability, whether at the national or local level, requires systems thinking to understand the complex linkages among food, energy, water, materials, waste management, ecosystem services, economic development, and social issues such as environmental justice. The speaker will describe a systems approach based on the Triple Value (3V) framework, which captures the dynamic interactions between human society and natural ecosystems. This approach is being implemented through a number of ongoing efforts being led by the EPA Office of Research and Development (ORD). For example, ORD has launched collaborative projects in New England and several other U.S. regions to improve coastal resilience and sustainability. These regions are experiencing water quality problems due to excess nutrients released from agriculture, organic wastes, and other sources, and these problems are compounding by increasing storm intensity due to climate change. To help policy-makers develop sustainable solutions, ORD has developed a dynamic, interactive modeling tool that is capable of analyzing the costs and benefits of alternative policy interventions on a watershed scale.

About the Speaker
Dr. Joseph Fiksel is a faculty member in the Department of Integrated Systems Engineering at The Ohio State University, where he co-founded the Center for Resilience. From 2010 to 2014 he served as Special Assistant for Sustainability at ORD, working closely with the leadership to establish collaborative initiatives with EPA program and regional offices. He is an internationally recognized authority on sustainability and resilience, with over 25 years of research and consulting experience for government agencies, multi-national companies, and industry consortia. Dr. Fiksel received a B.Sc. from M.I.T. and a Ph.D. from Stanford University in Operations Research. He has held a number of positions in the private sector, and prior to joining Ohio State he was Vice President for Life Cycle Management at Battelle.

Notes:
Risk - new risks emerging incl. stress on planet (catastrophic events)

- currently live in a global village - learn live in a new era

- Plan - take a systems approach

- resilience - capacity of a system to survive, adapt, and flourish in the face of turbulent change and uncertainty.

Q - 3V framework - human and social capital - may not have the capital that we need - this is often overlooked

Citation:
Fiksel, J.; A Systems Approach to Food Resilience - Joseph Fiksel, Ohio State University; Winter Meeting 2015. ESIP Commons, December 2014

The Long-Term Agro-ecosystem Research (LTAR) Network: Current Status & Future Trends - Mark Walbridge, USDA LTAR

The Long-Term Agro-ecosystem Research (LTAR) Network: Current Status & Future Trends - Mark Walbridge, USDA
Overview of the NASA Soil Moisture Active/Passive (SMAP) Mission - Wade Crow, USDA ARS

Overview of the NASA Soil Moisture Active/Passive (SMAP) Mission - Wade Crow, USDA ARS; Winter Meeting 2015. ESIP Commons, December 2014

Abstract/Agenda:
Dr. Crow received his Ph.D. in 2001 from Princeton University and is currently a Research Physical Scientist and Project Lead Scientist at the USDA ARS Hydrology and Remote Sensing Laboratory in Beltsville, MD. His research focuses on the development of hydrologic and agricultural applications for remote sensing data and the development of appropriate data assimilation approaches to facilitate this goal - with a special emphasis on techniques that fuse information acquired from various disparate remote sensing sources. This work has lead to extensive collaboration with operational USDA agencies involved in drought monitoring missions. He has also served on the science teams for the NASA GPM, Hydros, SMAP and AirMOSS missions.

Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA


Abstract/Agenda:
The Federal Government invests more than $3 billion annually in civil Earth observations to provide decision makers with information vital to improve citizens’ lives, protect life and property, promote national security and economic growth, and advance scientific inquiry. Responding to a request from Congress, the White House Office of Science and Technology Policy (OSTP), through the interagency U.S. Group on Earth Observations (USGEO), has initiated a triennial national assessment and planning process to better inform agencies’ long-term investments in Earth observations and to ensure continuity of information needed for public services and long-term research in the public interest. USGEO also coordinates the Big Earth Data Initiative, a long-term multiagency effort to improve the overall discoverability, accessibility, and usability of Earth observation data.

Two closely-related near-term Executive branch initiatives, the Climate Data Initiative (CDI) and Climate Resilience Toolkit (CRT), collectively known as Climate Data and Tools (CDAT), require guidance, oversight, and coordination involving a broad range of Federal organizations and external partners. The CDAT initiative provides a National and Federal operational capability where governmental, non-governmental, private, and public data, services and applications are integrated and made easily accessible to the public. These data, services, and applications are helping to inform and address national and regional climate resilience issues, including those related to food security.

White House staff will provide an overview of the 2014 National Plan for Civil Earth Observations, USGEO, BEDI, and CDAT, and Federal agencies’ work in promoting the use of Earth observations for critical public and private sector...
decision-making. They will also participate in a subsequent panel chaired by NASA to discuss key issues and answer audience questions.

Speakers:

Timothy Stryker
Director, U.S. Group on Earth Observations Program
National Science and Technology Council
White House Office of Science and Technology Policy

Richard Driggers
Director, Data and Systems Integration Policy
National Security Staff
The White House

Fabien Laurier
Director, National Climate Assessment
Lead Climate Data and Tools Initiative
White House Office of Science and Technology Policy

Panel Moderator:

Curt Tilmes
Co-Chair, USGEO Data Management Working Group
NASA Earth Science Data Systems, Earth Science Division
Notes:
Societal Benefit of Earth Observations - Moderated by Curt Tilmes
Speaker: Tim Stryker
talking about Legislative background and timeline - earth Observations policy
Purposes of the USGEO Subcommittee
Earth Observation Assessment (EOA) 13 societal benefit areas
National Plan was released in Jul 2014
Sustained Observations for public services and earth system research
Lists identified priorities of the national plan
efforts in data management
BEDI (Big Earth Data Initiative)

Speaker: Richard Driggers

Presidents Climate Action Plan

Differences between tool kit and the initiative
thematic areas of CDI
toolkit demonstration/overview
Toolkit was launched on Dec 17th 2015
Talking about climate resilience challenges
Federal CLimate Enterprise visual model
shows technical process/architecture conceptualization

Curt follows up after discussion - opening up to questions from the audience

Citation:
Submitted by Annie Keyes on 12/30/2014 - 12:35.

2014 Peer Recognition - Awards & Thanks

2014 Peer Recognition - Awards & Thanks; Winter Meeting 2015. ESIP Commons, December 2014

Abstract/Agenda:
During lunch on Wednesday, Jan. 7, we acknowledge our peers contributions to ESIP. We are grateful for all that have contributed to this meeting and led ESIP this year. We will award the President's award, announce the 2015 Raskin Scholar, celebrate the Falkenberg award (given to Curt Tilmes, NASA at AGU) and award the Martha Maiden Award.

Citation:
2014 Peer Recognition - Awards & Thanks; Winter Meeting 2015. ESIP Commons, December 2014
Submitted by erinmr on 12/31/2014 - 12:05.

Executive Committee

ESIP Federation Annual Business Meeting (Open to any interested)

Fox, P.; ESIP Federation Annual Business Meeting (Open to any interested); Winter Meeting 2015. ESIP Commons, December 2014

Abstract/Agenda:
1. Call to Order - Peter Fox

2. Announcement of December 2014 Assembly Vote - Peter Fox
   1. Partnership - New Members

2. Leadership
   1. Pres -
   2. V Pres -
   3. Chair Constitution & Bylaws -
   4. Chair Finance -
   5. Chair Partnership -
   6. Chair Education -
   7. Chair Data Stewardship -
   8. Chair Information Technology & Interoperability -
   9. Chair Products & Services -

3. Type Caucuses Elections
   1. Type Reps to Exec Committee
   2. Members of Constitution and Bylaws Committee
   3. Members of Finance and Appropriations Committee
   4. Members of Partnership Committee

4. Other Business
   1. Summer Meeting at Asilomar, July 14-17, 2015

5. Adjourn - Move directly to New Hampshire for the State of the Federation

Notes:
1. Call to Order - Peter Fox @ 8:05am

2. Announcement of December 2014 Assembly Vote - Peter Fox
1. Partnership - New Members
   1. All new member applications were approved
   2. 9 new ESIP members

2. Leadership Elections
   1. Pres: Peter Fox
   2. V Pres: Emily Law
   3. Chair Constitution & Bylaws: Ken Keiser
   4. Chair Finance: Bill Teng
   5. Chair Partnership: Tyler Stevens
   6. Chair Education: LuAnn Dahlman
   7. Chair Data Stewardship: Justin Goldstein
   8. Chair Information Technology & Interoperability: Ethan Davis
   9. Chair Products & Services: Nancy Hoebelheinrich & Christine White

3. Type Caucuses Elections
   1. Type Reps to Exec Committee
      1. Type 1: Dani Kinkade
      2. Type 2: Steve Richard
      3. Type 3: Ted Haberman
   2. Members of Constitution and Bylaws Committee
      1. Type 1: Denise Hills
      2. Type 2: Mike Daniels
      3. Type 3: Ana Privette
   3. Members of Finance and Appropriations Committee
      1. Type 1: Rebecca Koskela
      2. Type 2: Helen Conover
      3. Type 3: Reagan Moore
   4. Members of Partnership Committee
      1. Type 1: Steve Kempler
      2. Type 2: Tom Naroch
      3. Type 3: Thomas Huang?

4. Other Business
   1. Summer Meeting at Asilomar, July 14-17, 2015 - Erin Robinson
      1. All-inclusive "campy" experience
      2. ESIP will begin meeting in January to discuss theme
      3. Looking for Plenary speakers and Session chairs
      4. ESIP Visioneers spearheads the meeting planning - Feel free to join the discussion to shape the ESIP Summer 2015 meeting. An ESIP-All notice will be sent out.

5. Adjourn - Move directly to New Hampshire for the State of the Federation
1. Motion to adjourn: 8:48am

Citation: 
Fox, P.; ESIP Federation Annual Business Meeting (Open to any interested); Winter Meeting 2015. ESIP Commons, December 2014
Submitted by Annie Keyes on 12/30/2014 - 12:30.

State of the Federation

Fox, P.; State of the Federation; Winter Meeting 2015. ESIP Commons, December 2014
Abstract/Agenda:

The State of the Federation will have two parts - the first inward looking at ESIP and the second part will feature updates from sponsors and partners. This is a way for the community-at-large to very quickly understand what is going on. The ESIP section will be presented by ESIP President, Peter Fox, cover highlights from the last 6 months for collaboration areas including key developments and outputs as well as plans for 2015. The second half of the State of the Federation will include updates from ESIP Sponsors - NASA and NOAA and partners - USGS, RDA-US, EarthCube and GEO.

Notes:

The State of the Federation, presented by ESIP President, Peter Fox

Inward look at ESIP

1. Types and Governance
   1. Type 1: 21/24 members active
   2. Type 2: 46/74 members active
   3. Type 3: 28/62 members active
   4. Type 4: 2/2 members active (NASA and NOAA)

Key developments

1. Two organizations: ESIP Federation & Foundation for Earth Science separated
   1. ESIP as a community remains unchanged. FES provides management operational and logistical services to the ESIP Federation, unchanged.

2. Foundation for Earth Science Executive Director position is filled!
   1. Congratulations to Erin Robinson who began her tenure on November 24, 2014

Plans for 2015

1. Constitution & Bylaws Committee
   1. Work as directed by ExCom

2. Data Stewardship Committee

3. Finance Committee
   1. Finalize FY ’15 budgets
   2. Standardize call for budget proposal
3. Standardize reporting of budgeted work
4. Work w/other groups to improve post-project continuance

4. IT and Interoperability
   1. Focused on collaboration of interesting topics relevant to data interoperability for the Earth Sciences
   2. Check out their Wiki Page on the ESIPFed Wiki

5. Partnership Committee
   1. Review new member applications
   2. Continue drafting 2015 ESIP Strategic Plan

6. Products and Services
   1. RFP for Testbed projects coming out in April, October
   2. Project hosting opportunities
   3. Strengthen connections between completed projects and ESIP member research/work

7. Funded Projects
   1. April and October Testbeds; FUNding Friday

8. Agriculture and Climate Cluster
9. Data Study Working Group
   1. Investigation of two potential opportunities

10. Disaster Life Cycle Cluster
11. Documentation
   1. Encoding metadata groups/attributes in HDF and netCDF

12. Drupal Working Group
   1. Supporting ESIPers to attend DrupalCon and Drupal Camps
   2. More expert webinars and virtual office hours

13. Energy anc Climate WG
14. Science Software Cluster
15. Semantic Web Cluster
16. Visioneers Working Group
   1. Seeking for a new chair
   2. Help ESIP members keep running the best earth science meetings on the planet

17. Summer Meeting:
   1. July 14-17, 2015
   2. Asilomar, CA
   3. RFID Networking Experiment
   4. Theme TBD - Join the Visioneers call at the end of January

Updates from sponsors and partners
NOAA

   1. Datacenter reorganization
2. New/Revised Policy Directives
   1. Data management Planning
   2. Data Access
   3. Data Citation

USGS

1. Community for Datascience Integration (CDI)
2. Working with a modular science framework as a mechanism for integration and synthesis
3. Science Data Lifecycle Model
4. Emerging policies for data management
   1. 4 coming in early 2015
5. Built a data management website w/ best practives, workflows, etc.
6. Science Data catalog
   1. Standardized metadata describing USGS science datasets and data systems

NASA

1. Kevin Murphy joining NASA HQ as head of Earth Science Datasystems
2. Earth Science Datasystems working group has much interaction w/ESIP

EarthCube

1. 2014 ESIP Members are active in EarthCube goverannce and funded work
   1. Council of Data Facilities general assembly meetings will co-locate with ESIP Meetings
2. 2015 new NSF Funding: http://earthcube.org/hello
3. 2015 EC working groups forming with some funding
   1. Opportunity for ESIP members to step up and work with geoscientists to build an optimal cyberinfrastructure

RDA-US

1. 39 interest groups
2. 17 working groups
3. 2 Plenaries per year
4. 4 deliverables being prepped for review

Coalition on Publishing Data in the Earth and Space Sciences (COPDESS)

1. Statement of Commitment coming on January 15 with signatories
2. Reaffirm and ensure adherence to existing journal and publishing policies regarding data sharing and archiving
3. Look to build an online directory of earth and space science data repositories that can be used by journals and authors
4. Promote metadata information and standards
5. Develop workflows with repositories that support the peer review

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication
Updated: Mon, 11 Nov 2019 06:15:56 GMT
Powered by mindtouch™
1. GEO is charged with developing GEOSS: Global Earth Observation System of Systems
2. GEOSS: Intergovernmental effort to inform policymakers, science researchers and resource manager in decisionmaking
3. USAID has interest in GEOSS
4. USAID GeoCenter improves the impact of USAID programs by geographically targeting development resources
5. USAID-NASA SERVIR program helps developing countries address climate change and environmental issues using earth observations and geospatial technologies
6. Discussion of GEO's Evaluation Strategy

Citation:
Fox, P.; State of the Federation; Winter Meeting 2015. ESIP Commons, December 2014
Submitted by erinmr on 12/31/2014 - 12:01.

Other

Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA
Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA; Winter Meeting 2015. ESIP Commons, December 2014

Docker: open container system for developers and sys admins
Filis, D.; Docker: open container system for developers and sys admins; Winter Meeting 2015. ESIP Commons, October 2014

GEOSS Architecture Implementation Pilot Phase 7: Earth Observation Apps for end-users
Percivall, G.; GEOSS Architecture Implementation Pilot Phase 7: Earth Observation Apps for end-users; Winter Meeting 2015. ESIP Commons, December 2014

Resilience, Sustainability and Data --driven Adaptation
Foley, G.; Resilience, Sustainability and Data --driven Adaptation; Winter Meeting 2015. ESIP Commons, December 2014

Science Software Cluster
Weber, N.; Science Software Cluster; Winter Meeting 2015. ESIP Commons, October 2014

Climate Informatics: Some use cases and future directions for an emerging domain
Weber, N.; Climate Informatics: Some use cases and future directions for an emerging domain; Winter Meeting 2015. ESIP Commons, October 2014

(re)Vision 2020 for Earth Science Data Systems
Lynnes, C.; (re)Vision 2020 for Earth Science Data Systems; Winter Meeting 2015. ESIP Commons, October 2014
Digital maturity of federal and federally funded earth sciences – status and next steps
Ziegler, R.; Foley, G.; Powers, L.; Digital maturity of federal and federally funded earth sciences – status and next steps; Winter Meeting 2015, ESIP Commons, December 2014

Data Management Training

Progress in Data Management Planning
Ritchey, N.; Progress in Data Management Planning; Winter Meeting 2015, ESIP Commons, October 2014

EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure
Katz, A.; EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure; Winter Meeting 2015, ESIP Commons, October 2014

Documentation

Metadata for Discoverability, Accessibility, Useability, and Understanding
Habermann, T.; Metadata for Discoverability, Accessibility, Useability, and Understanding; Winter Meeting 2015, ESIP Commons, October 2014

Metadata evaluation, consistency, compliance and improvement
Armstrong, E.; Metadata evaluation, consistency, compliance and improvement; Winter Meeting 2015, ESIP Commons, September 2014

New ISO 19115-1 Capabilities
Habermann, T.; New ISO 19115-1 Capabilities; Winter Meeting 2015, ESIP Commons, December 2014

Attribute Convention for Data Discovery: Present and Future
Monteleone, K.; Attribute Convention for Data Discovery: Present and Future; Winter Meeting 2015, ESIP Commons, December 2014

Climate Education Working Group

Bridging the resolution gap between satellite data and agricultural applications
Teng, B.; Bridging the resolution gap between satellite data and agricultural applications; Winter Meeting 2015, ESIP Commons, October 2014

Bridging the resolution gap between satellite data and agricultural applications
Teng, B.; Bridging the resolution gap between satellite data and agricultural applications; Winter Meeting 2015, ESIP
Commons, October 2014

Semantic Web

Schema.org for Earth Science
Fils, D.; Schema.org for Earth Science; Winter Meeting 2015. ESIP Commons, October 2014

Preservation and Stewardship

What does it mean to Publish Data?
Ritchey, N.; Duerr, R.; What does it mean to Publish Data?; Winter Meeting 2015. ESIP Commons, October 2014

Data Preservation

Global Change Information System (GCIS)
Wolfe, R.; Global Change Information System (GCIS); Winter Meeting 2015. ESIP Commons, September 2014

Preservation and Stewardship Committee reporting session
J., D.; Preservation and Stewardship Committee reporting session; Winter Meeting 2015. ESIP Commons, September 2014

Data Stewardship Planning
Duerr, R.; Goldstein, J.; Data Stewardship Planning; Winter Meeting 2015. ESIP Commons, September 2014

Dynamic Data Citation
Duerr, R.; Ramdeen, S.; Rauber, A.; Dynamic Data Citation; Winter Meeting 2015. ESIP Commons, September 2014

Dynamic Data Citation
Duerr, R.; Ramdeen, S.; Rauber, A.; Dynamic Data Citation; Winter Meeting 2015. ESIP Commons, September 2014

Products and Services

HDF Product Designer
Lee, H.; Jelenak, A.; HDF Product Designer; Winter Meeting 2015. ESIP Commons, December 2014

Education

Earth Science Data Analytics 101
Kempler, S.; Mathews, T.; Earth Science Data Analytics 101; Winter Meeting 2015. ESIP Commons, October 2014
Earth Science Data Analytics 201
Kempler, S.; Mathews, T.; Earth Science Data Analytics 201; Winter Meeting 2015. ESIP Commons, October 2014

Cloud Computing

Cloud Technologies and Architectures Seminars
Yang, P.; Huang, T.; Cloud Technologies and Architectures Seminars; Winter Meeting 2015. ESIP Commons, December 2014

EarthCube Architecture
Richard, S.; EarthCube Architecture; Winter Meeting 2015. ESIP Commons, December 2014

Disaster Lifecycle I
Law, E.; Moe, K.; Disaster Lifecycle I; Winter Meeting 2015. ESIP Commons, October 2014

Disaster Lifecycle II
Law, E.; Moe, K.; Disaster Lifecycle II; Winter Meeting 2015. ESIP Commons, October 2014

Energy and Climate

Data Needs for Energy Applications: Gaps, Traceability, Requirements
Eckman, R.; Privette, A.; Data Needs for Energy Applications: Gaps, Traceability, Requirements; Winter Meeting 2015. ESIP Commons, December 2014

Discovery

NASA EOSDIS Evolving Technologies Discussion
Baynes, K.; NASA EOSDIS Evolving Technologies Discussion; Winter Meeting 2015. ESIP Commons, October 2014

Discovery Best Practices discussion session
Newman, D.; Lynnes, C.; Discovery Best Practices discussion session; Winter Meeting 2015. ESIP Commons, October 2014

Earth Science Collaboratory

Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions
Ross, K.; Bender, M.; Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions; Winter Meeting 2015. ESIP Commons, October 2014
Earth Science Collaboratory Showcase

Lynnes, C.; Earth Science Collaboratory Showcase; Winter Meeting 2015. ESIP Commons, October 2014

Drupal Working Group

10 Reasons Why Drupal & Automated FISMA IT Compliance is Becoming a Reality by Greg Elin

Shepherd, A.; Bassendine, D.; 10 Reasons Why Drupal & Automated FISMA IT Compliance is Becoming a Reality by Greg Elin; Winter Meeting 2015. ESIP Commons, January 2015

Drupal Working Group: Open House

Shepherd, A.; Bassendine, D.; Drupal Working Group: Open House; Winter Meeting 2015. ESIP Commons, October 2014

Drupal Working Group: Code Sprint

Bassendine, D.; Shepherd, A.; Drupal Working Group: Code Sprint; Winter Meeting 2015. ESIP Commons, October 2014

Birds of a Feather

ESIP 101

Fox, P.; Robinson, E.; ESIP 101; Winter Meeting 2015. ESIP Commons, August 2014

Birds of a Feather - Free space

Birds of a Feather - Free space; Winter Meeting 2015. ESIP Commons, December 2014

Birds of a Feather - Free space

Birds of a Feather - Free space; Winter Meeting 2015. ESIP Commons, December 2014

Birds of a Feather - Free space

Birds of a Feather - Free space; Winter Meeting 2015. ESIP Commons, December 2014

Birds of a Feather - Free space

Birds of a Feather - Free space; Winter Meeting 2015. ESIP Commons, December 2014

Panel

Information Technology and Interoperability

https://semanticommunity.info/Data_Science/Data_Science_ESIP_Publication
Updated: Mon, 11 Nov 2019 06:15:56 GMT
Powered by mindtouch
Improving Performance for Data Access Web Services
Fulker, D.; Gallagher, J.; Improving Performance for Data Access Web Services; Winter Meeting 2015, ESIP Commons, October 2014

Data Preservation

Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests
Ma, M.; Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests; Winter Meeting 2015, ESIP Commons, October 2014

Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel
Ma, M.; Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel; Winter Meeting 2015, ESIP Commons, October 2014

Data Management Training

ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities
ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities; Winter Meeting 2015, ESIP Commons, October 2014

Workshop

Semantic Web

Semantic Tech Expo
Narock, T.; Huffer, B.; Semantic Tech Expo; Winter Meeting 2015, ESIP Commons, October 2014

Posters
See Posters and Demos

Recordings
Source: https://docs.google.com/document/d/1...RiQ15k30/edit#

Day 1 - Tuesday January 6th
Welcome Remarks & Plenary

Leveraging Earth Science Data and Analytics in Food Systems
Molly Jahn, University of Wisconsin

A Systems Approach to Food Resilience
Joseph Fiksel, Center for Resilience, Ohio State University

Others:
Mark Walbridge, USDA LTAR; Wade Crow, USDA ARS

Panel on User Needs Related to Food Resilience - Moderated by Brad Doorn, NASA

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...492b44985b0be1

Download recording link:
https://esipfed.webex.com/esipfed/ls...fe29fc3d77e82a

Esip 101

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...55e7384fcf8fda

Download recording link:
https://esipfed.webex.com/esipfed/ls...7ee064e35c5e27

Metadata for Discoverability, Accessibility, Useability, and Understanding (BEDI/NASA)

Metadata evaluation, consistency and improvement
New Hampshire Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...50b3d3b3b718bb

Download recording link:
https://esipfed.webex.com/esipfed/ls...30d8f0428bb6eb

Docker: open container system for developers and sys admins

Schema.org for Earth Science
Potomac Afternoon Breakout Sessions...

Part 1:

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...a49e8937658a49
Download recording link: 
https://esipfed.webex.com/esipfed/ls...508f7409f2c12b

Part 2 ...

Streaming recording link:  
https://esipfed.webex.com/esipfed/l...80f6ec2e89652d

Download recording link:  
https://esipfed.webex.com/esipfed/l...758dbbbc2c50b2

Progress in Data Management Planning

What does it mean to Publish Data?  
Dupont Afternoon Breakout Sessions...

Part 1:

Streaming recording link:  
https://esipfed.webex.com/esipfed/l...46c20e86243d73

Download recording link:  
https://esipfed.webex.com/esipfed/l...bc09854c258657

Part 2:

Streaming recording link:  
https://esipfed.webex.com/esipfed/l...37bd1bb8e0dd4c

Download recording link:  
https://esipfed.webex.com/esipfed/l...3f09db8070821b

Bridging the resolution gap between satellite data and agricultural applications

Mt. Vernon Afternoon Breakout Sessions...

Streaming recording link:  
https://esipfed.webex.com/esipfed/l...d3319552fb0b89

Download recording link:  
https://esipfed.webex.com/esipfed/l...4ff6256c4c2359

Improving Performance for Data Access Web Services

GEOSS AIP-7  
Foggy Bottom Afternoon Breakout Sessions...

Part 1:
Streaming recording link:
https://esipfed.webex.com/esipfed/ld...b60cf5b3a1c20e

Download recording link:
https://esipfed.webex.com/esipfed/ls...d680a51a9db48b

Part 2:
Streaming recording link:
https://esipfed.webex.com/esipfed/ld...dc5ff690fbfd7

Download recording link:
https://esipfed.webex.com/esipfed/ls...a342762cc7db59

EarthCube: A Community-Driven Organization for Geoscience Cyberinfrastructure

Dining Room Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...d69f2dc5d35457

Download recording link:
https://esipfed.webex.com/esipfed/ls...41ef246da373ef

Day 2 - Wednesday Jan 7th

Annual Business Meeting

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...0153a6f4d3c9da

Download recording link:
https://esipfed.webex.com/esipfed/ls...c61b02d98a49ad

Morning Plenary

Enhanced Use of Earth Observations for Societal Benefit Panel - Moderated by Curt Tilmes, NASA

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...877d5f2a950d21

Download recording link:
https://esipfed.webex.com/esipfed/ls...883febe5c462c6

Global Change Information System (GCIS)

The HDF Product Designer
New Hampshire Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...19dfd5e73235b9

Download recording link:
https://esipfed.webex.com/esipfed/ls...fa706c80c04303

Earth Science Data Analytics 101

Earth Science Data Analytics 201
Potomac Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...67548f686ae1f1d

Download recording link:
https://esipfed.webex.com/esipfed/ls...38969a36195649

Science Software Cluster

Dupont Afternoon Breakout Sessions...

Part 1:

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...a0e848181f7ea2

Download recording link:
https://esipfed.webex.com/esipfed/ls...3ab8124e5f5b08

Part 2:

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...c454cc9c0129db

Download recording link:
https://esipfed.webex.com/esipfed/ls...b0d4eef278d269

Connecting geodata in and among governmental agencies - Compare plans submitted in response to OSTP requests

Connecting geodata in and among governmental agencies - A discussion among program managers, community and agency personnel
Mt. Vernon Afternoon Breakout Sessions...

Streaming recording link:
Cloud Technologies and Architectures Seminars

EarthCube Architecture
Foggy Bottom Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...d84878c4a08ee

Download recording link:
https://esipfed.webex.com/esipfed/ls...113ade949717ad

Resilience, Sustainability and Data-driven Adaptation

Data Needs for Energy Applications
Dining Room Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...1f42c5e6e77f70

Download recording link:
https://esipfed.webex.com/esipfed/ls...9eac8f356c76bc

Day 3 - Thursday January 8th

NASA EOSDIS Evolving Technologies Discussion

Xxxxxxxxxxx Haberman
New Hampshire Morning Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...c687bfb6349f

Download recording link:
https://esipfed.webex.com/esipfed/ls...74e6954c73fc01

Geoinformatics User Training: Direct Access, Live Access, Subsetting, On-line Analysis, Formats, and Conversions

Discovery Session (Best Practices)
Potomac Morning Breakout Sessions...

Streaming recording link:
Semantic Tech Expo

Drupal Working Group: Open House
Dupont Morning Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...82190157244295

Download recording link:
https://esipfed.webex.com/esipfed/ls...4f373b2d3ebfac

Disaster Life Cycle I

Disaster Life Cycle II
Mt. Vernon Morning Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...8212fe9d90b440

Download recording link:
https://esipfed.webex.com/esipfed/ls...e0b5bd66d3c241

ESIP in the Global Informatics Community: 3 Diverse Perspectives and Opportunities

Foggy Bottom Morning Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...f3ee8df19f113a

Download recording link:
https://esipfed.webex.com/esipfed/ls...a4068eef5289d7

Preservation and Stewardship Committee reporting session

Data Stewardship Planning
Dining Room Morning Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...2aac7041d6ab7a

Download recording link:
https://esipfed.webex.com/esipfed/ls...bb32f948173b92
(re)Vision 2020 for Earth Science Data Systems

Earth Science Collaboratory Showcase
New Hampshire Afternoon Breakout Sessions...

Streaming recording link:
https://esipfed.webex.com/esipfed/ld...1f1310eb52a711

Download recording link:
https://esipfed.webex.com/esipfed/ls...647a99800e0bd1

Attribute Convention for Data Discovery: Present and Future

Potomac Afternoon Breakout Sessions...

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Drupal Working Group: Code Sprint

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Digital maturity of federal and federally funded earth sciences – status and next steps

Mt. Vernon Afternoon Breakout Sessions...

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Dynamic Data Citation

Dining Room Afternoon Breakout Sessions...

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