

ESIP Membership Application

Response ID: 48 Data

1. Contact Information

1. Primary Contact

First Name

Name

Mark Schildhauer

Title

Director of Computing

Organization

National Center for Ecological Analysis and Synthesis

Street Address

735 State St.

Apt/Suite/Office

Suite 300

City

Santa Barbara

State

CA

Postal Code

93101

Country

Email Address

schild@nceas.ucsb.edu

Phone Number

805-892-2509

Fax Number

805-892-2510

Mobile Phone

Website

2. Designated Assembly Representative (if different from primary contact)

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

3. Please add any alternate or proxy assembly representatives, if available.

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

Is the contact the same as above?

First Name

Name

Matthew B. Jones

Title

Director of Informatics Research and Development

Organization

National Center for Ecological Analysis and Synthesis

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735 State St.

Apt/Suite/Office

Suite 300

City

Santa Barbara

State

CA

Postal Code

93101

Country**Email Address**

jones@nceas.ucsb.edu

Phone Number

805-892-2500

Fax Number**Mobile Phone****Website**

2. About Your Organization

4. Please give a main website address for the proposed Partnership:

<http://www.nceas.ucsb.edu>

5. Describe your organization's role in the Earth science community

Since 1995, the National Center for Ecological Analysis and Synthesis, NCEAS, has been supporting synthetic, multidisciplinary studies in the ecological and environmental sciences, primarily through funding of working groups and postdoctoral scientists. NCEAS researchers bring together existing earth systems data to uncover new insights into ecological and ecosystems processes in the terrestrial, ocean, and freshwater realms, with specific attention to issues that can help inform policy and decision-makers.

6. Please describe your organization's Earth science data/technology activities.

NCEAS has long championed preservation of ecological data, by helping define metadata standards for the field (e.g EML), and building frameworks to make the data accessible (e.g. the KNB framework). NCEAS also has an ongoing informatics research program, focusing on developing technical and semantic solutions to make earth science data and analyses more re-usable and useful. Current activities include involvement with DataONE, core participation in the Kepler workflow community, and several investigations into the use of formal semantic approaches for increasing scientific transparency and reproducibility.

7. What are the primary sources of your funding?

Our primary funding has come from the National Science Foundation, with further assistance from the state of California, via the University of California. In addition, we have received generous support from foundations including the Gordon and Betty Moore Foundation, the Packard Foundation, and the Andrew W. Mellon Foundation.

3. How will your organization benefit from or contribute to the Earth Science Information Partners (ESIP) Federation

8. Describe current or anticipated users of your products and services and how you think the Federation can help you better serve this population.

Through NCEAS' participation as a coordinating node of DataONE, we expect to serve thousands of environmental scientists seeking data of interest. Through our work on the Kepler scientific workflow application, we expect a growing number of earth science users, especially as Kepler's utility for managing streams of sensor information improves. Our work on developing semantic web technologies, both in terms of ontologies and tools that support these, will hopefully empower thousands of earth scientists.

ESIP provides us a forum to better communicate and collaborate with colleagues who have similar goals and challenges in dealing with earth systems data.

9. Describe technologies that you have developed and are willing to share with the Federation?

All our efforts are open source. These include a metadata specification, a metadata editor application, a metadata catalog repository framework, a scientific workflow application, and ontology design patterns constructed in RDF/OWL.

10. Describe how you can contribute to the efforts of one or more standing committees, working groups and/or clusters? (200 words or less)

Interests and proficiencies of members of the NCEAS' computing/informatics group span many of the topics of interest in ESIP, including: laboratories, geospatial, semantic web, discovery, open source, and interoperability.

11. Describe your own use of Earth science information and data and how you would see this use enhanced by your partnership in the Federation.

NCEAS' hosts approximately 50 working groups per year, and has a resident population of typically 6-16 postdoctoral associates, all of whom using existing, often diverse, global-scale data to accomplish their synthesis investigations. Membership in ESIP will enable NCEAS' informatics and computing group to both participate in and learn about highly relevant technology efforts in the earth sciences, many of which might have direct relevance to the types of research done at our Center.

12. Select membership type

ESIP-II (primarily a research center)

4. Other comments?

Any other comments about your proposed membership and its relation to the Federation that you wish to provide.

Both proposed ESIP contacts from NCEAS-- Mark Schildhauer and Matt Jones-- have ongoing partnerships on various grants and awards with ESIP affiliates, including Carol Meyer, Bruce Caron, and Peter Fox.

5. Thank You!

Email notification

Mar 26, 2013 17:47:52 Success: Email Sent to: erinrobinson@esipfed.org

Copy of Email notification

Mar 26, 2013 17:47:54 Success: Email Sent to: carolbmeyer@esipfed.org

Copy of Copy of Email notification

Mar 26, 2013 17:47:56 Success: Email Sent to: jscialdo@ciesin.columbia.edu

Email to potential new member

Mar 26, 2013 17:47:58 Success: Email Sent to: schild@nceas.ucsb.edu
