

# ESIP Membership Application

Response ID: Data

## 1. Contact Information

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### 1. Primary Contact

**First Name**

**Name**

Chris A Mattmann

**Title**

Senior Computer Scientist/Adjunct Assistant Professor

**Organization**

Instruments and Science Data Systems, JPL

**Street Address**

4800 Oak Grove Drive

**Apt/Suite/Office**

M/S 171-264

**City**

Pasadena

**State**

CA

**Postal Code**

91109

**Country**

**Email Address**

chris.a.mattmann@nasa.gov

**Phone Number**

8183548810

**Fax Number**

**Mobile Phone**

**Website**

<http://instrumentsystems.jpl.nasa.gov/people/Mattmann/>

### 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

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

## 2. About Your Organization

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

<http://instrumentsystems.jpl.nasa.gov/>

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

I am funded as PI of data system activities (NASA AIST; NASA CMAC) and as Co-I and as Data System Lead on 2 complementary science efforts for the U.S. National Climate Assessment (NCAs), Snow Hydrology in the Western US and Alaska (PI: Tom Painter), and the Regional Climate Model Evaluation System (PI: Duane Waliser). The AIST and CMAC funding support the development of data systems infrastructure for the science use cases for the NCA activities, as well as linkages to the DOE funded Earth System Grid.

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

We are constructing end to end data systems support for acquisition, delivery and end-user support for a snow and ice climatology, as well as support for regional climate modeling and analysis of CORDEX data.

### 7. What are the primary sources of your funding?

U.S. National Climate Assessment - NASA Center Call for Proposals

NASA Advanced Information Systems Technology (AIST) program

NASA Computational Modeling and CyberInfrastructure (CMAC) program.

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

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

The users of our project's data include:

- \* NASA Applications community for the Western Snow Hydrology Project
- \* NASA SERVIR for the Western Snow Hydrology Project
- \* DOE Earth System Grid for the RCMES effort
- \* NSF ExArch network for the RCMES effort
- \* Coordinated Regional Downscaling Experiment (CORDEX) community for RCMES
- \* IPCC community supporting CMIP5 for RCMES
- \* NOAA CBFRC for the Snow Hydrology project
- \* NSIDC for Snow Hydrology Project
- \* academic end users for Snow Hydrology project
- \* University of Cape Town, Swedish Meteorological and Hydrological Institute (SMHI) for RCMES

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

Apache OODT, various plugins, extractors  
RCMES system, soon to be open source at Apache  
Various other Apache plugins and software

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

Being a member will help facilitate my greater participation and involvement in the ESIP Open Source Cluster that I currently chair, and in the ESIP Geospatial Cluster.

### 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.**

My own use of the data is in making it more available and accessible to the broader community, and in making reusable Earth science data systems software that is open source to make this happen.

**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.**

I'm really excited and hope to become an official member of the Foundation here. I also see the opportunity for synergy between the NASA ESDSWGs (I currently chair the Software Reuse WG, and have proposed 2 new groups within the new ESDIS regime, one for Open Source, and one for Geospatial). So there could be great synergy here both at the Foundation level and at the level of individual projects.

<http://snow.jpl.nasa.gov/>

**5. Thank You!**

**Email notification**

Nov 28, 2012 01:22:15 Success: Email Sent to: erinrobinson@esipfed.org

**Copy of Email notification**

Nov 28, 2012 01:22:18 Success: Email Sent to: carolbmeyer@esipfed.org

**Copy of Copy of Email notification**

**Email to potential new member**