

2016 ESGF F2F Conference Agenda

2016 Earth System Grid Federation (ESGF) Face-to-Face Conference (Washington, D.C.)

Registration: <http://www.cvent.com/events/earth-system-grid-federation-esgf-conference-2016/event-summary-8fc3ff0210f645da859a8c9a727c258b.aspx>

Conference venue:

Washington Marriott at Metro Center, 775 12th Street NW, Washington, DC 20005, US

Remote participation:

Indicate on registration form that you wish to participate remotely and an email will be sent with information you need to join Webinar.

Date:

Dec 5, 2016 to Dec 9, 2016—8:00 AM - 6:00 PM EST

Webinar Logistics:

- 2016 ESGF F2F - Marriott Metro Center, Washington, DC
- Every Tuesday, Wednesday, Thursday, Friday
(December 6, 2016 through December 9, 2016)
- 7:30 am | Eastern Standard Time (San Francisco, GMT-08:00) | 11 hours
- US TOLL: +1-415-655-0001
- Global call-in numbers:
<https://llnl.webex.com/llnl/globalcallin.php?serviceType=MC&ED=515492142&tollFree=0>
- Meeting number (access code): 801 978 147
- Meeting password: esgf

Note:

After logging on, please send your full name and affiliation to Angela (jefferson9@llnl.gov) for remote conference registration.

Time	Topic
Monday, December 5, 2016	
14:00 – 16:00	Pre-conference registration: Jr. Ballroom Salons 1 & 2
17:00 – 18:00	Social Activity: Meet and Greet (NO HOST) <i>Cuba Libre – 801 9th St., NW A, Washington, D.C.</i>
Tuesday, December 6, 2016	
07:30 – 08:30	Registration: Jr. Ballroom Salons 1 & 2
08:00 – 08:30	Coffee/tea reception and meeting and greet

Time	Topic								
08:30 – 08:35	Welcome, safety, introduction, conference charge, and agenda overview (Dean N. Williams—DOE/LLNL) <ul style="list-style-type: none"> ● How conference attendees contribute to the conference’s final report ● Framing of the 2016 ESGF F2F 6th Annual Conference 								
08:35 – 08:45	DOE opening comments—(Gary Geernaert—Director of the Climate and Environmental Sciences Division [CESD] within the U.S. Department of Energy’s [DOE’s] Office of Biological and Environmental Research [BER])								
08:45 – 09:00	State of the Earth System Grid Federation (ESGF) (Dean N. Williams—DOE/LLNL)								
ESGF Steering Committee (A note from our sponsors)									
09:00 – 10:45	<p>ESGF Steering Committee Session Discussion Lead (Dean N. Williams)</p> <table border="1" data-bbox="509 699 1503 919"> <tbody> <tr> <td data-bbox="509 699 711 762">09:00 – 09:20</td> <td data-bbox="711 699 1503 762">Justin Hnilo—Department of Energy (DOE) Office of Biological and Environmental Research (BER) Data Management</td> </tr> <tr> <td data-bbox="509 762 711 825">09:25 – 09:45</td> <td data-bbox="711 762 1503 825">Sylvie Joussaume—Infrastructure for the European Network of Earth System Modelling (IS-ENES2) Coordinator</td> </tr> <tr> <td data-bbox="509 825 711 888">09:50 – 10:10</td> <td data-bbox="711 825 1503 888">Tsengdar Lee—National Aeronautics and Space Administration (NASA) Headquarters High-End Computing Program</td> </tr> <tr> <td data-bbox="509 888 711 919">10:15 – 10:35</td> <td data-bbox="711 888 1503 919">Ben Evans—National Computational Infrastructure (NCI)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ● What infrastructure strategies should be established to accelerate progress in Earth system modeling/observation and understanding? ● What are the key things that are difficult to do today and are impeding scientific progress or productivity and the sharing of data? ● What is your timeline for data production and distribution from climate model and observations, high-performance computer, network, and storage facilities needs and investments? ● What is the estimated size of your distributed archive? ● What are your common developments, sharing of expertise, and accelerated developments? ● What are the administrative/sponsor requirements that arise from each project (basically, metrics collection and reporting)? ● What are your expected strategic roadmaps and ESGF funding levels for the short term (1 to 3 years), mid term (3 to 5 years), and long term (5 to 10 years)? ● What is the political landscape to be made aware of? <p>The homework assignment before the conference is to convert all known science drivers to use cases.</p>	09:00 – 09:20	Justin Hnilo—Department of Energy (DOE) Office of Biological and Environmental Research (BER) Data Management	09:25 – 09:45	Sylvie Joussaume—Infrastructure for the European Network of Earth System Modelling (IS-ENES2) Coordinator	09:50 – 10:10	Tsengdar Lee—National Aeronautics and Space Administration (NASA) Headquarters High-End Computing Program	10:15 – 10:35	Ben Evans—National Computational Infrastructure (NCI)
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10:45 – 11:00	Break								
11:00 – 11:30	<p>Steering Committee Town Hall Discussion Session Discussion Lead (Dean N. Williams)</p> <p>Town Hall Panel: (Justin Hnilo, Sylvie Joussaume, Tsengdar Lee, Ben Evans)</p> <ul style="list-style-type: none"> ● What is working, and what is not? ● What are the key challenges to your programs? ● What data services would address the identified challenges? What exists already today? What do we still need? What are the key characteristics that these services need to have to be successful (i.e. integrated, easy to customize, etc.)? ● What are the key impediments (on the data provider/service provider side) in delivering these services? ● Which services should be developed with the highest priority, and what would be their measurable impact on science/programs? 								

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11:30 – 17:30	<p>ESGF Progress and Interoperability Session Discussion Lead (Dean N. Williams)</p> <p>ESGF working teams quickly report out on meeting 2016 projects requirements (work achieved over the past year, prioritized development, collaborations with other agencies, etc.)</p> <table border="1" data-bbox="509 432 1503 1220"> <tr> <td>11:30 – 11:40</td> <td>CoG User Interface Working Team (Luca Cinquini—NASA/JPL)</td> </tr> <tr> <td>11:45 – 11:55</td> <td>Metadata and Search Working Team (Luca Cinquini—NASA/JPL)</td> </tr> <tr> <td>12:00 – 13:30</td> <td>Lunch</td> </tr> <tr> <td>13:30 – 13:40</td> <td>Publication Working Team (Sasha Ames—DOE/LLNL)</td> </tr> <tr> <td>13:45 – 13:55</td> <td>Node Manager and Tracking/Feedback Working Team (Sasha Ames—DOE/LLNL)</td> </tr> <tr> <td>14:00 – 14:10</td> <td>Stats and Dashboard Working Team (Alessandra Nuzzo—ENES/CMCC)</td> </tr> <tr> <td>14:15 – 14:25</td> <td>Identity Entitlement Access Management Working Team (Phil Kershaw—ENES/CEDA)</td> </tr> <tr> <td>14:30 – 14:40</td> <td>Compute Working Team (Charles Doutriaux—DOE/LLNL)</td> </tr> <tr> <td>14:45 – 14:55</td> <td>Errata Service (LEVAVASSEUR Guillaume—ENES/IPSL)</td> </tr> <tr> <td>15:00 – 15:10</td> <td>Quality Control Working Team: Data Citation Service for CMIP6—Status and Timeline (Martina Stockhause—ENES/DKRZ)</td> </tr> <tr> <td>15:15 – 15:25</td> <td>Installation Working Team (Prashanth Dwarakanath—ENES/Liu)</td> </tr> <tr> <td>15:30 – 15:45</td> <td>Break</td> </tr> <tr> <td>15:45 – 15:55</td> <td>Docker for ESGF (Luca Cinquini—NASA/JPL)</td> </tr> <tr> <td>16:00 – 16:10</td> <td>International Climate Network Working Group (Eli Dart—DOE/ESnet)</td> </tr> <tr> <td>16:15 – 16:25</td> <td>Data Transfer Working Team (Lukasz Lacinski—DOE/ANL)</td> </tr> <tr> <td>16:30 – 16:40</td> <td>Security Working Team (George Rumney—NASA/GSFC)</td> </tr> <tr> <td>16:45 – 16:55</td> <td>Replication and Versioning Working Team (Stephan Kindermann—ENES/DKRZ)</td> </tr> <tr> <td>17:00 – 17:10</td> <td>Persistent Identifier Services (Tobias Weigel—ENES/DKRZ)</td> </tr> <tr> <td>17:15 – 17:25</td> <td>User Working Team (Torsten Rathmann—ENES/DKRZ)</td> </tr> </table>	11:30 – 11:40	CoG User Interface Working Team (Luca Cinquini—NASA/JPL)	11:45 – 11:55	Metadata and Search Working Team (Luca Cinquini—NASA/JPL)	12:00 – 13:30	Lunch	13:30 – 13:40	Publication Working Team (Sasha Ames—DOE/LLNL)	13:45 – 13:55	Node Manager and Tracking/Feedback Working Team (Sasha Ames—DOE/LLNL)	14:00 – 14:10	Stats and Dashboard Working Team (Alessandra Nuzzo—ENES/CMCC)	14:15 – 14:25	Identity Entitlement Access Management Working Team (Phil Kershaw—ENES/CEDA)	14:30 – 14:40	Compute Working Team (Charles Doutriaux—DOE/LLNL)	14:45 – 14:55	Errata Service (LEVAVASSEUR Guillaume—ENES/IPSL)	15:00 – 15:10	Quality Control Working Team: Data Citation Service for CMIP6—Status and Timeline (Martina Stockhause—ENES/DKRZ)	15:15 – 15:25	Installation Working Team (Prashanth Dwarakanath—ENES/Liu)	15:30 – 15:45	Break	15:45 – 15:55	Docker for ESGF (Luca Cinquini—NASA/JPL)	16:00 – 16:10	International Climate Network Working Group (Eli Dart—DOE/ESnet)	16:15 – 16:25	Data Transfer Working Team (Lukasz Lacinski—DOE/ANL)	16:30 – 16:40	Security Working Team (George Rumney—NASA/GSFC)	16:45 – 16:55	Replication and Versioning Working Team (Stephan Kindermann—ENES/DKRZ)	17:00 – 17:10	Persistent Identifier Services (Tobias Weigel—ENES/DKRZ)	17:15 – 17:25	User Working Team (Torsten Rathmann—ENES/DKRZ)
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08:00 – 08:30	Coffee/tea reception and meeting and greet																																						
08:30 – 09:30	<p>ESGF Progress and Interoperability Town Hall Discussion Session Discussion Lead (Dean N. Williams)</p> <ul style="list-style-type: none"> ● What tools have been identified during the previous discussions that should be made more widely accessible to the community? ● Are these working team tools addressing community needs? ● What other tools are there that could address key community needs? ● How should tools and services be made available in the future for the ESGF integrated infrastructure? ● What level of support would be expected from the science community? ● How do we want to assess the maturity and capability (e.g. benchmarks or crowdsourcing) of the working team tools and services? ● Are there any conventions that are needed for the working teams in respect to the many projects? 																																						

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	<ul style="list-style-type: none"> • What level of service, monitoring, maintenance, and metrics is needed for each of the working team data services and tools? • What do working teams want to see from others? • What do the scientists want to have access to with regard to the working teams? • What standards and services that needs to be adopted within the compute environment that will allow projects to participate in multi-agency data initiatives discussed on the first day? • What is needed for data sharing across the multi-international agencies? 																		
09:30 – 11:30	<p>Advanced Computational Environments and Data Analytics Session Discussion Lead (Robert Ferraro)</p> <table border="1" data-bbox="509 583 1503 1314"> <tbody> <tr> <td data-bbox="509 583 704 646">09:30 – 09:40</td> <td data-bbox="704 583 1503 646">Overview of the Compute Working Team and Target Milestones (Daniel Duffy—NASA/GSFC, Charles Doutriaux—DOE/LLNL)</td> </tr> <tr> <td data-bbox="509 646 704 743">09:45 – 09:55</td> <td data-bbox="704 646 1503 743">Compute Working Team (CWT) End-User Application Programmer’s Interface (API) (Jason Boutte—DOE/LLNL, Charles Doutriaux—DOE/LLNL)</td> </tr> <tr> <td data-bbox="509 743 704 806">10:00 – 10:10</td> <td data-bbox="704 743 1503 806">The Climate Data Analytic Services (CDAS) Framework (Thomas Maxwell, Dan Duffy—NASA/GSFC)</td> </tr> <tr> <td data-bbox="509 806 704 837">10:15 – 10:25</td> <td data-bbox="704 806 1503 837">Ophedia big data analytics framework (Sandro Fiore—ENES/CMCC)</td> </tr> <tr> <td data-bbox="509 837 704 926">10:30 – 10:40</td> <td data-bbox="704 837 1503 926">PAVICS: A Platform to Streamline the Delivery of Climate Services (David Huard, Tom Landry, Blaise Gauvin-St-Denis, David Byrns—CRCM)</td> </tr> <tr> <td data-bbox="509 926 704 974">10:45 – 11:00</td> <td data-bbox="704 926 1503 974" style="text-align: center;">Break</td> </tr> <tr> <td data-bbox="509 974 704 1100">11:00 – 11:10</td> <td data-bbox="704 974 1503 1100">Server-side Computing Services provided by IS-ENES through the climate4impact Platform (Christian Page, Wim Som De Cerff, Maarten Plieger, Manuel Vega, Antonia S. Cofino, Lars Barring, Fokke De Jong, Ronald Hutjes, Sandro Fiore—ENES/Copernicus)</td> </tr> <tr> <td data-bbox="509 1100 704 1163">11:15 – 11:25</td> <td data-bbox="704 1100 1503 1163">CAFE: A framework for collaborative analysis of distributed environmental data (Hao Xu—China/Tsinghua University)</td> </tr> <tr> <td data-bbox="509 1163 704 1314">11:30 – 11:40</td> <td data-bbox="704 1163 1503 1314">Embedded Domain-Specific Language and Runtime System for Progressive Spatiotemporal Data Analysis and Visualization (Cameron Christensen, Shusen Liu, Giorgio Scorzelli, Ji-Woo Lee, Peer-Timo Bremer, Valerio Pascucci—University of Utah)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • What are the key challenges that scientists encounter? • What capabilities would address the identified challenges? What exists already today? What do we still need? • What are the impediments for resource providers and software developers to provide these missing capabilities? • Which requirements need to be addressed with the highest priority and what would be their measurable impact on science? • What is the overall integration plan? • What are the key things that are difficult to do today and are impeding scientific progress or productivity? <p>The homework assignment before the conference is to convert all known data center drivers to use cases.</p>	09:30 – 09:40	Overview of the Compute Working Team and Target Milestones (Daniel Duffy—NASA/GSFC, Charles Doutriaux—DOE/LLNL)	09:45 – 09:55	Compute Working Team (CWT) End-User Application Programmer’s Interface (API) (Jason Boutte—DOE/LLNL, Charles Doutriaux—DOE/LLNL)	10:00 – 10:10	The Climate Data Analytic Services (CDAS) Framework (Thomas Maxwell, Dan Duffy—NASA/GSFC)	10:15 – 10:25	Ophedia big data analytics framework (Sandro Fiore—ENES/CMCC)	10:30 – 10:40	PAVICS: A Platform to Streamline the Delivery of Climate Services (David Huard, Tom Landry, Blaise Gauvin-St-Denis, David Byrns—CRCM)	10:45 – 11:00	Break	11:00 – 11:10	Server-side Computing Services provided by IS-ENES through the climate4impact Platform (Christian Page, Wim Som De Cerff, Maarten Plieger, Manuel Vega, Antonia S. Cofino, Lars Barring, Fokke De Jong, Ronald Hutjes, Sandro Fiore—ENES/Copernicus)	11:15 – 11:25	CAFE: A framework for collaborative analysis of distributed environmental data (Hao Xu—China/Tsinghua University)	11:30 – 11:40	Embedded Domain-Specific Language and Runtime System for Progressive Spatiotemporal Data Analysis and Visualization (Cameron Christensen, Shusen Liu, Giorgio Scorzelli, Ji-Woo Lee, Peer-Timo Bremer, Valerio Pascucci—University of Utah)
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11:45 – 12:10	<p>Computational Environments and Data Analytics Town Hall Discussion Session Discussion Lead (Robert Ferraro)</p> <p>Town Hall Panel: (Charles Doutriaux, Daniel Duffy, Jason Boutte, Thomas Maxwell, Sandro Fiore, Maarten Plieger, David Huard, Christian Page, Cameron Christensen)</p> <ul style="list-style-type: none"> • Define a scalable compute resource (clusters and HPCs) for projects’ data analysis 																		

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	<ul style="list-style-type: none"> ● Data analytical and visualization capabilities and services ● Analysis services when multiple data sets are not co-located ● Performance of model execution ● Advanced networks as easy-to-use community resources ● Provenance and workflow ● Automation of steps for the computational work environment ● Resource management, installation, and customer support ● Identify key gaps, identify benefitting communities, and prioritize 																														
12.10 – 13:30	Lunch																														
13:30 – 17:45	<p>Coordinated Efforts with Community Software Projects Session Discussion Lead (Sébastien Denvil)</p> <table border="1" data-bbox="509 642 1503 1894"> <tbody> <tr> <td data-bbox="509 642 704 705">13:30 – 13:40</td> <td data-bbox="704 642 1503 705">CMIP6 Standards Enabling Management, Search and Interpretation of Model Output (Karl Taylor—DOE/LLNL)</td> </tr> <tr> <td data-bbox="509 705 704 768">13:45 – 13:55</td> <td data-bbox="704 705 1503 768">CMIP6 ESGF Tier 1 and Tier 2 Nodes (Sebastien Denvil—ENES/IPSL, Michael Lautenschlager—ENES/DKRZ)</td> </tr> <tr> <td data-bbox="509 768 704 863">14:00 – 14:10</td> <td data-bbox="704 768 1503 863">CMIP6 “Impact” on Scientific Community (Sergey Nikonov, V. 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Durack—DOE/LLNL, Karl Taylor—DOE/LLNL, Sasha Ames—DOE/LLNL)</td> </tr> <tr> <td data-bbox="509 1682 704 1745">16:45 – 16:55</td> <td data-bbox="704 1682 1503 1745">An Update on the ESGF Needs for Obs4MIPs (Peter Gleckler—DOE/LLNL)</td> </tr> <tr> <td data-bbox="509 1745 704 1894">17:00 – 17:10</td> <td data-bbox="704 1745 1503 1894">Recent Climate4impact Developments: Provenance in Processing and Connection to the CLIPC Portal (Maarten Plieger, Wim Som de Cerff, Andrej Mihajlovski, Ernst de Vreede, Alessandro Spinuso, Christian Page, Ronald Hutjes, Fokke de Jong, Lars Barring, Antonio Cofino, Manuel Vega, Sandro Fiore, Alessandro d’Anca—ENES/KNMI)</td> </tr> </tbody> </table>	13:30 – 13:40	CMIP6 Standards Enabling Management, Search and Interpretation of Model Output (Karl Taylor—DOE/LLNL)	13:45 – 13:55	CMIP6 ESGF Tier 1 and Tier 2 Nodes (Sebastien Denvil—ENES/IPSL, Michael Lautenschlager—ENES/DKRZ)	14:00 – 14:10	CMIP6 “Impact” on Scientific Community (Sergey Nikonov, V. 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	17:15 – 17:25	Federated Data Usage Statistics in the Earth System Grid Federation (A. Nuzzo, M. Mirto, P. Nassisi, K. Berger, T. Rathmann, L. Cinquini, S. Denvil, S. Fiore, D. N. Williams, G. Aloisio—ENES/CMCC)														
	17:30 – 17:40	Large-Scale Data Analytics Workflow Support for Climate Change Experiments (S. Fiore, C. Doutriaux, D. Palazzo, A. D’Anca, Z. Shaeen, D. Elia, J. Boutte, V. Anantharaj, D. N. Williams, G. Aloisio—ENES/CMCC)														
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17:45	Adjourn Day 2															
Thursday, December 8, 2016																
08:00 – 08:30	Coffee/tea reception and meeting and greet															
08:30 – 10:15	<p>Coordinated Efforts with Community Software Projects Session Discussion Lead (Sébastien Denvil)</p> <table border="1" data-bbox="509 968 1503 1367"> <tbody> <tr> <td data-bbox="509 968 704 1031">08:30 – 08:40</td> <td data-bbox="704 968 1503 1031">THREDDS Data Server: OPeNDAP and Other Tales from the Server-Side (Sean Arms—Unidata)</td> </tr> <tr> <td data-bbox="509 1031 704 1125">80:45 – 08:55</td> <td data-bbox="704 1031 1503 1125">A Hybrid Provenance Capture Approach to Scientific Workflow Reproducibility and Performance Optimization (Todd Elsethagen, Eric Stephan, and Bibi Raju—DOE/PNNL)</td> </tr> <tr> <td data-bbox="509 1125 704 1161">09:00 – 09:10</td> <td data-bbox="704 1125 1503 1161">QA/QC at the DKRZ (Heinz-Dieter Hollweg—ENES/DKRZ)</td> </tr> <tr> <td data-bbox="509 1161 704 1224">09:15 – 09:25</td> <td data-bbox="704 1161 1503 1224">Web Processing Services and ESGF: the Birdhouse System (Stephan Kindermann, Carsten Ehbrecht, Nils Hempelmann—ENES/KNMI)</td> </tr> <tr> <td data-bbox="509 1224 704 1260">09:30 – 09:40</td> <td data-bbox="704 1224 1503 1260">Synda (synchro-data) (Sébastien Denvil—ENES/IPSL)</td> </tr> <tr> <td data-bbox="509 1260 704 1295">09:45 – 09:55</td> <td data-bbox="704 1260 1503 1295">Globus Update (Rick Wagner—University of Chicago and DOE/ANL)</td> </tr> <tr> <td data-bbox="509 1295 704 1367">10:00 – 10:10</td> <td data-bbox="704 1295 1503 1367">BASEJumper: Publishing HPSS datasets via ESGF (Sam Fries, Sasha Ames, and Alex Sim—DOE/LLNL)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ● How will your efforts help the ESGF community of users? ● What is your timeline for releasing your efforts? ● What standards and services need to be adopted within the environment that will allow ESGF to participate in early adoption? ● How are you funded for longevity? 		08:30 – 08:40	THREDDS Data Server: OPeNDAP and Other Tales from the Server-Side (Sean Arms—Unidata)	80:45 – 08:55	A Hybrid Provenance Capture Approach to Scientific Workflow Reproducibility and Performance Optimization (Todd Elsethagen, Eric Stephan, and Bibi Raju—DOE/PNNL)	09:00 – 09:10	QA/QC at the DKRZ (Heinz-Dieter Hollweg—ENES/DKRZ)	09:15 – 09:25	Web Processing Services and ESGF: the Birdhouse System (Stephan Kindermann, Carsten Ehbrecht, Nils Hempelmann—ENES/KNMI)	09:30 – 09:40	Synda (synchro-data) (Sébastien Denvil—ENES/IPSL)	09:45 – 09:55	Globus Update (Rick Wagner—University of Chicago and DOE/ANL)	10:00 – 10:10	BASEJumper: Publishing HPSS datasets via ESGF (Sam Fries, Sasha Ames, and Alex Sim—DOE/LLNL)
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11:00 – 12:00	<p>Live Demonstration Session Session Discussion Lead (Dean N. Williams)</p>															

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14:30 – 15:00	<p>Poster Session Session Discussion Lead (Luca Cinquini)</p> <p>Posters:</p> <table border="1" data-bbox="509 489 1503 1780"> <tbody> <tr> <td data-bbox="509 489 607 552">1.</td> <td data-bbox="607 489 1503 552">ADAGUC open source visualization in climate4impact using OGC standards (Maarten Plieger, Ernst de Vreede—ENES)</td> </tr> <tr> <td data-bbox="509 552 607 615">2.</td> <td data-bbox="607 552 1503 615">Community Data Management System (CDMS) (Denis Nadeau, Charles Doutriaux, Dean N. 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15:00 – 17:00	Team Discussion and Cross-Team Discussions <ul style="list-style-type: none"> ● Poster session feedback ● Open discussion
17:00	Adjourn Day 3
Friday, December 9, 2016	
08:00 – 08:30	Coffee/tea reception and meeting and greet
08:30 - 10:00	ESGF XC and WIP Breakout Meeting <ul style="list-style-type: none"> ● Discuss of the construction of the annual report ● Meeting location and time of the next ESGF F2F meeting Working Teams Meeting <ul style="list-style-type: none"> ● All working teams discuss conference findings for their area for the annual report
10:00 – 10:15	Break
10:15 - 12:00	ESGF Development Teams Report Back on Conference Findings Session Discussion Lead (Dean N. Williams) <ul style="list-style-type: none"> ● ESGF Team Leads findings on conference feedback ● Open discussion
12:00	Adjourn Day 4
Concludes the 6th Annual ESGF F2F Conference	
13:30 – 17:00	General Code Sprint (optional) <ul style="list-style-type: none"> ● Working Teams and Leads