

8th Annual Earth System Grid Federation Conference Agenda

Time	Topic										
Monday, December 3, 2018											
2:00 p.m. – 4:00 p.m.	Pre-conference registration: TBD										
5:00 p.m. – 6:00 p.m.	Social Activity: Meet and Greet (NO HOST) TBD										
Tuesday, December 4, 2018											
7:30 a.m. – 8:30 a.m.	Registration: TBD										
8:00 a.m. – 8:30 a.m.	Breakfast: TBD										
8:30 a.m. – 8:50 a.m.	<p>Opening comments</p> <p>—Justin Hnilo, U.S. DOE’s Office of Biological and Environmental Research (BER) Program Manager for Data Management</p> <p>—Dean Williams or Michael Lautenschlager, Chair, ESGF Executive Committee</p> <ul style="list-style-type: none"> • How conference attendees contribute to the conference’s final report <p>Framing of the 2018 8th Annual ESGF F2F Conference</p> <p>—Angela Jefferson, Climate Program Executive Assistant LLNL Conference Logistics and Safety</p>										
8:50 a.m. – 10:20 a.m.	<p>Keynotes</p> <table border="1"> <tbody> <tr> <td>8:50 a.m. – 9:05 a.m.</td> <td>State of the Earth System Grid Federation (ESGF)—Luca Cinquini (NASA/JPL)</td> </tr> <tr> <td>9:05 a.m. – 9:20 a.m.</td> <td>Sylvie Jousaume, CNRS-IPSL, European Network for Earth System modelling: IS-ENES3</td> </tr> <tr> <td>9:20 a.m. – 9:35 a.m.</td> <td>David Bader (or Ghaleb Abdullah) – LLNL – DOE/LLNL direction</td> </tr> <tr> <td>9:35 a.m. – 9:50 a.m.</td> <td>Tsengdar Lee, NASA directions</td> </tr> <tr> <td>9:50 a.m. – 10:05 a.m.</td> <td>Ben Evans, NCI Australian directions</td> </tr> </tbody> </table>	8:50 a.m. – 9:05 a.m.	State of the Earth System Grid Federation (ESGF)—Luca Cinquini (NASA/JPL)	9:05 a.m. – 9:20 a.m.	Sylvie Jousaume, CNRS-IPSL, European Network for Earth System modelling: IS-ENES3	9:20 a.m. – 9:35 a.m.	David Bader (or Ghaleb Abdullah) – LLNL – DOE/LLNL direction	9:35 a.m. – 9:50 a.m.	Tsengdar Lee, NASA directions	9:50 a.m. – 10:05 a.m.	Ben Evans, NCI Australian directions
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	10:05 a.m. – 10:20 a.m.	Tom Landry, CRIM – Cyberinfrastructure for Earth Observation and climate services in Canada: review of sustainability projects 2017-2027
10:20 a.m. – 10:40 a.m.	BREAK	
Project Requirements Session		
10:40 a.m. – 12:00 noon	10:40 a.m. – 11:10 a.m.	Karl Taylor, LLNL/PCMDI, CMIP6's Reliance on ESGF Infrastructure: Present and Future
	11:10 a.m. – 11:30 a.m.	Peter Gleckler, LLNL/PCMDI Obs4MIPs: Progress and Plans
	11:30 a.m. – 12:00 noon	Plenary discussion
12:00 noon – 1:30 p.m.	Lunch	
1:30 p.m. – 3:00 p.m.	ESGF Compute Services	
	1:30 p.m. – 1:50 p.m.	Charles Doutriaux, LLNL/AIMS – State of the Compute Working Team and Compute Certification Process
	1:50 p.m. – 2:10 p.m.	Jason Boutté, LLNL/AIMS – Compute service cluster and deployment
	2:10 p.m. – 2:30 p.m.	Tom Maxwell, NASA, The Earth Data Analytics Services (EDAS) Framework
	2:30 p.m. – 2:50 p.m.	Stephan Kindermann, DKRZ, Copernicus CP4CDS compute service
	2:50 p.m. – 3:20 p.m.	Compute Node Challenge – Discussion and outline
3:20 p.m. – 3:40 p.m.	BREAK	

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3:40 p.m. – 5:00 p.m.	<p data-bbox="435 279 948 310">Compute Services and Machine Learning</p> <table border="1" data-bbox="440 346 1352 764"> <tr> <td data-bbox="440 346 634 443">3:40 p.m. – 4:00 p.m.</td> <td data-bbox="634 346 1352 443">Sandro Fiore, CMCC – High Performance Data Analytics and Machine Learning developments in Ophidia</td> </tr> <tr> <td data-bbox="440 443 634 569">4:00 p.m. – 4:20 p.m.</td> <td data-bbox="634 443 1352 569">Tom Landry, CRIM – OGC Testbed-14: Experiments on Machine Learning and on Earth Observation Exploitation Platforms</td> </tr> <tr> <td data-bbox="440 569 634 665">4:20 p.m. – 4:40 p.m.</td> <td data-bbox="634 569 1352 665">Sookyun Kim, LLNL/AIMS – Tracking and Predicting Extreme Climate Events using ConvLSTM</td> </tr> <tr> <td data-bbox="440 665 634 764">4:40 p.m. – 5:00 p.m.</td> <td data-bbox="634 665 1352 764">Plenary Discussion</td> </tr> </table>	3:40 p.m. – 4:00 p.m.	Sandro Fiore, CMCC – High Performance Data Analytics and Machine Learning developments in Ophidia	4:00 p.m. – 4:20 p.m.	Tom Landry, CRIM – OGC Testbed-14: Experiments on Machine Learning and on Earth Observation Exploitation Platforms	4:20 p.m. – 4:40 p.m.	Sookyun Kim, LLNL/AIMS – Tracking and Predicting Extreme Climate Events using ConvLSTM	4:40 p.m. – 5:00 p.m.	Plenary Discussion										
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5:00 p.m. – 6:00 p.m.	<p data-bbox="435 808 1287 840">Poster and Demo Session 1: Compute Services and Applications</p> <table border="1" data-bbox="435 873 1339 1654"> <thead> <tr> <th data-bbox="435 873 548 959">No.</th> <th data-bbox="548 873 1053 959">Title</th> <th data-bbox="1053 873 1339 959">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 959 548 1089">1</td> <td data-bbox="548 959 1053 1089">Web Processing Services Climate Analysis Workflows from a Python Interface (Demo)</td> <td data-bbox="1053 959 1339 1089">D. Huard C. Ehbrecht B. Koziol</td> </tr> <tr> <td data-bbox="435 1089 548 1220">2</td> <td data-bbox="548 1089 1053 1220">Diagnostics Package for Energy Exascale Earth System Model (E3SM_diags)</td> <td data-bbox="1053 1089 1339 1220">C. Zhang Z. Shaheen C. Golaz</td> </tr> <tr> <td data-bbox="435 1220 548 1350">3</td> <td data-bbox="548 1220 1053 1350">High-dimensional Climate Data Visualization for Advanced Analysis</td> <td data-bbox="1053 1220 1339 1350">J. Lee K. Sperber C. Doutriaux</td> </tr> <tr> <td data-bbox="435 1350 548 1480">4</td> <td data-bbox="548 1350 1053 1480">CMOR</td> <td data-bbox="1053 1350 1339 1480">C. Mauzey C. Doutriaux K. Taylor</td> </tr> <tr> <td data-bbox="435 1480 548 1654">5</td> <td data-bbox="548 1480 1053 1654">Leveraging CAFÉ to enable a collaborative computing paradigm for climate model intercomparison</td> <td data-bbox="1053 1480 1339 1654">Y. Bai B. Wang T. Wu</td> </tr> </tbody> </table>	No.	Title	Name	1	Web Processing Services Climate Analysis Workflows from a Python Interface (Demo)	D. Huard C. Ehbrecht B. Koziol	2	Diagnostics Package for Energy Exascale Earth System Model (E3SM_diags)	C. Zhang Z. Shaheen C. Golaz	3	High-dimensional Climate Data Visualization for Advanced Analysis	J. Lee K. Sperber C. Doutriaux	4	CMOR	C. Mauzey C. Doutriaux K. Taylor	5	Leveraging CAFÉ to enable a collaborative computing paradigm for climate model intercomparison	Y. Bai B. Wang T. Wu
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5	Leveraging CAFÉ to enable a collaborative computing paradigm for climate model intercomparison	Y. Bai B. Wang T. Wu																	
6:00 p.m.	Adjourn Day 1																		

Time	Topic																
Wednesday, December 5, 2018																	
8:00 a.m. – 8:30 a.m.	Breakfast: TBD																
8:30 a.m. – 11:20 a.m.	<p>CMIP6 Services in ESGF</p> <table border="1" data-bbox="440 564 1352 1337"> <tr> <td data-bbox="440 564 634 659">8:30 a.m. – 8:50 a.m.</td> <td data-bbox="634 564 1352 659">Sébastien Denvil, IPSL, State of CDNOT</td> </tr> <tr> <td data-bbox="440 659 634 756">8:50 a.m. – 9:10 a.m.</td> <td data-bbox="634 659 1352 756">Martin Jukes, CEDA, Status and Outlook for the CMIP Data Request</td> </tr> <tr> <td data-bbox="440 756 634 852">9:10 a.m. – 9:30 a.m.</td> <td data-bbox="634 756 1352 852">David Hassell, NCAS, The ES-DOC documentation workflow for CMIP6</td> </tr> <tr> <td data-bbox="440 852 634 949">9:30 a.m. – 9:50 a.m.</td> <td data-bbox="634 852 1352 949">Martina Stockhause, DKRZ, Data Citation Service – status and first experiences</td> </tr> <tr> <td data-bbox="440 949 634 1045">9:50 a.m. – 10:10 a.m.</td> <td data-bbox="634 949 1352 1045">Guillaume Levavasseur, IPSL, ESGF Errata Service – Production release and forms</td> </tr> <tr> <td data-bbox="440 1045 634 1142">10:10 a.m. – 10:40 a.m.</td> <td data-bbox="634 1045 1352 1142" style="text-align: center;">BREAK</td> </tr> <tr> <td data-bbox="440 1142 634 1239">10:40 a.m. – 11:00 a.m.</td> <td data-bbox="634 1142 1352 1239">Atef Bennasser, IPSL, Synda</td> </tr> <tr> <td data-bbox="440 1239 634 1337">11:00 a.m. – 11:20 a.m.</td> <td data-bbox="634 1239 1352 1337">Alessandra Nuzzo, CMCC, ESGF Dashboard: data usage statistics on the Earth System Grid Federation</td> </tr> </table>	8:30 a.m. – 8:50 a.m.	Sébastien Denvil, IPSL, State of CDNOT	8:50 a.m. – 9:10 a.m.	Martin Jukes, CEDA, Status and Outlook for the CMIP Data Request	9:10 a.m. – 9:30 a.m.	David Hassell, NCAS, The ES-DOC documentation workflow for CMIP6	9:30 a.m. – 9:50 a.m.	Martina Stockhause, DKRZ, Data Citation Service – status and first experiences	9:50 a.m. – 10:10 a.m.	Guillaume Levavasseur, IPSL, ESGF Errata Service – Production release and forms	10:10 a.m. – 10:40 a.m.	BREAK	10:40 a.m. – 11:00 a.m.	Atef Bennasser, IPSL, Synda	11:00 a.m. – 11:20 a.m.	Alessandra Nuzzo, CMCC, ESGF Dashboard: data usage statistics on the Earth System Grid Federation
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11:20 a.m. – 12:00 noon	<p>CMIP6 Experience</p> <table border="1" data-bbox="440 1438 1352 1644"> <tr> <td data-bbox="440 1438 634 1535">8:30 a.m. – 8:50 a.m.</td> <td data-bbox="634 1438 1352 1535">Kate Snow, NCI, NCI production experience with CMIP6</td> </tr> <tr> <td data-bbox="440 1535 634 1644">8:30 a.m. – 8:50 a.m.</td> <td data-bbox="634 1535 1352 1644">Paul Durack, PCMDI/LLNL, input4MIPs: ESGF experiences of a 2-year-old project</td> </tr> </table>	8:30 a.m. – 8:50 a.m.	Kate Snow, NCI, NCI production experience with CMIP6	8:30 a.m. – 8:50 a.m.	Paul Durack, PCMDI/LLNL, input4MIPs: ESGF experiences of a 2-year-old project												
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12:00 noon – 1:30 p.m.	Lunch																
1:30 p.m. – 2:30 p.m.	ESGF Service Interoperability																

Time	Topic							
	1:30 p.m. – 1:50 p.m.	Matt Pryor, CEDA, Containerising ESGF for CP4CDS						
	1:50 p.m. – 2:10 p.m.	Philip Kershaw, CEDA, The application of ESGF to develop an Open Data Portal for ESA Climate Change Initiative						
	2:10 p.m. – 2:30 p.m.	George Percivall, OGC, Climate Data in Geospatial Information Systems: ESGF and OGC coordination opportunities						
2:30 p.m. – 5:00 p.m.	ESGF in Analysis Applications							
	2:30 p.m. – 2:50 p.m.	Christian Pagé, CERFACS, C4I: Leveraging and Easing End Users' CMIP6 Access by Interfacing Infrastructures						
	2:50 p.m. – 3:10 p.m.	Tobias Weigel, DKRZ, ECAS - ENES Climate Analytics Service						
	3:10 p.m. – 3:30 p.m.	BREAK						
	3:30 p.m. – 3:50 p.m.	Ryan Abernathy, Pangeo: a flexible climate analytics infrastructure for climate data on ESGF						
	3:50 p.m. – 4:10 p.m.	Steve Petruzza, U. of Utah, Fully integrated solution for interactive data conversion, streaming, analysis and visualization of scientific data using containers and web-based technologies						
	4:10 p.m. – 4:30 p.m.	Carlos Downie, LLNL, vCDAT a Web Based Data Visualization Suite for a Broader Community						
	4:30 p.m. – 5:00 p.m.	Plenary discussion on the day's topics: CMIP6, Service Interoperability, Analysis Applications						
5:00 p.m. – 6:00 p.m.	Poster Session 2: CMIP6 and Cloud							
	<table border="1"> <thead> <tr> <th data-bbox="415 1608 545 1696">No.</th> <th data-bbox="545 1608 1052 1696">Title</th> <th data-bbox="1052 1608 1448 1696">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="415 1696 545 1879">6</td> <td data-bbox="545 1696 1052 1879">ESGF PID services status and future perspectives</td> <td data-bbox="1052 1696 1448 1879">T. Weigel S. Kindermann K. Berger</td> </tr> </tbody> </table>		No.	Title	Name	6	ESGF PID services status and future perspectives	T. Weigel S. Kindermann K. Berger
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Time	Topic		
	7	Cooperation with Google for deploying ESGF Node on Google Cloud Platform	S. Nikonov H. Vahlenkamp A. Radhakrishnan K. Bhatia V. Balaji L. Cinquini
	8	An automated heterogeneous pipeline for managing CMIP6 ingestion, replication and publication at CEDA	R. Petrie A. Stephens A. Iwi
	9	How can the Coordinated Regional Climate Downscaling Experiment (CORDEX) community facilitate dissemination and analysis of the next generation climate simulations in the Cloud?	H. Lee J. Han J. Lee
	10	Data long-term archival in the IPCC DDC and DDC Support	M. Stockhause M. Lautenschlager DDC Support Group
6:00 p.m.	Adjourn Day 2		
Thursday, December 6, 2018			
8:00 a.m. – 8:30 a.m.	Breakfast: TBD		
8:30 a.m. – 12:00 noon	Topics from ESGF Working Teams		
	8:30 a.m. – 8:50 a.m.	Luca Cinquini, NASA/JPL, Next Generation ESGF Search Services	
	8:50 a.m. – 9:10 a.m.	William Hill, LLNL/AIMS, ESGF Installer 3.0	
	9:10 a.m. – 9:30 a.m.	Sébastien Gardoll, IPSL, ESGF Test Suite and Jenkins at IPSL	
	9:30 a.m. – 9:50 a.m.	Sasha Ames, LLNL/AIMS, Working Teams Update: Publication and ESGF Services	

Time	Topic							
	9:50 a.m. – 10:10 a.m.	Philip Kershaw, CEDA, Review of development activities for ESGF IdEA – Identity, Entitlement and Access Management						
	10:10 a.m. – 10:30 a.m.	BREAK						
	10:30 a.m. – 10:50 a.m.	Mark Greenslade, IPSL, Pyessv - A simple controlled vocabulary service						
	10:50 a.m. – 11:10 a.m.	Denis Nadeau (LLNL) 5 Community Data Management Systems for CMIP6						
	11:10 a.m. – 11:30 a.m.	Zeshawn Shaheen 37 Common Input Arguments with CDP						
	11:30 a.m. – 12:00 noon	Plenary Discussion on working group progress and plans						
12:00 noon – 1:30 p.m.	Lunch							
1:30 p.m. – 3:30 p.m.	<p>Rethinking of ESGF Architecture</p> <ul style="list-style-type: none"> • Phil Kershaw / Ben Evans: introduce discussion on next-generation architecture <ul style="list-style-type: none"> ○ Security ○ Containerization ○ Cloud infrastructure ○ Federation architecture ○ Data access 							
3:30 p.m. – 4:00 p.m.	BREAK							
4:00 p.m. – 5:00 p.m.	Awards Ceremony							
5:00 p.m. – 6:00 p.m.	<p>Poster Session 3: ESGF Working teams and next-generation ideas</p> <table border="1" data-bbox="435 1711 1339 1795"> <thead> <tr> <th data-bbox="435 1711 548 1795">No.</th> <th data-bbox="548 1711 1052 1795">Title</th> <th data-bbox="1052 1711 1339 1795">Name</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Title	Name			
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	11	ESGF Installer validation with Jenkins	L. Murytano S. Ames
	12	Applying object oriented design principles to installation processes	N. Carlson W. Hill S. Ames
	13	Nonactive ESGF Catalog Migration	Y. Shen L. Cinquini L. Carriere D. Duffy
	14	Towards a blockchain enabled ESGF	M. Greenslade
	15	Enhancing the ESGF data node to load balance a distributed cluster of THREDDS instances	E. Álvarez P. Crespo A. Confiño
6:00 p.m.	Adjourn Day 3		
Friday, December 7, 2018			
8:00 a.m. – 8:30 a.m.	Breakfast: TBD		
8:30 a.m. – 10:30 a.m.	Breakout Session <ul style="list-style-type: none"> • ESGF Working teams <ul style="list-style-type: none"> ○ Discuss roadmaps and contribution to conference report • ESGF XC Meeting <ul style="list-style-type: none"> ○ 2019 priorities and implementation plan update ○ Next meeting schedule and location ○ ESGF as legal entity 		
10:30 a.m. – 11:00 a.m.	BREAK		
11:00 a.m. – 12:00 noon	Closing Plenary Session		

Time	Topic
12:00 noon	Adjourn Day 4
Conclusion of the 8th Annual ESGF F2F Conference	