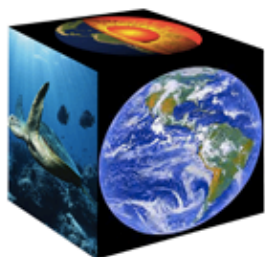


Introduction to EarthCube and the Summer Institute

Chaitan Baru
San Diego Supercomputer Center
UC San Diego

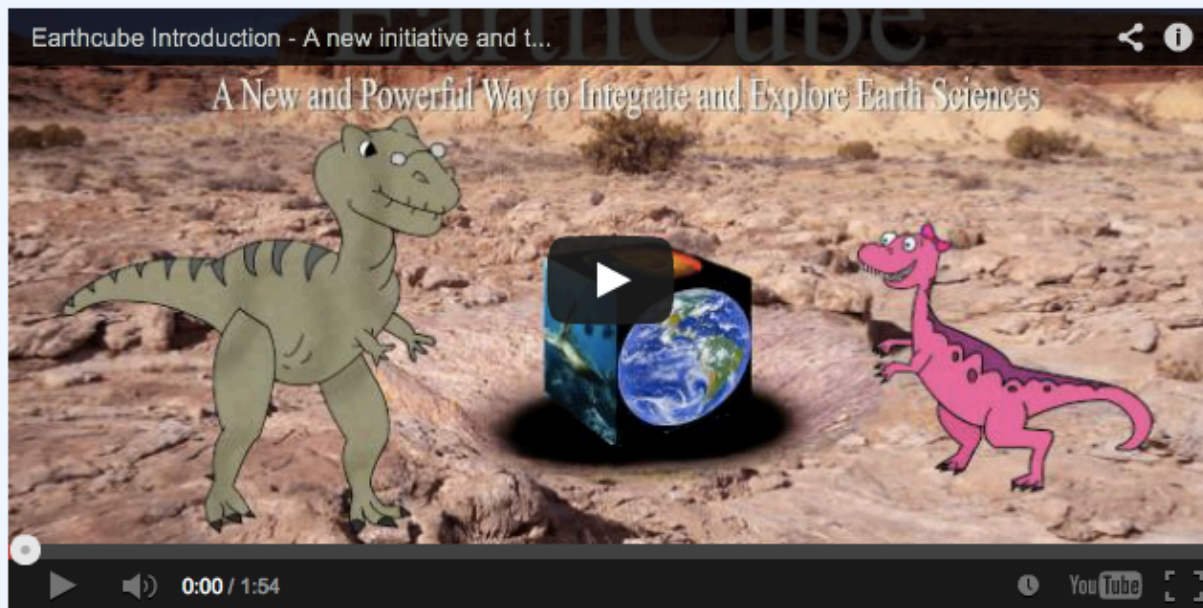


EarthCube

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ABOUT EARTHCUBE

A Community-Driven Data and Knowledge Environment for the Geosciences



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MEMBERS



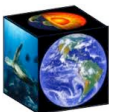
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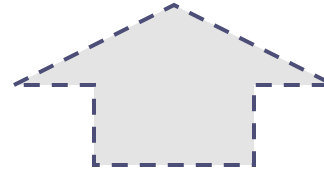
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EarthCube Activities / Events

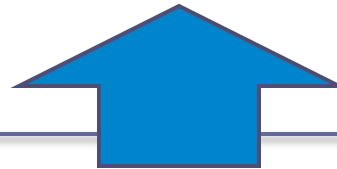
- Charrettes: Nov 2011, June 2012
 - A collaborative session in which a group of designers drafts a solution to a design problem
 - Consists of an intense period of design activity
- Community Groups
 - Governance
 - Data Discovery, Mining, and Access (DDMA)
 - Semantics and Ontologies
 - Workflows
- Concept Awards
 - Interagency Data Sharing; Brokering; Cross-domain Interoperability; Service-based Integration; Layered Architecture; Earth System Modeling
- Community Workshops
 - ~24 “domain” workshops





Enterprise Architecture Proposals

Building Block Projects



Data Discovery, mining, & Integration into web services Semantics and Ontologies Workflow Governance

Community Groups – Discussion of broad thematic areas

Interagency GeoData Data Brokering Cross-domain Interoperability Service-based Integration Layered Architecture Earth System Modeling

Concept Awards – Preliminary demonstration of technology concepts



Summer Institute Agenda

ECSITE'13: EarthCube Summer Institute 2013														
Monday, August 12th, 2013			Tuesday, August 13th, 2013			Wednesday, August 14th, 2013			Thursday, August 15th, 2013			Friday, August 16th, 2013		
Introduction			Data and Metadata			Data and Its Meaning			Workflows and Visualization					
8:30	9:00	Introduction to EarthCube and the Summer Institute, Chaitan Baru, SDSSC	8:30	10:15	Introduction to Issues in Scientific Data Management, Dr. Don Middleton, NCAR	8:30	10:15	Introduction to Scientific Data and Data Semantics, Dr. Amarnath Gupta, SDSC	8:30	10:15	Introduction to Scientific Workflows, Ilkay Altintas, SDSC	8:30	9:30	Overview of SDSC HPC and Data Resources
9:00	9:15	Attendee Introductions: All Neurosciences Information Framework (NIF): An example of community cyberinfrastructure for the Neurosciences, Dr. Maryann Martone, UCSD										9:30	10:30	Machine room tour
9:15	10:15													
10:15	10:30	Break	10:15	10:30	Break	10:15	10:30	Break	10:15	10:30	Break	10:15	10:30	Break
10:30	11:15	Cyberinfrastructure and Earth Science Applications, Dr. Adrian Borsa, SIO, UCSD	10:30	12:00	Examples of Scientific Data and Metadata Management,	10:30	12:00	Examples of Scientific Data and Data Semantics, Dr. Amarnath Gupta, SDSC	10:30	12:00	Examples of Scientific Workflows, Ilkay Altintas, SDSC	10:30	12:00	Group Discussion: Summary and Feedback; Ideas for topics to be covered in future; etc.
11:15	12:00	Cyberinfrastructure and Anthropogeny: John Moreland, SDSC												
12:00	13:30	Lunch	12:00	13:30	Lunch	12:00	13:30	Lunch	12:00	13:30	Lunch	12:00		End of ECSITE Institute
13:30	14:30	OpenTopography: Cyberinfrastructure for high-resolution topographic data and tools, Chaitan Baru, Vishu Nandigam, SDSC	13:30	17:00	Introduction to Scientific Data Access and Discovery, Dr. Tanu Malik, U.Chicago	13:30	15:00	Introduction to Information Models and Networking the Community, Dr. Ilya Zaslavsky, SDSC	13:30	15:00	Introduction to Scientific and Information visualization, Amit Chourasia			
14:30	14:45	TEAM: Tropical Ecology Assessment and Monitoring Network, Chaitan Baru												
14:45	15:00	TEAM Demo												
15:00	15:15	Break	15:00	15:15	Break	15:00	15:15	Break	15:00	15:15	Break			
15:15	16:00	Long-tail Data: A perspective on the structure of the EarthCube community, Chaitan Baru, SDSC	15:15	17:00	Examples of Scientific Data Access and Discovery, Dr. Tanu Malik, U.Chicago	15:15	17:00	Examples of Information Models and Networking the Community, Dr. Ilya Zaslavsky, SDSC	15:15	17:00	Examples of Scientific and Information visualization, Amit Chourasia			
16:00	17:00	Ice Breaker Reception							16:00		ECSITE Dinner			

