



# Earth Sciences Events and Activities

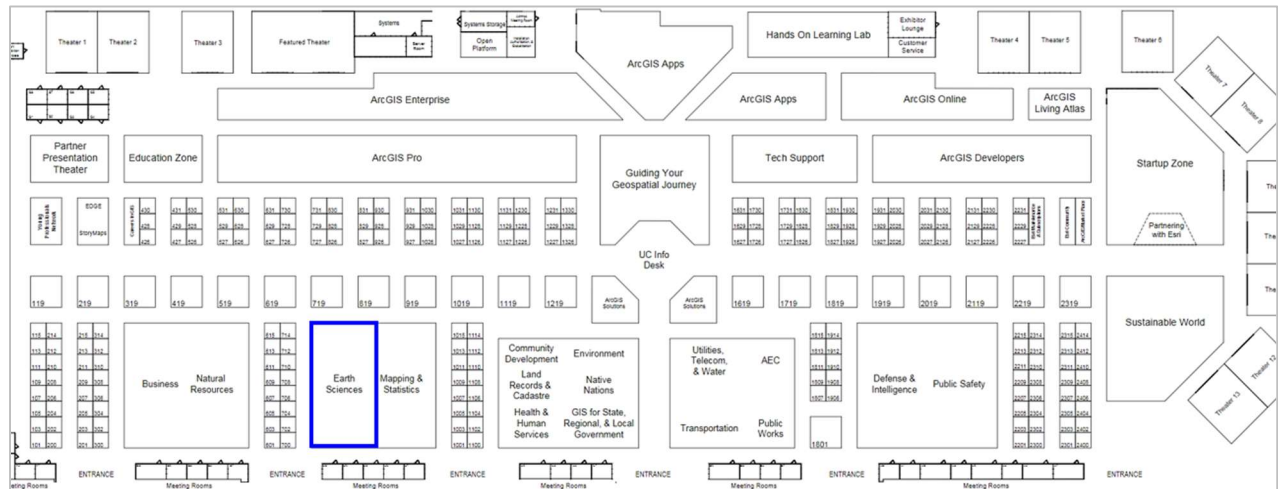
The Esri User Conference (Esri UC) has many presentations and events with hundreds of topics covered. To help you find your way to the Earth Sciences sessions and events, we have prepared a more focused agenda.

## Earth Sciences Showcase

Ground Level, Exhibit Halls C, SDCC

Tuesday, July 12 9:00 AM–6:00 PM  
 Wednesday, July 13 9:00 AM–6:00 PM  
 Thursday, July 14 9:00 AM–4:00 PM

Visit the Earth Sciences expo to see how the scientific community uses geographic information systems (GIS) to address environmental challenges. GIS is a critical tool for the advanced science-driven understanding of climate change, resources management, and environmental challenges needed to help decision-makers create sustainable solutions that positively impact the world. Connect with the Esri Earth Sciences team to explore innovative solutions in **geoscience, sustainable energy, environmental monitoring, climate, weather,** and marine science disciplines.



## Special Interest Group Meetings

Wednesday, July 13

7:00 AM-8:00 AM

### [Addressing Ocean, Weather, and Climate Interactions with Open Science GIS SIG](#)

The ocean has a considerable influence on weather and climate and understanding the interplay between these three provides us with forward-looking insight into societal wellbeing. This SIG is an opportunity to hear from and unite users from the ocean, weather, and climate communities around approaches to open science, resource management, climate resilience/adaptation, and mitigation. This session will be an interactive discussion with the audience to explore these practices, and what challenges users face, and compile a list of requirements and community building that would improve user experiences.

SDCC, Room 25 B

**Moderators:** Lorraine Tighe and Guy Noll



SDCC = San Diego Convention Center

Please note: All listings subject to change; not every paper or event may be presented here.

## Moderated Paper Presentations

### EARTH SCIENCES

#### Tuesday, July 12

10:00 AM-11:00 AM	14790 UC4394 UC4398	<a href="#">Advanced Multidimensional Data Access and Analysis</a> Improving the Nation's Capability for Integrating Environmental Data Python Tools for Fluvial Stream Profile and Watershed Analysis	SDCC, Room 25 B
-------------------	---------------------------	--	-----------------

#### Wednesday, July 13

10:00 AM-11:00 AM	14791 UC4199 UC4224	<a href="#">Emerging GIS Earth Observation Analysis</a> Observations & Analysis Emerging GNSS Technology	SDCC, Room 25 B
1:00 PM-2:00 PM	14792 UC4069 UC3948	<a href="#">Geological Applications Using GIS</a> Mapping 61 Years of Change Development of a Web-Based Subsurface Geological Portal for Sri Lanka	SDCC, Room 27 B

#### Thursday, July 14

1:00 PM-2:00 PM	14792 UC4069 UC3948	<a href="#">GIS Modelling in Geosciences</a> Deep Learning Model Synthesis for Aiding Sustainable Nuclear Waste Management IS Analysis of the Current Relief Modelling in Lupa Hydrographic Basin	SDCC, Room 25 B
-----------------	---------------------------	---	-----------------

### WEATHER AND CLIMATE

#### Wednesday, July 13

1:00 PM-2:00 PM	14786 UC3846 UC3879	<a href="#">Forecasting &amp; Mapping Weather</a> Using GIS to Forecast and Mapping Canada's Tornado	SDCC, Room 25 B
-----------------	---------------------------	--	-----------------

### OCEANS

#### Tuesday, July 12

1:00 PM-2:00 PM	14779 UC4273 UC4576	<a href="#">Modern Marine Data Access</a> Modern Map Viewers at NOAA Enhancing NOAA's Deep Sea	SDCC, Room 26 B
	14869 UC3738 UC4211	<a href="#">Understanding Carbon Sequestration &amp; Greenhouse Gas Emissions with ArcGIS</a> Optimising Carbon Sequestration Through Afforestation on Defence Estates GIS for Remote Methane Emissions Monitoring	SDCC, Room 25 B

### CLIMATE CHANGE

#### Tuesday, July 12

8:30 AM-9:30 AM	14867 UC3794 UC4173	<a href="#">Flooding Applications using ArcGIS</a> Customizing Flooding Adaptation Options for Delawareans Using Survey123 Solving the US Navy's Flooding Risks With F.I.S.H.	SDCC, Room
-----------------	---------------------------	---	------------

#### Thursday, July 14

10:00 AM-11:00 AM	14868 UC4121 UC4201	<a href="#">Communicating Climate Change Science to the Public</a> Unstable Ground: A Hub to Communicate How the Arctic Is Changing Woods Hole Research Centre Climate Collection: Lever	SDCC, Room 25 B
-------------------	---------------------------	---	-----------------

## Industry-Focused Sessions and Technical Workshops (TW)

#### Tuesday, July 12

10:00 AM-11:00 AM	TW: Spatial Data Science in ArcGIS: An Overview	SDCC, Ballroom 06 C
2:30 PM-3:30 PM	TW: Python in ArcGIS: An Overview	SDCC, Ballroom 06 F

#### Wednesday, July 13

10:00 AM -11:00 AM	Evaluating the Impact of Climate and Market Changes on Real Estate Portfolios	SDCC - Room 27 A
4:00 PM-4:45 PM	Analyzing Multidimensional Features in ArcGIS	SDCC - Expo Demo Theater 01

#### Thursday, July 14

8:30 AM -9:30 AM	Remote Sensing Climate Change Analysis ArcGIS	SDCC - Room 25 B
------------------	---	------------------

8:30 AM-9:30 AM	Spatial Analysis and Data Science: The Road Ahead	SDCC - Room 33 ABC
10:00 AM-11:00 AM	Imagery in ArcGIS: Change, Trend and Pattern Analysis using Multidimensional Data	SDCC - Room 04
10:00 AM-11:00 AM	TW: ArcGIS Insights: Data Analysis, Visualization and Science	SDCC - Room 05 A
11:30 AM -12:30 PM	NASA Earth Science User Group	SDCC - Room 24 C
12:15 PM -12:35 PM	ArcGIS: Open Science Data Format Support	SDCC - Expo - Open Platform: Standards & Interoperability Spotlight Theater
1:00 PM- 2:00 PM	Applying Spatial Data Science: A Complete Workflow	SDCC - Room 09
1:15 PM-2:00 PM	Big Data, Spatial Analytics and Machine Learning Workflows and Applications	SDCC - Expo Demo Theater 01
2:30 PM- 3:30 PM	TW: GIS and Climate Resiliency	SDCC - Room 28 D
2:30 PM- 3:30 PM	TW: Data Engineering and Visualization for Spatial Data Science	SDCC - Room 31 ABC
4:00 PM -5:00 P.M.	TW: Data Engineering and Visualization for Spatial Data Science	SDCC - Room 16 A

### Friday, July 15

8:30 AM -9:30 AM	TW: Remote Sensing Climate Change Analysis ArcGIS	SDCC - Room 25 B
------------------	---	------------------

## Demo Theater Presentations and Expo Spotlight Talks

### Tuesday, July 12

10:00 AM-10:20 AM	Climate Action & Pollution Prevention: Recycling 'Traceability as a Service' with Digital Twins	SDCC - Expo - Startup Zone Spotlight Theater
10:00 AM-10:45 AM	Living Atlas: A Tour of Climate Data Resources	SDCC - Expo Demo Theater 04
10:00 AM-10:45 AM	ArcGIS Notebook Server: An Introduction	SDCC - Expo Demo Theater 02
12:15 PM -12:35 PM	Open Science and ArcGIS	SDCC - Expo - Open Platform: Standards & Interoperability Spotlight Theater
12:15 PM -1:00 PM	Big Data, Spatial Analytics, Machine Learning Workflows, and Applications	SDCC - Featured Expo Demo Theater

### Thursday, July 14

11:15 AM-12:00 PM	Spatial Data Science with ArcGIS Notebooks	SDCC - Expo Demo Theater 01
4:00 PM-4:20 PM	Spatiotemporal Data Fusion At Scale with Geodesic	SDCC - Expo - Startup Zone Spotlight Theater

## Don't Miss These Activities

<b>Esri UC Plenary Session</b>	Monday, July 11	8:30 AM-3:30 PM	SDCC – EXHIBIT HALLS FGH
<b>Map Gallery Reception</b>	Monday, July 11	4:00 PM-6:00 PM	SDCC – SAILS PAVILION
<b>Science Symposium</b>	Tuesday, July 12	4:00 PM-6:30 PM	SDCC - BALLROOM 20 D
<b>Esri Awards Ceremony</b>	Wednesday, July 13	3:30 PM-5:30 PM	SDCC – BALLROOM 20 B/C/D
<b>Thursday Night Party</b>	Thursday, July 14	5:30 PM-10:00 PM	BALBOA PARK
<b>Closing Session</b>	Friday, July 15	10:30 AM-NOON	SDCC -BALLROOM 20 B/C/D