

Primary Section / Focus Group	Session Number	Session Title	Co-Organized
Atmospheric Sciences	<a href="#">A028</a>	Combining Physical Simulation and Machine Learning across Geophysical Sciences	B,H,S
Atmospheric Sciences	<a href="#">A030</a>	Constraining Biosphere-Atmosphere Exchange Processes using Remote-sensing and In Situ Observations	B
Atmospheric Sciences	<a href="#">A031</a>	Coupled processes of environmental prediction models	C,GC,H,OS
Atmospheric Sciences	<a href="#">A038</a>	Dust in the High Latitudes: Local Sources, Remote transport, Paleorecords, and Impacts	PP
Atmospheric Sciences	<a href="#">A042</a>	Extratropical and High-latitude Storms, Teleconnections, Extreme Weather, and the Changing Polar Climate	C,GC,H,OS
Atmospheric Sciences	<a href="#">A050</a>	Improving our Mechanistic Understanding of the Regional Climate Response to Anthropogenic Aerosols	GC
Atmospheric Sciences	<a href="#">A053</a>	Land-Atmosphere Interactions and Biosphere-Boundary Layer Feedbacks	B,H
Atmospheric Sciences	<a href="#">A060</a>	Links between Arctic Cloud Processes and their Environment	C
Atmospheric Sciences	<a href="#">A072</a>	North Atlantic Climate Variability: Mechanisms, Predictability and Impacts	OS,PP
Atmospheric Sciences	<a href="#">A078</a>	Ocean-Atmosphere Coupling Over the North Atlantic: Processes, Global Teleconnections and Predictability	GC,OS
Atmospheric Sciences	<a href="#">A083</a>	Progress in Reanalysis: Development, Evaluation and Application	NG
Atmospheric Sciences	<a href="#">A096</a>	Science Observations Enabled by New Advances in Small Satellite Capability and Technology	IN,SA,SH,SM
Atmospheric Sciences	<a href="#">A106</a>	Tropospheric Composition in Cold Environments: Sources, Processes, and Impacts	C
Biogeosciences	<a href="#">B006</a>	Advancing Understanding of Hydrological and Biogeochemical Interactions in Terrestrial Ecosystems through Large-Scale Model Systems	H
Biogeosciences	<a href="#">B008</a>	Agricultural Systems: Links between Hydrology and Biogeochemical Cycling	H
Biogeosciences	<a href="#">B009</a>	Anthropogenic Impacts on Nutrient Cycling in Freshwater Ecosystems	GC,H
Biogeosciences	<a href="#">B014</a>	Biomarkers from Source to Sink - Bridging the Transition from Empirical Relationships to Mechanistic Theory	PP

Biogeosciences	<a href="#">B048</a>	Multi-scale measurements and modeling of greenhouse gas (CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O) emissions from livestock, grasslands and croplands	A,GC
Biogeosciences	<a href="#">B049</a>	Natural and Anthropogenic Cycles of Technology-Critical Elements: Geologic Sources and Environmental Impacts	H,V
Biogeosciences	<a href="#">B050</a>	Natural wetlands, inland waters and the global methane cycle: Time to reconcile top-down atmospheric estimates and bottom-up biogeochemical estimates of methane emissions	A
Biogeosciences	<a href="#">B051</a>	Novel Insights into Organic Matter Sources, Pathways and Fate in Groundwater and Surface Waters	H
Biogeosciences	<a href="#">B070</a>	The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change	A
Biogeosciences	<a href="#">B075</a>	Understanding plant and ecosystem function across scales through the lens of plant hydraulics	H
Biogeosciences	<a href="#">B078</a>	Unraveling Hydro-Biogeochemical Dynamics across Tidally-Influenced Terrestrial-Aquatic Interfaces	EP
Cryosphere	<a href="#">C001</a>	A Decade of Structure from Motion: Shaping Advances in Surface Process Understanding	EP,NH,P
Cryosphere	<a href="#">C004</a>	Altimetry of the polar regions	OS
Cryosphere	<a href="#">C010</a>	Diagnosis of Hydrological Change in Cold Regions	H
Cryosphere	<a href="#">C012</a>	Foundations for Sustained Arctic Observing: Connecting Observational Networks to Societal Benefit	SI
Cryosphere	<a href="#">C025</a>	Polar Climate: Processes & Predictability	A,GC,OS
Cryosphere	<a href="#">C029</a>	Recent Developments in Cryoseismology	S
Cryosphere	<a href="#">C030</a>	Records of Post-LGM Antarctic Ice Sheet Contraction	OS,PP
Cryosphere	<a href="#">C034</a>	Remote Sensing of the Cryosphere: NASA SnowEx and Multisensor Approaches to Measure Snow Water Equivalent	H
Cryosphere	<a href="#">C037</a>	Societal Impacts of Global Cryosphere Change and Associated Mitigation and Adaptation Policies	SI
Cryosphere	<a href="#">C039</a>	The Looming Gap in Microwave Radiometer Coverage and its Potential Impact on Climate Records	A,B,H,OS
Study of Earth's Deep Interior	<a href="#">DI001</a>	Advances in Computational Geosciences	T
Study of Earth's Deep Interior	<a href="#">DI002</a>	Advances in Understanding Earth's Dynamic Processes using Seismic Anisotropy	T

Study of Earth's Deep Interior	<a href="#">DI003</a>	A Perfect Match: Bringing Together Models of Fluid Mechanics and Thermodynamics to Understand Geochemical and Petrological Observations	V
Study of Earth's Deep Interior	<a href="#">DI004</a>	Connecting the evolution of the Earth's magnetic field and the dynamics of the deep interior	GP
Study of Earth's Deep Interior	<a href="#">DI009</a>	Interdisciplinary Perspectives on Mantle Melting and Volcanism	MR,S,V
Study of Earth's Deep Interior	<a href="#">DI014</a>	Probing Planetary Interiors Beyond Earth: Evolution Through Time and Space	P
Education	<a href="#">ED004</a>	Climate Literacy in Higher Education: Challenges and Opportunities	GC,SI
Education	<a href="#">ED012</a>	Concepts for Research Oriented Teaching and Data Management in the Digital Age	IN
Education	<a href="#">ED013</a>	Crowdsourcing and the Great American Eclipse of 2017: A new approach for integrating research, technology and education	A,ED,IN,PA
Education	<a href="#">ED015</a>	Diversity in the Geoscience Community: Expansion is Necessary	PA,SI
Education	<a href="#">ED020</a>	Field Geodesy in Undergraduate Education: Using Photogrammetry, Lidar, Sonar, and GPS to Promote Spatial Learning	EP,G
Education	<a href="#">ED021</a>	Field Geodesy in Undergraduate Education: Using 3-D Point Clouds from SfM, Lidar, and Sonar and GPS Positioning to Promote Spatial Learning	EP,G
Education	<a href="#">ED025</a>	Indigenous and Climate Science Partnerships: Developing Pathways from Knowledge to Collaborative Actions	GC,NH,SI
Education	<a href="#">ED030</a>	New Approaches to Citizen Science: Intersection of Outreach, Crowd-Sourced Data and Scientific Research	SH
Education	<a href="#">ED036</a>	Sharing the story, the science, and the adventure of NASA's scientific explorations.	EP,IN,P,V
Education	<a href="#">ED039</a>	The Role of the Arts in Geoscience Teaching and Learning	PA
Education	<a href="#">ED044</a>	Virtual Community Platforms and Data Tools for Enabling Geoscience Research and Education	IN
Earth and Planetary Surface Processes	<a href="#">EP005</a>	Carbonate Sediments Through Time: Processes of Deposition and Diagenesis	B
Earth and Planetary Surface Processes	<a href="#">EP014</a>	Emerging Technologies and Advances in Identifying Catchment Sediment Sources	H

Earth and Planetary Surface Processes	<a href="#">EP015</a>	Extraterrestrial Tracers and Materials in Sediments: Techniques, Approaches, and New Discoveries	P
Earth and Planetary Surface Processes	<a href="#">EP018</a>	Fluvial Systems in the Anthropocene: Innovative Methods for Analysing Biophysical Data in Rivers Co-evolving with Human Activities	H
Earth and Planetary Surface Processes	<a href="#">EP027</a>	Linking sediment transport and geophysical flows to planetary surface evolution	P
Earth and Planetary Surface Processes	<a href="#">EP048</a>	The Interplay of Cohesive Sediment Dynamics and Hydrodynamics in the Coastal Riverine Zone to the Outer Reaches of the Continental Shelf	OS
Earth and Planetary Surface Processes	<a href="#">EP052</a>	Unmanned Aircraft Systems for Observing and Analyzing Coastal Systems	IN
Geodesy	<a href="#">G006</a>	Geodetic imaging and interpretation of the seismic cycle	T
Geodesy	<a href="#">G008</a>	Glacial Isostasy, Sea Level and Earth System Evolution	OS
Geodesy	<a href="#">G013</a>	Near-Surface Structure and the Mechanics of Shallow Fault Slip	S,T
Global Environmental Change	<a href="#">GC004</a>	Afforestation and Reforestation: Drivers, Dynamics, and Impacts	A,B,H
Global Environmental Change	<a href="#">GC007</a>	Asia's Non-CO <sub>2</sub> Greenhouse Gas Dynamics under a Changing Environment: Measurement, Experiment, and Modeling	A,B
Global Environmental Change	<a href="#">GC011</a>	Carbon feedbacks in Earth's climate system: using ocean and land variability to diagnose critical carbon cycle processes	A,B,OS
Global Environmental Change	<a href="#">GC015</a>	Climate Drivers of Infectious Disease: Past, Present and Future	PA
Global Environmental Change	<a href="#">GC016</a>	Climate Extremes Indicators and Their Implications in Impact Modelling Studies	NH,SI
Global Environmental Change	<a href="#">GC019</a>	Climate Intervention: Is Geo-engineering in Earth's Future?	B,PA,SI
Global Environmental Change	<a href="#">GC028</a>	Earth's energy imbalance and energy flows through the climate system	A,OS
Global Environmental Change	<a href="#">GC029</a>	Environmental research infrastructures as tools to address global challenges	A,B,OS,SI
Global Environmental Change	<a href="#">GC033</a>	From Points to Pixels: Land Management and Land Use Change in Livestock Agroecosystems	B
Global Environmental Change	<a href="#">GC035</a>	Global and regional water-food-energy security under changing environments	H

Global Environmental Change	<a href="#">GC038</a>	Hot Droughts and Hotter Extremes: Investigating Changes in Extreme Events in Hydrology, Aquatic Biogeochemistry, and Ecosystems	A,B,H
Global Environmental Change	<a href="#">GC046</a>	Interdependence of Coupled Human and Natural Systems around the World	GC
Global Environmental Change	<a href="#">GC049</a>	Mechanisms and Impacts of Natural and Anthropogenic Tropical Pacific Decadal Variations and Trends	A,OS,PP
Global Environmental Change	<a href="#">GC050</a>	Monitoring Coastal Change: Physical, Biological, and Chemical Dynamics on the Coast	B,EP
Global Environmental Change	<a href="#">GC054</a>	Observation and Modeling of Processes and Feedbacks Contributing to Arctic Amplification and Its Global Linkages	C,OS
Global Environmental Change	<a href="#">GC057</a>	People and Pixels 20 <sup>th</sup> Anniversary: Advances in the Use of Remote Sensing in the Social Sciences	NH
Global Environmental Change	<a href="#">GC060</a>	Progress in quantifying impacts of land use and land cover change in a changing climate using Earth system modes	B,H,SI
Global Environmental Change	<a href="#">GC064</a>	Renewable Energy: Solar and Open Topics	A,H,PA
Global Environmental Change	<a href="#">GC065</a>	Renewable Energy: Wind	H,PA
Global Environmental Change	<a href="#">GC066</a>	Renewable Energy: Marine and Hydrokinetic	A,H,PA
Global Environmental Change	<a href="#">GC076</a>	The Sustainability and Resilience of Coastal Systems: Creating Synergy Among Federal, State, and NGO Initiatives	EP
Global Environmental Change	<a href="#">GC078</a>	The 2 <sup>nd</sup> State of the Carbon Cycle Report (SOCCR-2): A Special Assessment of the Last Decade of Carbon Cycle Science in North America and Adjoining Oceans	A,B,OS,SI
Global Environmental Change	<a href="#">GC081</a>	Urban Areas and Global Change	A,GC
Geomagnetism, Paleomagnetism and Electromagnetism	<a href="#">GP001</a>	Advances in Bio-geomagnetism	B
Geomagnetism, Paleomagnetism and Electromagnetism	<a href="#">GP008</a>	Magnetic and Geodetic Investigations of the Crust and Mantle of Earth and Other Planetary Bodies	G
Geomagnetism, Paleomagnetism and Electromagnetism	<a href="#">GP009</a>	Magnetic Mineral Authigenesis and Diagenesis in Sediments	B
Geomagnetism, Paleomagnetism and Electromagnetism	<a href="#">GP012</a>	Planetary Magnetism and Paleomagnetism	P
Geomagnetism, Paleomagnetism and Electromagnetism	<a href="#">GP016</a>	The magnetism of faults and shear zones	T
Hydrology	<a href="#">H002</a>	Addressing Cross-Cutting Subsurface Energy Challenges: Dedicated Field Observatories	S

Hydrology	<a href="#">H006</a>	Advances in ecohydrology of water-stressed environments	B,GC
Hydrology	<a href="#">H011</a>	Advances in Integrated Observations, Modeling and Predictions for Weather, Climate and Impact Assessments	NH
Hydrology	<a href="#">H013</a>	Advances in petrophysics for hydrogeophysics and near surface geophysics	NS
Hydrology	<a href="#">H016</a>	Advances in Understanding Land-Atmosphere Interactions in a Changing Environment	A
Hydrology	<a href="#">H018</a>	Amazon river basin evapotranspiration and its influence on the rainfall in southern Brazil	GC
Hydrology	<a href="#">H024</a>	Blue and Green Water in Cold Mountains: Changes in Climate, Hydrologic Regimes, Extreme Events, and Ecological Responses	C,GC
Hydrology	<a href="#">H029</a>	Characterization, Modeling, and Remediation of Carbonate and Karst Systems in a Changing Environment	A,B,GC,OS
Hydrology	<a href="#">H030</a>	Comparative Disturbance Hydrology: Hydrologic and Geomorphic Effects of Wildland Fire and Other Disturbances from Point to Regional Scales	EP
Hydrology	<a href="#">H034</a>	Coupled Biogeochemical and Hydrological Processes in Permafrost-Affected Landscapes	B
Hydrology	<a href="#">H035</a>	Coupled chemical and physical processes during fluid-rock interaction	EP,MR,NG,V
Hydrology	<a href="#">H045</a>	Ecohydrological Insights From Spatial Patterns	B
Hydrology	<a href="#">H046</a>	Ecohydrology and Biogeochemical Processes in Savannas and Woodlands	B
Hydrology	<a href="#">H049</a>	Era of Water Crisis in the Southeastern U.S.: Attributions, Impacts, and Projections	NH
Hydrology	<a href="#">H051</a>	Extreme climate events prediction over West Africa using a coupled model	A
Hydrology	<a href="#">H055</a>	Geo-Architected Materials for Unraveling the Complexity of Rock	MR,T,V
Hydrology	<a href="#">H057</a>	Global hydrological extremes: from intense rainfall to flash flood	A,GC,NH,SI
Hydrology	<a href="#">H065</a>	Hydrological Carry-Over in the Critical Zone and Feedbacks to Climate	A,B
Hydrology	<a href="#">H067</a>	Hydrologic Dynamics, Complexity and Predictability: Physical and Analytical Approaches for Improving System Understanding and Prediction	NG

Hydrology	<a href="#">H077</a>	Interfacing Hydrology and Microbiology: Combining Hydrologic Tools with Microbiological Methods to Study Subsurface Ecosystems	B
Hydrology	<a href="#">H081</a>	Linking dynamic hydrologic and biogeochemical processes in watershed systems	B
Hydrology	<a href="#">H082</a>	Machine Learning Applications in Earth Science and Remote Sensing	A,B,C,GC
Hydrology	<a href="#">H086</a>	Modeling the Critical Zone: Integrating Processes and Data Across Disciplines and Scales	B,EP,GC
Hydrology	<a href="#">H088</a>	Multi-hypothesis modeling of ecological and hydrological systems	B
Hydrology	<a href="#">H093</a>	Pore-scale Flow and Transport in Porous Media: recent experimental and modeling advances	MR
Hydrology	<a href="#">H098</a>	Pursuing Water Security in Socio-Hydrological Systems	SI
Hydrology	<a href="#">H108</a>	Runoff Generation in Snow Dominated Regions: Connecting Seasonal Snowpacks and Streamflow Response	C
Hydrology	<a href="#">H110</a>	Science to Action: What is the Role of Climate Science and the Climate Scientist in Robust Decisions?	PA,SI
Hydrology	<a href="#">H114</a>	Sources, Fate, and Transport of Metals, Metalloids, and Rare Earth Elements in Surface Waters	B
Hydrology	<a href="#">H121</a>	The MacGyver Session. The Place for Novel, Exciting, Self Made, Hacked or Improved Sensors, Data Acquisition and Data Transmission Solutions to Understand The Geosphere.	B,C
Hydrology	<a href="#">H131</a>	Utilizing Long-Term Precipitation Data Records for Understanding Climate Extremes	A,GC,NH
Hydrology	<a href="#">H134</a>	Water and Society: From Drought Models to Water Security Under Climate Change and Policy.	A,ED,GC,PA
Hydrology	<a href="#">H146</a>	Weather/Climate Ensembles and Statistical Downscaling for Hydrologic prediction systems: Methods, Process Understanding and Applications	A,GC
Hydrology	<a href="#">H148</a>	Yesterday is History, The Future is a Mystery: Legacy Effects of Land Use on Water Quality	B
Earth and Space Science Informatics	<a href="#">IN016</a>	Computationally-Intelligent Solutions for Resource Questions in Earth Science	H
Earth and Space Science Informatics	<a href="#">IN019</a>	Data and Tools for Knowledge Discovery around the Energy-Water Nexus	GC,H,PA,SI

Earth and Space Science Informatics	<a href="#">IN035</a>	Increasing the bandwidth of imaging-data-to-research pipelines	H,MR
Earth and Space Science Informatics	<a href="#">IN036</a>	Intelligent Systems for Geosciences: Accelerating Discovery and Building Community	A
Earth and Space Science Informatics	<a href="#">IN043</a>	Monitoring Extreme Climate Events and Impacts using Remote Sensing	NH
Earth and Space Science Informatics	<a href="#">IN048</a>	Planetary Data System: New Developments in Data Archiving	ED
Earth and Space Science Informatics	<a href="#">IN050</a>	Quality and Trustworthiness of Earth Science Data	A,B,GC,OS
Earth and Space Science Informatics	<a href="#">IN054</a>	Space Weather and Earth Informatics	A,EP,GP,OS
Earth and Space Science Informatics	<a href="#">IN058</a>	Where We Live and Work: Improving Data and Models for Human Settlements, Infrastructure, and Population Distribution	GC,NH
Mineral and Rock Physics	<a href="#">MR021</a>	Precursory deformation before dynamic failure	S,T
Nonlinear Geophysics	<a href="#">NG001</a>	Advances in Data Assimilation, Predictability and Uncertainty Quantification	A
Nonlinear Geophysics	<a href="#">NG007</a>	Geophysical Fluid Dynamics	A,DI,OS,P
Nonlinear Geophysics	<a href="#">NG011</a>	Stochastic Modelling in Atmosphere, Ocean, and Climate Dynamics	A,GC,H,OS
Nonlinear Geophysics	<a href="#">NG012</a>	Urban and geophysical system Interactions: Did we learn from Katrina and other events?	H,NH
Natural Hazards	<a href="#">NH005</a>	Dams and Reservoirs - Natural Hazards, Risks, and Solutions	H,PA,SI
Natural Hazards	<a href="#">NH007</a>	Drilling Magma Chambers	V
Natural Hazards	<a href="#">NH009</a>	Extreme Space Weather Benchmarks: Phase 1 Update and Next Steps	PA,SH,SI,SM
Natural Hazards	<a href="#">NH010</a>	Forecasting and early warning systems for water-related natural hazards: recent advances and outstanding challenges	H
Natural Hazards	<a href="#">NH013</a>	Global Navigation and Constellation Satellite Systems for Geoscience and Natural Hazards	G,OS,S
Natural Hazards	<a href="#">NH017</a>	Ionospheric and Atmospheric Responses to Earth's Surface Disturbances	SA
Natural Hazards	<a href="#">NH020</a>	Pre-Earthquake processes: An interdisciplinary approach to Earthquake prediction studies	A,GP,SA
Natural Hazards	<a href="#">NH021</a>	Subsidence: Causes, Impacts, Mapping and Ground/Satellite Monitoring	G,H,S,T

Natural Hazards	<a href="#">NH022</a>	(Un)natural Hazards: Aging US Dams and Levees -Monitoring, Maintenance, Renewal, and Risk	H,PA
Natural Hazards	<a href="#">NH024</a>	Wicked Problems and Deep Uncertainties: Tough Challenges in Natural Hazard Assessment and Mitigation	G,T
Near Surface Geophysics	<a href="#">NS004</a>	Geophysical characterization of coupled cold regions hydrology and permafrost dynamics	H
Near Surface Geophysics	<a href="#">NS007</a>	Induced Seismicity in the USA and Canada: Novel Geophysical Methods and Mitigation	S
Near Surface Geophysics	<a href="#">NS010</a>	Open-Source Software in the Geosciences	GP
Ocean Sciences	<a href="#">OS001</a>	Altimetry in the Coastal Zone: Techniques, Applications and Synergies with Models	G
Ocean Sciences	<a href="#">OS003</a>	Current Perspectives on Biogeochemistry and Socioeconomics of Groundwater–Surface Water Interactions in the Gulf Coast Region	B,GC,H
Ocean Sciences	<a href="#">OS009</a>	High-Resolution Coupled and Uncoupled Atmosphere-Ice-Ocean Modeling for Short-Range to Seasonal Forecasting	A
Ocean Sciences	<a href="#">OS022</a>	Serpentinite Materials: From Mantle to Microbes and Everything In Between	B,V
Planetary Sciences	<a href="#">P006</a>	Planetary Habitability and the Main Control Factors.	GP,SA,SH,SM
Planetary Sciences	<a href="#">P008</a>	Connecting Cryospheres on Earth and Beyond: Geological & Chemical Processes on Icy Surfaces	C
Planetary Sciences	<a href="#">P009</a>	Cryospheres of Terrestrial Planets	C
Planetary Sciences	<a href="#">P014</a>	From the Earth to the Moons: Ice-ocean systems on Earth and Ocean Worlds	C,OS
Planetary Sciences	<a href="#">P019</a>	Investigating mineral-organic interactions relevant to astrobiological systems on Mars and other planetary bodies	EP,OS,PP
Planetary Sciences	<a href="#">P021</a>	Ionospheric Outflow From Earth and Other Terrestrial Planets	SM
Planetary Sciences	<a href="#">P023</a>	Juno's Exploration of Jupiter and the Earth-based Collaborative Campaign	A,SH,SM
Planetary Sciences	<a href="#">P032</a>	Pluto and Charon in the Rear View, MU69 Dead Ahead off the Starboard Bow	SM
Planetary Sciences	<a href="#">P040</a>	The Chicxulub Impact and the Cretaceous/Paleogene Boundary: New Findings and Perspectives	PP,T
Public Affairs	<a href="#">PA009</a>	Communication of Science - Practice, Research and Reflection	C,ED,GC,SI
Public Affairs	<a href="#">PA026</a>	Science to Action: Building Novel and Transformative Partnerships Toward Decision-Relevant Science	GC,SI

Public Affairs	<a href="#">PA028</a>	Science to Action: Research to Applications (R2A) to Enhance Subseasonal-to-Seasonal Water Supply and Drought Outlooks	H,SI
Public Affairs	<a href="#">PA032</a>	Science to Decision-Making: Using the Environmental Intelligence Framework to Constrain the Arctic Carbon Budget	A,GC,OS
Public Affairs	<a href="#">PA033</a>	Strategies to Promote Sustainable Desalination Capacity Development for Non-traditional Water Use and Reuse	GC
Public Affairs	<a href="#">PA036</a>	Water and Society: The Future of America's Water: Understanding the landscape of water risks, and addressing the associated societal and economic impacts	H
Paleoceanography and Paleoclimatology	<a href="#">PP005</a>	Chronostratigraphic Advances in the Radiocarbon Era: Integrating Paleomagnetism, Tephra, Climate Correlation, and Other Stratigraphic Methods	GP
Paleoceanography and Paleoclimatology	<a href="#">PP013</a>	Development and Application of Coral Proxies for Ocean Change	OS
Paleoceanography and Paleoclimatology	<a href="#">PP017</a>	Emiliani Lecture	OS
Paleoceanography and Paleoclimatology	<a href="#">PP021</a>	Global Change During and After the K-Pg and P-E Transitions	GC,GP
Paleoceanography and Paleoclimatology	<a href="#">PP023</a>	Integrating Data and Models in Paleoclimatology and Paleoecology: Current Approaches, Emerging Challenges, and Next Steps	B
Paleoceanography and Paleoclimatology	<a href="#">PP027</a>	Linking Palaeoclimatic Information from Natural Archives and Instrumental Data: Forcing Factors on Climatic Variability	A,H
Paleoceanography and Paleoclimatology	<a href="#">PP031</a>	Paleoceanography Insights Using the Carbonate System	B,EP,GC,OS
Paleoceanography and Paleoclimatology	<a href="#">PP036</a>	Seasonality: Past, Present and Future	B
Paleoceanography and Paleoclimatology	<a href="#">PP038</a>	Subantarctic Insights Into Climate, Ocean, Environmental, and Ecosystem Change	B
Paleoceanography and Paleoclimatology	<a href="#">PP040</a>	The Climatic and Oceanic Interactions of the Tropical–Subtropical Atlantic Region: A Paleoclimate Perspective	GC,OS
Seismology	<a href="#">S010</a>	Frontiers of uncertainty quantification in geoscientific inversion	DI,GP,H,NS
Seismology	<a href="#">S013</a>	Fiber-Optic Distributed Acoustic Sensor (DAS) for Geophysical and Industrial Applications	H,NS,OS,V
Seismology	<a href="#">S017</a>	Multi-fault, multi-segment ruptures in complex tectonic regimes	T
Seismology	<a href="#">S024</a>	Physical Origin of Aftershocks, Foreshocks and Multiplets in Seismology, Lab Experiments and Across Disciplines	NG

Seismology	<a href="#">S025</a>	Earthquake source: from the laboratory to the field	MR,T,V
Seismology	<a href="#">S027</a>	Induced Seismicity in the United States and Canada	H,NG,T
Seismology	<a href="#">S029</a>	Understanding the influence of near-surface materials on seismic wave amplitudes: Methods for measuring, modeling and using site response	NS
Seismology	<a href="#">S033</a>	Subduction Zone Structure and Interplate Slip along the Pacific Margin of South America	G,NH,T
Seismology	<a href="#">S034</a>	Geophysical Parameter Estimation of the Very Upper Crust: Perspectives from the Field, Lab, and Mind	MR
Seismology	<a href="#">S037</a>	Seismic anisotropy and deformation in the continental crust	T
SPA-Aeronomy	<a href="#">SA003</a>	Applications of Space Weather Research	SH,SM
SPA-Aeronomy	<a href="#">SA010</a>	Ion Upflow/Outflow Physics and Their Effects on the Coupled Magnetosphere-Ionosphere System	SM
SPA-Aeronomy	<a href="#">SA012</a>	Large and Small Scale Drivers and Responses in the Ionosphere Thermosphere System	SH,SM
SPA-Aeronomy	<a href="#">SA014</a>	Geomagnetic Storms, Substorms, and Sub-Auroral Polarization Streams: Towards a Synthesis of Observations, Theory, and Modeling in Magnetosphere-Ionosphere-Thermosphere (M-I-T) Coupling	SM
SPA-Solar and Heliospheric Physics	<a href="#">SH012</a>	Space Weather Forecasting: Science, Operations, Future Missions, Missing Information, and the Economic Case.	SM
SPA-Solar and Heliospheric Physics	<a href="#">SH013</a>	Facing and Understanding Particle Radiation in Expanding Human Access to Space	P
SPA-Solar and Heliospheric Physics	<a href="#">SH017</a>	Enabling Breakthrough Science With "High-Bandwidth" Satellite Communications	A,NH,P,SM
SPA-Solar and Heliospheric Physics	<a href="#">SH018</a>	Novel Instrument Techniques for Space Plasma: In-situ and Remote Sensing	P,SA,SM
SPA-Solar and Heliospheric Physics	<a href="#">SH022</a>	Statistical Mechanics and Distributions in Space Plasmas	SM
SPA-Solar and Heliospheric Physics	<a href="#">SH024</a>	Energy Dissipation and Particle Energization in Turbulent Plasmas	SM
SPA-Solar and Heliospheric Physics	<a href="#">SH030</a>	The Interstellar Probe Mission: Drivers, Definition and Implementations for Embarking on Interstellar Voyages Before 2050	P
SPA-Solar and Heliospheric Physics	<a href="#">SH032</a>	SPA eLightning General Session - ePoster	SA,SM
SPA-Magnetospheric Physics	<a href="#">SM001</a>	Frontier solar-terrestrial science enabled by the combination of data-driven techniques and physics-based understanding	SA,SH

SPA-Magnetospheric Physics	<a href="#">SM002</a>	Assessment of Space Environment Models and Data: Validation Metrics, Frameworks, and Applications	SA
SPA-Magnetospheric Physics	<a href="#">SM003</a>	Visions of Future Innovation Across Space Physics and Aeronomy	SA,SH
SPA-Magnetospheric Physics	<a href="#">SM016</a>	Impact of heavy ions on magnetospheric processes	SA
SPA-Magnetospheric Physics	<a href="#">SM028</a>	Magnetospheres in the Inner Solar System	P
SPA-Magnetospheric Physics	<a href="#">SM029</a>	Magnetospheres in the Outer Solar System	P
SPA-Magnetospheric Physics	<a href="#">SM030</a>	Moon-Plasma Interactions Throughout the Solar System	P
Tectonophysics	<a href="#">T001</a>	Alpine-Mediterranean Investigations: Geology, Geophysics, and Geochemistry	V
Tectonophysics	<a href="#">T005</a>	Breaking Up is Never Easy: Why Do Some Rifts Fail and Others Succeed?	G,S
Tectonophysics	<a href="#">T013</a>	Exploring the Characteristics and Dynamics of Oceanic Plates Entering Subduction Zones	S,V
Tectonophysics	<a href="#">T016</a>	Geochemical Evolution of Convergent Margins from Asthenosphere to Atmosphere	V
Tectonophysics	<a href="#">T017</a>	Growth of the Himalayan-Tibetan Plateau: Timing, Geodynamic Drivers and Climatic Effects	A,V
Tectonophysics	<a href="#">T022</a>	Integrated view of the Gulf of California and adjacent western Mexico and U.S.A. plate boundary: Tectonics, geophysics, structure, volcanology, petrology, stratigraphy and sedimentology, paleontology, geomorphology, geochronology, ore deposits and hydrothermal vents, and marine geology	EP,OS,V
Tectonophysics	<a href="#">T027</a>	Multidisciplinary approaches to outstanding questions in Andean tectonics	S
Tectonophysics	<a href="#">T028</a>	New Insights On The Cascadia Subduction Zone From Offshore And Amphibious Studies	S
Tectonophysics	<a href="#">T031</a>	Rifting in Africa: How did it start and where does it end?	G,S
Tectonophysics	<a href="#">T033</a>	Shaping Slow- and Ultraslow-Spreading Seafloor with Faults, Magma, and Fluids.	V
Tectonophysics	<a href="#">T035</a>	Structure, evolution and influence of the Antarctic and Arctic lithosphere	C,G,GP,S
Tectonophysics	<a href="#">T036</a>	Subduction Dynamics Across the Scales	DI,G,S
Tectonophysics	<a href="#">T037</a>	Subduction Top to Bottom 2, with a Caribbean Flavor	NH,OS,S,V

Tectonophysics	<a href="#">T043</a>	The Influence of Fault Zone Structure on Plate Boundary Tectonics and Earthquakes	G,NG,NH,S
Tectonophysics	<a href="#">T045</a>	The Microphysics Of Plate Boundary Formation	MR
Tectonophysics	<a href="#">T048</a>	Visualizing the Solid Earth	DI,S,V
Union	<a href="#">U009</a>	How Safe and Persistent is your Research?	IN
Volcanology, Geochemistry and Petrology	<a href="#">V012</a>	From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements	B,S,T
Volcanology, Geochemistry and Petrology	<a href="#">V014</a>	Geological Reactive Systems from the Mantle to the Abyssal Sub-seafloor	B,GP,T
Volcanology, Geochemistry and Petrology	<a href="#">V015</a>	Giant Radial Dike Swarms	P
Volcanology, Geochemistry and Petrology	<a href="#">V016</a>	Integrated Constraints on the Geochemistry and Hydrogeology of Oceanic and Continental Hydrothermal Systems	H
Volcanology, Geochemistry and Petrology	<a href="#">V019</a>	Melt generation, transport, and extraction in the on- and off-axis mid-ocean ridge environment	OS
Volcanology, Geochemistry and Petrology	<a href="#">V025</a>	Partial Melting During High-grade Metamorphism: Implications for Orogenic Systems	T
Volcanology, Geochemistry and Petrology	<a href="#">V027</a>	Redox From the Surface to the Core over Earth History	DI,MR,T
Volcanology, Geochemistry and Petrology	<a href="#">V028</a>	Small Samples Yield Big Insights	MR
Volcanology, Geochemistry and Petrology	<a href="#">V029</a>	Spectroscopic analyses of mineral inclusions for petrologic investigations	T