

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

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

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

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

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

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

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

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

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

Public Affairs	PA028	Science to Action: Research to Applications (R2A) to Enhance Subseasonal-to-Seasonal Water Supply and Drought Outlooks	H,SI
Public Affairs	PA032	Science to Decision-Making: Using the Environmental Intelligence Framework to Constrain the Arctic Carbon Budget	A,GC,OS
Public Affairs	PA033	Strategies to Promote Sustainable Desalination Capacity Development for Non-traditional Water Use and Reuse	GC
Public Affairs	PA036	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	PP005	Chronostratigraphic Advances in the Radiocarbon Era: Integrating Paleomagnetism, Tephra, Climate Correlation, and Other Stratigraphic Methods	GP
Paleoceanography and Paleoclimatology	PP013	Development and Application of Coral Proxies for Ocean Change	OS
Paleoceanography and Paleoclimatology	PP017	Emiliani Lecture	OS
Paleoceanography and Paleoclimatology	PP021	Global Change During and After the K-Pg and P-E Transitions	GC,GP
Paleoceanography and Paleoclimatology	PP023	Integrating Data and Models in Paleoclimatology and Paleoecology: Current Approaches, Emerging Challenges, and Next Steps	B
Paleoceanography and Paleoclimatology	PP027	Linking Palaeoclimatic Information from Natural Archives and Instrumental Data: Forcing Factors on Climatic Variability	A,H
Paleoceanography and Paleoclimatology	PP031	Paleoceanography Insights Using the Carbonate System	B,EP,GC,OS
Paleoceanography and Paleoclimatology	PP036	Seasonality: Past, Present and Future	B
Paleoceanography and Paleoclimatology	PP038	Subantarctic Insights Into Climate, Ocean, Environmental, and Ecosystem Change	B
Paleoceanography and Paleoclimatology	PP040	The Climatic and Oceanic Interactions of the Tropical-Subtropical Atlantic Region: A Paleoclimate Perspective	GC,OS
Seismology	S010	Frontiers of uncertainty quantification in geoscientific inversion	DI,GP,H,NS
Seismology	S013	Fiber-Optic Distributed Acoustic Sensor (DAS) for Geophysical and Industrial Applications	H,NS,OS,V
Seismology	S017	Multi-fault, multi-segment ruptures in complex tectonic regimes	T
Seismology	S024	Physical Origin of Aftershocks, Foreshocks and Multiplets in Seismology, Lab Experiments and Across Disciplines	NG

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

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

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