

San Francisco, California
9-13 December 2019

Potentially newsworthy research being presented at the 2019 Fall Meeting selected by AGU's public information office.

Daily Recommendations

Presentation	Time	Building	Room	Subtopic
Monday, December 9, 2019				
<u>Monitoring Bat Activities at a Large Wind Farm Using an X-Band Radar and Infrared Cameras</u>				
B11F-2385	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Animals
<u>Snow Coupled Distributed Acoustic Sensing for Intrusion Detection of Polar Bears in Arctic Camps</u>				
NS11B-0634	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Animals
<u>The power of microbial life in marine sediments</u>				
B11K-2199	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Astrobiology
<u>Microbial communities in subsurface wet smectites in the hyperarid core of the Atacama Desert: Implications for the search for underground life on Mars with the 2021 rovers</u>				
P11C-3469	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Astrobiology
<u>Can the Lack of Lake Loading Explain the Earthquake Drought on the Southern San Andreas Fault?</u>				
S11F-0396	8:00 AM – 12:20 PM	Moscone South	Poster Hall	California
<u>What causes the spread of model projections of sea level change in response to greenhouse gas forcing?</u>				
GC11M-1176	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Climate change
<u>Implementation of a UAV-Based Aeromagnetic Survey System to Detect and Identify MBRL Unexploded Ordnance in Post-Conflict Areas.</u>				
EP11C-2128	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Conflict
<u>The political price of phasing out coal: An analysis of US Presidential Elections</u>				
PA11B-0946	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Policy
<u>Explaining Extreme Events in a Changing Climate</u>				
GC11B-02	8:15 AM – 8:30 AM	Moscone West	2005, L2	Policy
<u>The Rise of the Toxic Diatom Genus Pseudo-nitzschia in Monterey Bay, CA: A 1000-year Record of Nearshore Biogenic Sedimentation and Phytoplankton Productivity</u>				
OS11B-03	8:30 AM – 8:45 AM	Moscone West	2000, L2	California
<u>Global estimates of human migration from projected climate change</u>				
GC11A-03	8:30 AM – 8:45 AM	Moscone West	2020, L2	Climate migration
<u>Imaging the Solar Corona from Within: First Results from the Parker Solar Probe Telescope</u>				
SH11A-04	8:45 AM – 9:00 AM	Moscone South	211-212, L2	Space weather
<u>Simulating Tectonics on Uranus's Moons Ariel and Miranda</u>				
P11A-08	9:45 AM – 10:00 AM	Moscone South	213-214, L2	Planetary
<u>Can coastal changes in Greenland create prosperity for the country?</u>				
C12B-01	10:20 AM – 10:35 AM	Moscone West	2006, L2	Sand
<u>The life of smoke: how wildland fire aerosolizes viable microbial communities with atmospheric and terrestrial ramifications</u>				
A12D-02	10:35 AM – 10:50 AM	Moscone West	3006, L3	Microbes
<u>Multi-Region Assessment of Pharmaceutical Mixtures and Predicted Effects in Urban-Gradient, Headwater Streams Across the United States</u>				
GH12A-07	11:50 AM – 12:05 PM	Moscone West	2020, L2	Pharmaceuticals
<u>Sensitivity of shorefast ice breakup to a warming climate in Arctic communities</u>				
C12B-08	12:05 PM – 12:20 PM	Moscone West	2006, L2	Arctic

Presentation	Time	Building	Room	Subtopic
<u>Seabed Mapping on the Brazilian Equatorial Margin: A Great Brazilian Barrier Reef?</u>				
OS13C-1540	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ancient Reefs
<u>The Onyx River in The McMurdo Dry Valleys of Antarctica- Long-Term Record Reveals Influence of Climate Teleconnections on Streamflow and Aquatic Ecosystems</u>				
PA13B-1017	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Antarctic
<u>Reconstructing Human-landscape Interactions in Tectonically Active Regions</u>				
GC13G-1221	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Anthropology
<u>Evaluating the temporal range of ²³⁰Th/U burial dating of ostrich eggshell, a new chronometer for Pleistocene terrestrial strata</u>				
GC13A-01	1:40 PM – 1:55 PM	Moscone West	2003, L2	Anthropology
<u>Modeling the vulnerability of socio-ecological communities to groundwater shortages during drought at a regional scale</u>				
GH13D-1071	1:40 PM – 6:00 PM	Moscone South	Poster Hall	California
<u>Estimating the Health-Related Costs of Ten Climate-Sensitive US Events During 2012</u>				
GH13B-1053	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Can We Predict "Climate Migrations"? The 2018 Guatemalan Case</u>				
GC13E-1213	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate migration
<u>Rapid Expansion of Nuclear Arsenals by Pakistan and India Portends Regional and Global Catastrophes</u>				
GC13F-1191	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Conflict
<u>Potential triggering relationship between the 2009 Typhoon Morakot and earthquakes in Taiwan</u>				
S13D-0468	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Earthquake
<u>Radar-sounding evidence for a subglacial groundwater table in Hiawatha Crater, Greenland</u>				
C13C-1325	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Greenland
<u>On the Possibility of a Long Subglacial River Under the North Greenland Ice Sheet</u>				
C13C-1320	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Greenland
<u>Extreme Weather in the Context of Solar Wind Coupling to the Magnetosphere-Ionosphere-Atmosphere System</u>				
NH13B-0810	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Space weather
<u>Substantial Cloud Brightening from Shipping in Subtropical Stratocumulus Clouds</u>				
A13E-02	1:55 PM – 2:10 PM	Moscone West	3010, L3	Weather
<u>Iceberg, right ahead!: The surprising and ongoing collapse of an East Antarctic ice shelf in response to changes in the ocean environment</u>				
C13A-06	2:55 PM – 3:10 PM	Moscone West	2008, L2	Antarctic
<u>In the line of fire: Consequences of human-ignited wildfires to homes in the U.S. (1992-2015)</u>				
GC13B-06	2:55 PM – 3:10 PM	Moscone West	2020, L2	Fire
<u>Stratigraphy, Sedimentary Signatures, and Processes Associated with the Chicxulub Asteroid Impact in the Gorgonilla Island K/Pg Section</u>				
T13B-07	3:10 PM – 3:25 PM	Moscone South	155, Upper Mezz.	Chicxulub impact
<u>Applied geographic object based image analysis in UAV-based plastic landmine detection and identification</u>				
EP13A-07	3:10 PM – 3:25 PM	Moscone West	3011, L3	Conflict
<u>Human Magnetoreception as a Legacy of Earth's Magnetic Biosphere: Implications For High-Tech Civilizations</u>				
B13C-10	3:10 PM – 3:20 PM	Moscone West	3003, L3	Health
<u>Wildfire Smoke, Health, and Labor Market Outcomes</u>				
GC13B-08	3:25 PM – 3:40 PM	Moscone West	2020, L2	Fire
<u>Assessing Predictability and Risks of Change to Current Landscapes and Future Expansion of Intermittent, Renewable Energy Resources Through a Hybrid Diagnoses</u>				
GC13C-08	3:25 PM – 3:40 PM	Moscone West	2005, L2	Sustainability
<u>Unprecedented crop loss due to 2019 Midwest US flood quantified from Space</u>				
H14G-01	4:00 PM – 4:15 PM	Moscone West	2000, L2	Agriculture

Presentation	Time	Building	Room	Subtopic
<u>Hints of an Eoarchean magnetic field from the Isua Supracrustal Belt, Greenland</u>				
DI14A-02	4:15 PM – 4:30 PM	Moscone South	151, Upper Mezz.	Paleomagnetism
<u>Satellite Discovery of Anomalously Large Methane Point Sources from Oil/Gas Production Facilities</u>				
U14C-10	4:27 PM – 4:30 PM	Moscone South	eLightning Theater II	Fossil fuels
<u>Phasing Out Fossil Fuels: Socioenvironmental Priorities and Just Transitions for Extraction Communities</u>				
PA14A-09	5:09 PM – 5:17 PM	Moscone South	301-302, L3	Policy
<u>Was there a Meghalayan outside of Meghalaya? Insights from a speleothem coherency analysis.</u>				
GC14A-06	5:15 PM – 5:30 PM	Moscone West	2003, L2	Paleoclimate
<u>Observations of an Episodic Coastal Cliff Erosion Sequence in Del Mar, California</u>				
EP14A-08	5:45 PM – 6:00 PM	Moscone West	3009, L3	California
<u>How Local Health Departments are Preparing for the Combined Impacts of Extreme Heat, Wildfire Smoke, and Power Disruption</u>				
GH14A-08	5:45 PM – 6:00 PM	Moscone West	2020, L2	California
<u>The Cape Town “Day Zero” drought and Hadley cell expansion.</u>				
H14E-08	5:45 PM – 6:00 PM	Moscone West	3022, L3	Weather
Tuesday, December 10, 2019				
<u>High-Affinity Trace Gas Consumption by Soil Microbial Communities Around Hot Springs in the Andean Altiplano with Implications for Early Mars</u>				
P21E-3418	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Astrobiology
<u>High-Resolution Modeling of Extreme Heat in Urban Areas in Canada</u>				
GC21I-1371	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Climate change
<u>Fossil fuel combustion is driving indoor CO2 toward levels harmful to human cognition</u>				
GC21I-1369	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Climate change
<u>Effects of Dispersed Oil on Marine Plankton and Planktonic Food Webs in the Gulf of Mexico</u>				
OS21D-1761	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Fossil fuels
<u>Health Effects Associated with Remotely Sensed Cyanobacteria Blooms in a Drinking Water Reservoir</u>				
GH21B-1193	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Health
<u>Impact of Climate Change on Non-Communicable Diseases like Depression in India</u>				
GH21C-1223	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Health
<u>Combining satellite remote sensing, chemical transport modeling, and land use regression models to estimate long term trends in global burden of NO2 on pediatric asthma incidence</u>				
GH21B-1200	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Health
<u>How Likely is an El Niño to Break Global Mean Surface Temperature Record during the 21st Century?</u>				
GC21C-1260	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Heat
<u>Excess Heat Factor and heated-related deaths in U.S.</u>				
GC21C-1269	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Heat
<u>Tracing anthropogenic trace element contamination from of natural and human systems in the South Pacific using honey bees as a key biomarker</u>				
GH21C-1224	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Metals
<u>Estimation of premature mortality associated with the PM2.5 exposure in China</u>				
GH21B-1205	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Particulates
<u>PM2.5 pollution induced morbidity burdens and the associated economic costs in Asian countries</u>				
GH21C-1220	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Particulates
<u>A Multi-Spectral Analysis of Recent Perturbations to Jupiter’s Great Red Spot in 2019</u>				
P21G-3445	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Planetary
<u>Green Roofs to mitigate the urban extreme precipitation events? An experimental study over Mumbai, India</u>				
GC21I-1370	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Sustainability

Presentation	Time	Building	Room	Subtopic
<u>Understanding relationships between demography and climate change to improve urban resiliency: A case study</u>				
A21P-2849	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Sustainability
<u>Fire and ice: Anak Krakatau triggers volcanic freezer in the upper troposphere</u>				
A21K-2819	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Volcano
<u>Deposition and Detectability of Deltas on Titan</u>				
P21C-04	8:45 AM – 9:00 AM	Moscone South	301-302, L3	Planetary
<u>San Miguel Island Cave Middens DNA Metabarcoding and Shotgun Sequencing Reveal a Rich Diversity of the Early American's Candidate Foods</u>				
B21E-05	9:00 AM – 9:15 AM	Moscone West	3012, L3	California
<u>Virtual Reality for Disaster Resilience (VR4DR)</u>				
IN21B-09	10:00 AM – 10:15 AM	Moscone South	eLightning Theater III	Natural Hazards
<u>A Major Shift in the Southern Ocean Climate System and the Role of Sea Ice</u>				
C22B-02	10:35 AM – 10:50 AM	Moscone West	2003, L2	Climate change
<u>Importance of Water Operations and Water Rights in Assessing Future Climate Impacts</u>				
H22E-04	11:05 AM – 11:20 AM	Moscone West	3022, L3	Policy
<u>Hiatus and Heatwaves: What's Putting the Brakes on Arctic Sea-Ice Loss During Recent Summers and How Is It Connected to a Sizzling Asia?</u>				
C22B-06	11:35 AM – 11:50 AM	Moscone West	2003, L2	Arctic
<u>Large Arctic Warming from Ozone-Depleting Substances in the Latter Half of the 20th Century</u>				
C22B-07	11:50 AM – 12:05 PM	Moscone West	2003, L2	Climate change
<u>Measuring tidewater glacier melt rates with underwater noise</u>				
C22A-07	11:50 AM – 12:05 PM	Moscone West	2008, L2	Ice
<u>Substantial pole-to-pole impacts of future Arctic and Antarctic sea ice loss</u>				
C22B-08	12:05 PM – 12:20 PM	Moscone West	2003, L2	Ice
<u>Expert Assessment Suggests Global Peatlands Will Switch to a Carbon Source in Near Future</u>				
B23L-2510	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Boreal Warming: Mechanisms and Limiting Factors of Earthworm Invasion in Arctic and Sub-arctic Ecosystems</u>				
B23H-2523	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Non-native earthworms in the boreal forest: implications for soil carbon storage</u>				
B23H-2524	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Modeling the Potential Effects of Climate Change on the Availability of Polar Bear Denning Habitat</u>				
B23K-2473	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Impact-generated Atmospheres on the Early Earth</u>				
P23B-3500	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Early Earth
<u>Deep Focus Earthquakes, Deep Slab Fluids, and Superdeep Diamonds</u>				
V23H-0196	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Geology
<u>Supraglacial lake drainage at a fast-flowing Greenlandic outlet glacier</u>				
C23B-1537	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Greenland
<u>The ExoMars Trace Gas Orbiter - New Results and Future Plans</u>				
P23B-3482	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Mars
<u>An extremely rapid and efficient engineered system to remove arsenic in the groundwater used for drinking</u>				
GH23B-1228	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Metals
<u>Biodiversity of Microbial Eukaryotes in Alpine Pink Snow Across Geographically Diverse Mountain Ranges</u>				
B23J-2560	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Microbes
<u>The First Impact Crater in the Paleogene: Implications for Recovery After the K-Pg Mass Extinction</u>				
PP23D-1655	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Paleobiology

Presentation	Time	Building	Room	Subtopic
<u>A Comprehensive Biological Oceanographic Expedition to Determine the True Ecological Change at the Cretaceous-Paleogene Mass Extinction</u>				
PP23D-1654	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Paleobiology
<u>It Was Always Burning, Fire Scars From Subfossil Wood Reveal Fire Return Intervals in a Mid-Pliocene Arctic Forest</u>				
PP23F-1713	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Paleobiology
<u>The Early and Long Term Evolution of Venus and its Atmosphere.</u>				
P23B-3489	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Planetary
<u>“I'm ashamed I believed this stuff.” Insights from people who changed their minds about climate change</u>				
PA23C-1182	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Policy
<u>New science results from ASIM</u>				
AE23A-01	1:40 PM – 1:55 PM	Moscone South	215, L2	Space Weather
<u>The Representation of Vulnerable Communities in the Content of the Fourth National Climate Assessment</u>				
PA23C-1176	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Sustainability
<u>A spatiotemporal exploration of stream temperature surge occurrence, magnitude, and duration in the United States between 2008-2018</u>				
H23K-2043	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Sustainability
<u>Memories of Ash: The May 18th 1980 Mount St. Helens Eruption North of the Border</u>				
V23I-0301	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Volcano
<u>Correlating Entrainment Mechanisms and Turbulence in a Buoyant Plume to Large Scale Visual Structures</u>				
V23G-0281	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Volcano
<u>Acoustic Levitation: A novel method to simulate raindrop-atmosphere isotope exchange</u>				
PP23E-1683	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Weather
<u>Recent Experiences in Dissemination of Geophysics by means of Music: the EMusic Project Crosses 3 Continents</u>				
ED23B-02	2:04 PM – 2:22 PM	Moscone South	301-302, L3	Art
<u>Hydrological limits of post-combustion carbon capture and storage</u>				
GC23E-04	2:15 PM – 2:25 PM	Moscone West	2003, L2	Sustainability
<u>Using Insights From 6.5 Million Children in 59 Developing Countries to Estimate Future Scenarios of Development, Climate Change, and Child Mortality</u>				
GH23A-05	2:40 PM – 2:55 PM	Moscone West	2020, L2	Children's health
<u>Heat-Related Mortality Across the Entire Contiguous U.S. under Future Climate Change Scenarios</u>				
GH23A-06	2:55 PM – 3:10 PM	Moscone West	2020, L2	Heat
<u>Diffuse heating of volcanoes prior to eruption</u>				
V23C-06	2:55 PM – 3:10 PM	Moscone South	154, Upper Mezz.	Volcano
<u>Effects of food consumption and dietary trends over 1980-2010 on air pollution in China: A significant "indirect" diet-related health risk</u>				
GH23A-08	3:25 PM – 3:40 PM	Moscone West	2020, L2	Particulates
<u>Probabilities that Enceladus Received Life from Earth, Mars or Another Stellar System</u>				
P24A-01	4:02 PM – 4:17 PM	Moscone South	213-214, L2	Ocean worlds
<u>Reported Investments in Earthquake Mitigation Top \$73 to \$80 Billion in the San Francisco Bay Area, California, Since the 1989 Loma Prieta Earthquake</u>				
NH24A-02	4:15 PM – 4:30 PM	Moscone West	2016, L2	California
<u>2017 Northern California Wildfires – A NASA Health and Air Quality Applied Sciences Team (HAQAST) Tiger Team</u>				
GH24A-04	4:45 PM – 5:00 PM	Moscone West	2020, L2	Fire
<u>The response of coral reef systems to sea level change: lessons from the drowned reefs.</u>				
PP24A-05	5:00 PM – 5:15 PM	Moscone West	2006, L2	Ancient Reefs

Presentation	Time	Building	Room	Subtopic
<u>Monitoring Ongoing Deglaciation in the Andes of Central Chile by Intensive Field Surveys, Remote Sensing and Modeling</u>				
A24K-08	5:36 PM – 5:48 PM	Moscone West	3020, L3	Ice
<u>Unprecedented climate swings in the tropics driven by greenhouse warming</u>				
GC24A-08	5:45 PM – 6:00 PM	Moscone West	2005, L2	Climate change
Wednesday, December 11, 2019				
<u>Corn Sweat, Heat Wave, The Midwest</u>				
A310-2781	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Agriculture
<u>Ground-level methane emissions in Los Angeles: low cost air quality sensor network and relation to urban oil drilling</u>				
A31P-2705	8:00 AM – 12:20 PM	Moscone South	Poster Hall	California
<u>Modeling Climate and Conflict Shocks on Acute Malnutrition in Children</u>				
GH31C-1172	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Children's health
<u>Quantifying the economic effects of narcotics trafficking in Mexico using remote-sensed measures of illicit crop production</u>				
GC31N-1389	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Conflict
<u>On The Low Q of the Chandler Wobble: Towards the Causative Case for Mechanical Instability in Earth's Fluid Outer Core</u>				
G31B-0654	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Geology
<u>Historical Soviet satellite images provide high resolution knowledge on Greenland Ice Sheet dynamics</u>				
C31B-1516	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Greenland
<u>Decades of Change at Glacier Bay National Park, Alaska, Visualized from Repeat Satellite Imagery</u>				
C31B-1511	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Ice
<u>What Are the Sources of 91 Low Latitude Fossils Found in the GISP2 Ice Core and Dating from 535 to 542 A.D.?</u>				
V31C-0127	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleoclimate
<u>The Effect of Dynamic Topography on Pliocene Sea-Level Reconstructions Around Australia</u>				
PP31C-1655	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleoclimate
<u>The Genesis of Blue Lightning Into the Stratosphere</u>				
AE31B-3101	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Space Weather
<u>A DEFT New Way to Forecast Flares</u>				
SH31D-3333	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Space weather
<u>A global sensitivity analysis of thermal conditions in urban street canyons to physical morphology and vegetation parameters</u>				
GH31B-1157	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Sustainability
<u>How to develop tsunami early warning system together by volcanologists, sediment disaster experts and others</u>				
NH31D-0866	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Tsunami
<u>Ubiquitous Low-Level Surface Roughness of Cirrus-Like Ice</u>				
A31J-2735	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Weather
<u>Robust winter warming over the Northern Hemisphere continents under stratospheric sulfate geoengineering</u>				
GC31B-03	8:24 AM – 8:36 AM	Moscone West	2003, L2	Geoengineering
<u>The legacy of the 1980 Mount St. Helens eruption: Volcano geophysics and its use in volcano monitoring and eruption forecasting</u>				
U31B-02	8:25 AM – 8:45 AM	Moscone South	303-304, L3	Volcano
<u>Wolf spiders as biomonitors of pollutants near Arctic mine sites and their potential role in global contaminant cycles</u>				
GH31A-03	8:30 AM – 8:45 AM	Moscone West	2020, L2	Metals
<u>Near-source field survey of the 22 December 2018 Anak Krakatau tsunami in the Sunda Strait</u>				
NH31A-03	8:30 AM – 8:45 AM	Moscone West	2016, L2	Tsunami
<u>Temporal and spatial statistical analysis of children's blood lead exposures in Australian oldest lead mining town of Broken Hill</u>				
GH31A-04	8:45 AM – 9:00 AM	Moscone West	2020, L2	Children's health
<u>The 1883 and 2018 Krakatau tsunamis –new marine geophysical and sediment core evidence on their generation</u>				
NH31A-04	8:45 AM – 9:00 AM	Moscone West	2016, L2	Tsunami

Presentation	Time	Building	Room	Subtopic
<u>Tracing unmonitored coal ash spills in the environment</u>				
GH31A-05	9:00 AM – 9:15 AM	Moscone West	2020, L2	Fossil fuels
<u>Stormquakes</u>				
S31A-07	9:30 AM – 9:45 AM	Moscone South	159, Upper Mezz.	Storm
<u>The modern analogue of a Cretaceous coral with a calcite skeleton</u>				
PP31B-08	9:45 AM – 10:00 AM	Moscone West	2006, L2	Paleobiology
<u>Impacts of Green-New-Deal Energy Plans on Grid Stability, Costs, Jobs, Health, and Climate in 143 Countries</u>				
PA32A-01	10:20 AM – 10:35 AM	Moscone West	2010, L2	Sustainability
<u>Global shifts in risk of Aedes-transmitted diseases under future climate scenarios</u>				
GH32A-02	10:35 AM – 10:50 AM	Moscone West	2020, L2	Infectious disease
<u>Incorporating host-microbe symbioses into organismal responses to environmental change</u>				
GH32A-05	11:20 AM – 11:35 AM	Moscone West	2020, L2	Animals
<u>Scorched Earth: Ecosystem-Atmosphere Interactions Exacerbate Climate Penalty on Ozone Pollution Extremes in Europe</u>				
A32H-10	12:35 PM – 12:50 PM	Moscone South	eLightning Theater I	Ozone
<u>Better quantification of the recent unexpected emission of CFC-11</u>				
A33T-2901	1:40 PM – 6:00 PM	Moscone South	Poster Hall	CFCs
<u>Atmospheric measurements of CFC-11 through most of 2019: Are global CFC-11 emissions back on the decline?</u>				
A33T-2900	1:40 PM – 6:00 PM	Moscone South	Poster Hall	CFCs
<u>Climate impacts on important food-producing shrubs: predicting change and disseminating results</u>				
B33K-2632	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Impacts of Rapid Climate Changes on Mass Movements in Denali National Park and Preserve, Alaska</u>				
NH33E-0964	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Climate Change Drives Phenological Shifts in the Greater Yellowstone Ecosystem</u>				
B33K-2627	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Converting Soundwaves to Colors to Illustrate Pyrogenic Environmental Development</u>				
B33G-2552	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Fire
<u>The exceptional 2019 melting season over the Greenland ice sheet: drivers, implications and new records</u>				
C33A-01	1:40 PM – 1:55 PM	Moscone West	2008, L2	Greenland
<u>Bacteria: The Unfinished Story From a Shark's Mouth</u>				
OS33B-1787	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Infectious disease
<u>Impacts of Extreme Events on Composition of Pathogens in the Environment</u>				
GH33B-1193	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Infectious disease
<u>Lessons Learned from Three Years of Monitoring Cholera</u>				
GH33B-1189	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Infectious disease
<u>Disease Forecast Model Intercomparison Project: A Case Study with West Nile Virus in New York and Connecticut</u>				
GH33B-1180	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Infectious disease
<u>500 Million years of sediment color: the evolution of ocean oxidation, marine organic matter production and burrowing</u>				
PP33E-1742	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Paleobiology
<u>Susceptibility of Pre-diabetic Individuals to Respiratory Inflammation Associated with Particles in Ambient Air</u>				
A33I-3041	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Particulates
<u>High-speed Video Observation of a Lightning Flash Producing X-rays</u>				
AE33A-3117	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Storm
<u>Advances in Development of a Near Real-time Tsunami Early Warning System Using GNSS Ionospheric Measurements</u>				
NH33C-0926	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Tsunami
<u>Mars 2020 as the First Step in a Potential Mars Sample Return Campaign</u>				
P33E-02	1:55 PM – 2:10 PM	Moscone South	eLightning Theater I	Mars

Presentation	Time	Building	Room	Subtopic
<u>Lunar Magnetic Anomalies Aligned Radial to the Imbrium Impact Basin</u>				
P33C-03	2:04 PM – 2:16 PM	Moscone South	213-214, L2	Planetary
<u>Increases in the frequency and severity of fires is putting the southern boreal forest at risk</u>				
B33B-04	2:25 PM – 2:40 PM	Moscone West	3001, L3	Climate change
<u>Continuous records of human-environment interaction in the Lofoten Islands of Arctic Norway based on fecal lipids and alkenone paleothermometry</u>				
PP33A-05	2:40 PM – 2:55 PM	Moscone West	2004, L2	Anthropology
<u>Combining traditional lahar simulations and multiple visualizations to make lahar hazards easier to understand at Mount Shasta, California</u>				
V33A-05	2:40 PM – 2:55 PM	Moscone South	153, Upper Mezz.	Volcano
<u>Extreme Heat Hotspots under Global Warming</u>				
GH33A-07	2:52 PM – 3:04 PM	Moscone West	2020, L2	Heat
<u>Downslope Winds and Dust Storms in the Salton Basin</u>				
A34B-01	4:00 PM – 4:15 PM	Moscone West	3006, L3	California
<u>New satellite-enhanced daily air temperature estimates indicate rapidly increasing exposure to extremes in Africa, Asia and South America</u>				
GH34A-01	4:00 PM – 4:12 PM	Moscone West	2020, L2	Heat
<u>Mid Pleistocene Age for the Great Barrier Reef</u>				
PP34B-02	4:15 PM – 4:30 PM	Moscone West	2006, L2	Ancient Reefs
<u>Climate Injustice in Cities: Extreme Heat and Poor Neighborhoods</u>				
GH34A-03	4:24 PM – 4:36 PM	Moscone West	2020, L2	Heat
<u>A Tufa Nut to Crack: The Timing and Duration of Lacustrine Tufa Formation in the Late Pleistocene</u>				
PP34B-03	4:30 PM – 4:45 PM	Moscone West	2006, L2	California
<u>Future changes in minimum mortality temperatures in cities around the globe</u>				
GH34A-04	4:36 PM – 4:48 PM	Moscone West	2020, L2	Heat
<u>Autonomy for Ocean Worlds Exploration</u>				
IN34A-05	5:00 PM – 5:15 PM	Moscone West	2018, L2	Ocean worlds
<u>A Dense Timeseries of Meltwater Volume over Western Greenland During the 2019 Melt Season Using ICESat-2, Planet SkySat (and MAR Model Outputs), with a Focus on the 30 July Melt Event</u>				
C34A-06	5:15 PM – 5:30 PM	Moscone West	2008, L2	Greenland
Thursday, December 12, 2019				
<u>Water-Food-Energy Challenges under the Political Economy of the Sugar Industry in India</u>				
GC41F-1282	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Agriculture
<u>Overcoming Geologic and Evolutionary Constraints to Recover an Endangered Sturgeon in a Regulated River</u>				
EP41D-2375	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Animals
<u>Did Drought Cause the Abandonment of Norse Settlements in Southern Greenland in 1450 AD? New Evidence from Lake Sediments</u>				
PP41B-1551	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Anthropology
<u>The Dynamics of Gender During Disaster and Conflict in South Sudan</u>				
NH41C-0938	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Conflict
<u>A Dynamic Landslide Early Warning System for the Rohingya Refugees and Host Communities in Cox's Bazar, Bangladesh</u>				
NH41C-0932	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Conflict
<u>Impacts of the Syrian Refugee Crisis on the Landslide Risk Profile of Lebanon</u>				
NH41C-0939	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Conflict
<u>The role of ocean warming in the widespread retreat of Greenland's marine-terminating glaciers</u>				
C41C-1477	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Greenland

Presentation	Time	Building	Room	Subtopic
<u>Geologic signatures of catastrophic glacier detachments</u>				
C41D-1492	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Ice
<u>The effect of climate change on Lyme disease cases in the US</u>				
GH41B-1208	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Infectious disease
<u>Mosquito and primate ecology predict human risk of yellow fever virus spillover in Brazil</u>				
GH41B-1204	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Infectious disease
<u>MAVEN/IUVS Measurements of the D/H Ratio in the Martian Upper Atmosphere</u>				
P41B-3439	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Mars
<u>Fire, Land Bridges, Mammal Browsers and the Origins of African Savanna</u>				
EP41D-2374	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleobiology
<u>Fast Geomagnetic Field Intensity Decrease Between 500 BC and 250 AD. New Archeointensity Data From South Uzbekistan.</u>				
GP41A-0761	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleomagnetism
<u>Two Palaeointensity Maxima and Rapid Directional Variation Rates During the Early Iron Age Recorded from Iberian Archaeological Sites. Implications on the Evolution of the Levantine Iron Age Anomaly from Global Modelling: The SHAWQ-Iron Age Model</u>				
GP41A-0777	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleomagnetism
<u>High energy particle interactions with the Jovian satellites as observed from Juno</u>				
P41A-3396	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Planetary
<u>Recipe for a happy river: Improving the geomorphic design of mining river relocation channels in the Pilbara, Western Australia</u>				
PA41E-1164	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Sustainability
<u>Lessons from Taan Fiord and Lituya Bay: is Alaska's Grewingk Lake poised for catastrophe?</u>				
C41D-1494	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Tsunami
<u>Hydroacoustic Recordings of Lava-Water Interactions and Landslides During the 2018 Eruption of Kilauea Volcano</u>				
V41A-01	8:00 AM – 8:15 AM	Moscone South	153, Upper Mezz.	Volcano
<u>Transformation of Wood Utilization Between ~4600-3000 BP in Northwest Xinjiang, China: A Case Study on Jirentaigoukou Site</u>				
GC41D-02	8:03 AM – 8:06 AM	Moscone South	eLightning Theater III	Anthropology
<u>Settling on the Roof of the World: from Denisovans to Modern Humans</u>				
GC41D-05	8:12 AM – 8:15 AM	Moscone South	eLightning Theater III	Anthropology
<u>Automatic Weather Stations at Extreme Elevations on Mt. Everest: Initial Observations and Applications</u>				
GC41D-06	8:15 AM – 8:18 AM	Moscone South	eLightning Theater III	Weather
<u>Provenance of submerged stone pillars in a natural hazard area, coastal Tosasimizu, southwest Japan: A multiple geological approach</u>				
NS41A-04	8:20 AM – 8:26 AM	Moscone South	eLightning Theater I	Anthropology
<u>Discovery and investigation of a Byzantine basilica in ancient Miletos: improving geophysical data processing and interpretation through information gained from excavations</u>				
NS41A-05	8:26 AM – 8:32 AM	Moscone South	eLightning Theater I	Anthropology
<u>An unconsidered source of Tokyo earthquakes and Pacific Ocean tsunamis</u>				
NH41A-04	8:45 AM – 9:00 AM	Moscone West	2016, L2	Earthquake
<u>Sixty years of altimetry of the west Greenland Ice Sheet margin: a record of ice margin geometry extended with Expédition Glaciologique Internationale Au Groenland 1957–60 (EGIG) aerial photo surveys</u>				
C41A-06	9:15 AM – 9:30 AM	Moscone West	2008, L2	Greenland
<u>Geologic Record of the Great San Sixto 1787 Tsunami, Oaxaca-Guerrero, Mexico: Implications for Tsunami Hazard in Mexico</u>				
NH41A-06	9:15 AM – 9:30 AM	Moscone West	2016, L2	Tsunami
<u>Magnetism and Archaeology: Three-component Magnetometers for Ground and Drone Surveys and Integrated Approach for Advances in Archaeological and Geophysical Research</u>				
NS41A-15	9:26 AM – 9:32 AM	Moscone South	eLightning Theater I	Anthropology

Presentation	Time	Building	Room	Subtopic
<u>Sedimentary and Modeling Evidence of Distant-source Tsunamis in the Hawaiian Islands</u>				
NH41A-07	9:30 AM – 9:45 AM	Moscone West	2016, L2	Tsunami
<u>Near-Field Ground Motions from the 2019 M6.4 and M7.1 Ridgecrest, California, Earthquakes: Subdued Shaking due to Pervasive Non-Linear Site Response?</u>				
S42C-01	10:20 AM – 10:35 AM	Moscone South	157, Upper Mezz.	California
<u>Increasing Tropical Cyclone Precipitation Extremes along the Southeast Atlantic Coast over the Last 350 Years</u>				
PP42B-01	10:20 AM – 10:35 AM	Moscone West	2004, L2	Storm
<u>Developing a geoecological fecal toolkit for primate conservation</u>				
PP42C-13	10:35 AM – 10:50 AM	Moscone South	eLightning Theater II	Animals
<u>A 1200-year perspective on modern high- and low-frequency variability in California's Sierra Nevada cold-season precipitation using tree rings</u>				
PP42B-03	10:50 AM – 11:05 AM	Moscone West	2004, L2	California
<u>Geophysics at the Edge of the Solar System: New Horizons at (486958) 2014 MU69</u>				
P42C-03	10:50 AM – 11:05 AM	Moscone South	215, L2	Planetary
<u>Atmospheric CO2 evolution over the Cenozoic</u>				
PP42A-05	11:20 AM – 11:35 AM	Moscone West	2002, L2	Paleoclimate
<u>On the solar nebula origin of (486958) 2014 MU69, a primordial contact binary in the Kuiper belt</u>				
P42C-05	11:20 AM – 11:35 AM	Moscone South	215, L2	Planetary
<u>River corridors are global hotspots of microplastic pollution, exceeding the amount of plastics found in the world's oceans</u>				
H42D-06	11:35 AM – 11:50 AM	Moscone West	3022, L3	Microplastics
<u>Juno observations of Jupiter's moons</u>				
P42A-07	11:50 AM – 12:05 PM	Moscone South	211-212, L2	Planetary
<u>Eight Hundred Years of North Atlantic Jet Stream Variability and its Influence on European Climate Extremes</u>				
PP42B-07	11:50 AM – 12:05 PM	Moscone West	2004, L2	Weather
<u>Unexpected Detections of Martian Nightside Proton Aurora and Connections with the Mars Magnetic Field Environment</u>				
P42B-08	12:05 PM – 12:20 PM	Moscone South	151, Upper Mezz.	Mars
<u>Mercury accumulation in Mediterranean lean fish</u>				
B42C-08	12:05 PM – 12:20 PM	Moscone West	3012, L3	Metals
<u>A Human-Land System Dynamics Model of Ancient China: A Case Study in the Downfall of the Western Han Dynasty</u>				
GC43H-1392	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Anthropology
<u>Understanding the Recent Enhancement in Precipitation Variability over California</u>				
A430-3040	1:40 PM – 6:00 PM	Moscone South	Poster Hall	California
<u>Inception ages, growth spurts, and lifespans of Cascade Arc volcanoes</u>				
V43G-0170	1:40 PM – 6:00 PM	Moscone South	Poster Hall	California
<u>Implications of the Syrian Civil War and Migration Crisis on Virtual Water Trade</u>				
GC43H-1404	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Conflict
<u>The Apollo Conundrum: The Moon Clearly Had a Magma Ocean. Did Earth?</u>				
V43D-0117	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Early Earth
<u>Breaking the Ice: Detecting potential repetitive icequakes at Llaima volcano, Chile</u>				
V43G-0162	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ice
<u>Characterization of marine microplastics based on hyperspectral imaging: fundamental parameters</u>				
H430-2276	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Microplastics
<u>Plastic contamination of soil: is compost the source?</u>				
H430-2280	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Microplastics
<u>Plastics in rivers – understanding the behavior of plastic particles through hydrodynamics</u>				
H430-2289	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Microplastics

Presentation	Time	Building	Room	Subtopic
<u>Gravity change associated with Kilauea's 2018 summit collapse and recovery</u>				
V43C-0211	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Volcano
<u>Follow the Methane: Pushing Methanogens to the Extreme to Understand the Limits of Biological Methanogenesis Under Simulated Martian Subsurface Conditions</u>				
P43B-03	2:04 PM – 2:16 PM	Moscone South	213-214, L2	Astrobiology
<u>A new frontier in global settlement mapping – the World Settlement Footprint 2018</u>				
IN43B-03	2:12 PM – 2:24 PM	Moscone West	2020, L2	Sustainability
<u>Alexander von Humboldt and the Visualisation of Volcanoes</u>				
U43B-04	2:33 PM – 2:48 PM	Moscone South	303-304, L3	Volcano
<u>Surface rupturing and triggered slip on nearby faults from the Ridgecrest earthquakes revealed by InSAR</u>				
S43C-05	2:40 PM – 2:55 PM	Moscone South	157, Upper Mezz.	California
<u>Significant Glacier Surface Melt Detected Across the Himalayas in Synthetic Aperture Radar Time Series</u>				
C43A-06	2:55 PM – 3:10 PM	Moscone West	3022, L3	Ice
<u>Importance of Crop Drive-Rows in Soil Carbon Sequestration: a Regional Study of Grape, Apple and Cherry Cropping Systems</u>				
B43B-07	3:10 PM – 3:25 PM	Moscone West	3007, L3	Agriculture
<u>Cassini UVIS Observations of the Enceladus Auroral Footprint on Saturn in 2017</u>				
SM44A-02	4:15 PM – 4:30 PM	Moscone South	207, L2	Ocean worlds
<u>The Human Forest: Fragranced volatile chemical products enhance ozone exceedances in New York City</u>				
A44G-04	4:45 PM – 5:00 PM	Moscone West	3006, L3	Ozone
Friday, December 13, 2019				
<u>Production and application of manure nitrogen and phosphorus in the continental U.S. during 1860-2017</u>				
GC51N-1166	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Agriculture
<u>Drawing What You Can't See: Lessons in Illustrating the Deep Earth</u>				
ED51D-0832	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Art
<u>Origins of Asteroids: Insights from Meteorites, Remote Sensing, and Returned Samples</u>				
P51E-3410	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Asteroids
<u>Biomes Through A Functional Lens: How Outdated Ideas Threaten Grasslands</u>				
B51L-2388	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Biology
<u>UAV-based mapping of galloping thermokarst - implications for methane emissions</u>				
B51K-2380	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Climate change
<u>Large recent continental heat storage</u>				
GC51J-1078	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Climate change
<u>Experimental Determination of Rocky Exoplanet Crust Compositions</u>				
P51G-3437	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Exoplanets
<u>Seismic activity level of Mars estimated from 300 Sols of InSight data</u>				
DI51B-0031	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Mars
<u>Organic aerosol processing by bacteria in clouds: Mass formation and loss</u>				
A51T-2746	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Microbes
<u>Subglacial Antarctic Lakes: What they tell us about the exploration of Ocean Worlds Beyond Earth</u>				
P51B-01	8:00 AM – 8:12 AM	Moscone South	213-214, L2	Ocean worlds
<u>The Young Toba Tuff (73.9 ka) Magma Body – True Size and the most Extensive and Voluminous Ignimbrite Yet Known?</u>				
V51H-0141	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Paleovolcanology
<u>Ionospheric Response to a Transient Event at the Magnetopause</u>				
SM51G-3219	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Space Weather
<u>A Four-Belt Structure in Earth's Van Allen Belts</u>				
SM51I-3278	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Space weather

Presentation	Time	Building	Room	Subtopic
<u>Energetic origins of the Anthropocene: modeling human abundance, distribution and energy use in space and time</u>				
GC51J-1089	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Sustainability
<u>Current Status of the Mount Rainier (Washington) Lahar Detection System</u>				
V51K-Q254	8:00 AM – 12:20 PM	Moscone South	Poster Hall	Volcano
<u>The 2018 rift eruption at Kīlauea Volcano: eruption triggering through mechanical failure and the role of extreme rainfall.</u>				
V51C-02	8:15 AM – 8:30 AM	Moscone South	151, Upper Mezz.	Volcano
<u>The great Jurassic East Asian aridification as a consequence of true polar wander and beyond</u>				
GP51A-03	8:30 AM – 8:45 AM	Moscone South	205-206, L2	Paleomagnetism
<u>On the collapse of Mercury's dayside magnetosphere</u>				
SM51A-04	8:42 AM – 8:55 AM	Moscone South	207, L2	Planetary
<u>New Insights on the Role of the Forward-Flank Downdraft in Tornado Evolution from Very High-Resolution Simulations</u>				
A51G-05	9:00 AM – 9:15 AM	Moscone West	3010, L3	Weather
<u>Navigating the Drake Passage during the Eocene greenhouse to icehouse climate transition: a paleoecological and geochemical perspective based on sand tiger shark <i>Striatolamia macrota</i> teeth</u>				
GP51A-06	9:15 AM – 9:30 AM	Moscone South	205-206, L2	Paleoclimate
<u>Shattering of Drizzle Droplets Freezing in Free Fall: New Experimental Results</u>				
A51D-06	9:15 AM – 9:30 AM	Moscone West	3008, L3	Weather
<u>A peak behind the curtain: What Earth's thin biosphere reveals about the deep subsurface.</u>				
B51D-08	9:24 AM – 9:36 AM	Moscone West	3005, L3	Biology
<u>Evidence of early human occupation of a high-altitude site in Western Central Asia during the Holocene</u>				
GC51C-07	9:30 AM – 9:45 AM	Moscone West	2003, L2	Anthropology
<u>Coupled megadrought risk in North and South America</u>				
GC51A-07	9:30 AM – 9:45 AM	Moscone West	2010, L2	Drought
<u>Earth Observations to assess SDG 16: monitoring terrestrial and coastal signals of conflict in Gaza via satellite imagery</u>				
IN51C-09	10:00 AM – 10:15 AM	Moscone South	eLightning Theater III	Conflict
<u>New Earths in the Alpha Cen Region (NEAR): preliminary results</u>				
P52A-03	10:44 AM – 10:56 AM	Moscone South	213-214, L2	Exoplanets
<u>The human imprint on modern forest fire</u>				
B52C-03	10:50 AM – 11:05 AM	Moscone West	3001, L3	Fire
<u>The Petermann Ice Shelf estuary and its impact on ice-shelf stability</u>				
C52B-03	10:50 AM – 11:05 AM	Moscone West	2008, L2	Greenland
<u>When is chemical disequilibrium in Earth-like planetary atmospheres a biosignature versus an anti-biosignature? Investigating disequilibria from prebiotic to post-biotic worlds.</u>				
P52A-04	10:56 AM – 11:08 AM	Moscone South	213-214, L2	Astrobiology
<u>New Heights in Glacier-Climature Research: Initial Insights From the Highest Weather Stations on Earth</u>				
GC52B-05	11:20 AM – 11:35 AM	Moscone West	2003, L2	Weather
<u>Electrical Resistivity Measurements of the McMurdo Ice Shelf, Antarctica, Reveal Seawater Intrusion in New Detail</u>				
C52B-06	11:35 AM – 11:50 AM	Moscone West	2008, L2	Antarctic
<u>Radiative impacts of Arctic sea ice melt: using observations to inform future climate effects</u>				
C52A-06	11:35 AM – 11:50 AM	Moscone West	2006, L2	Arctic
<u>Large Volcanic Landslides on the Southern Patagonian Icefield and Linkages to Glacial Retreat</u>				
V52C-07	11:50 AM – 12:05 PM	Moscone South	151, Upper Mezz.	Volcano
<u>Impacts of Freshwater Salinization on Aerosolized Bacteria</u>				
B52D-08	12:05 PM – 12:20 PM	Moscone West	3003, L3	Microbes
<u>Economic Potential for Using Marginal Land for Bioenergy Crop Production in the US</u>				
GC53H-1210	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Agriculture

Presentation	Time	Building	Room	Subtopic
<u>Determining the controls on faecal stanol concentrations and ratios in tropical lake sediments</u>				
B53E-2445	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Anthropology
<u>New Evidence of Highland Silk Road in Prehistory From Qugong Site, in Central Tibetan Plateau</u>				
GC53G-1239	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Anthropology
<u>Evidence for Projectile Tunneling at Small Craters on Asteroid (101955) Bennu</u>				
P53C-3457	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Asteroids
<u>Microbial Succession in Hypersaline, Alkaline Mono Lake, CA</u>				
B53G-2473	1:40 PM – 6:00 PM	Moscone South	Poster Hall	California
<u>Constant, relentless, and disruptive: How sudden oak death and other invasive pathogens contrast with climate-driven tree mortality events</u>				
B53N-2598	1:40 PM – 6:00 PM	Moscone South	Poster Hall	California
<u>The Spatial Patterns of Hot and Cold Skin-temperature Extremes Across the World and Their Corresponding Diurnal Variability Based on Satellite Observations</u>				
H53K-1908	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Climate change
<u>Impacts of regional sea ice loss – a global response</u>				
A53J-3003	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ice
<u>High resolution digital elevation models of The Devil's Golf Course: a possible terrestrial analog of Europa's surface</u>				
P53C-3468	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ocean worlds
<u>Planetary Protection for accessing the oceans of icy satellites</u>				
P53E-3505	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ocean worlds
<u>Understanding the Composition of Europa's Surface in the Ultraviolet with New HST Observations</u>				
P53D-3497	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Ocean worlds
<u>True Polar Wander and the Paleocene-Eocene Latitude of Ellesmere Island</u>				
GP53A-0666	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Paleomagnetism
<u>Indirect Health Impacts of 1980–2010 Dietary Change in China via Worsening of Particulate Matter Air Quality</u>				
A53B-01	1:40 PM – 1:55 PM	Moscone West	2022-2024, L2	Respiratory health
<u>Composition of deep crust imaged by USArray</u>				
S53E-0502	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Sand
<u>Simulations of Thermal Nonequilibrium in Raining Null-Point Topologies</u>				
SH53B-3381	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Space weather
<u>Exploring the use of cell phone GNSS receivers for global monitoring of the ionosphere</u>				
NH53C-0823	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Space weather
<u>Controlled-source Electromagnetic Imaging of Submarine Groundwater Reservoirs Offshore the Island of Hawai'i</u>				
H53I-1883	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Sustainability
<u>Revealing the Real Onshore Potential: A Socio-Technical Wind Atlas for the U.S.</u>				
GC53J-1188	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Sustainability
<u>Early Weather Satellites Detect and Help Warn of Natural Weather Disasters and Hazards</u>				
IN53D-0764	1:40 PM – 6:00 PM	Moscone South	Poster Hall	Weather
<u>Landfalling Droughts: Global tracking of moisture deficits from the oceans onto land</u>				
GC53C-04	2:33 PM – 2:49 PM	Moscone West	2005, L2	Weather
<u>Painting Beyond: the convergence of art and science at remote field sites, from Antarctica to the deep sea</u>				
ED53B-06	2:40 PM – 2:52 PM	Moscone South	216, L2	Art
<u>Estimated aerosol radiative and health effects of the residential coal ban in the Beijing-Tianjin-Hebei region of China</u>				
A53B-05	2:40 PM – 2:55 PM	Moscone West	2022-2024, L2	Fossil fuels
<u>Evolution of the Sahara revealed by eleven million years of variability in dust export</u>				
GC53D-05	2:40 PM – 2:55 PM	Moscone West	2012, L2	Paleoclimate

Presentation	Time	Building	Room	Subtopic
<u>Seafloor shallowing in the early Earth: Implications for the evolution of the surface environment and the origin of life</u>				
PP53B-07	3:10 PM – 3:25 PM	Moscone West	2004, L2	Early Earth
<u>Geodetic Observations Suggest Sierra Nevada Hydrological Loading Encouraged the July 2019 Ridgecrest/Searles Valley Earthquake Sequence</u>				
G53A-07	3:10 PM – 3:25 PM	Moscone South	160, Upper Mezz.	Earthquake
<u>The bouncing boulders of the Atacama: Exquisitely preserved fallen-boulder fields in the Atacama Desert, northern Chile</u>				
NH53A-08	3:25 PM – 3:40 PM	Moscone West	2016, L2	Geology
<u>Pyritized filamentous fungi in silicified miniature paleo-speleothems of basal Ediacaran, Weng'an, South China</u>				
PP54A-02	4:15 PM – 4:30 PM	Moscone West	2004, L2	Paleobiology
<u>The Cambrian Explosion Was Enabled by Plate Tectonics</u>				
PP54A-04	4:45 PM – 5:00 PM	Moscone West	2004, L2	Paleobiology
<u>DART: The Double Asteroid Redirection Test Mission</u>				
U54A-05	4:53 PM – 5:06 PM	Moscone South	303-304, L3	Asteroids
<u>Genomic diversity and microbial activities fueled by deep fluids</u>				
EP54B-05	5:00 PM – 5:15 PM	Moscone West	3009, L3	California
<u>Characterizing virus activity, persistence, and virus-host dynamics in Arctic and Tropical soils using stable isotope probing targeted metagenomics</u>				
B54A-04	5:12 PM – 5:24 PM	Moscone West	3005, L3	Microbes
<u>Quantification of CO2 and CH4 Emission Rates for New York City</u>				
A54D-06	5:15 PM – 5:30 PM	Moscone West	3000, L3	Fossil fuels
<u>Volatile Salts in Mars Regolith: A Blessing and a Curse</u>				
P54A-06	5:15 PM – 5:30 PM	Moscone South	213-214, L2	Mars
<u>Land Plant Evolution Decreased, Rather Than Increased, Weathering Rates</u>				
PP54A-06	5:15 PM – 5:30 PM	Moscone West	2004, L2	Paleobiology
<u>Putative Pingos may Populate Portions of Occator Crater, Ceres</u>				
P54B-07	5:21 PM – 5:33 PM	Moscone South	211-212, L2	Asteroids
<u>Widespread Shallow Water Ice on Mars at High and Mid Latitudes</u>				
P54A-07	5:30 PM – 5:45 PM	Moscone South	213-214, L2	Mars
<u>Pluto and Charon Fully Illuminated</u>				
P54B-08	5:33 PM – 5:45 PM	Moscone South	211-212, L2	Planetary
<u>The fossil fuel CO2 emissions of U.S. cities</u>				
A54D-08	5:45 PM – 6:00 PM	Moscone West	3000, L3	Climate change