

PSD – Poster Summaries & Discussions – Oral Sessions

Monday, 23 April

MO1 , 08:30–10:00	PSD14.3 , GI2.1/AS4.6 - Atmospheric and Meteorological Instrumentation, 08:30–09:15 in Room 40
	PSD16.7 , HS10.1 - Lakes and inland seas, 08:30–09:15 in Room 37
	PSD22.6 , GMPV4.2/TS4.9 - Volcanoes: Tectonics, Deformation, Geodesy, 08:30–09:15 in Room 35
MO2 , 10:30–12:00	PSD8.1 , NP1.2 - Open session on Nonlinear Inversion in Geophysics, 10:30–11:15 in Room 40
	PSD8.6 , NP8.2 - Stochastic Approaches for Multiscale Modelling in Geosciences, 10:30–11:15 in Room 37
	PSD10.2 , AS1.10 - The global monsoon system: variability and dynamics, 10:30–11:15 in Room 35
	PSD15.3 , SSP4.2 - Palaeoclimate records from speleothems: analytical techniques, proxies, and application (sponsored by IAS), 11:30–12:15 in Room 40
	PSD16.15 , HS8.2.5 - Sedimentary basins as active fluid circulation systems, 11:30–12:15 in Room 37
MOL , 12:15–13:15	PSD2.1 , TS2.4/HS8.1.8 - Fractures, faults and fluid flow: from observations to mechanisms, 12:15–13:00 in Room 35
	PSD9.2 , CL1.1 - Progress in understanding Neoproterozoic pan-glaciations (potential Snowball Earth episodes) (posters only), 12:15–13:00 in Room 40
	PSD9.5 , CL5.3/HS6.7 - Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment, 12:15–13:00 in Room 37
	PSD21.10 , ST2.4/PS5.4 - Terrestrial and planetary magnetotails and their response to variable upstream conditions, 12:15–13:00 in Room SM1
MO3 , 13:30–15:00	PSD4.9 , SSS9.2 - Soil de-pollution and changing organic management systems, 13:30–14:15 in Room 40
	PSD6.12 , ERE1.1 - Energy, Resources & the Environment, 13:30–14:15 in Room SM1
	PSD7.14 , OS2.1 - Open Session on Coastal and Shelf Seas, 14:30–15:15 in Room 35
	PSD7.15 , OS2.4 - Upwelling events, coastal-offshore exchange processes and their impact on the marine ecosystem under changing climate conditions, 13:30–14:15 in Room SM2
	PSD17.4 , PS3.3 - Rings and icy satellites, 13:30–14:15 in Room 37
	PSD18.1 , IG4 - Isotopes and Isoscapes as Tool for Forensic Provenancing, 13:30–14:15 in Room 35
	PSD19.3 , NH2.1 - Modeling of Volcanic Hazards (including Arne Richter Award for Outstanding Young Scientists Lecture), 14:30–15:15 in Room 40
	PSD19.13 , NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality, 14:30–15:15 in Room 37
	PSD20.8 , BG2.3 - Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems, 14:30–15:15 in Room SM2
MO4 , 15:30–17:00	PSD6.8 , ERE1.8 - Aspects of Biomass utilization from Forests and other Resources, 16:30–17:15 in Room SM2

	PSD10.4 , AS3.5 - Aerosol Chemistry and Microphysics (General Session), 15:30–16:15 in Room 35
	PSD11.8 , GD8.1/TS9.6 - Recent advances in computational geodynamics, 16:30–17:15 in Room 35
	PSD11.10 , GD2.5/GMPV6.12/SM4.3/TS10.9 - The tale of Laurasia cratons: new geophysical and geochemical evidence from Europe, Siberia, Greenland, and North America, 15:30–16:15 in Room SM2
	PSD11.12 , GD2.3/GMPV6.8/SM3.6/TS9.8 - Heat flow and thermal regime of the lithosphere: Deep and surface processes, 16:30–17:15 in Room 40
	PSD13.1 , G5.1 - Observing and understanding Earth rotation variability and its geophysical excitation, 15:30–16:15 in Room 37
	PSD16.4 , HS4.6 - Why predict? The value of prediction in hydrological sciences and policy, 16:30–17:15 in Room 37
	PSD19.2 , NH1.4/AS4.14 - Lightning: physics, detection and atmospheric effects, 15:30–16:15 in Room 40
MO5 , 17:30–19:00	PSD6.4 , ERE1.6 - Deep geothermal energy – exploration, exploitation, characterisation and modelling, 17:30–18:15 in Room 37
	PSD9.1 , CL0 - Open Session on Climate: Past, Present and Future, 17:30–18:15 in Room 40
	PSD14.5 , GI1.1 - Open Session on Geoscience Instrumentation, 18:30–19:15 in Room 35
	PSD16.3 , HS5.6 - Climate Change and Impact on Drinking Water Supply, 17:30–18:15 in Room 35
MO6 , 19:00–20:00	PSD6.9 , ERE1.6 - Deep geothermal energy – exploration, exploitation, characterisation and modelling, 19:00–19:45 in Room 40
	PSD10.5 , AS2.1 - Air-Land Interactions (General Session) (co-sponsored by iLEAPS), 19:15–20:00 in Room 35
	PSD10.6 , AS2.3 - Boundary Layers in High Latitudes: Physical and Chemical Processes Including Atmosphere-Ice Chemical Interactions (AICI), 19:00–19:45 in Room 37
Tuesday, 24 April	
TU1 , 08:30–10:00	PSD8.3 , NP4.2 - Satellite time series analysis, 08:30–09:15 in Room 40
	PSD10.3 , AS1.21 - Quantitative precipitation forecasting in complex terrain: Results of the Convective and Orographically-induced Precipitation Study (COPS) and other campaigns, 08:30–09:15 in Room 35
	PSD17.2 , PS2.2 - Venus, 08:30–09:15 in Room 37
TU2 , 10:30–12:00	PSD8.2 , NP3.2 - Geophysical Extremes: Scaling representations and their applications, 10:30–11:15 in Room 40
	PSD10.8 , AS4.4/BG2.16 - Boreal forest chemistry and physics, 10:30–11:15 in Room 37
	PSD10.10 , AS4.8 - Infrasound monitoring for atmospheric studies, 10:30–11:15 in Room 35
	PSD15.4 , SSP4.10 - Larger foraminifera: biostratigraphy, biogeography and field applications (sponsored by PalAss), 11:30–12:15 in Room 40
	PSD19.26 , NH9.9 - Natural hazard impact on technological systems and urban areas, 11:30–12:15 in Room 37
	PSD21.5 , ST1.5 - 3D structure and physical nature of the global heliosphere, 11:30–12:15 in Room 35
TUL , 12:15–13:15	PSD2.12 , TS9.5/G3.5/GD8.6/GM3.6/GMPV6.20/SM3.5 - Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques, 12:15–13:00 in Room SM2

	PSD6.7, ERE2.4 - Modelling and upscaling of CO2 storage sites, 12:15–13:00 in Room SM7
	PSD19.1, NH1.11/AS4.16/CL2.4 - Hazard Risk Management in Agriculture and Agroecosystems, 12:15–13:00 in Room 35
	PSD22.3, GMPV2.1/GD2.7/SM4.2/TS1.4 - Geochemical, petrological and physical discontinuities in the lithospheric mantle: supporting evidence and hypotheses for their origin, 12:15–13:00 in Room 40
	PSD22.4, GMPV1.2/GD5.3/TS6.6 - Subduction processes: geochemical inputs and outputs (co-sponsored by the European Association of Geochemistry (EAG)) (including AGU Kuno lecture), 12:15–13:00 in Room 37
TU3, 13:30–15:00	PSD4.8, SSS5.10 - Dynamics of soil surface characteristics (including physical and biological soil crusts): consequences on soil functioning and role of climate and land use change, 13:30–14:15 in Room 35
	PSD9.4, CL1.17/EG1 - Reconstructing the climate of the last two millennia (including Hans Oeschger Medal Lecture), 13:30–14:15 in Room 40
	PSD11.4, GD4.1/GMPV6.16 - Mid-ocean ridge processes and their consequences: melting and melt extraction from a heterogeneous mantle, 13:30–14:15 in Room 37
	PSD11.5, GD4.2/SM2.8/TS5.3 - Evolution of the North and South Atlantic, adjacent continents, and passive continental margins, in general, 14:30–15:15 in Room 37
	PSD12.4, GM5.1 - Aeolian Processes and Landforms, 14:30–15:15 in Room 40
	PSD12.5, GM4.4/BG1.8 - Biophysical processes: from biological soil crusts to macro process, 14:30–15:15 in Room 35
TU4, 15:30–17:00	PSD2.13, TS9.4 - Geophysical methods in the service of Structural Geology, 15:30–16:15 in Room SM5
	PSD4.10, SSS7.6 - Movement and Fate of eroded soil organic matter in terrestrial ecosystems, 15:30–16:15 in Room 37
	PSD7.2, OS4.3 - Ocean Remote Sensing, 15:30–16:15 in Room 40
	PSD16.2, HS5.8 - Catchment science, management and stakeholder participation, 15:30–16:15 in Room 35
	PSD16.6, HS8.2.1 - Stochastic groundwater hydrology, 16:30–17:15 in Room 35
	PSD20.4, BG5.2 - Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, 16:30–17:15 in Room 37
	PSD22.8, GMPV4.7 - Physics and dynamics of magma ascent, emplacement, eruption and deposition in volcanic systems, 16:30–17:15 in Room SM5
	PSD23.1, ESS1.2/OS4.7 - Informatics in Oceanography and Ocean Science, 16:30–17:15 in Room 40
TU5, 17:30–19:00	PSD9.3, CL1.13 - Decadal to millennial scale climate variability, 17:30–18:15 in Room 40
	PSD20.1, BG2.15 - Biotic interactions and biogeochemical processes, 17:30–18:15 in Room 35
	PSD20.3, BG3.2 - Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture), 17:30–18:15 in Room 37
	PSD23.2, ESS1.4 - New Data Paradigms, Modeling, and International Collaboration Strategies for Earth System Sciences (including Ian McHarg Medal Lecture), 18:30–19:15 in Room 35

	PSD23.3 , ESS1.6 - Laser Scanning: 3D Spatial Data, Analysis, and Infrastructures in Geosciences, 18:30–19:15 in Room 37
TU6 , 19:00–20:00	PSD5.2 , SM1.4/G6.2/GI1.6 - Integrating large-scale European Research infrastructures for solid Earth Sciences: from data centers to core services, 19:15–20:00 in Room 37
	PSD5.5 , SM3.4/TS9.10 - Active seismic investigations of the Earth's crust, 19:00–19:45 in Room 40
	PSD14.1 , GI3.4 - From Artefact to Historical Site : Geoscience and Non-Invasive Methods for the Study and Conservation of Cultural Heritage, 19:15–20:00 in Room 35
Wednesday, 25 April	
WE1 , 08:30–10:00	PSD17.1 , PS1.2/AS4.21/ST6.1 - Polarimetry as an invaluable tool to study the Solar System and beyond., 08:30–09:15 in Room 37
	PSD17.5 , PS6.1 - Exoplanets: formation, dynamics and processes, 08:30–09:15 in Room 35
	PSD19.10 , NH5.6 - Sea hazards and ship operations, 08:30–09:15 in Room 40
	PSD19.21 , NH9.7 - Vulnerability assessments in natural hazard and risk analysis, 09:30–10:15 in Room 35
WE2 , 10:30–12:00	PSD4.11 , SSS11.8 - Cotton production practices impacts soil quality, 10:30–11:15 in Room 37
	PSD8.4 , NP3.4/BG2.23/SSS1.7 - Scaling, Nonlinearity, and Complexity in soils, 10:30–11:15 in Room 40
	PSD16.8 , HS10.3 - Land-water interaction at the river basin scale: ecohydrology approaches to understanding the impact of upstream processes on downstream estuarine and coastal ecosystems, 10:30–11:15 in Room 35
	PSD16.12 , HS5.5 - Models and computational methods for management and optimization of controlled water resources systems, 11:30–12:15 in Room 40
	PSD16.13 , HS3.3 - Poster Session on Open Source Computing in Hydrology, 11:30–12:15 in Room 35
	PSD20.7 , BG3.1 - Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery, 11:30–12:15 in Room 37
WEL , 12:15–13:15	PSD5.7 , SM3.2 - In QUEST of seismic models for sources and Earth's structure, 12:15–13:00 in Room SM2
	PSD19.8 , NH5.5 - Storm Surges and coastal areas: extreme events, damages, and risk, 12:15–13:00 in Room 40
	PSD19.9 , NH5.3/NP 7.3/OS2.6 - Nonlinear Dynamics of the Coastal Zone, 12:15–13:00 in Room 35
	PSD19.11 , NH5.7/ESS1.7 - Architecture of Future Tsunami Warning Systems, 12:15–13:00 in Room 37
WE3 , 13:30–15:00	PSD1.5 , CR1.90 - Modeling, measurements and applications of snow stratigraphy and microstructure, 13:30–14:15 in Room 37
	PSD4.13 , SSS7.3 - Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, 14:30–15:15 in Room 35
	PSD5.9 , SM1.3/GI1.7 - Improving seismic networks performances: from site selection to data integration, 14:30–15:15 in Room 40
	PSD7.9 , OS3.1 - 'Sensitivity of marine ecosystems, biogeochemical cycles and carbon uptake to global change', 13:30–14:15 in Room 40
	PSD10.12 , AS3.2 - Halogens in the Troposphere, 13:30–14:15 in Room SM2

	PSD12.6 , GM2.4 - Complexity and nonlinearity in Earth surface processes Concepts, methods and applications, 14:30–15:15 in Room 37
	PSD16.11 , HS4.1/GM7.8/NH1.7 - Flash floods: processes, forecasting and risk management, 13:30–14:15 in Room 35
	PSD19.30 , NH3.12 - SafeLand Project and other research on effects of global change on spatial and temporal patterns of landslide risk, 14:30–15:15 in Room SM2
	PSD22.7 , GMPV4.10/GM2.7 - Spatio-temporal perspectives on volcanological processes and volcanic landforms, 13:30–14:15 in Room SM1
WE4 , 15:30–17:00	PSD5.10 , SM3.1/AS4.20 - Research and Development in Nuclear Explosion Monitoring, 15:30–16:15 in Room 37
	PSD6.11 , ERE2.1 - Long-term storage of CO2 in geological systems: Results from laboratory studies, 15:30–16:15 in Room SM2
	PSD11.11 , GD8.2/GMPV6.6/TS9.7 - Long-term rheological behavior of the lithosphere inferred from observations and models at laboratory and geological time and spatial scales, 15:30–16:15 in Room 35
	PSD16.14 , HS8.1.3 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, 16:30–17:15 in Room 35
	PSD19.27 , NH9.10 - Incorporating spatio-temporal variability into risk management, 15:30–16:15 in Room 40
	PSD19.29 , PSD19.29 - Storm surges, coastal flooding and erosion: extreme events, damage and risk, 16:30–17:15 in Room 40
WE5 , 17:30–19:00	PSD20.5 , BG6.2 - Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), 17:30–18:15 in Room 40
WE6 , 19:00–20:00	PSD4.10 , SSS11.3 - Soil and irrigation sustainability practices, 19:00–19:45 in Room 37
	PSD4.14 , SSS11.3 - Soil and irrigation sustainability practices, 19:00–19:45 in Room 35
Thursday, 26 April	
TH1 , 08:30–10:00	PSD17.3 , PS3.1 - Outer planet satellites with an atmosphere, 08:30–09:15 in Room 35
	PSD19.5 , NH5.1 - New developments in tsunami science and in mitigation of tsunami risk, including early warning, 08:30–09:15 in Room 37
TH2 , 10:30–12:00	PSD7.6 , OS2.3 - Oceanography at coastal scales. Modelling, coupling and observations, 10:30–11:15 in Room 37
	PSD7.10 , OS4.6/EOS3 - Ocean Science Outreach and Education, 11:30–12:15 in Room 37
	PSD8.8 , NP6.4/PS9.4 - Solar wind and astrophysical turbulence and shocks, 10:30–11:15 in Room 40
	PSD10.11 , AS4.5/BG2.17/CL2.6 - Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate, 10:30–11:15 in Room SM2
THL , 12:15–13:15	PSD2.10 , TS10.1 - Geodynamic, tectonic and paleoenvironmental evolution of the Eastern Mediterranean: from Dinarides to Turkey, 12:15–13:00 in Room SM2
	PSD12.8 , GM2.2 - Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes, 12:15–13:00 in Room 37
	PSD12.10 , GM10.1/PS2.9 - Planetary Geomorphology, 12:15–13:00 in Room SM7
	PSD13.2 , G4.1 - Gravity field research - data acquisition - processing and - interpretation, 12:15–13:00 in Room SM1

	PSD19.19 , NH9.1 - Natural Catastrophe Risk Assessment: Integrating Public Private Academic Partnerships into Applications and Decision Making, 12:15–13:00 in Room 40
TH3 , 13:30–15:00	PSD7.11 , OS1.4 - The Southern Ocean and its Role in the Global Climate System, 13:30–14:15 in Room 35
	PSD8.7 , NP7.2 - Wind-wave-current interactions, internal waves in stratified media and ocean mixing, 14:30–15:15 in Room 37
	PSD9.8 , CL4.9/AS1.4 - Synoptic climatology methods and applications, 13:30–14:15 in Room 40
	PSD11.3 , GD3.1/GM3.7/SM4.4/TS1.6 - Plate kinematics, mantle convection, paleogeography and sea level, 14:30–15:15 in Room 35
	PSD11.7 , GD6.1/GMPV6.13/SM4.5 - Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives, 13:30–14:15 in Room 37
	PSD12.7 , GM2.2 - Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes, 14:30–15:15 in Room 40
	PSD12.9 , GM6.2/HS9.6/SSS5.21 - Connectivity in water and sediment dynamics: how do we move forwards?, 13:30–14:15 in Room SM2
TH4 , 15:30–17:00	PSD4.12 , SSS11.2 - Soil Management for Sustainable Agro food Systems, 15:30–16:15 in Room SM7
	PSD10.1 , AS1.2 - Numerical weather prediction, data assimilation and ensemble forecasting, 15:30–16:15 in Room 35
	PSD12.8 , GM7.2/HS9.2 - Morphodynamics of Rivers and Estuaries: Sediment Budgets, Monitoring Techniques and Process Dynamics, 15:30–16:15 in Room 40
	PSD16.1 , HS2.10 - Experimental design and measurement techniques in surface water/groundwater interaction studies, 15:30–16:15 in Room 37
	PSD19.31 , NH9.8/EOS9 - Geoethics and natural hazards: communication, education and the science-policy-practice interface, 16:30–17:15 in Room 35
TH5 , 17:30–19:00	PSD9.6 , CL4.5/OS1.8 - Global and regional sea level rise and variability: from past to future, 17:30–18:15 in Room 35
	PSD9.10 , CL2.3 - Urban climate, urban heat island and urban biometeorology, 17:30–18:15 in Room 40
	PSD14.4 , GI3.5 - Electromagnetic sensing techniques and geophysical methods for critical and transport infrastructures monitoring and diagnostics, 17:30–18:15 in Room 37
	PSD23.4 , ESS12.4 - Full lifecycle of data and large scale data analytics, 18:30–19:15 in Room 35
	PSD23.5 , ESS12.5 - Metadata and Data Models, and Markup Languages, 18:30–19:15 in Room 37
	PSD23.6 , ESS12.12 - Real Use of Standards and Technologies - Live Demonstrations, 18:30–19:15 in Room 40
Friday, 27 April	
FR1 , 08:30–10:00	PSD7.12 , OS1.6 - Ocean dynamics and Air-sea interactions within the tropics, 08:30–09:15 in Room 37
	PSD7.16 , OS1.2 - The North Atlantic: natural variability and global change, 08:30–09:15 in Room SM2
	PSD7.17 , OS5.2 - Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean, 09:30–10:15 in Room 40
	PSD8.5 , NP6.6 - Magnetic reconnection and turbulence in Space, Laboratory and Astrophysical Systems, 08:30–09:15 in Room 40

	PSD11.6 , GD5.1/GMPV6.2/SM2.2/TS6.5 - Subduction dynamics from surface to deep mantle, 09:30–10:15 in Room 37
	PSD16.9 , HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone, 08:30–09:15 in Room 35
	PSD19.28 , NH8.1 - Heavy-metal contamination of the environment, 09:30–10:15 in Room 35
FR2 , 10:30–12:00	PSD4.10 , SSS12.1 - Teaching Soil Science or how to teach that dirt is fascinating, 10:30–11:15 in Room 35
	PSD19.15 , NH8.2 - Medical Geochemistry: processes occurring between geological materials and human/biological interfaces, 11:30–12:15 in Room 35
	PSD19.25 , NH9.2 - Social capacity building: an emerging field of research and practice for Europe, 11:30–12:15 in Room 37
	PSD20.6 , BG6.3/CL5.14/SSP5.4 - Micropaleontology: a key to modern and ancient environments, 11:30–12:15 in Room 40
	PSD23.7 , ESS12.9 - Intelligent geo-Information Management in the Future Internet, 10:30–11:15 in Room 37
	PSD23.8 , ESS12.10 - Earth science on Cloud, HPC and Grid, 10:30–11:15 in Room 40
FRL , 12:15–13:15	PSD4.10 , SSS4.1 - Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, 12:15–13:00 in Room 37
	PSD9.7 , CL4.8/BG2.22 - Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests, 12:15–13:00 in Room 40
	PSD19.24 , NH6.2 - Snow avalanche dynamics including interaction with structures, hazard mapping and risk management, 12:15–13:00 in Room SM5
	PSD19.32 , NH5.2 - Extreme Sea Waves, 12:15–13:00 in Room SM6
	PSD21.6 , ST5.1/NH1.10/PS5.5 - Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications, 12:15–13:00 in Room 35
	PSD21.9 , ST1.1 - Open session on the Sun and heliosphere, 12:15–13:00 in Room SM1
FR3 , 13:30–15:00	PSD21.11 , ST1.3 - Particle acceleration mechanisms in solar system plasmas: observations and theory, 12:15–13:00 in Room SM2
	PSD1.4 , CR8.10 - Mountain snow cover and avalanche formation, 13:30–14:15 in Room 40
	PSD5.8 , SM3.10/EMRP2.10/ERE5.5 - Seismo-electromagnetic conversions: observations, theory and modelling, 14:30–15:15 in Room 35
	PSD17.6 , PS7.1 - Experimental and theoretical simulations, 13:30–14:15 in Room SM1
	PSD22.1 , GMPV3.1 - Mineral growth and dissolution: Recent developments in the understanding of fluid-mineral processes (including Arne Richter Award for Outstanding Young Scientists Lecture), 13:30–14:15 in Room 35