

**EGU General Assembly 2012**  
**Programme Group Programme**  
**PSD – Poster Summaries & Discussions**

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Monday, 23 April

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**PSD2.1 – TS2.4/HS8.1.8 - Fractures, faults and fluid flow: from observations to mechanisms – Orals**

Convener: N. De Paola | Co-Conveners: F. Balsamo, F. Renard, I. Ghani, S. Smith, D. Koehn, J. Richard, M. Arndt

**Room: 35**

Chairperson: n.n.

12:15–13:00

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**PSD4.9 – SSS9.2 - Soil de-pollution and changing organic management systems – Orals**

Convener: P. Buraue | Co-Conveners: Dr. Munch, I. Lamy

**Room: 40**

Chairperson: n.n.

13:30–14:15

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**PSD6.4 – ERE1.6 - Deep geothermal energy – exploration, exploitation, characterisation and modelling – Orals**

Convener: B. Hahne | Co-Conveners: A. Manzella, A. Bartetzko, H. Milsch

**Room: 37**

Chairperson: n.n.

17:30–18:15

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**PSD6.8 – ERE1.8 - Aspects of Biomass utilization from Forests and other Resources – Orals**

Convener: V.J. Bruckman | Co-Conveners: B. Veselinovic, E. Hochbichler, V. Parravicini, S. Chauhan

**Room: SM2**

Chairperson: n.n.

16:30–17:15

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**PSD6.9 – ERE1.6 - Deep geothermal energy – exploration, exploitation, characterisation and modelling – Orals**

Convener: B. Hahne | Co-Conveners: D. Bruhn, A. Manzella, G. Blöcher, I. Nardini, A. Bartetzko

**Room: 40**

Chairperson: n.n.

19:00–19:45

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**PSD6.12 – ERE1.1 - Energy, Resources & the Environment – Orals**

Convener: M. Kühn | Co-Conveners: H. Held

**Room: SM1**

Chairperson: n.n.

13:30–14:15

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**PSD7.14 – OS2.1 - Open Session on Coastal and Shelf Seas – Orals**

Convener: J. van der Molen | Co-Conveners: H. E. de Swart, G.I. Shapiro

**Room: 35**

Chairperson: n.n.

14:30–15:15

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**PSD7.15 – OS2.4 - Upwelling events, coastal-offshore exchange processes and their impact on the marine ecosystem under changing climate conditions – Orals**

Convener: K. Myrberg | Co-Conveners: A. Lehmann, J. Hopkins

**Room: SM2**

Chairperson: n.n.

13:30–14:15

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**PSD8.1 – NP1.2 - Open session on Nonlinear Inversion in Geophysics – Orals**

Convener: S.-A. OUADFEUL | Co-Conveners: L. Aliouane, A. Boudella

**Room: 40**

Chairperson: n.n.

10:30–11:15

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**PSD8.6 – NP8.2 - Stochastic Approaches for Multiscale Modelling in Geosciences – Orals**

Convener: B. Nadiga | Co-Conveners: D. Schertzer, J. Duan, C. Franzke

**Room: 37**

Chairperson: n.n.

10:30–11:15

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**PSD9.1 – CL0 - Open Session on Climate: Past, Present and Future – Orals**

Convener: D.-D. Rousseau | Co-Conveners: M.-A. Sicre

**Room: 40**

Chairperson: n.n.

17:30–18:15

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**PSD9.2 – CL1.1 - Progress in understanding Neoproterozoic pan-glaciations (potential Snowball Earth episodes) (posters only) – Orals**

Convener: A. Voigt | Co-Conveners: Y. Donnadieu, D.S. Abbot, T. Bosak, F. Macdonald

**Room: 40**

Chairperson: n.n.

12:15–13:00

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**PSD9.5 – CL5.3/HS6.7 - Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment – Orals**

Convener: X. L. Wang | Co-Conveners: P. Stepanek, E. Aguilar, W. Dorigo

**Room: 37**

Chairperson: n.n.

12:15–13:00

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**PSD10.2 – AS1.10 - The global monsoon system: variability and dynamics – Orals**

Convener: J. Li | Co-Conveners: Dr Turner, A. Bracco, P. Terray

**Room: 35**

Chairperson: n.n.

10:30–11:15

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**PSD10.4 – AS3.5 - Aerosol Chemistry and Microphysics (General Session) – Orals**

Convener: M. Kalberer | Co-Conveners: U. K. Krieger, F. Pope

**Room: 35**

Chairperson: n.n.

15:30–16:15

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**PSD10.5 – AS2.1 - Air-Land Interactions (General Session) (co-sponsored by iLEAPS) – Orals**

Convener: A. Ibrom | Co-Conveners: T. Foken

**Room: 35**

Chairperson: n.n.

19:15–20:00

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**PSD10.6 – AS2.3 - Boundary Layers in High Latitudes: Physical and Chemical Processes Including Atmosphere-Ice Chemical Interactions (AICI) – Orals**

Convener: WD Neff | Co-Conveners: G Heinemann, A. Jones, V. F. McNeill, S. Argentini, P. Anderson, T. Bartels-Rausch  
**Room: 37**

Chairperson: n.n.

19:00–19:45

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**PSD11.8 – GD8.1/TS9.6 - Recent advances in computational geodynamics – Orals**

Convener: B.J.P. Kaus | Co-Conveners: M. Dabrowski, A. Popov

**Room: 35**

Chairperson: n.n.

16:30–17:15

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**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 – Orals**

Convener: I.M. Artemieva | Co-Conveners: S. V. Bogdanova, M. Kopylova

**Room: SM2**

Chairperson: n.n.

15:30–16:15

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**PSD11.12 – GD2.3/GMPV6.8/SM3.6/TS9.8 - Heat flow and thermal regime of the lithosphere: Deep and surface processes – Orals**

Convener: A. Vaughan | Co-Conveners: I. T. Kukkonen, I.M. Artemieva, I. Rogozhina, N. Kusznir

**Room: 40**

Chairperson: n.n.

16:30–17:15

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**PSD13.1 – G5.1 - Observing and understanding Earth rotation variability and its geophysical excitation – Orals**

Convener: F. Seitz | Co-Conveners: D. Salstein, A. Brzezinski

**Room: 37**

Chairperson: n.n.

15:30–16:15

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**PSD14.3 – GI2.1/AS4.6 - Atmospheric and Meteorological Instrumentation – Orals**

Convener: J. Vivekanandan | Co-Conveners: D. Parsons, M. Rose, C. Waldmann, J. Reuder, M. Lange, A. La Cour-Harbo

**Room: 40**

Chairperson: n.n.

08:30–09:15

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**PSD14.5 – GI1.1 - Open Session on Geoscience Instrumentation – Orals**

Convener: H. Svedhem | Co-Conveners: W. Schmidt, J.-L. Josset, Prof. Korepanov

**Room: 35**

Chairperson: n.n.

18:30–19:15

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**PSD15.3 – SSP4.2 - Palaeoclimate records from speleothems: analytical techniques, proxies, and application (sponsored by IAS) – Orals**

Convener: D. Scholz | Co-Conveners: D. Hoffmann, H. Stoll

**Room: 40**

Chairperson: n.n.

11:30–12:15

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**PSD16.3 – HS5.6 - Climate Change and Impact on Drinking Water Supply – Orals**

Convener: B. Cencur Curk | Co-Conveners: A. Busuioc, H.-P. Nachtnebel, i. bogardi

**Room: 35**

Chairperson: n.n.

17:30–18:15

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**PSD16.4 – HS4.6 - Why predict? The value of prediction in hydrological sciences and policy – Orals**

Convener: J.S. Verkade | Co-Conveners: H. Winsemius, A. Iglesias, M. Haasnoot, S. Dessai

**Room: 37**

Chairperson: n.n.

16:30–17:15

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**PSD16.7 – HS10.1 - Lakes and inland seas – Orals**

Convener: P. Zavialov | Co-Conveners: J. Friedrich, E. Roget

**Room: 37**

Chairperson: n.n.

08:30–09:15

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**PSD16.15 – HS8.2.5 - Sedimentary basins as active fluid circulation systems – Orals**

Convener: D. Hindle | Co-Conveners: A. Niemi, U. Bethers, S. Attinger, E. Luijendijk

**Room: 37**

Chairperson: n.n.

11:30–12:15

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**PSD17.4 – PS3.3 - Rings and icy satellites – Orals**

Convener: L. Spilker | Co-Conveners: H. Hussmann, S. K. Atreya, A. Coustenis

**Room: 37**

Chairperson: n.n.

13:30–14:15

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**PSD18.1 – IG4 - Isotopes and Isoscapes as Tool for Forensic Provenancing – Orals**

Convener: Dr Meier-Augenstein | Co-Conveners: J. Hoogewerff, L. Dawson

**Room: 35**

Chairperson: n.n.

13:30–14:15

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**PSD19.2 – NH1.4/AS4.14 - Lightning: physics, detection and atmospheric effects – Orals**

Convener: Y. Yair | Co-Conveners: S. Soula, H. D. Betz, Y. Takahashi, C. Price

**Room: 40**

Chairperson: n.n.

15:30–16:15

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**PSD19.3 – NH2.1 - Modeling of Volcanic Hazards (including Arne Richter Award for Outstanding Young Scientists Lecture) – Orals**

Convener: S. Charbonnier | Co-Conveners: C. Bonadonna, C. Connor

**Room: 40**

Chairperson: n.n.

14:30–15:15

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**PSD19.13 – NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality – Orals**

Convener: M.G. Pereira | Co-Conveners: R. Trigo, M. Penning de Vries, Dr Clarisse, L Boschetti, A. Camia

**Room: 37**

Chairperson: n.n.

14:30–15:15

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**PSD20.8 – BG2.3 - Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems –**

Orals

Convener: L. Montagnani | Co-Conveners: P Smith, W. L. Kutsch, M. Wattenbach, LM Merbold, P.C.S. Stoy, C. Brümmer, d. zanutelli

**Room: SM2**

Chairperson: n.n.

14:30–15:15

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**PSD21.10 – ST2.4/PS5.4 - Terrestrial and planetary magnetotails and their response to variable upstream conditions**

– Orals

Convener: E. Tanskanen | Co-Conveners: R. Nakamura, C. Jackman, S. Imber

**Room: SM1**

Chairperson: n.n.

12:15–13:00

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**PSD22.6 – GMPV4.2/TS4.9 - Volcanoes: Tectonics, Deformation, Geodesy – Orals**

Convener: V. Acocella | Co-Conveners: G. Puglisi, S. Jonsson, T. R. Walter, A. Gudmundsson

**Room: 35**

Chairperson: n.n.

08:30–09:15



Tuesday, 24 April

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**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 – Orals**

Convener: T. R. Walter | Co-Conveners: R. Malservisi, R. Lanari, M. Shirzaei, F. Zucca, T. Dixon

**Room: SM2**

Chairperson: n.n.

12:15–13:00

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**PSD2.13 – TS9.4 - Geophysical methods in the service of Structural Geology – Orals**

Convener: S.-A. OUADFEUL | Co-Conveners: L. Aliouane, A. Boudella, A. Khalil

**Room: SM5**

Chairperson: n.n.

15:30–16:15

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**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 – Orals**

Convener: O. Cerdan | Co-Conveners: B. MARIN, O. Malam Issa, J. L. Rajot

**Room: 35**

Chairperson: n.n.

13:30–14:15

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**PSD4.10 – SSS7.6 - Movement and Fate of eroded soil organic matter in terrestrial ecosystems – Orals**

Convener: N. J. Kuhn | Co-Conveners: T. Quine, K. Van Oost, m. evans

**Room: 37**

Chairperson: n.n.

15:30–16:15

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**PSD5.2 – SM1.4/G6.2/GI1.6 - Integrating large-scale European Research infrastructures for solid Earth Sciences: from data centers to core services – Orals**

Convener: M. Cocco | Co-Conveners: R. Carbonell, C. Thomas, L. Demicheli, T. Eck Van, F. Boler

**Room: 37**

Chairperson: n.n.

19:15–20:00

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**PSD5.5 – SM3.4/TS9.10 - Active seismic investigations of the Earth's crust – Orals**

Convener: Dr. Malehmir | Co-Conveners: S. Buske

**Room: 40**

Chairperson: n.n.

19:00–19:45

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**PSD6.7 – ERE2.4 - Modelling and upscaling of CO2 storage sites – Orals**

Convener: T. Kempka | Co-Conveners: M. Dentz, A. Niemi, H. Class, J. Carrera

**Room: SM7**

Chairperson: n.n.

12:15–13:00

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**PSD7.2 – OS4.3 - Ocean Remote Sensing – Orals**

Convener: A. Alvera-Azcárate | Co-Conveners: J. Font, G. Han, C. Gommenginger, S. Mecklenburg, N. Reul, M. Drusch

**Room: 40**

Chairperson: n.n.

15:30–16:15

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**PSD8.2 – NP3.2 - Geophysical Extremes: Scaling representations and their applications – Orals**

Convener: AB Bunde | Co-Conveners: A. A. Carsteanu, A. Langousis, S. Lennartz

**Room: 40**

Chairperson: n.n.

10:30–11:15

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**PSD8.3 – NP4.2 - Satellite time series analysis – Orals**

Convener: R. Lasaponara | Co-Conveners: A. Lanorte, D. G. P. Petropoulos

**Room: 40**

Chairperson: n.n.

08:30–09:15

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**PSD9.3 – CL1.13 - Decadal to millennial scale climate variability – Orals**

Convener: M.-S. Seidenkrantz | Co-Conveners: A. Svensson, A. Kuijpers, M.-A. Sicre, S. O. Rasmussen, W. Hoek, S. Blockley, H. Renssen, M. Faurschou Knudsen, M.F.A. Furze, G. Masse, A. Pienkowski, J. Olsen

**Room: 40**

Chairperson: n.n.

17:30–18:15

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**PSD9.4 – CL1.17/EG1 - Reconstructing the climate of the last two millennia (including Hans Oeschger Medal Lecture) – Orals**

Convener: J. Luterbacher | Co-Conveners: E. Zorita, D. McCarroll, L. von Gunten, F. González-Rouco

**Room: 40**

Chairperson: n.n.

13:30–14:15

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**PSD10.3 – AS1.21 - Quantitative precipitation forecasting in complex terrain: Results of the Convective and Orographically-induced Precipitation Study (COPS) and other campaigns – Orals**

Convener: Dr. Wulfmeyer | Co-Conveners: R. Steinacker, MW Rotach, P. Di Girolamo, M. Dorninger, C. Kottmeier, A. Behrendt

**Room: 35**

Chairperson: n.n.

08:30–09:15

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**PSD10.8 – AS4.4/BG2.16 - Boreal forest chemistry and physics – Orals**

Convener: J. Williams | Co-Conveners: T. Petäjä

**Room: 37**

Chairperson: n.n.

10:30–11:15

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**PSD10.10 – AS4.8 - Infrasound monitoring for atmospheric studies – Orals**

Convener: A. Le Pichon | Co-Conveners: Dr L.G. Evers, T. Kvaerna

**Room: 35**

Chairperson: n.n.

10:30–11:15

**PSD11.4 – GD4.1/GMPV6.16 - Mid-ocean ridge processes and their consequences: melting and melt extraction from a heterogeneous mantle – Orals**

Convener: R. Katz | Co-Conveners: C.J. Lissenberg, A. Stracke, M. Godard

**Room: 37**

Chairperson: n.n.

13:30–14:15

**PSD11.5 – GD4.2/SM2.8/TS5.3 - Evolution of the North and South Atlantic, adjacent continents, and passive continental margins, in general – Orals**

Convener: U. A. Glasmacher | Co-Conveners: R.B. Trumbull, H.-P. Bunge, Dr.scient. Japsen, M. Scheck-Wenderoth, A. O. B. Franco-Magalhaes, P. C. Hackspacher, F. Guillocheau

**Room: 37**

Chairperson: n.n.

14:30–15:15

**PSD12.4 – GM5.1 - Aeolian Processes and Landforms – Orals**

Convener: J.M. Nield | Co-Conveners: J. King

**Room: 40**

Chairperson: n.n.

14:30–15:15

**PSD12.5 – GM4.4/BG1.8 - Biophysical processes: from biological soil crusts to macro process – Orals**

Convener: G. J. Kidron | Co-Conveners: JM Turowski, M. Stoffel, S. Rice, J. Belnap, X. Li, B. Büdel, S. Lane

**Room: 35**

Chairperson: n.n.

14:30–15:15

**PSD14.1 – GI3.4 - From Artefact to Historical Site : Geoscience and Non-Invasive Methods for the Study and Conservation of Cultural Heritage – Orals**

Convener: N. Masini | Co-Conveners: L.V. Eppelbaum, M. Alvarez de Buergo, F. Soldovieri

**Room: 35**

Chairperson: n.n.

19:15–20:00

**PSD15.4 – SSP4.10 - Larger foraminifera: biostratigraphy, biogeography and field applications (sponsored by PalAss) – Orals**

Convener: A. Briguglio | Co-Conveners: M. Di Carlo

**Room: 40**

Chairperson: n.n.

11:30–12:15

**PSD16.2 – HS5.8 - Catchment science, management and stakeholder participation – Orals**

Convener: M. Wilkinson | Co-Conveners: T Krueger, P. Quinn, A. Castelletti, G. Carr, A. Voinov, K. Daniell, S. Tellier

**Room: 35**

Chairperson: n.n.

15:30–16:15

**PSD16.6 – HS8.2.1 - Stochastic groundwater hydrology – Orals**

Convener: M. Riva | Co-Conveners: A. Guadagnini, D. Fernandez-Garcia, X. Sanchez-Vila

**Room: 35**

Chairperson: n.n.

16:30–17:15

**PSD17.2 – PS2.2 - Venus – Orals**

Convener: H. Svedhem | Co-Conveners: D. Titov

**Room: 37**

Chairperson: n.n.

08:30–09:15

**PSD19.1 – NH1.11/AS4.16/CL2.4 - Hazard Risk Managment in Agriculture and Agroecosystems – Orals**

Convener: A. M. Tarquis | Co-Conveners: N. R. Dalezios, A. Saa, M. Semenov, A. Gobin, M. Ruiz-Ramos, M. van der Velde, M. Ramos

**Room: 35**

Chairperson: n.n.

12:15–13:00

**PSD19.26 – NH9.9 - Natural hazard impact on technological systems and urban areas – Orals**

Convener: E.G. Petrova | Co-Conveners: E. Krausmann, M. Naranjo, C. Arregoitia

**Room: 37**

Chairperson: n.n.

11:30–12:15

**PSD20.1 – BG2.15 - Biotic interactions and biogeochemical processes – Orals**

Convener: M. Bahn | Co-Conveners: M. Preston, M. Reichstein, R. Bardgett, S. Quideau, A. Munson

**Room: 35**

Chairperson: n.n.

17:30–18:15

**PSD20.3 – BG3.2 - Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture) – Orals**

Convener: H. Thomas | Co-Conveners: A. V. Borges

**Room: 37**

Chairperson: n.n.

17:30–18:15

**PSD20.4 – BG5.2 - Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System – Orals**

Convener: P. Groisman | Co-Conveners: D. McCabe, D. Schepaschenko, A. Olchev

**Room: 37**

Chairperson: n.n.

16:30–17:15

**PSD21.5 – ST1.5 - 3D structure and physical nature of the global heliosphere – Orals**

Convener: V. V. Izmodenov | Co-Conveners: P. Wurz, H. Fichtner

**Room: 35**

Chairperson: n.n.

11:30–12:15

**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 – Orals**

Convener: I. Ashchepkov | Co-Conveners: J. van Hunen, C. Szabo

**Room: 40**

Chairperson: n.n.

12:15–13:00

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**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) – Orals**

Convener: C. Chauvel | Co-Conveners: O. Jagoutz, K. Kelly

**Room: 37**

Chairperson: n.n.

12:15–13:00

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**PSD22.8 – GMPV4.7 - Physics and dynamics of magma ascent, emplacement, eruption and deposition in volcanic systems – Orals**

Convener: O. Galland | Co-Conveners: M. Kervyn, S. Burchardt, G. Gisler, G. A. Douillet, J. Kavanagh, C. Annen, N. Le Corvec, E. P. Holohan, D. M. Doronzo

**Room: SM5**

Chairperson: n.n.

16:30–17:15

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**PSD23.1 – ESS1.2/OS4.7 - Informatics in Oceanography and Ocean Science – Orals**

Convener: G. M. R. Manzella | Co-Conveners: D. M. A. Schaap, A. Alvarez

**Room: 40**

Chairperson: n.n.

16:30–17:15

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**PSD23.2 – ESS1.4 - New Data Paradigms, Modeling, and International Collaboration Strategies for Earth System Sciences (including Ian McHarg Medal Lecture) – Orals**

Convener: D. K. Arctur | Co-Conveners: D. Lunt, M. Ramamurthy, M. Petitdidier, B. Lawrence, S. Fiore, K. Lehnert, L. J. Slooten

**Room: 35**

Chairperson: n.n.

18:30–19:15

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**PSD23.3 – ESS1.6 - Laser Scanning: 3D Spatial Data, Analysis, and Infrastructures in Geosciences – Orals**

Convener: B. Höfle | Co-Conveners: B. Székely, N. Pfeifer, A. Zipf

**Room: 37**

Chairperson: n.n.

18:30–19:15

Wednesday, 25 April

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**PSD1.5 – CR1.90 - Modeling, measurements and applications of snow stratigraphy and microstructure – Orals**

Convener: S. Morin | Co-Conveners: H. Loewe

**Room: 37**

Chairperson: n.n.

13:30–14:15

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**PSD4.10 – SSS11.3 - Soil and irrigation sustainability practices – Orals**

Convener: L. Rodriguez-Sinobas | Co-Conveners: A. M. Tarquis, G. Provenzano, R. Moratiel, J. C. Cury Saad, J. Roldán Cañas, R. L. Snyder

**Room: 37**

Chairperson: n.n.

19:00–19:45

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**PSD4.11 – SSS11.8 - Cotton production practices impacts soil quality – Orals**

Convener: B. Desouza | Co-Conveners: P. Servadio, D.K.Y. Tan

**Room: 37**

Chairperson: n.n.

10:30–11:15

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**PSD4.13 – SSS7.3 - Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments – Orals**

Convener: C. Santin | Co-Conveners: S. Doerr, J. M. De la Rosa

**Room: 35**

Chairperson: n.n.

14:30–15:15

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**PSD4.14 – SSS11.3 - Soil and irrigation sustainability practices – Orals**

Convener: L. Rodriguez-Sinobas | Co-Conveners: A. M. Tarquis, G. Provenzano, R. Moratiel, J. C. Cury Saad, J. Roldán Cañas, R. L. Snyder

**Room: 35**

Chairperson: n.n.

19:00–19:45

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**PSD5.7 – SM3.2 - In QUEST of seismic models for sources and Earth's structure – Orals**

Convener: P. Poli | Co-Conveners: A. Schiemenz, L. Gualtieri, A. Colombi

**Room: SM2**

Chairperson: n.n.

12:15–13:00

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**PSD5.9 – SM1.3/GI1.7 - Improving seismic networks performances: from site selection to data integration – Orals**

Convener: D. Pesaresi | Co-Conveners: F. Vernon

**Room: 40**

Chairperson: n.n.

14:30–15:15

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**PSD5.10 – SM3.1/AS4.20 - Research and Development in Nuclear Explosion Monitoring – Orals**

Convener: A. Becker | Co-Conveners: B. Kalinowski, L. Ceranna, D. BROWN, Y. Jia

**Room: 37**

Chairperson: n.n.

15:30–16:15

**PSD6.11 – ERE2.1 - Long-term storage of CO<sub>2</sub> in geological systems: Results from laboratory studies – Orals**

Convener: A. Amann | Co-Conveners: A. Busch, S. Krevor

**Room: SM2**

Chairperson: n.n.

15:30–16:15

**PSD7.9 – OS3.1 - 'Sensitivity of marine ecosystems, biogeochemical cycles and carbon uptake to global change'. – Orals**

Orals

Convener: B. Salihoglu | Co-Conveners: A. V. Borges, V. Garçon, Robinson, Garbe

**Room: 40**

Chairperson: n.n.

13:30–14:15

**PSD8.4 – NP3.4/BG2.23/SSS1.7 - Scaling, Nonlinearity, and Complexity in soils – Orals**

Convener: A. M. Tarquis | Co-Conveners: E. Perrier, M. Marani, C. W. Mueller, D. Gimenez, A. N. Kravchenko, R. M. Lark, R. E. Falconer, M. Steffens, R. Viscarra Rossel, J. Crawford, F. Jimenez-Hornero

**Room: 40**

Chairperson: n.n.

10:30–11:15

**PSD10.12 – AS3.2 - Halogens in the Troposphere – Orals**

Convener: R. von Glasow | Co-Conveners: R. Sander, R. Volkamer, L.J. Carpenter, A. Saiz-Lopez, J.M.C. Plane

**Room: SM2**

Chairperson: n.n.

13:30–14:15

**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 – Orals**

Convener: E. Burov | Co-Conveners: A. Watts, P. H. Leloup, L. Jolivet, Y. Podladchikov

**Room: 35**

Chairperson: n.n.

15:30–16:15

**PSD12.6 – GM2.4 - Complexity and nonlinearity in Earth surface processes Concepts, methods and applications – Orals**

Orals

Convener: M. Keiler | Co-Conveners: A.J.A.M. Temme, A. Lang, D. Karssenberg

**Room: 37**

Chairperson: n.n.

14:30–15:15

**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 – Orals**

Convener: S. Neto | Co-Conveners: L.C. Chicharo, N. A. Coles, J.K. Camkin

**Room: 35**

Chairperson: n.n.

10:30–11:15

**PSD16.11 – HS4.1/GM7.8/NH1.7 - Flash floods: processes, forecasting and risk management – Orals**

Convener: M. Borga | Co-Conveners: J. Szolgay, G. Blöschl, J. J. Gourley, J. Boardman, G. T. Aronica, E. Gaume

**Room: 35**

Chairperson: n.n.

13:30–14:15

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**PSD16.12 – HS5.5 - Models and computational methods for management and optimization of controlled water resources systems – Orals**

Conveners: R.R.P. van Nooijen, N. Schuetze | Co-Conveners: Young, A. Castelletti, A. Kolechkina, F. Pianosi, P. Bayer, Th. Wöhling

**Room: 40**

Chairperson: n.n.

11:30–12:15

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**PSD16.13 – HS3.3 - Poster Session on Open Source Computing in Hydrology – Orals**

Convener: P. Paron | Co-Conveners: A. Castellarin, J. Seibert, A. van Griensven, L. Brandimarte

**Room: 35**

Chairperson: n.n.

11:30–12:15

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**PSD16.14 – HS8.1.3 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology – Orals**

Convener: O. Ippisch | Co-Conveners: J. Vrugt, H.-J. Hendricks Franssen, Th. Wöhling

**Room: 35**

Chairperson: n.n.

16:30–17:15

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**PSD17.1 – PS1.2/AS4.21/ST6.1 - Polarimetry as an invaluable tool to study the Solar System and beyond. – Orals**

Convener: M. Barthelemy | Co-Conveners: C.L. Simon Wedlund, H. LAMY, F. Snik, S. Bagnulo

**Room: 37**

Chairperson: n.n.

08:30–09:15

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**PSD17.5 – PS6.1 - Exoplanets: formation, dynamics and processes – Orals**

Convener: D. Winterhalter | Co-Conveners: L. Kaltenegger, J. Cho, A. Segura

**Room: 35**

Chairperson: n.n.

08:30–09:15

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**PSD19.8 – NH5.5 - Storm Surges and coastal areas: extreme events, damages, and risk – Orals**

Convener: C. Muddersbach | Co-Conveners: D. Rybski, J. Jensen, J. Kropp

**Room: 40**

Chairperson: n.n.

12:15–13:00

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**PSD19.9 – NH5.3/NP 7.3/OS2.6 - Nonlinear Dynamics of the Coastal Zone – Orals**

Convener: I. Didenkulova | Co-Conveners: E. Pelinovsky

**Room: 35**

Chairperson: n.n.

12:15–13:00

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**PSD19.10 – NH5.6 - Sea hazards and ship operations – Orals**



Convener: E. Bitner-Gregersen | Co-Conveners: A. Toffoli

**Room: 40**

Chairperson: n.n.

08:30–09:15

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**PSD19.11 – NH5.7/ESSI1.7 - Architecture of Future Tsunami Warning Systems – Orals**

Convener: J. Wächter | Co-Conveners: S. Tinti, Z A Sabeur, K. Watson

**Room: 37**

Chairperson: n.n.

12:15–13:00

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**PSD19.21 – NH9.7 - Vulnerability assessments in natural hazard and risk analysis – Orals**

Convener: S. Fuchs | Co-Conveners: T. Glade, J. Birkmann

**Room: 35**

Chairperson: n.n.

09:30–10:15

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**PSD19.27 – NH9.10 - Incorporating spatio-temporal variability into risk management – Orals**

Convener: C. Neuhold | Co-Conveners: S. Fuchs, C. Aubrecht

**Room: 40**

Chairperson: n.n.

15:30–16:15

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**PSD19.29 – PSD19.29 - Storm surges, coastal flooding and erosion: extreme events, damage and risk – Orals**

Convener: C. Muddersbach | Co-Conveners: D. Rybski, F. J. Mendez, J. Jensen, R. J. Nicholls, J. Kropp, B. Zanuttigh

**Room: 40**

Chairperson: n.n.

16:30–17:15

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**PSD19.30 – NH3.12 - SafeLand Project and other research on effects of global change on spatial and temporal patterns of landslide risk – Orals**

Convener: F. Nadim | Co-Conveners: J. Corominas, H. Modaressi, j. bayer, Picarelli, L. Cascini, N. Casagli

**Room: SM2**

Chairperson: n.n.

14:30–15:15

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**PSD20.5 – BG6.2 - Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture) – Orals**

Convener: LJ de Nooijer | Co-Conveners: G.-J. Reichart, K. G. Schulz, A. Meibom

**Room: 40**

Chairperson: n.n.

17:30–18:15

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**PSD20.7 – BG3.1 - Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery – Orals**

Convener: C. P. Slomp | Co-Conveners: J. Middelburg, A. Boetius

**Room: 37**

Chairperson: n.n.

11:30–12:15

**PSD22.7 – GMPV4.10/GM2.7 - Spatio-temporal perspectives on volcanological processes and volcanic landforms –**  
Orals

Conveners: H. Tuffen, D. Karátson, A. Germa | Co-Conveners: B. Székely

**Room: SM1**

Chairperson: n.n.

13:30–14:15

## Thursday, 26 April

**PSD2.10 – TS10.1 - Geodynamic, tectonic and paleoenvironmental evolution of the Eastern Mediterranean: from Dinarides to Turkey – Orals**

Convener: L. Le Pourhiet | Co-Conveners: K. Ustaszewski, A. Okay, N. Chamot-Rooke, D. J. J. van Hinsbergen, B. Huet

**Room: SM2**

Chairperson: n.n.

12:15–13:00

**PSD4.12 – SSS11.2 - Soil Management for Sustainable Agro food Systems – Orals**

Convener: R. García Moreno | Co-Conveners: M.C. Díaz Álvarez, J. A. Campos Gallego, J. Crawford, J. A. Amoros, P. White

**Room: SM7**

Chairperson: n.n.

15:30–16:15

**PSD7.6 – OS2.3 - Oceanography at coastal scales. Modelling, coupling and observations – Orals**

Convener: A. Sánchez-Arcilla | Co-Conveners: S. Carniel, J. Wolf, E. Stanev

**Room: 37**

Chairperson: n.n.

10:30–11:15

**PSD7.10 – OS4.6/EOS3 - Ocean Science Outreach and Education – Orals**

Convener: V. Rosmorduc | Co-Conveners: D. De Staerke, M. Srinivasan, V. Byfield

**Room: 37**

Chairperson: n.n.

11:30–12:15

**PSD7.11 – OS1.4 - The Southern Ocean and its Role in the Global Climate System – Orals**

Convener: Y. H. Park | Co-Conveners: K. J. Heywood, R. Timmermann

**Room: 35**

Chairperson: n.n.

13:30–14:15

**PSD8.7 – NP7.2 - Wind-wave-current interactions, internal waves in stratified media and ocean mixing – Orals**

Convener: P. Fraunie | Co-Conveners: V. Rey, P. Bouruet-Aubertot, L. Ostrovsky, M. Diez

**Room: 37**

Chairperson: n.n.

14:30–15:15

**PSD8.8 – NP6.4/PS9.4 - Solar wind and astrophysical turbulence and shocks – Orals**

Convener: L. Sorriso-Valvo | Co-Conveners: J. M. Redondo, E. Meshkov

**Room: 40**

Chairperson: n.n.

10:30–11:15

**PSD9.6 – CL4.5/OS1.8 - Global and regional sea level rise and variability: from past to future – Orals**

Convener: S. Jevrejeva | Co-Conveners: A. Cazenave, A. Grinsted

**Room: 35**

Chairperson: n.n.

17:30–18:15

**PSD9.8 – CL4.9/AS1.4 - Synoptic climatology methods and applications – Orals**

Convener: C. Beck | Co-Conveners: A. Philipp, J. Jacobeit

**Room: 40**

Chairperson: n.n.

13:30–14:15

**PSD9.10 – CL2.3 - Urban climate, urban heat island and urban biometeorology – Orals**

Convener: K. Kourtidis | Co-Conveners: K. de Ridder, T. Prieto-Lopez

**Room: 40**

Chairperson: n.n.

17:30–18:15

**PSD10.1 – AS1.2 - Numerical weather prediction, data assimilation and ensemble forecasting – Orals**

Convener: H. Ólafsson | Co-Conveners: J.-W. Bao

**Room: 35**

Chairperson: n.n.

15:30–16:15

**PSD10.11 – AS4.5/BG2.17/CL2.6 - Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate – Orals**

Convener: B. Bonn | Co-Conveners: M. Boy, S. M. Noe

**Room: SM2**

Chairperson: n.n.

10:30–11:15

**PSD11.3 – GD3.1/GM3.7/SM4.4/TS1.6 - Plate kinematics, mantle convection, paleogeography and sea level – Orals**

Convener: R. D. Müller | Co-Conveners: G. Laske, H.-P. Bunge, S. Brune, Y. Ricard, J. Golonka, M. Seton, L. Quevedo, G. Helffrich

**Room: 35**

Chairperson: n.n.

14:30–15:15

**PSD11.7 – GD6.1/GMPV6.13/SM4.5 - Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives – Orals**

Convener: P. Tackley | Co-Conveners: J. H. Davies, C. Thomas

**Room: 37**

Chairperson: n.n.

13:30–14:15

**PSD12.7 – GM2.2 - Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes – Orals**

Convener: J. K. Hillier | Co-Conveners: D.C. Mason, P. Tarolli, P. Passalacqua, S. Conway

**Room: 40**

Chairperson: n.n.

14:30–15:15

**PSD12.8 – GM2.2 - Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes – Orals**

Convener: J. K. Hillier | Co-Conveners: D.C. Mason, P. Tarolli, P. Passalacqua, S. Conway

**Room: 37**

Chairperson: n.n.

12:15–13:00

**Room: 40**

Chairperson: n.n.

15:30–16:15

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**PSD12.9 – GM6.2/HS9.6/SSS5.21 - Connectivity in water and sediment dynamics: how do we move forwards? – Orals**

Convener: A. Parsons | Co-Conveners: L. Bracken, D. Dunkerley, J. Wainwright, S.D. Keesstra, R. Poepl

**Room: SM2**

Chairperson: n.n.

13:30–14:15

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**PSD12.10 – GM10.1/PS2.9 - Planetary Geomorphology – Orals**

Convener: S. Conway | Co-Conveners: M. Balme, C. Gallagher

**Room: SM7**

Chairperson: n.n.

12:15–13:00

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**PSD13.2 – G4.1 - Gravity field research - data acquisition - processing and - interpretation – Orals**

Convener: B. Meurers | Co-Conveners: M. Kaban, H.-J. Götze, C. Braitenberg, G. Strykowski

**Room: SM1**

Chairperson: n.n.

12:15–13:00

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**PSD14.4 – GI3.5 - Electromagnetic sensing techniques and geophysical methods for critical and transport infrastructures monitoring and diagnostics – Orals**

Convener: J. Dumoulin | Co-Conveners: F. Soldovieri, L. Bigagli, S. Nordebo

**Room: 37**

Chairperson: n.n.

17:30–18:15

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**PSD16.1 – HS2.10 - Experimental design and measurement techniques in surface water/groundwater interaction studies – Orals**

Convener: H. Hofmann | Co-Conveners: L. Stellato, M. Schubert

**Room: 37**

Chairperson: n.n.

15:30–16:15

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**PSD17.3 – PS3.1 - Outer planet satellites with an atmosphere – Orals**

Convener: A. Coustenis | Co-Conveners: Ph.D. Orton, S. K. Atreya, J.-P. Lebreton

**Room: 35**

Chairperson: n.n.

08:30–09:15

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**PSD19.5 – NH5.1 - New developments in tsunami science and in mitigation of tsunami risk, including early warning – Orals**

Convener: S. Tinti | Co-Conveners: H. Hebert, I. Didenkulova, Dominey-Howes

**Room: 37**

Chairperson: n.n.

08:30–09:15

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**PSD19.19 – NH9.1 - Natural Catastrophe Risk Assessment: Integrating Public Private Academic Partnerships into Applications and Decision Making – Orals**

Conveners: R. Gunasekera, A. Werner | Co-Conveners: M. Wüest, R. Muir-Wood, A. Allmann

**Room: 40**

Chairperson: n.n.

12:15–13:00

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**PSD19.31 – NH9.8/EOS9 - Geoethics and natural hazards: communication, education and the science-policy-practice interface – Orals**

Convener: S. Peppoloni | Co-Conveners: J. Wasowski, E. Lindquist, S. Sargeant, P. Reitan, SW Kieffer, G. Devoli

**Room: 35**

Chairperson: n.n.

16:30–17:15

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**PSD23.4 – ESSI2.4 - Full lifecycle of data and large scale data analytics – Orals**

Convener: C. Jacobs | Co-Conveners: P. Fox, B. Lawrence, S. Fiore, D. K. Arctur, G. Aloisio

**Room: 35**

Chairperson: n.n.

18:30–19:15

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**PSD23.5 – ESSI2.5 - Metadata and Data Models, and Markup Languages – Orals**

Convener: A. Woolf | Co-Conveners: P. Diviacco, S J D Cox, L. Bigagli, J.D. Blower

**Room: 37**

Chairperson: n.n.

18:30–19:15

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**PSD23.6 – ESSI2.12 - Real Use of Standards and Technologies - Live Demonstrations – Orals**

Convener: J. van de Vegte | Co-Conveners: M. Santoro, D. K. Arctur

**Room: 40**

Chairperson: n.n.

18:30–19:15

## Friday, 27 April

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### **PSD1.4 – CR8.10 - Mountain snow cover and avalanche formation – Orals**

Convener: J. Schweizer | Co-Conveners: D. McClung, K. Kronholm, A. van Herwijnen

**Room: 40**

Chairperson: n.n.

13:30–14:15

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### **PSD4.10 – SSS12.1 - Teaching Soil Science or how to teach that dirt is fascinating – Orals**

Convener: A Jordán | Co-Conveners: J. Liddicoat, L. M. Zavala, D. Badía-Villas

**Room: 35**

Chairperson: n.n.

10:30–11:15

**Room: 37**

Chairperson: n.n.

12:15–13:00

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### **PSD5.8 – SM3.10/EMRP2.10/ERE5.5 - Seismo-electromagnetic conversions: observations, theory and modelling – Orals**

Convener: J. Holzhauer | Co-Conveners: E. Slob, M. Dietrich

**Room: 35**

Chairperson: n.n.

14:30–15:15

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### **PSD7.12 – OS1.6 - Ocean dynamics and Air-sea interactions within the tropics – Orals**

Convener: A. LAZAR | Co-Conveners: M. Dengler, P. Chang

**Room: 37**

Chairperson: n.n.

08:30–09:15

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### **PSD7.16 – OS1.2 - The North Atlantic: natural variability and global change – Orals**

Convener: M. Rhein | Co-Conveners: R.J. Greatbatch

**Room: SM2**

Chairperson: n.n.

08:30–09:15

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### **PSD7.17 – OS5.2 - Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean – Orals**

Convener: A. Babanin | Co-Conveners: M. Onorato, F. Qiao

**Room: 40**

Chairperson: n.n.

09:30–10:15

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### **PSD8.5 – NP6.6 - Magnetic reconnection and turbulence in Space, Laboratory and Astrophysical Systems – Orals**

Convener: G. Lapenta | Co-Conveners: A. Lazarian, A. Retino`, S. Poedts

**Room: 40**

Chairperson: n.n.

08:30–09:15

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### **PSD9.7 – CL4.8/BG2.22 - Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests – Orals**

Convener: F. D'Aprile | Co-Conveners: D. Dunkerley, N. Tapper

**Room: 40**

Chairperson: n.n.

12:15–13:00

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**PSD11.6 – GD5.1/GMPV6.2/SM2.2/TS6.5 - Subduction dynamics from surface to deep mantle – Orals**

Convener: S. Buiter | Co-Conveners: F. Funiciello, J. van Hunen

**Room: 37**

Chairperson: n.n.

09:30–10:15

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**PSD16.9 – HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone – Orals**

Convener: S. Krause | Co-Conveners: J.H. Fleckenstein, F. Boano, J. Lewandowski, M. O. Cuthbert

**Room: 35**

Chairperson: n.n.

08:30–09:15

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**PSD17.6 – PS7.1 - Experimental and theoretical simulations – Orals**

Conveners: L. Colangeli, J. Martin-Torres | Co-Conveners: R. Ziethe, K. Seiferlin, Sears

**Room: SM1**

Chairperson: n.n.

13:30–14:15

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**PSD19.15 – NH8.2 - Medical Geochemistry: processes occurring between geological materials and human/biological interfaces – Orals**

Convener: P. Censi | Co-Conveners: M. L. Giannossi, L. Randazzo, Y. Erel, T. Darrah

**Room: 35**

Chairperson: n.n.

11:30–12:15

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**PSD19.24 – NH6.2 - Snow avalanche dynamics including interaction with structures, hazard mapping and risk management – Orals**

Convener: F. Naaim-Bouvet | Co-Conveners: E. Surinach, T. Faug, M. NAAIM

**Room: SM5**

Chairperson: n.n.

12:15–13:00

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**PSD19.25 – NH9.2 - Social capacity building: an emerging field of research and practice for Europe – Orals**

Convener: C. Kuhlicke | Co-Conveners: A. Steinführer

**Room: 37**

Chairperson: n.n.

11:30–12:15

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**PSD19.28 – NH8.1 - Heavy-metal contamination of the environment – Orals**

Convener: J. A. Holden | Co-Conveners: B. D. Malamud, S. Oeztan

**Room: 35**

Chairperson: n.n.

09:30–10:15

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**PSD19.32 – NH5.2 - Extreme Sea Waves – Orals**



Convener: E. Pelinovsky | Co-Conveners: C Kharif, A. Slunyaev

**Room: SM6**

Chairperson: n.n.

12:15–13:00

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**PSD20.6 – BG6.3/CL5.14/SSP5.4 - Micropaleontology: a key to modern and ancient environments – Orals**

Convener: K. Koho | Co-Conveners: F. Jorissen, A. Sluijs, C. Fontanier

**Room: 40**

Chairperson: n.n.

11:30–12:15

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**PSD21.6 – ST5.1/NH1.10/PS5.5 - Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications – Orals**

Convener: V. Pierrard | Co-Conveners: H. Rothkaehl, N. Crosby

**Room: 35**

Chairperson: n.n.

12:15–13:00

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**PSD21.9 – ST1.1 - Open session on the Sun and heliosphere – Orals**

Convener: V. Bothmer | Co-Conveners: Dr. Malandraki

**Room: SM1**

Chairperson: n.n.

12:15–13:00

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**PSD21.11 – ST1.3 - Particle acceleration mechanisms in solar system plasmas: observations and theory – Orals**

Convener: A. Retinò | Co-Conveners: H. Kucharek, Dr. Malandraki, S. Krucker

**Room: SM2**

Chairperson: n.n.

12:15–13:00

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**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) – Orals**

Convener: E. Ruiz-Agudo | Co-Conveners: A. Putnis, C. V. Putnis

**Room: 35**

Chairperson: n.n.

13:30–14:15

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**PSD23.7 – ESSI2.9 - Intelligent geo-Information Management in the Future Internet – Orals**

Convener: Dr. Havlik | Co-Conveners: S. Nativi, W. Schmidt, Z A Sabeur

**Room: 37**

Chairperson: n.n.

10:30–11:15

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**PSD23.8 – ESSI2.10 - Earth science on Cloud, HPC and Grid – Orals**

Convener: H. Schwichtenberg | Co-Conveners: P. Mazzetti, M. Petitdidier

**Room: 40**

Chairperson: n.n.

10:30–11:15

