

Sessions:

- 01 EM instrumentation, data acquisition, noise, and processing
- 02 EM theory, modelling, inversion, and AI
- 03 Tectonic EM studies of the crust and lithosphere
- 04 EM imaging of magmatic and geothermal systems
- 05 EM methods for mineral exploration and resource studies
- 06 EM for high-latitude, environmental, humanitarian, and archaeological studies
- 07 Monitoring: GICs, CCS, environmental, humanitarian, tectonic and geomorphological hazards
- 08 Marine EM studies
- 09 Electrical rock properties: computer, laboratory and field experiments, including anisotropy
- 10 Global, planetary and source field studies
- 11 EM education, history & outreach

Colour coding:

Review

Oral

Poster

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01O01	Processing of MT Data in Electromagnetically Noisy Environments	G.D.Egbert and M. Yu. Smirnov
01O02	Instrumental effects on electric field measurements	Kalscheuer, T., Zimmermann, U., Sparr, H., Palm Ekspeng, A., Lindblad, A.
01O03	Proposing a common IAGA data format and metadata definition for magnetotelluric time series	Peacock, J. R., Kappler, K., Hueber, J., and IAGA Division VI Working Group on MT Data Interoperability
01O04	The impact of high contact resistances on MT data and how to address them	Ritter, O., Toshniyozov, D., Weckmann, U., Grayver, A., Rebolé-Canals, S., Fromm, T.
01O05	Characterizing and mitigating near-field sources and other noise in a wideband magnetotelluric survey on the U.S. East Coast	Crosbie, J., Peterson, D., Bedrosian, P., Getty, K., Koenig, P., Williams, C., Loya, M., Wirth, H., Wilson, G.
01P01	Recognition-guided adaptive suppression of interference in spread-spectrum induced-polarization data using a feature-token Transformer	Qing Zhang, Rujun Chen, Haojie Qin, Hongchun Yao
01P02	Robust sferic signal recognition for audio magnetotelluric data with Kolmogorov–Arnold nonlinear modeling	Qing Zhang, Rujun Chen, Hongchun Yao
01P03	When Noise is the Structure: A Reversed Self-Supervised Framework for Noise Suppression in AMT Signals	Qing Zhang, Rujun Chen, Hongchun Yao
01P04	High-order pseudo-random signal for electromagnetic explorations	Yang Yang, Changyu Zhou
01P05	Long-Period Magnetotelluric Data Denoising via Time-Frequency Fusion and Self-Supervised Deep Learning	Li, G., Liu, X., Chen, L.
01P06	ExtrEM ? Resistivity imaging up to 10km depth and more with Controlled Source EM in land	Brethau deau F., Patzer C., Védérine S., Kim B., Kamm J.
01P07	Temporal Variability of MT Responses from Three-Year OBEM Records	Hung, C.-H. A., Lin, P.-Y. P., Utada, H., Baba, K.
01P08	Temporal Variability of Natural Electromagnetic Source Fields and Its Influence on MT Data Quality	Erdogan, E., Jones, A. G.,
01P10	Passive power line effects in MT tipper data ? observations from northeastern Finland	Autio, U., Kamm, J., Patzer, C., Roots, E., Hill, G., Marzouk, H., Kovacikova, S., Moorkamp, M.
01P11	Development of a new UAV-towed three-component Receiver System for Semi-airborne Electromagnetics	Rochlitz, R., Ueding, S., Oppermann, F., Kotowski, P., Mörbe, W., Becken, M.
01P12	On the processing of marine controlled source electromagnetic data acquired with a mobile, dual-polarization transmitter and stationary receivers	Hölz, S., Reeck, K., Córdoba-Ramírez, F., Attias, E., Haroon, A.
01P13	SkyTEM DigiTEM systems: a higher level of AEM data acquisition and processing.	Segovia, M.J., Garrie, D., Nyboe, N. S., Nielsen, E.
01P14	Data acquisition unit for broadband magnetotelluric station	Pronenko, V., Shenderuk, S., Prystai, A.
01P15	Skating on thin ice with ground penetrating radar	Leitch, A.
01P16	Frequency-domain controlled-source electromagnetic experiment using high-order pseudo random binary signals emitted in a deep underground laboratory	Y. Yang, Z. Liu, J. Ruan, L. Liu

01P17	Large-scale underground spread spectrum induced polarization (SSIP) imaging system based on wireless synchronization and wireless charging	Rujun Chen, Zhongjiang Wu, Donghai Yu, Kai Yu, Shaoheng Chun
01P18	Mobile system for CSRMT method with towed transmitter	Shlykov, A., Saraev, A. Bobrov, N.
01P19	New drone-based system for semi airborne CSEM	Shlykov, A.
01P20	Direct frequency-domain control of transmitter waveforms for controlled-source electromagnetic surveys	Zhang, H., Yang, Y., He, J., Zhou, C.
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02O02	Applications of KoBold's GPU-accelerated Bayesian inversion pipeline for EM data: from structural mapping to magmatic sulfide targeting	Reid, B., Edman, J., Vinokurov, J.
02O03	Infrastructure-aware semi-airborne electromagnetic inversion for fault zone imaging	Maryam Bayat, Thomas Günther, Raphael Rochlitz, Markus Schiffler
02O04	Upscaling magnetic permeability of steel-cased wells	Heagy, L.J., Oldenburg, D.W.
02O05	4D Magnetotelluric Inversion for Volcanic Monitoring: Evaluation of Time-Lapse Strategies and Constraints on Magma Evolution Beneath Mount St. Helens	Song, H., Moorkamp, M., Hill, G., Roots, E., Chen, C., Maetschke, K., Gahr, S., Karcioğlu, G., Castro, C., Avram, Y., Torres, J., Schultz, A., Peacock, J., Bedrosian, P., Cimarelli, C., Cariichi, L., Ogawa, Y., Hogg, C., Kiyani, D.
02O06	custEMx ? the successor of custEM for 3D EM modelling and inversion toolbox	Skibbe, N., Rochlitz, R.
02O07	MTGeophysics.jl: A software repository for magnetotelluric research and applications	Mishra, P. K.
02O08	Multiple solutions to electromagnetic inverse problems via tracking flights across the model landscape	Everett, M.E.
02O09	An investigation of Higher-order polynomials for accuracy of 3D MT calculations on unstructured meshes	Varilsuha, D., Ansari, S.M.
02O10	A quantitative framework for mapping spatial variations in 3D MT model resolution	Gonzalez-Garcia, J., Unsworth, M.
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02P03	A SimPEG-Based 3D Forward Modeling Framework for Electromagnetic Coupling in Deep FDIP Surveys	Qin, H., Chen, R., Zhao, Y.
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02P07	A Unified Framework for Joint MT, Gravimetric, and Magnetic Inversion based on Multivariate Mutual Information Coupling	Dong, H., Guo, C.,
02P08	Rapid 3D Magnetotelluric Simulations using Domain Decomposition and Reduced-Order Methods	Tao, L., Zlotnik, S., Muixí, A., Zyserman, F., Afonso, J.C., Diez, Pedro
02P09	Surface geometry inversion for magnetotelluric data: A comparison with mesh-based minimum-structure inversion	Long, J., Lelièvre, P., Farquharson, C.
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02P13	Joint inversion of magnetotelluric, gravity, and surface-wave data in southern Africa	Ruijin Kong, Max Moorkamp, Zhengyong Ren
02P14	Implicit Neural Representation for Two- and Three-Dimensional Magnetotelluric Inversion	Wang, Yanyi., Attias, Eric., Garcia, Xavier., Guo, Zhenwei., Liu, Jianxin., Zhang, Boyao.
02P15	Bringing gradients to empymod - new opportunities for horizontally layered electromagnetic inversion	Deleersnyder, W., Werthmüller, D., Soler, S., Heagy, L.

02P16	Mechanism and Methodology of Short-Offset Frequency-Domain Electrical-Source Electromagnetic Method	Ma, Xiaoyin., Zhou, Nannan., Zhang, Zhenghu., Wei, Xinhao.
02P17	Signal Contribution and Sensitivity for Frequency-Domain Electromagnetic Methods	S. L. Butler
02P18	Accelerating Bayesian Inversion of Magnetotelluric Data with Neural Operators	Singh, A.P., Naif, S.
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02P23	3-D magnetotelluric inversion using node-based blockwise-continuous parameterization on unstructured tetrahedral meshes	Huang Chen, Nian Yu, Yingqiang Ran
02P24	Advancing Geophysics with Reduced Order Models: Applications in Seismic Wave Propagation and Marine Electromagnetics	Reinicke, I., May, D. A., Constable, S.
02P25	3D inversion of TDEM data based on Rational Arnoldi method using custEM & pyGIMLI: sensitivity calculation and synthetic validation	Cai, J., Yogeshwar, P., Fang, G., Tezkan, B., Liu, L., Rochlitz, R.
02P26	Improved Physics-Informed Neural Network for Multi-Frequency 2D Magnetotelluric Forward Modeling	Wang, Wenchuang., Li, Jianhui.
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02P40	3D Inversion and Resolution Analysis of Various Source Configurations for CS-/RMT: A Comparative Study with Field Validation in Baryshevo (Karelian Isthmus), Russia	Schöttle S., Smirnov M., Grayver A., Smirnova M., Yogeshwar P., Mörbé W., Shlykov A., Saraev A., Tezkan B.
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02P43	A Dual-domain GAN Framework of Synthesizing Electromagnetic Satellite Data for Detecting Seismic Anomalies	Yaxin Bi1, Xuemin Zhang2, Maja Pavlovic1, Peter Nicholl1 and Lawrence Murchan1 2Institute of Earthquake Forecasting, China Earthquake Administration, China
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02P53	Accelerating the 3-D MT inverse problem using explicit preconditioners	Kara, K. B., Peksen, E., Farquharson, C. G.
02P54	Three-dimensional Magnetotelluric Inversion based on a Data Space variant of Akaike's Bayesian Information Criterion	Song, H., Yu, P., Usui, Y., Uyeshima, M., Diba, D., Zhang, L.
02P55	Synthesizing natural-source airborne EM time series for ZTEM processing	Cao, X., Huang, X., Yan, L., Hu, Y., and Han, Q.
02P56	Disentangling Epistemic and Aleatoric Uncertainties in Deep Learning Inversion of Transient Electromagnetic Data	Zhu, Y., Li, J., Liu, C., Wang, Y., Tan, T. (Dr. X. Lu)
03O01	The United States Magnetotelluric Array and the National Impedance Map	Kelbert, A., Bedrosian, P.A., Schultz, A., Egbert, G.D., Pellerin, L., Love, J.J., Frassetto, A., Murphy, B.S.
03O02	3D Magnetotelluric and Multigeophysical Constraints on the Tectonic Evolution of the Ribeira Orogen (Southeastern Brazil)	Alves, A. O.v, Padilha, A. L.v, Fontes, S. L.v, Rocha, N. S.v, Benevides, A. S.v, La Terra, E. F.v, Chaves, C. A. M. ² , Meju, M. A. ⁿ .
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03O04	Crustal Electrical Resistivity Structure of the JUNO Local Core Area and Implications for Geoneutrino Modeling	L. Zhou ^v , D. Yang ^v , *, F. Jiang ^v , S. Feng ^v , K. Wang ^v
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03P02	2D Magnetotelluric Inversions From Integrated Land and Salton Sea MT Data	Feightner, H., Constable, S., Miller, A.R., Naif, S., Tokmakoff, L., Share, P.-E., Peacock, J.
03P03	Regional Results from the Magnetotelluric Investigation of the Salton Trough (MIST) Project using 3D inversion	Miller, A.R., Naif, S., Share, P.-E., Tokmakoff, L., Constable, S., Feightner, H., Peacock, J.
03P04	Magnetotelluric Imaging of Conductivity Structure Across the Northern Salton Trough: Implications for Fault Architecture and Fluid Pathways	Tokmakoff, L., Share, P., Naif, S., Miller, A., Constable, S., Feightner, H., and Peacock, J.
03P06	Amphibious magnetotelluric investigations of the Gulf of Tehuantepec subduction zone, southern Mexico.	Hernández-Aburto Y., Ruiz-Aguilar D., Husker A. , Constable S., Arango-Galván C. , Romo-Jones J.M., and Benevides A.
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03P11	Architecture of the lithosphere beneath the Paraná-Etendeka Large Igneous Province in central-south Brazil and northernmost Argentina constrained by electromagnetic data	Bologna, M. S., Dragone, G. N., Giménez, M. E, Alvarez, O, Lince Klinger, F., Correa-Otto, S.
03P12	3D Magnetotelluric Inversion of the Iberian Central System	Giménez-Berenguer, C., Ledo, J., Piña-Varas, P., Queralt, P.
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03P20	Three-Dimensional Magnetotelluric Imaging of the Resistivity Structure beneath the Western Arunachal Himalayan Foreland in India	Bori, N.K., Lozovsky, I.N., Pathak, M.K., Walia, Devesh
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03P25	Segmented Lithospheric Modification and Differential Metallogenesis in the Mid-dle-Lower Yangtze River Metallogenic Belt: Constraints from Magnetotelluric Array Data	Zhaoyuan, K., Gaofeng, Y., Wenbo, W, Sheng, J., Yiwu, Z.
03P26	Fossil?Bidirectional?Subduction System beneath the Beishan?Orogen Revealed by Magnetotelluric Imaging	L. Zhou ^{V,2} , L. Zhang ^{V,n,*} , M. J. Comeau [?] , M. Becken [?] , S. Jin [?]
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03P28	Constraining the 3-D electrical resistivity structure beneath the Khovsgol and Darkhad region, northern Mongolia	R. Rigaud, R., Comeau, M.J., Erdenechimeg, B., Kruglyakov, M., Kuvshinov, A., Becken, M., Plett, J., Treppke, H., Shoovdor, T., Sodnomsambuu, D., Chimed, O.
03P29	New MT data and first inversion models from the Altai mountains in western Mongolia	Becken, M., Plett, J., Treppke, H., Comeau, M. J., Batmagnai, E., Shoovdor, T., Sangidalai, M., Chimed, O., Kuvshinov, A.
03P30	Carbonatite melt at the base of the Gawler Craton, Australia: New insights from 3D MT anisotropic inversion	Baker, D., Heinson, G.
03P31	New AusLAMP insights on the lithospheric architecture of the North Australian Craton	Qiu F., Schnepf N. R., Heinson G., Boren G.
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04O03	Discovery of a geothermal exploration target at the Cascade volcanic arc/Great Basin intersection through joint 3-D inversion of MT and gravity data, with constraints from seismic tomography, well data and thermodynamic modeling	Schultz, A., Tu, X.
04O04	Imaging Deep Geothermal Reservoirs and Fluid Pathways in Al-Lith, Saudi Arabia: Insights from 3D MT Inversion	Ashadi, A., Tezkan, B., Yogeshwar, P., Kirmizatis, P., Soupious, P.
04O05	Crustal structure of the Southern Peruvian Andes determined from broadband magnetotelluric data	Unsworth, M.J., Calla-Pilco, D., Valencia-Miraval, C., Yupa-Paredes, R., Antayhua-Vera, Y., Garcia, B., Ramos-Palomino, D., Castelo-Cardenoso, S., Hogg, C., Delhay, R., Hanneson, C., Lee, B.M., Nixon, C.
04P01	Addressing Anthropogenic Noise and Electrical Anisotropy Hints in Magnetotelluric Data from the Annecy Area (French Pre-Alps)	Riba-Pereyra, C., Byrdina, S., Martí, A., Castro, C., Charroy, J., Kong, W., Rath, V., Junge, A., Metral, L., Got, J.-L.
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04P04	A 3D Inversion of Legacy Magnetotelluric Data at the Amatitlán Geothermal Field, Guatemala	Reynolds, Z.
04P05	The Map Tells the Story: Magnetotelluric Measurements in the Taupo Volcanic Zone	Pratscher K., Bertrand T., Caldwell TG., Heise W., Caldwell A., Gard H., Brakenrig T., Hart R.
04P06	Persistent Mid-crustal Melt Reservoirs Power Geothermal Systems in Thickened Continental Crust	Lei, L., Dong, H., Comeau, M.J., Liu, J., Wei, W., Jin, S.
04P07	Interpretation of anomalous magnetotelluric phase data: Implications for geothermal structural mapping in the Northwestern Himalayas, Ladakh, India	Durga, V., Patro, P K.,
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04P09	Toward the first conductivity model of Oldoinyo Lengai volcano: preliminary results from a pilot MT survey	Diaz, M. K., Junge, A., Thiede, A., Castro, C., Becken, M., Massawe, R., Gidna, A.
04P10	Broadband Magnetotelluric Survey for Unveiling the Magma Reservoir Beneath Mount Asama, Central Japan	Limbong, G., Koyama, T., Huang, Z., Ikezawa, S., Tsuji, H., Kanda, W.
04P11	Establishment of a plume-drive magmatic system: Insights from multi-physics imaging at the Lana'i Island, Hawaii	Graham Hill, Alexander Grayver, Amir Haroon, Erin Wallin, Eric Roots, Nicole Lautze
04P12	Imaging the Magmatic System of Maunga Ruapehu, New Zealand, with MT	Semper, P., Bannister, S., Bertrand, E. A., Caldwell, T. G., Heise, W., Kilgour, G., Scheunert, M. and Spitzer, K.
04P13	Role of a shallow alteration layer for phreatic eruption: Insights from the electrical resistivity structure beneath Zao Volcano, NE Japan	Ichiki, M., Kanda, W., Kaida, T., Ushioda, M., Seki, K., Ogawa, Y., Miura, S., Yamamoto, M., Morita, Y., Uyeshima, M.
04P14	Subsurface Resistivity Imaging of Tangkuban Parahu Volcano: A Case Study on Magmatic Fluid Migration Pathways Based on Magnetotelluric Data	I. Hasbillah, Nurhasan, M. A. Rahmadini and M. Z. S. Mutaqin
04P15	Imaging, characterizing and monitoring the volcanic plumbing system of Montagne Pelée using experimental petrophysics and magnetotellurics	Pierre Wawrzyniak (a), Benjamin François (a), Simon Vedrine (a), Caroline Martel (b), Fabrice Gaillard (b), Juan Andujar (b), Benoit Vitecoq (a)
04P16	3-D Magnetotelluric images of the hydrothermal system beneath Montserrat	Redanz, A., Unsworth, M., Williamson, A., Ryan, G. A., Williams, B., Blundy, J., Kendall, J. M., Killingbeck, S.

04P17	Magnetotelluric constraints on Deception Island volcano, Antarctica: ocean-controlled responses and a baseline for volcanic monitoring	Castro, C., González-Castillo, L., Martínez-Moreno, F., Asier Madarieta-Txurruka, Roots, E., Hill, G., Grayver, A., Kiyan, D., Hering, P., Galindo-Zaldívar, J., Junge, A.
04P18	Subsurface architecture and mantle-linked lithospheric pathways beneath the Tazoult Diapir, High Atlas, Morocco	Castro, C., Hill, G., Závada, P., Martín-Martín, J.D., Kováčiková, S., El Gettafi, M., Roots, E., Beranek, R., Mrlina, J., Himi, M., Kiyan, D., Amaguar, F.
04P19	Preliminary constraints from magnetotelluric data on Long Valley-Mono Lake volcanic system, Eastern California, USA	Wei, Y., Song, H., Moorkamp, M., Peacock, J.
04P20	Sub-Accretion of Spreading Ridges: Example from Western California	Peacock, J.R., Burgess, S.D., Blatter, D., and Melosh, B.
04P21	Crust?mantle magma plumbing system and deep dynamic mechanisms of intraplate plateau volcanism at the stagnant slab front: high-resolution MT imaging of the Datong Volcanic Field	Gaofeng YE, Yuchen HAO, Sheng JIN
04P23	The structure of a continental intraplate volcanic system and controls from shear zones: Insights into the central Hoggar Cenozoic volcanic province, Northwest Africa, from electrical resistivity images	Boukhalfa, Z., Benhallou, A.Z., Comeau, M.J., Bouzid, A., Bendaoud, A., Deramchi, A.
04P24	3-D Magnetotelluric Imaging of the multi-level Deep Magmatic-hydrothermal System beneath the Leiqiong Volcanic Field in South China	Zhou, H., Li, X., Deng, Y., Cheng, Y., Chen, Y., Zhang, J., Kuvshinov, A.
05O01	Imaging a kamafugite volcanic plumbing system in southeastern Brazil using 3D audiomagnetotelluric inversion and integrated geophysical data	Franco, L. M., La Terra, E. F., Tupinambá, M. A., Panetto, L. P., Ulugergerli, E. U.
05O02	Exploration of Deep Freshwater Aquifers in Southern Africa Using UAV-Based SAEM	Mörbe, W., Rochlitz, R., Hamutoko, J., Ndongo, M., Mazibuko, C., Banda, K., Gürsoy, S., Bäuml, R., Wilhelm, A., Adams, D.-J., Brauch, K.
05O03	A current inversion approach for correcting the effects of metal-bearing infrastructure in semi-airborne EM data	Treppke, H., Becken, M., Rochlitz, R.
05O04	Toward reliable and high-resolution resistivity imaging with Controlled Source EM in land ? densifying arrays as a key for success - 10 years of progress for geothermal and mineral resources exploration	Bretaudeau F., Védrine S., Patzer C., Kim B., Dubois F., Autio U., Kamm J., Darnet M.
05O05	Investigating Acid Mine Drainage in Complex Topography Areas via Semi-airborne and Surface Geophysical Surveys: A Case Study in Fujian, China	Zhang, N., Sun, H., Du, S., Liu, S., Huang, Z., Liu, R., Lu, X., Fan, Y.
05O06	A blueprint for greenfield hydrogen and helium exploration using MT	Daruso, R., Heinson, G., Brecker, G., Hanna, M., Dawson, D., Margiono, R., Gubina, A., Boren, G., Holford, S., King, R.
05O07	Full?Space Electromagnetic Characterization of Sub?Seismic Anomalies in an Active Potash Mine	LeBlanc, T. J., Butler, S. L.,
05O08	Underground Time-Domain Electromagnetic measurements for deep mineral deposits exploration: case of 3 km-deep targets at LaRonde Mine.	Mamadou Cherif Diallo, Lizhen Cheng
05P02	Machine Learning-Assisted AMT Exploration for Pb-Zn in Strong Noisy Environments	Ahmad Jawad, Rujun Chen, Mao Lu, Yaseen Muhammad, Kouabena Kouakou Assom Wilfried , Fahad Shah , Ali Shah Shahid , Ahmad Noori Naseer
05P03	Conductive and polarizable S-planes: differential and integral methods for interpretation of semi-airborne TEM data and their application	V. Hallbauer-Zadorozhnaya V, Kaminski V.F., Sekachev P.M., Zakharkin A.K.
05P04	Deep undercover greenfield exploration in south-east Western Australia	Seillé, H., Visser, G., Love, M., McKenna, K., Thiel, S.
05P05	Magnetotelluric Data for Greenfield mineral exploration in Norrbotten, Sweden	Rydman, O., Smirnov, M. Yu., Veress, E.
05P06	Sensitivity tests in 3D of CSEM data from a noisy mining environment in Northern Sweden.	Rydman, O., Smirnov, M. Yu., Schöttle S.
05P08	Deep electrical conductivity structure of Nautanen IOCG deposit from high resolution magnetotelluric survey	Smirnov M.Yu., Bauer T., Rydman O., McGimpsey I., Kamm J., Hill G., Vozar J.
05P09	Magnetotelluric imaging for direct detection of mineralization: Opportunities and challenges	Murphy, B., Spratt, J., Hoskin, T., Evans, S., Peterson, H.
05P10	Integrated 3D Geophysical Imaging and Geochemistry for Geologic Hydrogen Exploration in the Maricá Play, Southeastern Brazil	Fontes, S.1, Benevides, A.1, Alves, A.1, Meju, M2, La Terra, E2, Ganade de Araujo, C.3, Padilha, A1, Pinheiro, M.3, Benetti, B3, Rocha, N.1, Vieira, F. 1, Medeiros, M.4, Nascimento, F.4

05P11	3D Inversions of Airborne Natural Source EM data - ZTEM and MobileMT	Mackie, R., Soyer, W.
05P12	Exploration for critical raw material resources in Europe with magnetotellurics	Tietze, K., Ritter, O., Weckmann, U., Platz, A., Holdstock, M., Rieger, P., Susin, V., Melo, A., Torremans, K.
05P13	Linking regional scale surveying to deposit scale exploration with airborne natural source EM	Thiede, A., Schiffler, M., Schneider, M., Patzer, C., Becken, M., Stolz, R., Kamm, J.
05P14	Mitigating infrastructure coupling in semi-airborne EM data from the Oberharz mining district: current status and ongoing developments	Treppke, H., Thiede, A., Becken, M. & the DESMEX working group
05P15	Lower-crustal controls on IOCG mineralisation in the Olympic Domain, Australia	Bizhani, H., Heinson, G.
05P16	Physics-based and data-driven Integration of multivariate geophysical data	Bizhani, H., Heinson, G., Yeats, C., DeTata, D.
05P17	Configurations of Airborne Total-Field Passive Electromagnetic Systems and Their Applications	Aexander Prikhodko, Andrei Bagrianski, Petr Kuzmin, Aamna Sirohey
05P18	Sign Reversal Phenomenon in Electrical-source Transient Electromagnetic Methods: Characteristics, Reasons and Applications	Zhou, Nannan., Lu, Xushan., Zhang, Zhenghu., Wei, Xinhao., Ma, Xiaoyin.
05P20	NovaScan - UAV natural field Earth conductivity mapping system with examples from the Lockerby East Nickel Ni?Cu sulfide deposit, Ontario, Canada	Eso, R., Polzer, B.
05P21	Intergrating plant geochemistry with airborne electromagnetic data for lithology classification.	E. Kerubo, L. Dujmovic, M. Aranha, F. Dauti, G. Fiandaca, S. Pospiech, R. Tolosana-Delgado and T. Günther
05P22	Using 1D Occam Inversion for Airborne Electromagnetic Data to Map Mineralization Zones in the Karasjok Greenstone Belt, northern Norway	Wang, S., Slagstad, T., Baranwal, V.C.
05P23	3D Joint Inversion for Mineral Systems in the Kuusamo Schist Belt, Finland	Marzouk, H., Roots, E., Autio, U., Kovacikova, S., Castro, C., Eberhard, L., Wei, Y., Kyselica, J., Moorkamp, M., Hill, G., Kamm, J.
05P24	What is the electromagnetic signature of a geologic hydrogen system?	Daruso, R., Gubina, A., Margiono, R., Heinson, G., Holford, S.
05P25	The crust and upper mantle tectonic structure of the central Norwegian Caledonides and their Precambrian basement from 3D inverse geoelectrical model	S. Kovacikova, G. Hill, Eric Roots, S. Gradmann, J. Jakob, K. Saalman, M. Smirnov, J. Kamm, J.Vozar
05P26	Preliminary results from the UNDERCOVER project MT array: Insights into the lithospheric factors controlling mineralization within the Kuusamo Schist Belt, Finland	Eric Roots, Uula Autio, Svetlana Kovacikova, Hossam Marzouk, Cesar Castro, Laura Eberhard, Juraj Kyselica, Yunong Wei, M. Kamila Diaz, Max Moorkamp, Graham Hill, Jochen Kamm
05P27	Natural hydrogen from groundwater radiolysis: mapping source, migration and trapping formations using integrated geophysical surveys	Gubina A., Herrera J., Daruso R., Margiono R., Heinson G.
05P28	Lithospheric controls on large copper mineral systems: Insights from a 3D electrical resistivity model of the Kerman Porphyry Belt, Iran	Filbandi Kashkouli, M., Comeau, M.J., Vizheh, M.M.
05P29	From mantle to mine: lithospheric multilevel structural controls on the genesis of orogenic gold deposits	Wang, T., Comeau, M.J., Zhou, Z. Kong, W., Yu, N.
05P30	Semi-airborne EM surveying for nuclear waste site characterization ? preliminary results from the Harsefeld salt dome in northern Germany	Plett, J., Marzouk, H., Becken, M., Schiffler, M., Schneider, M., Rochlitz, R., Rippe, D.
05P31	Preliminary results of the UNDERCOVER semi-airborne EM survey at the Juomasuo deposit (Kuusamo Schist Belt, Finland)	Thiede, A., Schiffler, M., Patzer, C., Schneider, M., Becken, M., Stolz, R., Kamm, J.
05P32	Regional 3D resistivity architecture of the Kalgoorlie-Norseman gold province (Western Australia): Insights from combined BBMT and LMT modeling.	Piña-Varas, P.; Dentith, M.
05P33	Sinkhole Development at the Dead Sea: A Validation Study Using Transdimensional Bayesian Inversion of TEM Data	Abu Rajab, J., Yogeshwar, P., Tezkan, B., Al-Halbouni, D.
05R01	Electromagnetic methods in mineral exploration: recent advances from 2013 to 2025	Xiangyun Hu, Ronghua Peng, Jianhui Li, Hongzhu Cai, Bo Han, Lichao Liu and Shan Xu
06O01	Frequency-Domain Airborne Electromagnetic Imaging of Discontinuous Permafrost in the Central Mackenzie Valley, Northwest Territories, Canada	Moshtaghian, K., Chiasson, A., Alvarez, A., Antonio Couto Jr, M., Heagy, L.J., Lorry, M., Unsworth, M., Young, J., Kokelj, S.V., Rudy, A.C.A., Smith, S.L., and Froese, D.G.

06O02	On the effectiveness of the 3D inversion of phase tensors to image the subsurface structure of a monogenetic volcanic field	Ruiz Aguilar, D., Alvarado-Izarraras, L.G., Ochoa-Tinajero, L.E., Mastache-Román, E.A.
06P01	Comparison of quasi-2D semi-mobile and mobile TEM with 2D ERT for estimating hydraulic properties	Willkommen, G., Costabel, S., Martin, T., Björn, S.
06P02	Radiomagnetotelluric (RMT) Investigation of Coastal Aquifers in Qingdao, China: Freshwater Mapping with TEM-Based Validations	Salas, J., Tezkan, B., Li, Y., Ibraheem, I., Luo, M., Göcer, B., Cai, J., Yogeshwar, P., Mörbé, W.
06P03	TEM-Based Delineation of Seawater Intrusion and Aquifer Structure in the Eastern Dagu River Coastal Zone, Qingdao, China	Ibraheem, I., Tezkan, B., Luo, M., Burberg, S., Li, Y.
06P04	Can data-driven models replace physics? Formalizing the assessment of a CNN for UXO Classification in EMI Surveys	Deleersnyder, W., Beran, L., Heagy, L.
06P05	Electromagnetic and GPR surveys of simulated burials replicating unmarked graves	Mancuso, C., Ferguson, I., Decter, K., Smith, R., Nichols, K., Perrin, B., Braun, A.
06P06	Magnetotelluric imaging of subglacial electrical conductivity structures at the grounding zone of Ekström Ice Shelf, East Antarctica.	Rebolé-Canals, S., Grayver, A., Ritter, O., Weckmann, U., Fromm, T.
06P07	Using semi-airborne, controlled-source radio-magnetotelluric method to map quick clays, synthetic studies	Yanev, M., Wang, S.
06P08	RMT and TEM investigations to image coastal landslides in Mexico: Feasibility studies and preliminary field data results	Alvarado-Izarraras, L.G., Ruiz-Aguilar, D., Yogeshwar, P., and Tezkan, B.
06R01	Electromagnetic Geophysics for Hydrogeologic Applications	Kang S., Kang H., and Hwang J.
06R02	A review of EM studies in Arctic and permafrost regions, with updates on recent Antarctic studies	Gustafson, C. D.
07O01	Seismic-Informed CSEM Inversion for Uncertainty-Aware CO ₂ Saturation Monitoring	Entezar-Saadat, V., Malcolm, A., Farquharson, C.
07O02	Monitoring Iceland's Strokkur Geyser: Spatio-Temporal Sensitivity of Time-Domain Electromagnetics	Spitzer, K., Scheunert, M., Börner, J. and Hort, M.
07O03	Magnetotelluric Monitoring at Kīlauea Volcano, Hawaii	Bedrosian, P.A., Peterson, D.E., Castro, C., Wallin, E., Wilson, G.S., Moorkamp, M., Hill, G.J., Hanneson, C., Cordell, D.
07O04	Geoelectric fields in southeastern British Columbia during the large geomagnetic storm of September 2017	
07P01	The Potential of Radiomagnetotellurics for Detecting Dike Instabilities	Vanoli, R., Werthmüller, D., Weckmann, U., Rulff, P.
07P02	Detection of Concealed Seepage Pathways in an Earth Dam Using True 3D SSIP Method: A Case Study of Youyi Reservoir, Hunan, China	Zhao Y. J.; Chen R. J.; Qin H. J.
07P04	CSEM modelling and survey for monitoring of CO ₂ sequestration at the Aqistore site in Canada	Ansari, S.M., Ferguson, I., White, D., and Thomas, A.
07P05	3D Multiple Geophysical Modeling and Sensitivity Analysis for Marine CO ₂ Storage	Wang, Yanyi., Attias, Eric., Garcia, Xavier., Liu, Jianxin., Zhang, Boyao., Guo, Zhenwei.
07P06	DecarbFaroe: Geophysical Site Characterization for CO ₂ Mineralization in Basalt on the Faroe Islands	Börner, J.H., Jacobsen, B., Kopf, A., Dölger, E., Weigelt, J., Eidesgaard, O., Olavsdottir, J., Bussat, S.
07P07	Characterizing Cyclic Geosystems Through Multi-method Geophysical Observations: Insights from Strokkur Geyser (Iceland)	J.H. Börner, A. Henriquez, M. Hort, D. Peppel, M. Scheunert, K. Spitzer
07P08	Continuous CSEM monitoring of vapor layer dynamics at Inferno Crater Lake, New Zealand: 3-D modeling and preliminary inversion	Kitaoka, N., Ogawa, Y., Caldwell, G., Ishizu, K., Minami, T., Kirkby, A.
07P09	Detectability limits of temporal magnetotellurics in active volcanic systems	Castro, C., Hill, G., Moorkamp, M., Kováčiková, S., Maetschke, K., Klicpera, J., Avram, Y., Brook-Allred, T., Kamm, J., Manara, F., Comeau, M., Agustsdottir, T., Morrison, K., Hogg, C., Junge, A., Kiyan, D., Burjáněk, J.
07P10	Seismo-Electromagnetic Signature of the 2018 Kilauea Lower Puna Eruption from Integrated MT, Seismic, and Infrasound Observations	Marzouk, H., Hamama, I., Fadel, I., Avram, Y.
07P12	A Comparative Study Of Geomagnetic Storm Impacts Across Hemispheres	N. R. Schnepf, P. Bedrosian, S. Thiel, G. Heinson, B. Waghule, L. Wang, R. A. Marshall, A. Kelbert and G. M. Lucas
07P13	Improving Geoelectric Hazard Assessments within the Eastern United States	Bedrosian, P.A., Peterson, D.E., Crosbie, J.W., Getty, K., Wilson, G.S., Koenig, P.O., Williams, C.S., Wirth, H., Loya, M., Love, J.J.
07P14	Equatorward Expansion Of Geomagnetic Power During Severe Storms	N. R. Schnepf, B. Waghule, J. J. Love, and A. N. Willer

07P15	New Geoelectric Hazard Mapping of the Iberian Peninsula	R. Hafizi, A. Marcuello, A. Martí, P. Piña-Varas, P. Queralt, J. Campanyà, J. Ledo and J. Alves Ribeiro
07P16	Implications of Broadband and Long-Period MT Measurements for Geoelectric Field Reconstruction in Italy	De Girolamo, M., Consolini, E., Pignatiello, G., De Michelis, P., Siniscalchi, A.
07P17	Influence of 3-D Earth Conductivity Structure on Geomagnetically Induced Currents	Cordell, D. Parry, H. Mann, I.R.
07P18	From Sun to Transformers: simulations of GICs during extreme electromagnetic events in New Zealand power grid	Kruglyakov M., Welling D., Dredger P., Rodger C., Mac Manus D., Dalzell M., Heise W., Bertrand E.
07P19	Geoelectric field modelling to assess railway signalling misoperation during space weather events	Huebert, J., Beggan, C., Richardson, G., Patterson, C., Wild, J.
08O01	Monitoring sequestration related mineralization processes in basalts using marine controlled source electromagnetics	Jieyu Tan, Sebastian Hölz
08O02	Inferring the magmatic systems beneath submarine volcanoes (Whakaari and T?hua) in New Zealand with 3D marine-MT models	Bertrand, E.A., Heise, W., Constable, S.C., Miller, C., King, R.B., Caldwell, T.G.
08O03	Magnetotelluric survey suggests a fluid-rich rupture barrier on the Gofar oceanic transform fault, East Pacific Rise	Hummel, N., Chesley, C., Fan, W., and Evans, R. L.
08O04	EM Evidence for A Shallow LAB Supported by Small-scale Convection at the Goban Spur Magma-Poor Rifted Margin	Kyle Ivey, Steven Constable, Raghu Gudipati, Gaye Bayrakci, Tim Minshull, Marta Pérez Gussinyé, Javier García-Pintado, Yuan Li
08P01	Integrated Electromagnetic, Self-Potential and Magnetic Investigations of Seafloor Massive Sulphide Systems at the Central and Southeast Indian Ridge	Müller, H., Schwalenberg, K., Barckhausen, U.
08P03	The Nene System: A Surface Towed Marine EM Platform for Coastal Environments	Kannberg, P., Haroon, A.
08P04	A joint electromagnetic and seismic study of a rifted margin	Constable, S., Bayrakci, G., Minshull, T., Ivey, K.
08P05	Shallow and deep conductive anomalies revealed from 3D marine magnetotelluric data in the northern Gulf of California Rift	Thalia Avilés-Esquivel ¹ , José M. Romo-Jones ² , Favio Cruz-Hernández ² , Enrique Gómez-Treviño ² , Steven Constable ³ and Mario González-Escobar ² , Raúl Castro ² .
08P06	Exploring the three-dimensional lithospheric structure of the equatorial mid-Atlantic Ridge	Montiel-Álvarez, A.M., Wang, S., Constable, S.
08P07	Origin of Oceanic Gravity Rolls Revealed by Marine Magnetotelluric Data	Joergensen, J., Constable, S., Sandwell, D.
08P08	East Pacific Imaging Cruise: A joint MT-seismic survey of the Cocos oceanic plate	Naif, S., Singh, A.P., Gaherty, J., Porter, R.
08P09	Electromagnetic Observations on Oldest Pacific: Preliminary MT Responses from the Oldest-2 Array	Hung, C.-H. A., Lin, P.-Y. P., Baba, K., Utada, H.
08P10	Marine magnetotelluric experiment to study oceanic mantle viscosity	Baba, K., Moorkamp, M., Reeck, K., Tada, N., Matsuno, T., Ichihara, H., Jiang, F., Jegen, M., Lin, D.J., HEB Research Group
08P11	Electrical Structures of the Deep Crust and Upper Mantle in the Central Segment of the Kyushu-Palau Ridge with the marine magnetotelluric data	QIN Linjiang, LI Gang,, XU Hao?GAO Lubin
08P12	The lithosphere-asthenosphere system beneath the West Philippine Basin, constrained from an anisotropic 1-D electrical resistivity structure	Matsuno, T., Baba, K.
08P13	Imaging Hydrothermal Alteration and Venting at Whakaari/White Island Using Marine Controlled-Source Electromagnetics	King, Roslynn B., Miller, Craig, de Ronde, Cornel
08P14	Marine Seep Characterization Using Electromagnetic Methods	McGrath, A., King, R., Miller, C.
08P15	Analyzing Geomagnetic Variations at a Submarine Volcano North of New Zealand	Nienhaus, H., Evans, R., Sherman, D., Henstock, T., de Ronde, C. E. J., Minshull, T. A.
08P16	DEEPMAYMT: Marine magnetotelluric investigation for a submarine volcanic system offshore Mayotte	Matsuno, T., Seama, N., Wawrzyniak, P., D'Eu, J.-F., Sugioka, H., Tarits, P., Doi, H., Sano, M.
08P17	Electrical conductivity structure of the northern Hikurangi incoming plate volcanoclastic sequence	Parker, E., Naif, S., Gase, A., Gulick, S., Sherman, D.
08P18	Along-Strike Variations in Fluid Distribution and Slip Behavior at the Hikurangi Subduction Zone Revealed by Marine CSEM	Fluegel, B., Evans, R., Naif, S.
08P19	Magnetotelluric constraints on the seismogenesis of the North Anatolian Fault beneath the Marmara Sea, Türkiye	Kaya-Eken, T., Ogawa, Y., Usui, Y., Kasaya, T., Tunçer, M. K., Honkura, Y., Oshiman, N., Matsushima, M., Siripunvaraporn, W.

08P20	Satellite observations of annual variations in the ocean-induced magnetic field from the tropical oceans	Finlay, C.C., Velínský, J., Kloss, C., Kureš, O., Blangsbøll, R.M., Ucekajová, V.
08P21	Characteristics of the M2 tidal component of the ocean-bottom electromagnetic field in the northwestern Pacific	Sei Ito*1, Tetsuo Matsuno*2, Nobukazu Seama*2, Hiroko Sugioka*2, Takuto Minami*1
08P22	Three-dimensional resistivity structure beneath the Lau Basin inferred from seafloor observations of tidally induced magnetic fields	Minami, T., Nakaya, T., Hoshino, S., Ito, S., Matsuno, T., Chave, A. D., Saynisch-Wagner, J., Sugioka, H., Seama, N.
08P23	Resistivity structure beneath Kozushima, Izu-Bonin Arc, Japan, inferred from tsunami-generated electric field variations	Takebayashi, T., Minami, T., Uyeshima, M.
08P24	IndexSim: towards 3D modelling and inversion of marine central-loop frequency domain EM data	Nazari, S., Rochlitz, R., Müller, H.
08P27	Marine controlled-source electromagnetic study of the Trans-Atlantic Geotraverse hydrothermal field	Chen, C., Minshull, T. A., Bayrakci, G., Hölz, S., Gehrmann, R.A.S., Park, J.
08R01	Electromagnetic Studies in Marine Rift Settings	Schwalenberg, K., Müller, H.
09O01	Integrating Magnetotelluric Data in Multi-Geophysical Modelling for Thermochemical Imaging: from Superior Craton to Grenville Orogeny	Lei, L.L., Afonso, J. C., Dong, H., Jones, A. G., Jin, S., Liu, J.G.
09P01	Geometrical and resistivity-contrast effects on normal-resistivity logs in hard-rock vein systems	Nemati, Y., Dupuis, J.C., Giroux, B. and Smith, R.
09P02	Bridging the Conductivity Constraints of Magnetotelluric Observations and Laboratory Experiments: A Study on Mid-lower Crustal Melts in Lhasa Terrane	Wu, X., Dong, H., Chen, J., Li, Y.,
09P03	The electrical property of the lower crustal rock of intra-continental setting porphyry copper deposits and its constraints on the mineralization process	Wang, Gang, Fang, Hui, Pei, Fagen
09P04	Laboratory measurements SIP of ceramic samples with disseminated nickel conductive	Bukhalov S.V., Hallbauer-Zadorozhnaya V., Denisuk E.A., Kokodey D.Yu., Baksheev A.S.
09P05	Constraining the LAB properties in the Pacific seafloor using MT and seismic data	Singh, A. P., Naif, S., Russell, J. B., Gaherty, J.
10O01	Single-station induction vector analysis on Mars: what can be inferred about the external source field and the resistivity structure beneath Elysium Planitia from InSight magnetic field data	Hoshino, S., Minami, T., Harada, Y., Terada, N., Sato, M., Ogawa, Y., Matsushima, M., Shimizu, H., Noguchi, R.
10P01	Recognizing source effects in long-period geomagnetic depth sounding data	Neska, A.
10P02	Equivalent source model for New Zealand and the vicinity	Kruglyakov, M., Rodger, C., Malone-Leigh, J., Mac Manus, D., Brundell, J., Petersen, T., Heise, W., Bertrand, E., Dalzell, M.,
10P03	Exploring Apparent Resistivity Constraints from InSight Surface Magnetic Observations on Mars	Pei-Ying Patty Lin, Chen-Hsiang Alex Hung
10P04	Fitting external source field with empirical corrections for 3D Earth conductivity	G. D. Egbert
10P05	Realistic Models of External Source Fields	G.D. Egbert, P. Alken, A. Maute, G. Lu
10P06	Motional induction in the subsurface oceans of Europa and Ganymede: Expectations from Juice and Europa Clipper missions	Šachl, L., Kvorka, J., Čadek, O., Velínský, J., Witasse, O., Vallat, C.
10P08	Anomalously large coastal effect at St. John's (STJ) geomagnetic observatory	I.I. Rokityansky, A.V. Tereshyn
10P09	Influence of Seawater and External Source Geometry on Geomagnetic Depth Sounding	Lin, D.J., Baba, K., Uyeshima, M.
11P01	Electromagnetic Odyssey: An educative video game to learn how to set up Magnetotelluric and Transient Electromagnetic soundings.	Ruiz-Aguilar, D., Alvarez-Molina, K., Romero-Ramos, L., Sánchez Basoco, G., Méndez González, A.
11P02	Using Minecraft as a Youth-Targeted Educational Tool for Geophysical Methods	Johnson, A., Malcolm, A., Farquharson, C.
11P03	The AuScope/NCI HPCD Geophysics Platform: Building Computational Infrastructure for Next Generation Geophysics	Rees, N., Kay, B., Yang, R., Hollmann, H., Croucher, J., Sun, Y., Farrington, R., Robinson, A., Wyborn, L.
11P04	IAGA Division VI: A Global Community in Numbers	Weckmann, U., Ritter, O.