



IASPEI!AGA

JOINT SCIENTIFIC MEETING

LISBON 2025

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31 August - 5 September 2025
Lisbon, Portugal

BOOK OF ABSTRACTS



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Oral Sessions Overview

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MON 1 Sept	08:30-10:00	IASPEI Opening Plenary (Main Auditorium)					A26	A35	A04	A27	A12		A30	
	11:00-12:30	S04	J06	S03	J09	J11	A26	A35	A04	A27	A12	S15	A30	
	14:00-15:30	S04	J06	S03	J09	J11	A26	A33/A34	A04	A27	A12	S15		
	16:30-18:30	S04	J06	S03	J09	J10	J11	A33/A34	A04	A27	A12	S15		
TUE 2 Sept	08:30-10:00	S04	J05	S05	S16	J10	A06	A33/A34	A23	A27	A16	S15	A24	
	11:00-12:30	S01	J05	S05	S16	J10	A06	A05	A23	A27	A16	S15	A24	
	14:00-15:30	S01	J05	S05	S21	S12	A01/A02	A05	A23	A27	A15	S18	A24	
	16:30-18:30	S01	J05	S05	S21	S12	A01/A02	A05	A23	A27	A15	S18	A24	
WED 3 Sept	08:30-10:00	S01	J02	S17		S12	A01/A02	A10	A31	A27	A13	S18	A18	
	11:00-12:30		S20		S09	S12	IAGA Award Ceremony (Main Auditorium)					S18		
	14:00-15:30	S22	J02	S10	J08/S23	S12	A11	A10	A31	A32	A13	S18	A18	
	16:30-18:30	S22	J02	S10	J08/S23		A11	A10	A31	A32	A13	S18	A18	
THU 4 Sept	08:30-10:00		J04	S10	J07/S06	S08	A03	A22	A31	A32	A13	S13	A20	
	11:00-12:30	S02	J04	S10	J07/S06	S08	A07	A22	A31	A32	A14	S13	A20	
	14:00-15:30	S02	J04	S10	J07/S06	S19	A07	A22	A03	A28	A14	S13	A20	
	16:30-18:30	S02	J04	S10	J07/S06	S19	A07		A03	A28	A14	S11	A20	
THU 4 Sept	08:30-10:00	S02	J03		J01	S07	A08	A25	A29	A28	A14	S11	A21	A09
	11:00-12:30	S02	J03		J01	S07	A08	A25	A29	A28	A14	S11	A21	A09
	14:00-15:30	IASPEI Closing Plenary (Main Auditorium)					A17	A25	A29	A28	A14		A21	
	16:30-18:30													

Please note the symposia schedule is subject to change.

AS25-1459

Correction for geomagnetic secular variation effects: a new method for identifying tectonomagnetic anomalies

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The study focuses on calculation of geomagnetic secular variation and the respective correction of tectonomagnetic data. A new technique is proposed for picking the secular variation component in the Earth's main magnetic field recorded by precise measurements at 100 to 500 km sites on the surface. Long-period field variations presumably arise from fluid motions in the liquid core, at depths of 3000 km, whereas the sizes of observation networks are within 500 km. The sources of secular variation, irrespective of their configuration, are much deeper than those of tectonomagnetic anomalies located above the Curie surface depths of ~15 to 30 km. Therefore, the surfaces that represent the space distribution of secular variation must be smoother than the respective surfaces for tectonomagnetic anomalies. The problem is thus to separate the regional and local signals from the two types of sources located at different depths. The method is tested using data of yearly geomagnetic measurements at more than 30 repeat stations of a ~120 km long geodynamic network in Gorny Altai (2003–2023) and more than 100 stations of a ~400 km long network near Baikal Lake spanning the period from 1997–2024. The secular variation pattern is reconstructed by quadratic polynomial interpolation, which is sufficient for the required accuracy of calculations of geomagnetic secular variation. The precise data corrected for secular variation of the main field revealed previously hidden tectonomagnetic anomalies up to several nT intensity that could be associated with earthquake preparation processes at these regions.