

## Session8 – Special Session on “Geomagnetism – The Connecting Link between Sun and Earth”

Conveners: Geeta Vichare, GopiSeemala, JurgenMatzka, Masahito Nose

### Day 1: February 21, 2022

Day1-Time Slot4 (D1-TS4): February 21, 2022 – GMT 1250 – 1440 IST 1820 – 2010		
<i>Session Chair(s):</i>		
GMT	IST	Title of the Abstract
1350 – 1410	1920 - 1940	Abstract ID: STP15-ABS-268 ( <i>Pre-recorded</i> ) Title: Geomagnetic Observations and Sun-Earth connection: Super Geomagnetic Storms <i>Presenting Author: Gurbax Lakhina (Invited)</i>
1410 – 1440	1940 – 2010	Breakout Session

### Day 5: February 25, 2022

Day 5 - Time Slot 1 (D5-TS1): February 25, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<i>Session Chair(s): Gopi Seemala, Geeta Vichare</i>		
GMT	IST	Title of the Abstract
0300 – 0315	0830 – 0845	Abstract ID:STP15-ABS-035 Title: Study of intense geomagnetic storms and solar quiet days during SC 23 using Dst and Sym-H by the method potential analysis <i>Presenting Author: Devi R Nair</i>
0315 – 0325	0845 – 0855	Abstract ID: STP15-ABS-077 Title: An analysis on the occurrence of geomagnetic storms during solar cycle 22 and 23 <i>Presenting Author: Sherin Abraham</i>
0325 – 0335	0855 – 0905	Abstract ID: STP15-ABS-311 Title: Statistical study of pre-earthquake anomalous diurnal variation of the geomagnetic field <i>Presenting Author: Khairul Adib Yusof</i>
0335 – 0345	0905 – 0915	Abstract ID: STP15-ABS-224 ( <b>Withdrawn</b> ) Title: Magnetic main field model over the Indian region from network of Observatory data <i>Presenting Author: Monica Rawat</i>
0345 – 0355	0915 – 0925	Abstract ID: STP15-ABS-140 Title: Solar wind- magnetosphere Energy Coupling ( $\epsilon$ ) during Severe Geomagnetic Activity of 24th Solar Cycle <i>Presenting Author: Babita Chandel</i>
0355– 0405	0925– 0935	Abstract ID: STP15-ABS-316 Title: Solar cycle dependence of the solar wind - magnetosphere coupling during geomagnetic storms <i>Presenting Author: Asna VM</i>
0405– 0415	0935– 0945	Abstract ID: STP15-ABS-069 Title: Investigations on the multi-scale latitudinal

		dependence of geomagnetic H-component fluctuations during large geomagnetic storms <i>Presenting Author: Shibu R</i>
0415 – 0450	0945 – 1020	Breakout Session <i>Breakout room leaders: Gopi Seemala and Geeta Vichare</i>

Day 5 - Time Slot2 (D5-TS2): February 25, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b>Session Chair(s): Masahito Nose, Jürgen Matzka</b>		
GMT	IST	Title of the Abstract
0450 – 0505	1020 – 1035	Abstract ID: STP15-ABS-350 Title: Longitudinal differences in the equatorial electrodynamics processes as deduced from the SWARM satellite constellation <i>Presenting Author: Dupinder Singh</i>
0505 – 0520	1035– 1050	Abstract ID: STP15-ABS-298 Title: The effects of Solar Activity on the fractal characteristics of geomagnetic data from Southeast Asia region <i>Presenting Author: Nurul Abdul Hamid</i>
0520 – 0530	1050 – 1100	Abstract ID: STP15-ABS-234 Title: Gravity and Pressure-gradient currents in the Earth's Ionosphere <i>Presenting Author: Sreelakshmi J.</i>
0530 – 0540	1100 – 1110	Abstract ID: STP15-ABS-233 Title: On the relationship between the fractal dimension of geomagnetic variations and the solar wind speed <i>Presenting Author: Alexey Gvozdev</i>
0540 – 0550	1110 – 1120	Abstract ID: STP15-ABS-062 Title: Study of Periodicities of geomagnetic storms during 1957-2008 using wavelet techniques <i>Presenting Author: Seema C S</i>
0550 – 0600	1120 – 1130	Abstract ID:STP15-ABS-240 Title: Extreme space weather events during solar cycles 23 & 24: analytical study <i>Presenting Author: Susan Samwel</i>
0600– 0610	1130– 1140	Abstract ID: STP15-ABS-068 Title: Potential analysis of IMF Bz during storm periods and solar minimum quiet days of solar cycle 23 <i>Presenting Author: Prince P R</i>
0610 – 0640	1140 – 1210	Breakout Session <i>Breakout room leaders: Masahito Nose and Jürgen Matzka</i>

Day 5 - Time Slot3 (D5-TS3): February 25, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s): Geeta Vichare, Gopi Seemala</b>		
GMT	IST	Title of the Abstract
1100 – 1115	1630 – 1645	Abstract ID: STP15-ABS-129 Title: Geomagnetic observations from ground and satellites for upper atmospheric studies

		<i>Presenting Author: Yosuke Yamazaki (Invited)</i>
1115 – 1125	1645– 1655	Abstract ID: STP15-ABS-266 Title: Legacy of Colaba-Alibag Observatory <i>Presenting Author: Ashwini Kumar Sinha (Invited)</i>
1125 – 1135	1655 – 1705	Abstract ID: STP15-ABS-092 Title: Kakioka Magnetic Observatory: Its present and prospects <i>Presenting Author: Seiki Asari (Invited)</i>
1135 – 1145	1705 – 1715	Abstract ID: STP15-ABS-038 Title: Hermanus Magnetic Observatory: a historical overview of geomagnetism in southern Africa <i>Presenting Author: Amoré Nel (Invited)</i>
1145 – 1200	1715 – 1730	Abstract ID: STP15-ABS-105 Title: Geomagnetic observatories: latest trends, practical challenges, and solutions <i>Presenting Author: Jürgen Matzka (Invited)</i>
1200 – 1215	1730 – 1745	Abstract ID: STP15-ABS-179 Title: Application of magneto-impedance sensor to geomagnetic field measurements <i>Presenting Author: Masahito Nose</i>
1215 – 1225	1745 – 1755	Abstract ID: STP15-ABS-056 Title: Two conjugate observation events of substorm onset auroras using ground-based EMCCD camera and the Arase satellite in the inner magnetosphere <i>Presenting Author: Chen Liwei</i>
1225 – 1250	1755 – 1820	Breakout Session <i>Breakout room leaders: Geeta Vichare and Gopi Seemala</i>

Day 5-Time Slot 4 (D5-TS4): February 25, 2022 – GMT 1250 – 1440 IST 1820 - 2010		
<b><i>Session Chair(s): Jürgen Matzka, Masahito Nose</i></b>		
GMT	IST	Title of the Abstract
1250 – 1305	1820 – 1835	Abstract ID: STP15-ABS-339 Title: An analysis of the Trouvelot’s Aurora and Plausible Evidence for Recurrent Geomagnetic Storms of 1872 <i>Presenting Author: Ankush Bhaskar</i>
1305 – 1320	1835 - 1850	Abstract ID: STP15-ABS-331 Title: Historical observations of intensities and time series of the extreme space weather events in the 1940s <i>Presenting Author: Hisashi Hayakawa</i>
1320 – 1335	1850 – 1905	Abstract ID: STP15-ABS-348 Title: Using historical data to predict satellite orbital drag during magnetic superstorms <i>Presenting Author: Denny Oliveira</i>
1335 – 1345	1905 – 1915	Abstract ID: STP15-ABS-211 Title: Effect of Cowling conductivity changes in response to geomagnetic field secular variations <i>Presenting Author: Ana Elias</i>
1345 – 1355	1915 – 1925	Abstract ID: STP15-ABS-265 Title: What do geomagnetic storms tell about the evolution

		of the solar Grand Modern Maximum? <i>Presenting Author: Kalevi Mursula</i>
1355 – 1405	1925 – 1935	Abstract ID: STP15-ABS-220 Title: Epoch analysis of geomagnetic storms and corresponding solar wind and IMF parameters in solar cycles 23 and 24 <i>Presenting Author: Manu Varghese</i>
1405 – 1415	1935 – 1945	Abstract ID: STP15-ABS-291 Title: A quantitative analysis of the supersubstorms (SML<-2500 nT) of solar cycle 24 and their impacts on the solar wind-magnetosphere-ionosphere system <i>Presenting Author: Sritam Hajra</i>
1415 – 1440	1945 – 2010	Breakout Session <i>Breakout room leaders: Jürgen Matzka and Masahito Nose</i>