

2026 Symposium on Space and Ground Based Integrated Observations of the Space Environment in the South Atlantic Anomaly (September 21-23, 2026)

Parallel Session 1: Space-Based (Meeting room: Roger Honiat)

TOPICS: Synergistic Development of China-Brazil Satellite-Based Observations, Empowering Accurate Perception and Research of the Space Environment in the South Atlantic Anomaly.

DAY 1 : September 21, 2026 (Afternoon)

Time	Title (20mins + 5 mins Q&A)	Institution	Presenter	Chair
14:00-14:25	<i>Toward an Integrated Sun-to-Earth Heliophysics Observing System: Synergies between GSST and CBERS-5</i>	DIPHA/INPE	Luis Eduardo	Alisson Del Lago
14:25-14:50	<i>China's space origins exploration program.</i>	NSSC/CAS	Hui Li	
14:50-15:15	<i>SMILE mission operation and preliminary observation</i>	NSSC/CAS	Yongcun Zhang	
15:15-15:45	Coffee Break and Posters			
15:45-16:10	<i>Advancing Space Weather Monitoring: The CBERS-5 Payload and Future Missions for In Situ Plasma and Radiation Observations.</i>	INPE	Joaquim Eduardo Costa	Luis Eduardo
16:10-16:35	<i>Design Scheme of Space Weather Payloads for CBERS-5</i>	NSSC/CAS	Chao Liu	
16:35-17:00	<i>The Status of SAA in the Last 10 years Recorded by CSES Satellite</i>	NSSC/CAS	Xuhui Shen	
17:00-17:30	<i>Discussing the Summary Report on Space-Based Issues</i>			

DAY 2: September 22, 2026 (Morning)

Time	Title (20 mins + 5 mins Q&A)	Institution	Presenter	Chair
09:00-09:25	<i>PARTICLES Probes Mission - PPM</i>	INPE	Ligia Alves (On-line)	Joaquim Eduardo Costa
09:25-09:50	<i>The Solar Polar-orbit Observatory (SPO) mission</i>	UPK	Hui Tian (On-line)	
09:50-10:15	<i>South Atlantic Anomaly Suite Detectors (SAMA-Suite): Plasma and Radiation Belt Environment Monitor</i>	INPE	Livia da Silva	
10:15-10:45	Coffee Break and Posters			
10:45-11:10	<i>ISCOPE: A CubeSat Constellation for Investigating Ionospheric Plasma Dynamics over the Brazilian Sector</i>	INPE	Laysa	Ronan Arraes Jardim Chagas
11:10-11:35	<i>Concept for a China–Brazil Ionospheric Satellite Constellation Cooperation : Discussion Draft</i>	NSSC/CAS	Maosheng He	
11:35-12:00	<i>Solar Irradiance Measurements for the GSST Mission</i>	INPE	Franciele Carlesso	
12:00-12:30	<i>Discussing the Summary Report on Space-Based Issues</i>			

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Parallel Session 2: Ground-Based (Auditorium LIT)

TOPICS: Innovation of Multi-Method Ground-Based Integrated Observation Technologies, Revealing the Dynamics and Physical Mechanisms of the Space Environment Associated with the South Atlantic Anomaly

DAY 1 : September 21, 2026 (Afternoon)

Time	Title(15 mins + 5 mins Q&A) Sub topic: LIDAR	Institution	Presenter	Chair
14:00-14:20	<i>Lidar and Airglow Observations of Gravity Wave Propagation Characteristics in the Mesospheric Region</i>	NSSC/CAS	Jiyao Xu	Rodolfo de Jesus
14:20-14:40	<i>From Extraterrestrial Material to the VLEO Environment: A Multi-Instrument Observational Framework for Investigating Atmospheric Coupling Driven by Near-Earth Objects</i>	INPE	Alexandre Pimenta	
14:40-15:00	<i>The recent developing progress and observations of the metastable helium Lidars in China</i>	University of Science and Technology of China	Ruocan Zhao	
15:00-15:20	<i>Recent Advances in Mesospheric Sodium and Potassium Layers Responses to Geomagnetic Disturbances Associated with the SAMA Region</i>	INPE	Vânia Andrioli	
15:20-15:40	<i>Lidar study metal Ca ions in ionospheric E-F region</i>	NSSC/CAS	Guotao Yang	
15:40-16:10	Coffee Break and Posters			
16:10-16:30	<i>589-nm Doppler wind lidar for the troposphere, stratosphere, and mesosphere</i>	Innovation Academy of Precision Measurement Science and Technology, CAS	Yong Yang	Vânia Andrioli
16:30-16:50	<i>Composite years morphology of mesospheric sodium and potassium layers over the Brazilian low-latitude sector</i>	CBJLSW/INPE	Rodolfo de Jesus	
16:50-17:10	<i>Lidar observation of Ca+ in ionospheric E-F region at Mohe (52.9°N 122.3°E)</i>	NSSC/CAS	Jin Jiao	
17:10-17:30	<i>New aspects of ionospheric irregularities based on joint observations by lidar and radar</i>	Institute of Geology and Geophysics	Wenjie Sun	
17:30-18:00	<i>Discussing the Summary Report on Ground-Based Issues</i>			

DAY 2 : September 22, 2026 (Morning)

Time	Title (15 mins + 5 mins Q&A)	Institution	Presenter	Chair
09:00-09:20	<i>Wind Measurements by A DCOI Network of Meridian Project II</i>	NSSC/CAS	Yajun Zhu	Alexandre Pimenta / Rodolfo de Jesus
09:20-09:40	<i>Meteoroids as a Source of Metal Ion Clouds in Earth's Upper Thermosphere</i>	Wuhan University	Gang Chen	
09:40-10:00	<i>Space - Earth Coupling during May 27, 2017 magnetic storm: A Case Study on Unusual Stable Auroral Red (SAR) Arc Observed at King George Island</i>	INPE	Cristiano Wrasse	
10:00-10:20	<i>Extreme Concentric Gravity Waves Observed in the Mesosphere and Thermosphere Regions Over Southern Brazil Associated with Fast-Moving Severe Thunderstorms</i>	NSSC/CAS	Qinzeng Li	
10:20-10:50	Coffee Break and Posters			
10:50-11:10	<i>Probing thunderstorm-driven near-Earth space disturbances through broadband magnetic field measurements and multi-source observations</i>	University of Science and Technology of China	Gaopeng Lu	Carolina do Carmo / Daniele Medeiros
11:10-11:30	Exploring the Distinctive Space Weather Response of the South American Magnetic Anomaly Through Multi-Instrument Ground-Based Observations	INPE	Juliano Moro	
11:30-11:50	<i>Using the ionosonde to study the influence of lightning activity on disturbances in the upper ionosphere</i>	NSSC/CAS	Zhengwei Cheng	
11:50-12:10	<i>Multi-day Ionospheric Perturbation during 2025 Sudden Stratospheric Warming</i>	CBJLSW/INPE	Luiz Fillip	

12:10-12:30	Event Analysis and Physical Processes of the Impact of Low-Latitude Intense Convection Activities on Ionospheric Irregularities	NSSC/CAS	Sheping Shang	
DAY 2: September 22, 2026 (Afternoon)				
Time	Title (15 mins + 5 mins Q&A)	Institution	Presenter	Chair
14:00-14:20	Ionospheric Observations and Dynamics: Insights from the Hainan Fuke Digisonde	NSSC/CAS	Guojun Wang	Cristiano Wrasse / Luiz Fillip
14:20-14:40	Super Equatorial Plasma Bubble Dynamics during the 10 May and 10 October 2024 Geomagnetic Storms in the American Sector	CBJLSW/INPE	Carolina do Carmo	
14:40-15:00	The preliminary research progress on the polar cap Es layers	Shandong University	Yong Wang	
15:00-15:20	Detection of Atypical Sporadic E Layers Associated with Anomalous Ionization During Magnetic Storms over the South American Magnetic Anomaly	INPE	Laysa Resende	
15:20-15:40	Coffee Break and Posters			
15:40-16:00	Overview of the geomagnetic disturbances in the South American Magnetic Anomaly	INPE	Sony Su Chen	Jean Pierre / Edith
16:00-16:20	Magnetic Field Modeling of Solar Active Region for Space Weather Prediction	NSSC/CAS	Xiaoshuai Zhu	
16:20-16:40	Modeled Kp Index: A Case Study of the St. Patrick's Day Geomagnetic Storm	CBJLSW/INPE	Daniele Medeiros	
16:40-17:00	Formation mechanism of short-period quasi-periodic pulsations in radio bursts	NSSC/CAS	Minghui Zhang	
17:00-17:20	(Solar)	UPM	Jean Pierre	
17:20-17:50	Discussing the Summary Report on Ground-Based Issues			