

Session Title/Subtitle	Format	Live Date	START TIME AEDT	END TIME AEDT	Speaker Name	Moderator's Name
Presentation Title/Subtitle	Format	Live Date	Start Time AEDT	End Time AEDT	Speaker Name	Session Chair Name
DAY 5 - AM - Tuesday 2 February (BLOCK 1)						
A0.4 Land-Ocean-Atmosphere Interactions (Speaker 1, 3, 4, 14, 16, 17)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Benoit Meyssignac Maria Hakuba Usha Hasyagar Weixian Liu Dinesh Kumar Kirankumar Nadimpally Linlu Mei Daniel Boice John Beager Severine Pournier	Jerome Beveniste Severine Fournier
A3.1 Advances in Quantitative Remote Sensing and Application for Global Terrestrial Ecosystems (Speakers 2 - 21)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Yoshinari Oguro Yantong Chen Kuldeep Chaurasia Takashi Nonaka Atsuko Nonomura Kazuhiro Ohii Alfredo Puete Ngoc Nguyen Tran Kanako Muramatsu Abhirup Dikshit Noriko Soyama	
B0.3 Lunar, Mars, and Asteroid Resources (Speaker 1 - 13)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Gregory Schmidt Amy McAdam Heather Smith Jonathon Balston Nicholas Bennett Volker Bessel	Ian Crawford
B0.3 Lunar, Mars, and Asteroid Resources (Speaker 15 - 19)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	María-Paz Zorzano Jessica Dallas Ruida Xie Ian Crawford	
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 1 - 13)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Pascale Ehrenfreund Michel Blanc Frances Westall Olivier Mousis Allona Bazan Lea Britton Helmut Hammer Bernard H. Foing Olga Prieto-Ballesteros Heike Bauer Michel Blanc Ralph McNutt Carle Pieters	
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 14 - 20)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Gilles Berger Linda Spilker Naoya Ozaki	
B1.3 Results from the Exploration of the Kuiper Belt by NASA's New Horizons Mission (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	William McKinnon Alan Stern Oliver White Anders Hansen Wladimir Lyra Cristina Dalle Ore Careyisse Kelsi Singer Stuart Robbins	Randy Gladstone William McKinnon Kelsi Singer Silvia Protopapa Oliver White Andrew Poppe

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B3.1 Lunar Science and Exploration (Speakers 12 - 17)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Durga Prasad Karanam Young-Jun Choi Anatoli Petrukovich Emily Law Rachel Lima Sungsoo Lim	
B3.1 Lunar Science and Exploration (Speakers 18 - 27)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Sahil Bhatia Samuel Balim Frederico Francisco Anna Pederson Maria Banks Fabrizio Pirri Gavin Donibeer	
B4.4 Venus Science and Exploration (Speakers 7 - 17)	Simulive w/ Live Q&A	02/02/21	10:15	11:45	Masato Nakamura Kevin McGooldrick Sanjay Imaye Hilary L. Bush Josette Bellan Franklin Mills Sara Seager Peter Beck Graham Dorrington Jeffery Ball Kevin Baines	James Cutts Colin Wilson
B4.4 Venus Science and Exploration (Speakers 13 - 17)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Sara Seager Peter Beck Graham Dorrington Jeffery Ball Kevin Baines	James Cutts Colin Wilson
B4.4 Venus Science and Exploration (Speakers 19 - 26)	Simulive w/ Live Q&A	02/02/21	08:45	09:30	Rohan Byrne Craig O'Neill Jean-Luc Margot Tibor Kerec Thomas Widemann Jim Garvin Martha Gilmore	
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 1 - 8)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Nikole Lewis Amélie Bressier George Ricker Brett Addison Sarah McIntyre Willy Benz	
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 11 - 18)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Magali Deleuil Peter Tuthill Michael Beland Sascha Quanz Shingo Kameda	
C0.2 Advances in Remote Sensing of the Middle and Upper Atmosphere and Ionosphere from the Ground and from Space, including Sounding Rockets and Multi-Instrument Studies (Speakers 3 - 10)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Igor Förner Nikola Bankov Jihong Wang Pranjal Dave Petr Nikolaevx`	
C0.3 Variabilities of Radio Wave Propagation Characteristics in Lower Ionosphere (Speakers 9 - 12 + 13, 16)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Tamal Basak Subrata Kundu Sagardweep Biswas Soujan Ghosh Andrew Beitmann Susanna Bekker	

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C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 36, 39, 47, 52, 54, 57)	Simulative w/ Live Q&A	02/02/21	08:00	09:30	Aashiq Hussain Bhat Ajith K Fan Yang Stanislavazykin Chaosonguang Swati Chowdhury	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 42 - 45)	Simulative w/ Moderated text Q&A	02/02/21	08:45	10:15	Sagardeep Biswas Cosme Alexandre Bigueiredo Julie Currie	
C2.1 The Physics and Dynamics of the Middle Atmosphere from Mid to High Latitudes (Speakers 6 - 8)	Simulative w/ Moderated text Q&A	02/02/21	09:30	11:00	Gerd Baumgarten Michael Berding Christian von Savigny	John French
C2.4 Small Satellite Missions for Aeronomy and Ionosphere Studies (Speakers 4, 5, 17, 18)	Simulative w/ Moderated text Q&A	02/02/21	08:00	09:30	Amal Chandran Talini Pinto Jayawardena Dincer Sokcen Ruiqiong Zhai	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 2 - 8)	Simulative w/ Moderated text Q&A	02/02/21	08:00	09:30	Stephen Bougher Jasper Halekas Justin Deighan Masoom P. Pathwa Siddhi Y. Shah S. K. Goyal	Syed A. Haider Anil Bhardwaj
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 10 - 17)	Simulative w/ Live Q&A	02/02/21	09:30	11:00	Sean Bruinsma Varun Sheel Franck Montmessin Syed A. Haider Shaosui Xu	Stephen Bougher Eduard Dubinin
D1.2 Large-Scale Heliospheric Structure: Theory, Modelling, and Data (Speakers 10 - 15)	Simulative w/ Moderated text Q&A	02/02/21	08:00	09:30	Konstantin Herbst Lennart Robin Baalmann Nikolai Pogorelov Merav Opher Iver Cairns	Merav Opher Nikolai Pogorelov Yuri Yermolaev Vladislav Izmodenov
D1.3 Pickup Ions in the Heliosphere and Beyond (Speakers 1 - 8)	Simulative w/ Live Q&A	02/02/21	09:30	11:00	Maciej Bzowski Pawel Swaczyna David Lario Eberhard Möbius Ming Zhang Robert Allen Nikolai Pogorelov	Ming Zhang Heather Elliott Jacob Heerikhuisen
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 26 - 38)	Simulative w/ Moderated text Q&A	02/02/21	08:00	09:30	Mikhail Viktorov Ryo Yamazaki Paul Bellan Mami Machida Ralf-Juergen Detmar Anusha Okanathapura Seetharamabhasari Laura Marcela Becerra Bayona Prasanta Bera Thomas Schäd Kristopher Klein	Jean-Claude Vial Thomas Berger Prateek Sharma Ryoji Matsumoto
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 33 - 42 + 51 + 54)	Simulative w/ Live Q&A	02/02/21	08:00	09:30	Brigitte Schmieder Stephan Heinemann Lanlan Nadav Haddad Florian Begnault Benjamin Lynch Daikou Shiota Bin Zhuang	Camilla Scolini
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 44 - 48)	Simulative w/ Live Q&A	02/02/21	08:00	08:45	Ryun Young Kwon Reka Winslow Qiang Gu Stephan Heinemann	Kyungsuk Cho Majeta Dumbovic

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D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Nicole Wilmer Nina Dresing Kyoko Watanabe Du Toit Strauss Bin Zhuang Richard Beske	Nat Gopalswamy Iver Cairns Nina Dresing Olga Malandraki
D3.2 Cross-scale Coupling and Multi-point Observations in the Magnetosphere (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Alessandro Retino Brandon Burkholder Li-Jen Chen Daniel Graham Cecilia Norgren Lev Zelenyi Julia Stawarz Kyunghwan Bokgo Wenya Bi	Katariina Nykyri Marina Stepanova Frederick Wilder
D3.2 Cross-scale Coupling and Multi-point Observations in the Magnetosphere (Speakers 12 - 18)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Frederick Wilder Bin-Bin Tang Marina Stepanova Cecilia Norgren	Brandon Burkholder Cecilia Norgren Alessandro Retino
D3.5 Particle Acceleration and Loss in the Earth and Planetary Magnetospheres (Speakers 12 - 23)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Ioannis A. Daglis Louis Ozeke Hong Zhao Hans Huybrighs Liam Varden Samuel Walton Ritabrata Sarkar Vladimir Malagaev Yuri Shprits	Lunjin Chen Allison Jaynes Ayako Matsuoka Christos Katsavrias
D3.6 Magnetotail Dynamics and Substorms during Storm and Non-storm Time (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	09:30	11:00	Vassilis Angelopoulos Colin Forsyth Colin Waters Evgeny Panov Daniel N. Baker Ryan McGranaghan Evgeny Kordeev Luke Oberhagemann	
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 23 - 27)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Andrea Sanna Ruchi Bandey	
E1.11 The Gravitational Wave Universe in the LIGO-Virgo Era (Speakers 4 - 6)	Simulive w/ Live Q&A	02/02/21	09:30	11:00	Hannah Middleton Patrick Meyers Simone Dichiara	
E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 1 - 11)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Sabrina Einecke Sabrina Einecke Marcos Santander Ruben Lopez-Coto Mehr Nisa Mathieu De Naurois Sofia Ventura Elizabeth Hays	Tulun Ergin Pol Bordas

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E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 12 - 16)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Daniela Badasch Ekrem Oguzhan Anguner Shutao Tanaka Miroslav Filipovic Hidetoshi Sano	Pol Bordas Tulun Ergin
E1.16 Origin of Cosmic Rays (Speakers 73 - 81)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Angela Volinto Matteo Durante Roberto Battiston Wolfgang Zober Carolyn Rierans Alexander Moiseev Nikolay Topchiev Aleksandr Leonov	Eun-Suk Seo Vitali Choutko
E1.17 The Space View of Radio Galaxies (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/02/21	08:45	10:15	Gabriele Ponti Diana Vorrall Sara Buson Monica Orienti Gabriele Bruni Martin Hardcastle Mark Birkinshaw	
E1.17 The Space View of Radio Galaxies (Speakers 10 - 14)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Heino Falcke Tuomas Savolainen Alexey Rudnitskiy Andrey Andrianov	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 41 - 45)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Gudrun Wanner Luke Kelley Alexander Plavin Daewon Kim	
E1.2 The Remnants of Supernova Explosions (Speakers 31 & 33)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Barbara D'Imi John Kirk	
E1.3 Astronomy from Space and the Ground: Synergies and Challenges (Speakers 2 - 9)	Simulive w/ Live Q&A	02/02/21	09:30	11:00	Philip Edwards Ana Gomez De Castro Antonio Vecchio Louis Barbier Pietro Bertini Martin Giard	
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Enrico Costa Martin Weisskopf Carolyn Rierans Paolo Soffitta Fabio Muleri Alessandro Di Marco Fei Xie John Rankin	Herman Marshall Silvia Zane
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 10 - 19)	Simulive w/ Live Q&A	02/02/21	09:30	11:00	Wayne Baumgartner Madhuri Sriprulu Herman Marshall Tomoaki Kasuga Fabian Islak Hua Peng Silvia Zane Alan Garner Herman Marshall Alan Garner	Paolo Soffitta Matthew Baring

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E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 6 - 14)	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:30	Magnus Axelsson Tomaso Belloni Shivappa Gudennavar Kalvir S. Dhuga Mariano Mendez David Russell	
E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 16 - 18)	Simulive w/ Moderated text Q&A	02/02/21	09:30	11:00	Federico García Jiacheng Jiang Teodoro Muñoz-Darias	
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 1 - 15)	Simulive w/ Moderated text Q&A	02/02/21	08:45	10:15	Piergiorgio Casella James Bodi Jessy Mol Thomas Aarran Shaw Kaushik Chatterjee Indranil Chattopadhyay Gulab Chand Dewangan Neal Thomas Anuvab Banerjee Debjit Chatterjee	
E2.4 New Views on the Solar Magnetic Atmosphere (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Lucia Leint Gabriel Lima Thomas Schad Shinsuke Tanada	Anna Malanushenko
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 19 - 26)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Francis Cucinotta Francis Cucinotta Narongchai Utsavapromporn Mark Hill Ksenia Belocopitova Giorgio Baiocco Akihisa Takahashi	Michael Story Francis Cucinotta
F2.3 Space Radiation: Dosimetric Measurements and Related Models, Radiation Detector Developments and their Ground-Based Characterization (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	08:45	10:15	Ramona Giza Cristina Consolandi Thomas Berger Bent Ehresmann Claudio Corti Minjing Qi	
F3.3 Habitability in the Solar System and Beyond (Speakers 1 - 10)	Simulive w/ Live Q&A	02/02/21	08:45	10:15	Sushil K. Atreya Amy McAdam Amy Williams Maëva Villan Rafael Navarro-Gonzalez Javier Martin-Torres Anshuman Bhardwaj Sergey Bulat Athena Coustenis	Rafael Navarro-Gonzalez F. Javier Martin-Torres
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 28 - 36)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Dahbia Talbi Nadia Balucani Ryan Portenberry Karolina Baupa Eric Herbst Maxime Buaud Kinsuk Charyya Zainab Awad	
H0.4 Gravitational Wave Astrophysics (Speakers 1 - 4)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Laurentiu Ioan Caramete Mike Pau Lieke van son Margaret Millhouse	Martina Muratore

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H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 3 - 8)	Simulive w/ Moderated text Q&A	02/02/21	08:45	10:15	Suquanding Asli Pinar Simone Paternostro Chris Rizos Francesco Vespe Sven Herrmann	Jürgen Müller Roberto Peron
H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 10 - 14)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Shin-Chan Han Kirk McKenzie Benny Bievers Oleg Titov	Roberto Peron Jürgen Müller
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 2 - 12)	Simulive w/ Moderated text Q&A	02/02/21	08:45	10:15	Yuri Matsushita Daigo Kobayashi Alexander Burton James Allworth Richard Samuel Lech Piotrowski Hajime Suzuki Mario Edoardo Bertaina Noelia Martinez	Carolin Frueh
PPP.3 Planetary Protection Research and Development (Speakers 9 - 17)	Simulive w/ Moderated text Q&A	02/02/21	10:15	11:45	Elena Deshevaya Aaron Regberg Delphine Baye Zachary Dean Emily Seto María-Paz Zorzano Michelle Iso	Niklas Hedman
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 9 - 17)	Simulive w/ Moderated text Q&A	02/02/21	08:45	10:15	Adithya Rajendran Yoshitaka Saito Kyoichi Nakashino Stephanie Venel T. Gregory Guzik Atsushi Takada Masayoshi Kozai James Adams	Joao Braga Sandip Kumar
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 21 - 28)	Simulive w/ Live Q&A	02/02/21	10:15	11:45	Hirimitsu Takahashi Yuya Nakamura Satoru Takahashi André Vargas Mattias Abrahamsson Ervan Cassarian Dwayne Orr Frank Baginski	Tetsuya Yoshida
PSW.1 Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (Speakers 1 - 10)	Simulive w/ Live Q&A	02/02/21	08:00	09:30	Yuki Kubo Lee-Anne McKinnell Kathryn Whitman Ioannis A. Daglis Tara Jensen Tamas Gombosi James Adams	

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New High Energy Astrophysics Involving Gravitational Waves and Satellite Observations - Session 1	Full Live	02/02/21	07:15	08:00	Marica Branchesi	
Cloud Computing for Space Research 08:00-09:20 AEDT	Simulive w/ Moderated text Q&A	02/02/21	08:00	09:20	Hsin-Fang Chiang Grant Miller Francisco J. Rodriguez Lera David Fernández Gonzalez Miguel Ángel González Santamarta	
Cloud Computing for Space Research 10:00-11:20 AEDT	Simulive w/ Moderated text Q&A	02/02/21	10:00	11:20	Ryan Abernathy Richard Strange Anirudh Koul Siddha Ganju Meher Kasam James Parr	

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DAY 5 - PM - Tuesday 2 February (BLOCK 2)						
Public Lecture	Simulive w/ Live Q&A	02/02/21	12:00	13:00	Adrian Brown	
Cloud Computing for Space Research 12:00-13:30 AEDT	Simulive w/ Moderated text Q&A	02/02/21	12:00	13:30	Fernando Lisboa Shivam Verma Anirudh Koul Chris Holdgraf	
A0.4 Land-Ocean-Atmosphere Interactions (Speakers 1 - 12)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Benoit Meyssignac Maria Hakuba Usha Hasyagar Weixian Liu Dinesh Kumar Kirankumar Nadimpally Linlu Mei Daniel Boice John Reager Severine Fournier	Jerome Beveniste Severine Fournier
A3.1 Advances in Quantitative Remote Sensing and Application for Global Terrestrial Ecosystems (Speakers 2 - 21)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Yoshinari Oguro Yantong Chen Kuldeep Chaurasia Takashi Onaka Atsuko Onomura Kazuhiro Ehii Alfredo Buete Ngoc Nguyen Tran Kanako Muramatsu Abhirup Dikshit Noriko Soyama	No Chair
B0.3 Lunar, Mars, and Asteroid Resources (Speaker 1 - 13)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Gregory Schmidt Amy McAdam Heather Smith Jonathon Balston Nicholas Bennett Volker Bessel	Ian Crawford
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C0.2 Advances in Remote Sensing of the Middle and Upper Atmosphere and Ionosphere from the Ground and from Space, including Sounding Rockets and Multi-Instrument Studies (Speakers 3 - 10)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Igor Börner Nikola Bankov Jihong Wang Pranjal Dave Petr Nikolaev	No Chair

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C0.3 Variabilities of Radio Wave Propagation Characteristics in Lower Ionosphere (Speakers 9 - 12 + 13, 16)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Tamal Basak Subrata Kundu Sagardweep Biswas Soujan Ghosh Andrew Beitmann Susanna Bekker	No Chair
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 36, 39, 47, 52, 54, 57)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Aashiq Hussain Bhat Ajith K Fan Yang Stanislav Sazykin Chaosong Huang Swati Chowdhury	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 42 - 45)	Simulive w/ Moderated text Q&A	02/02/21	19:45	21:15	Sagardweep Biswas Cosme Alexandre Figueiredo Julie Currie	
C2.1 The Physics and Dynamics of the Middle Atmosphere from Mid to High Latitudes (Speakers 6 - 8)	Simulive w/ Live Q&A	02/02/21	20:30	22:00	Gerd Baumgarten Michael Berding Christian von Savigny	John French
C2.4 Small Satellite Missions for Aeronomy and Ionosphere Studies (Speakers 4, 5, 17, 18)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Amal Chandran Talininto Jayawardena Dincer Kokcen Ruiqiong Zhai	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 2 - 8)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Stephen Bougher Jasper Halekas Justin Deighan Masoom P. Pathwa Siddhi Y. Shah S. K. Broyal	Syed A. Haider Anil Bhardwaj
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 10 - 17)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Sean Bruinsma Varun Sheel Franck Montmessin Syed A. Haider Shaosui Xu	Stephen Bougher Eduard Dubinin
D1.2 Large-Scale Heliospheric Structure: Theory, Modelling, and Data (Speakers 10 - 15) - Block 2	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Konstantin Herbst Lennart Robin Baalmann Nikolai Pogorelov Merav Opher Iver Cairns	Merav Opher Nikolai Pogorelov Yuri Yermolaev Vladislav Izmodenov
D1.3 Pickup Ions in the Heliosphere and Beyond (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Maciej Bzowski Pawel Swaczyna David Lario Eberhard Möbius Ming Zhang Robert Allen Nikolai Pogorelov	Ming Zhang Heather Elliott Jacob Heerikhuisen
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 26 - 38)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Mikhail Viktorov Ryo Yamazaki Paul Bellan Mami Machida Ralf-Juergen Detmar Anusha Lokanathapura Seetharamabhasari Laura Marcela Becerra Bayona Prasanta Bera Thomas Schad Kristopher Klein	Jean-Claude Vial Thomas Berger Prateek Sharma Ryoji Matsumoto

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D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 33 - 42 + 51 + 54)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Brigitte Schieder Stephan Heinemann Lanlan Nadav Haddad Florian Bagnault Benjamin Lynch Daikou Shiota Bin Zhuang	Camilla Scolini
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 44 - 48)	Simulive w/ Moderated text Q&A	02/02/21	19:00	19:45	Ryun Young Kwon Reka Winslow Qiang Hu Stephan Heinemann	Kyungsuk Cho Majeta Dumbovic
D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 1 - 10)	Simulive w/ Live Q&A	02/02/21	20:30	22:00	Nicole Wilmer Nina Dresing Kyoko Watanabe Du Toit Strauss Bin Zhuang Richard Beske	Nat Gopalswamy Iver Cairns Nina Dresing Olga Malandraki
D3.2 Cross-scale Coupling and Multi-point Observations in the Magnetosphere (Speakers 1 - 9)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Alessandro Retino Brandon Burkholder Li-Jen Chen Daniel Graham Cecilia Norgren Lev Zelenyi Julia Stawarz Kyunghwan Bokgo Wenya Bi	Katariina Nykyri Marina Stepanova Frederick Wilder
D3.2 Cross-scale Coupling and Multi-point Observations in the Magnetosphere (Speakers 12 - 18)	Simulive w/ Live Q&A	02/02/21	20:30	22:00	Frederick Wilder Bin-Bin Tang Marina Stepanova Cecilia Norgren	Brandon Burkholder Cecilia Norgren Alessandro Retino
D3.5 Particle Acceleration and Loss in the Earth and Planetary Magnetospheres (Speakers 12 - 23)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Ioannis A. Daglis Louis Ozeke Hong Zhao Hans Huybrighs Liam Warden Samuel Walton Ritabrata Sarkar Vladimir Malagaev Yuri Shprits	Lunjin Chen Allison Jaynes Ayako Matsuoka Christos Katsavrias
D3.6 Magnetotail Dynamics and Substorms during Storm and Non-storm Time (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Vassilis Angelopoulos Colin Forsyth Colin Waters Evgeny Panov Daniel N. Baker Ryan McGranaghan Evgeny Gordeev Luke Oberhagemann	
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 23 - 27)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	Andrea Sanna Ruchi Bandey	
E1.11 The Gravitational Wave Universe in the LIGO-Virgo Era (Speakers 4 - 6)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Hannah Middleton Patrick Meyers Simone Dichiara	

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E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 1 - 11)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Sabrina Einecke Sabrina Einecke Marcos Santander Ruben Lopez-Coto Mehr Nisa Mathieu De Naurois Sofia Ventura Elizabeth Hays	Tulun Ergin Pol Bordas
E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 12 - 16)	Simulive w/ Live Q&A	02/02/21	21:15	22:45	Daniela Badasch Ekrem Oguzhan Anguner Shuta Tanaka Miroslav Filipovic Hidetoshi Sano	Pol Bordas Tulun Ergin
E1.16 Origin of Cosmic Rays (Speakers 73 - 81)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Angela Volinto Matteo Duranti Roberto Battiston Wolfgang Zober Carolyn Kierans Alexander Moiseev Nikolay Topchiev Aleksii Leonov	Eun-Suk Seo Vitali Choutko
E1.17 The Space View of Radio Galaxies (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/02/21	19:45	21:15	Gabriele Ponti Diana Worrall Sara Buson Monica Orienti Gabriele Bruni Martin Hardcastle Mark Birkinshaw	
E1.17 The Space View of Radio Galaxies (Speakers 10 - 14)	Simulive w/ Live Q&A	02/02/21	21:15	22:45	Heino Falcke Tuomas Savolainen Alexey Budnitskiy Andrey Andrianov	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 41 - 45)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Gudrun Wanner Luke Kelley Alexander Plavin Daewon Kim	
E1.2 The Remnants of Supernova Explosions (Speakers 31 & 33)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Barbara Olmi John Kirk	
E1.3 Astronomy from Space and the Ground: Synergies and Challenges (Speakers 2 - 9)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Philip Edwards Ana Gomez De Castro Antonio Vecchio Louis Barbier Pietro Bertini Martin Siard	
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Enrico Costa Martin Weiskopf Carolyn Kierans Paolo Soffitta Fabio Muleri Alessandro Di Marco Fei Xie John Rankin	Herman Marshall Silvia Zane
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 10 - 19)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Wayne Baumgartner Madhuri Sripolu Herman Marshall Tomoaki Sasuga Fabian Islat Hua Peng Silvia Zane Alan Garner Herman Marshall Alan Garner	Paolo Soffitta Matthew Baring

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E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 6 - 14)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Magnus Axelsson Tomaso Belloni Shivappa Gudennavar Kalvir S. Dhuga Mariano Mendez David Russell	
E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 16 - 18)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Federico García Jiacheng Jiang Teodoro Muñoz-Darias	
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 1 - 15)	Simulive w/ Live Q&A	02/02/21	19:45	21:15	Piergiorgio Casella James Bodi Jessy Mol Thomas Aarran Shaw Kaushik Chatterjee Indranil Chattopadhyay Gulab Chand Dewangan Neal Thomas Anuvab Banerjee Debjit Chatterjee	
E2.4 New Views on the Solar Magnetic Atmosphere (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	Lucia Leint Gabriel Lima Thomas Schad Shinsuke Tanada	Anna Malanushenko
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 19 - 26)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Francis Cucinotta Francis Cucinotta Narongchai Utsavapornporn Mark Hill Ksenia Belocopitova Giorgio Baiocco Akihisa Takahashi	Michael Story Francis Cucinotta
F2.3 Space Radiation: Dosimetric Measurements and Related Models, Radiation Detector Developments and their Ground-Based Characterization (Speakers 1-9)	Simulive w/ Moderated text Q&A	02/02/21	19:45	21:15	Ramona Giza Cristina Consolandi Thomas Berger Bent Ehresmann Claudio Corti Minjing Qi	
F3.3 Habitability in the Solar System and Beyond (Speakers 1 - 10)	Simulive w/ Live Q&A	02/02/21	19:45	21:15	Sushil K. Atreya Amy McAdam Amy Williams Maëva Villan Rafael Navarro-Gonzalez Javier Martin-Torres Anshuman Bhardwaj Sergey Bulat Athena Coustenis	Rafael Navarro-Gonzalez F. Javier Martin-Torres
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 28 - 36)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Dahbia Talbi Nadia Balucani Ryan Fortenberry Karolina Baupa Eric Herbst Maxime Buaud Kinsuk Charyya Zainab Awad	
H0.4 Gravitational Wave Astrophysics (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Laurentiu Ioan Caramete Mike Pau Lieke Van son Margaret Millhouse	Martina Muratore

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H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 3 - 8)	Simulive w/ Moderated text Q&A	02/02/21	19:45	21:15	Suquanding Asli Pinar Simone Paternostro Chris Rizos Francesco Vespe Sven Herrmann	Jürgen Müller Roberto Peron
H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 10 - 14)	Simulive w/ Moderated text Q&A	02/02/21	19:45	20:30	Shin-Chan Han Kirk McKenzie Benny Bievers Oleg Titov	Roberto Peron Jürgen Müller
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 2 - 12)	Simulive w/ Live Q&A	02/02/21	19:45	21:15	Yuri Matsushita Daigo Kobayashi Alexander Burton James Allworth Richard Samuel Lech Piotrowski Hajime Suzuki Mario Edoardo Bertaina Noelia Martinez	Carolyn Frueh
PPP.3 Planetary Protection Research and Development (Speakers 9 - 17)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	Elena Deshevaya Aaron Regberg Delphine Baye Zachary Dean Emily Seto María-Paz Zorzano Michelle Iso	Niklas Hedman
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 9 - 17)	Simulive w/ Live Q&A	02/02/21	19:45	21:15	Adithya Rajendran Yoshitaka Saito Kyoichi Nakashino Stephanie Venel T. Gregory Guzik Atsushi Takada Masayoshi Kozai James Adams	Joao Braga Sandip Kumar
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 21 - 28)	Simulive w/ Live Q&A	02/02/21	21:15	22:45	Hirimitsu Takahashi Yuya Nakamura Satoru Takahashi André Vargas Mattias Abrahamsson Ervan Cassarian Dwayne Orr Frank Baginski	Tetsuya Yoshida
PSW.1 Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Yuki Kubo Lee-Anne McKinnell Kathryn Whitman Ioannis A. Daglis Tara Jensen Tamas Gombosi James Adams	No Chair
PSW.1 Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (Speakers 13 - 16)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Manolis K. Georgoulis Christine Verbeke David Barnes Yihua Zheng	

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PSW.1 Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (Speakers 19 - 23)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45		
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 13 - 21)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Lisa Rosenqvist Daniel H. Mac Manus Katariina Nykyri Wojciech Wiloch Sean Bruinsma	No Chair
New High Energy Astrophysics Involving Gravitational Waves and Satellite Observations - Session 2	Full Live	02/02/21	18:15	19:00	Marica Branchesi	