

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
<b>DAY 1 - AM - Friday 29 Jan (BLOCK 1)</b>						
A0.1 The Interface Between Spacecraft Instrument Technologies and the Science They Enable (Speakers 1 - 3 + 10)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Rashmi Shah Linghua Guo - missing YuXiang Peng - miss bio	Ralph Kahn
A0.2 GEO (Speakers 2 & 4)	Simulive w/ Moderated text Q&A	01/29/21	09:30	11:00	Aude Vignelles Jurgen Weichenberger - missing bio	
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Mark Krumholz Wladimir Lyra - missing bio Sayantan Choudhury Fred Biesla Stavro Ivanovski - missing bio , Jeong-Eun Lee, Daniel Harsono	Diego Turrini Stavro Ivanovski - missing bio
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 12 - 22)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Beatrice Marie Multerer - missing bio Joanna Drazkowska Neal Turner Diego Turrini Samuele Tespi - missing bio Francesca Westall Eugenio Schisano Brett McGuire Alessandro Sozzetti Stephen Lubow	Diego Turrini Stavro Ivanovski - missing bio
B0.4 Technologies for Planetary Research (Speakers 1 - 13)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Ray Drum Patricia Beauchamp James Cutts Jonathan Sauder - missing bio Aaron Brandis John Bellardo Guy Beutelschies Jorn Elbert - missing bio Seamus Anderson - missing bio	Patricia Beauchamp Jean-Pierre Lebreton - missing bio
B0.4 Technologies for Planetary Research (Speakers 15 - 21)	Simulive w/ Moderated text Q&A	01/29/21	10:15	11:45	Jennifer Eigenbrode Lorraine Besq John Day - missing image Robert Staehle	
B1.1 Small Body Exploration Science in the New Decade (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Makoto Yoshikawa - missing bio Satoru Nakazawa - missing bio Brian Day - missing bio Anna Galiano Ernesto Palomba Sho Sasaki Tatsuhiko Michikami Kristin Nichols Maurizio Ajola	Ernesto Palomba
B1.1 Small Body Exploration Science in the New Decade (Speakers 12 - 19)	Simulive w/ Moderated text Q&A	01/29/21	09:30	11:00	Andrew Cheng Patrick Michel Tomoko Iirai Takayuki Iirai - missing bio Kosuke Iwano	Mihaly Horanyi - missing bio

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
B4.1 Mars Science Results (Speakers 1 - 9)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Abigail Braeman - missing bio Lauren Edgar Adrian Brown Caroline Reissinet Cyril Szopa Naila Chaouche Arnaud Buch Naila Chaouche John Grant	Arnaud Buch
B4.1 Mars Science Results (Speakers 11 - 20)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Takeshi Uroda Justin Deighan Christy Lentz Syed A. Haider Roland Young Claus Gebhardt - missing bio Bruce Pakosky - missing bio	Justin Deighan
B5.1 Juno at Jupiter (Speakers 1 - 5)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Heidi Becker Scott Bolton - missing bio Yamila Miguel - missing bio Glenn Orton	
B5.1 Juno at Jupiter (Speakers 6 - 12)	Simulive w/ Moderated text Q&A	01/29/21	09:30	11:00	Glenn Orton James Sinclair Robert Eysak Joshua Hammer	
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 1 - 6 + 11)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Yasunobu Ogawa Shin-ichiro Oyama - missing bio Theodore Sarris Shun-Rong Zhang Shasha Zou - missing bio Xing Meng	
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 15 - 17)	Simulive w/ Moderated text Q&A	01/29/21	10:15	11:45	Christopher Haston - missing bio Jone Peter Reistad Chaosong Huang	
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 2-12)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Thomas Emmel - missing bio William E. Ward - missing bio Sabine Wuest - missing image Erdal Yigit Damian Murphy Kaoru Sato - missing bio Duggirala Pallamraju Yvan Orsolini - missing bio	Erdal Yigit Christopher Heale
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 13 - 17)	Simulive w/ Live Q&A	01/29/21	10:15	11:45	McArthur Jones Jr Christopher Heale Igor Paulino	William E. Ward - missing bio
C3.3 Imaging the Planets in X-rays (Speaker 1 - 10)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Graziella Branduardi-Raymont Emil Aitz Brian Walsh - missing image Kumi Bhikawa Daiki Ichi P. F. Chen Yuichiro Ezoe Masaki Numazawa Dennis Bodewits - missing image	
C4.1 Improving the Description of Hemispheric Differences in Ionospheric Models (Speakers 16 - 18)	Simulive w/ Live Q&A	01/29/21	10:15	11:45	David R. Thiemens Dieter Bilitza Vladimir Truhlik	Shun-Rong Zhang Michael Pezzopane - missing bio

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
C5.1 Active Space Experiments (Speakers 1-5 + 9)	Simulive w/ Live Q&A	01/29/21	08:45	10:15	Thomas Eysler Wayne Scales Bengt Eliasson - missing bio Haiyang Yu - missing bio Alexey Shindin	
D2.1 Space Climate (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	01/29/21	10:15	11:45	Prantika Chowmik Melinda Nagy - missing bio Judith Muraközy Hisashi Hayakawa - missing bio	
E1.1 Rapidly-rotating Neutron Stars (Speakers 2 - 10)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Giovanni Ceribella - missing bio Paul Bay Shijie Zheng Christoffer - missing bio Dipankar Bhattacharya Julian Darlin Mingyu Ge - missing bio	
E1.1 Rapidly-rotating Neutron Stars (Speakers 11-21)	Simulive w/ Moderated text Q&A	01/29/21	09:30	11:00	Slavko Bogdanov - missing image Samar Safi-Harb Kaustubh Bajwade - missing image Andrea Sanna Maria Cristina Baglio Kaho Tse Luis Rodriguez	
E1.13 High-energy Processes at the Galactic Center (Speakers 1 - 10)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Frank Eisenhauer Alejandra Jimenez Rosales Diego Calderón Randy Campbell - missing bio Anna Ciurlo Mark R. Morris Gerald Cecil Lucia Armillotta	Roland Crocker Andrea Goldwurm
E1.13 High-energy Processes at the Galactic Center (Speakers 12 - 20)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Kerstin Perez - missing bio Jun-Hui Zhao - missing bio Maica Clavel Hideki Ichiyama Masayoshi Nobukawa Gabriele Ponti - missing bio Enrico Di Teodoro - missing bio Roland Crocker - missing bio Chris Gordon	Chuck Hailey Eugene Churazov
E1.14 Long-term All-sky Monitoring of High Energy Transient Sources (Speakers 2 - 6)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Sergey Sygankov Hitoshi Negoro Liliana E. Rivera Sandoval Kumiko Nobukawa	
E1.16 Origin of Cosmic Rays (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Samuel Ting Senquan Yu Francesco Miccoli Vitali Choutko Qi Fan Xiaoting Qin - missing image Magdalena Allen - missing image Yi Ma - missing image Zhiliu Weng - Missing image Weiwei Xu - missing image	Igor Moskalenko - missing bio

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
E1.16 Origin of Cosmic Rays (Speakers 12 - 21)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Ilias Cholis Riccardo Lunini Shoji Torii Wolfgang Zober Brian Bauch Jin Zhang - missing bio Mingyang Cui - missing bio Pengxiang Ma - missing bio Mikhail Malkov - missing bio Xiaohui Sun - missing image	Samuel Ting
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 1 - 5)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Sara Issaoun - missing image Shepard Doleman Heino Falcke - missing image Ilaria Caiazzo - missing image	Mark R. Morris Sandip Kumar Chakrabarti
E1.5 Accretion on All Scales (Speakers 1, 2, 6 - 10 + 31, 33)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Liliana E. Rivera Sandoval - missing image Ayan Hattacharjee Jake Miller Koji Mukai - missing image Sanhita Babiraj - missing image	
E1.5 Accretion on All Scales (Speakers 11 - 19)	Simulive w/ Moderated text Q&A	01/29/21	09:30	11:00	Christian Schneider David Buckley Jessica Erkal Adam Ingram Thomas Russell - missing bio Francesco Carotenuto - missing image Alexandra Tetarenko - missing bio Payaswini Saikia - missing image	
E2.3 Driving Solar Eruptions (Speakers 1 & 5 + 7 - 16 + 22)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Lucia Kleint Matthiasempel Nandita Srivastava Bernhard Liem - missing bio Andrej Fanasev Daniel Price Yang Guo - missing image Yuhong Pan - missing image Sanjiv Kumar Tiwari - missing image Kai Tang - missing image Jon Inker - missing bio Alina Donea - missing image	Michael S. Wheatland Piyali Chatterjee
E2.3 Driving Solar Eruptions (Speakers 17 - 21)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Noé Eugaz Navdeep Kaur Panesar Manuela Temmer Maria Kazachenko	
F1.1 Gravity Perception and Response in Plants and Fungi: Ground and Space Studies (Speakers 1 - 13)	Simulive w/ Live Q&A	01/29/21	08:45	10:15	Karl H. Hasenstein Raúl Herranz Yogranjan Singh Gyanesh Kumar Satpute - missing image Ichirou Karahara - missing image John Z. Kiss - missing image	
F2.1 Biological Effects of Space Radiation: a Controllable Challenge for Long-term Human Space Missions (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/29/21	08:45	10:15	Egle Ekanaviciute Bahar Djouiai Ildar Shamsiev Xinjian Tu Lijun Wu	Christine Hellweg - missing image Guangming Zhou - missing image
F2.4 Genetic, Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight Environment (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Honglu Wu - missing bio Wei Wang Deyong Zeng - missing bio Shuchen Xin	Yeqing Sun - missing bio

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
F3.1 Chemical Evolution and Origin of Life (Speakers 1 - 10)	Simulive w/ Live Q&A	01/29/21	08:45	10:15	Brett McGuire Anthony Remijan Takashi Shimonishi - missing bio Chenoa Tremblay Dipen Sahu Naoki Watanabe Sergio Poppolo Yasuhiro Oba Daniel Boice	
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 1 - 9)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Jes Kristian Borgensen Satoshi Yamamoto - missing bio Timea Csengeri Mélisse Bonfand-Caldeira Klaus Ontoppidan - missing bio Niels Rigterink Yao-Lun Yang	
F4.1 Bioregenerative Life Support – Past–Present–Future / Outlook and Ecological Aspects (Speakers 1 - 4, 7 - 10)	Simulive w/ Live Q&A	01/29/21	08:45	10:15	Gisela Detrell Malica Schmidt Viacheslav Ivin - missing bio Howard Levine - missing bio Alexander Tikhomirov Sergei V. Trifonov - missing bio	
F4.2 Advanced Life Support Test Beds and Facilities (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Alexander Tikhomirov Gioia Massa Yoshiaki Kitaya - missing bio Oscar Monje - missing bio Francesca Godia - missing bio Irina Shumilina - missing bio Meg O'Connell - missing bio	Christophe Lasseur Raymond Wheeler
F5.1 Molecular, Cellular and Physiological Changes in Response to Spaceflight and Ground-based Analogues (Speakers 2 - 6)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Vivek Mann Chelsi Cassilly - missing bio Huayan Liu	
G0.1 Gravitational Effects on Physico-Chemical Processes (Speakers 2-4 + 6-11 + 14)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Yuri Saponenko Taishi Yano Jeff Porter Valentina Shevtsova Katharina Brinkert - missing bio Yurie Ohno Minghui Zhang - missing bio Álvaro Romero-Calvo	Taishi Yano Valentina Shevtsova
PCB.1 Capacity Building (Speakers 1 - 6)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Carlos Gabriel Natalia Gopalswamy Alexis Glover Divya Bawat Haris Haralambous Sanhita Babiraj Ericson Lopez - missing bio	
PCB.2 Small Satellites for Capacity Building (Speakers 1 & 2, 5 - 8)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Loren Zhang Mariko Teramoto - missing bio Carlos Gabriel Amal Chandran John Bellardo Daniel Leon-Cardona	

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
PEX.1 Establishing a Framework for Environmental Stewardship on Celestial Bodies (Speakers 1 - 5, 8 - 11)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Jacques Arnould Michelle Iso John Lee Christopher Newman Thomas Cheney John Hummel - missing bio Jonathan Lim Andre Galli Mark Meegan	
PEX.2 A Shared Scientific Vision for Global Space Exploration (Speakers 1 - 8)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Anthony Murfett - missing bio Pascale Ehrenfreund David H. Smith - missing bio Hajime Tano Jean-Claude Worms Bernard H. Young - missing bio James Burke - missing image Frank Hansen - missing bio	
PIR.1 Near-term Exploration of the Interstellar Medium (Speakers 1 - 8)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Ralph McNutt Pontus Brandt Elena Provornikova - missing bio Bennett Maruca Hui Li Mihir Desai - missing bio June Zakrajsek - missing bio	Robert Wimmer-Schweingruber - missing bio
PIR.1 Near-term Exploration of the Interstellar Medium (Speakers 9 - 15)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Matthew Hill Carey Hesse Veerle Sterken - missing bio Jeffrey Bzinsky Izabela Nowalska-Leszczynska Larry Baxton - missing bio Eric Christian	Pontus Brandt
PRBEM.1 Missions and Data Sets for Radiation Belt Modeling (Speakers 1 - 4, 8 - 11)	Simulive w/ Live Q&A	01/29/21	08:45	10:15	Sergey Aleksandrin - missing bio Thomas Berger Lauren Blum Alexander Boyd Yoshizumi Miyoshi Maria Voskresenskaya - missing bio Artem Smirnov	Paul O'Brien Yoshizumi Miyoshi
PRBEM.2 Development of Global Physical, Empirical, and Data Assimilative Models of the Radiation Belt Environment (Speakers 2 - 5)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Nikita Aseev - missing bio Irina Zhelavskaya Yoshizumi Miyoshi	Paul O'Brien Antoine Brunet - missing bio
PSD.1 Satellite Dynamics - new Developments and Challenges for Earth and Solar System Sciences (Speakers 1 - 12)	Simulive w/ Live Q&A	01/29/21	09:30	11:00	Daniele Durante Yuying Jiang Brent Archinal Yew-Chung Chhak Alireza Bosseini Arani Dariusz Strugarek - missing bio Linda Geisser David Lucchesi Rodolpho Vilhena De Moraes Lucas Schreiter - missing bio	Heike Peter - missing bio Adrian Jäggi
PSW.2 Planetary and Interplanetary Space Weather (Speakers 4 - 7)	Simulive w/ Moderated text Q&A	01/29/21	08:00	09:30	Michael Niemohn - missing image Beatriz Sanchez-Cano - missing bio Mario M. Bisi Wei Wang - missing bio	

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
C4.1 Improving the Description of Hemispheric Differences in Ionospheric Models (Speakers 1, 5, 7, 12, 13)	Simulive w/ Live Q&A	01/29/21	08:00	09:30	Vladimir Truhlik Shigetoshi Watanabe - missing bio Haris Baralambous Bruno Nava - missing bio Estefania Blanch - missing bio	Dieter Bilitza - missing image David Altadill
PSW.7 Hands-on Education in Space Weather (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	01/29/21	10:15	11:45	Anna Chulaki Alexi Glover Carlos Gabriel	Nat Gopalswamy
Climate Change, the Ocean, the Cryosphere and Regional Sea-level Change - Session 1	Full Live	01/29/21	07:15	08:00	Dr John A. Church	

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
<b>DAY 1 - PM - Friday 29 January (BLOCK 2)</b>						
A0.1 The Interface Between Spacecraft Instrument Technologies and the Science They Enable (Speakers 1 - 3 + 10)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Rashmi Shah Linghua Guo - missing bio YuXiang Peng - wrong image	Ralph Kahn
A0.2 GEO (Speakers 2 & 4)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Aude Vignelles Jurgen Weichenberger - missing bio	
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Mark Krumholz Wladimir Lyra - missing bio Sayantan Choudhury Fred Oleson Stavro Ivanovski, Jeong-Eun Lee, - missing bio Daniel Harsono	Diego Turrini Stavro Ivanovski
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 12 - 22)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Beatrice Mulerer - missing bio Joanna Drazkowska Neal Turner Diego Turrini Samuele Tesi Francesca Westall Eugenio Schisano Brett McGuire - missing image Alessandro Sozzetti Stephen Lubow	Diego Turrini Stavro Ivanovski - missing bio
B0.4 Technologies for Planetary Research (Speakers 1 - 13)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Ray Drum Patricia Beauchamp James Cutts Jonathan Sauder - missing bio Aaron Brandis John Bellardo Guy Beutelschies Jorn Helbert - missing bio Seamus Anderson - missing bio	Patricia Beauchamp Jean-Pierre Lebreton- missing bio
B0.4 Technologies for Planetary Research (Speakers 15 - 21)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:45	Jennifer Eigenbrode Lorraine Besq John Day - missing image Robert Staehle	
B1.1 Small Body Exploration Science in the New Decade (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Makoto Yoshikawa Satoru Nakazawa Brian Day Anna Galiano Ernesto Palomba Sho Sasaki Tatsuhiko Michikami Kristin Nichols Maurizio Ajola	Ernesto Palomba
B1.1 Small Body Exploration Science in the New Decade (Speakers 12 - 19)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Andrew Cheng Patrick Michel Tomoko Irai Takayuki Irai - missing bio Kosuke Handa	Mihaly Horanyi - missing bio



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
B4.1 Mars Science Results (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Abigail Braeman - missing bio Lauren Edgar Adrian Brown Caroline Reissinet Cyril Szopa Naila Chaouche Arnaud Buch Naila Chaouche John Grant	Arnaud Buch
B4.1 Mars Science Results (Speakers 11 - 20)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Takeshi Uroda Justin Deighan Christy Lentz Syed A. Baider Roland Young Claus Gebhardt - missing bio Bruce Pakosky - missing bio	Justin Deighan
B5.1 Juno at Jupiter (Speakers 1 - 5)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Heidi Becker Scott Bolton Yamila Miguel Glenn Orton	
B5.1 Juno at Jupiter (Speakers 6 - 12)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Glenn Orton James Sinclair Robert Ssak Joshua Hammer	
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 1 - 6 + 11)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Yasunobu Ogawa Shin-ichiro Oyama Theodore Sarris Shun-Rong Zhang Shasha Zou Xing Meng	
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 15 - 17)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:45	Christopher Haston - missing bio Jone Peter Reistad Chaosong Duang	
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 2-12)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Thomas Inmel William E. Ward Sabine Müst Erdal Yiğit Damian Murphy Kaoru Sato Duggirala Ballamraju Yvan Orsolini	Erdal Yiğit Christopher Heale
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 13 - 17)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:45	McArthur Jones Jr Christopher Beale Igor Paulino	William E. Ward
C3.3 Imaging the Planets in X-rays (Speaker 1 - 10)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Graziella Branduardi-Raymont Emil Aitz Brian Walsh Kumi Shikawa Daiki Shi P. F. Chen Yuichiro Elzoe Masaki Numazawa Dennis Bodewits	
C4.1 Improving the Description of Hemispheric Differences in Ionospheric Models (Speakers 1, 5, 7, 12, 13)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Vladimir Truhlik Shigeto Watanabe Haris Haralambous Bruno Nava Estefania Blanch	Dieter Bilitza David Altadill

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
C4.1 Improving the Description of Hemispheric Differences in Ionospheric Models (Speakers 16 - 18)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:45	David R. Thomsen Dieter Bilitza Vladimir Truhlik	Shun-Rong Zhang Michael Pezzopane
C5.1 Active Space Experiments (Speakers 1-5 + 9)	Simulive w/ Moderated text Q&A	01/29/21	19:45	20:30	Thomas Eyser Wayne Scales Bengt Eliasson Haiyang Gu Alexey Shindin	
D2.1 Space Climate (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:45	Prantika Bhowmik Melinda Nagy Judith Muraközy Hisashi Hayakawa	
E1.1 Rapidly-rotating Neutron Stars (Speakers 1 - 10)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Giovanni Ceribella Paul Bay Shijie Zheng Christofer Dipankar Bhattacharya Julian Carlin Mingyu Ge	
E1.1 Rapidly-rotating Neutron Stars (Speakers 11-21)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Slavko Bogdanov Samar Safi-Harb Kaustubh Bajwade Andrea Sanna Maria Cristina Baglio Kaho Ise Luis Rodriguez	
E1.13 High-energy Processes at the Galactic Center (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Frank Eisenhauer Alejandra Jimenez Rosales Diego Calderón Randy Campbell Anna Ciurlo Mark R. Morris Gerald Cecil Lucia Armillotta	Roland Crocker Andrea Goldwurm
E1.13 High-energy Processes at the Galactic Center (Speakers 12 - 20)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Kerstin Perez Jun-Hui Zhao Maica Clavel Hideki Ichiyama Masayoshi Nobukawa Gabriele Ponti Enrico Di Teodoro Roland Crocker Chris Gordon	Chuck Hailey Eugene Churazov
E1.14 Long-term All-sky Monitoring of High Energy Transient Sources (Speakers 2 - 6)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Sergey Sygankov Hitoshi Negoro Liliana E. Rivera Sandoval Kumiko Nobukawa	
E1.16 Origin of Cosmic Rays (Speakers 1 - 11)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Samuel Ding Senquan Gu Francesco Di Miccoli Vitali Choutko Qi Fan Xiaoting Qin Magdalena Allen Yi Ma Zhili Weng Zhili Weng Weiwei Xu	Igor Moskalenko

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
E1.16 Origin of Cosmic Rays (Speakers 12 - 21)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Ilias Cholis Riccardo Lunini Shoji Torii Wolfgang Zober Brian Bauch Jin Chang Mingyang Cui Pengxiong Ma Mikhail Malkov Xiaohui Sun	Samuel Ting
E1.5 Accretion on All Scales (Speakers 1, 2, 6 - 10 + 31, 33)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Liliana E. Rivera Sandoval Ayan Bhattacharjee Jake Miller Koji Mukai Sanhita Babiraj	
E1.5 Accretion on All Scales (Speakers 11 - 19)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Christian Schneider David Buckley Jessica Erkal Adam Ingram Thomas Busse Francesco Carotenuto Alexandra Tetarenko Payaswini Saikia	
E2.3 Driving Solar Eruptions (Speakers 1 & 5 + 7 - 16 + 22)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Lucia Kleint Matthias Bempel Nandita Srivastava Bernhard Liem Andreifanasev Daniel Price Yang Guo Yuhong Pan Sanjiv Kumar Tiwari Kai Wang Jon Linker Alina Donea	Michael S. Wheatland Piyali Chatterjee
E2.3 Driving Solar Eruptions (Speakers 17 - 21)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Noé Bugaz Navdeep Kaur Panesar Manuela Temmer Maria Kazachenko	
F1.1 Gravity Perception and Response in Plants and Fungi: Ground and Space Studies (Speakers 1 - 13)	Simulive w/ Moderated text Q&A	01/29/21	19:45	21:15	Karl H. Hasenstein Raúl Herranz Yogranjan Singh Gyanesh Kumar Satpute Ichirou Karahara John Z. Kiss	
F2.1 Biological Effects of Space Radiation: a Controllable Challenge for Long-term Human Space Missions (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/29/21	19:45	21:15	Egle Dekanaviciute Bahar Djouiaï Ildar Shamsiev Xinjian Liu Lijun Wu	Christine Hellweg Guangming Zhou
F2.4 Genetic, Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight Environment (Speakers 1 - 8)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Honglu Wu Wei Wang Deyong Zeng Shuchen Xin Yeqing Sun Meng Zhang Qian Zhao	Yeqing Sun

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
F3.1 Chemical Evolution and Origin of Life (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	01/29/21	19:45	20:30	Brett McGuire Anthony Remijan Takashi Shimonishi Chenoa Tremblay Dipens Sahu Naoki Watanabe Sergio Poppolo Yasuhiro Ooba Daniel Boice	
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Jes Kristian Borgensen Satoshi Yamamoto Timea Csengeri Mélisse Bonfand-Caldeira Klaus Montoppidan Niels Bøgerink Yao-Lun Yang	
F4.1 Bioregenerative Life Support – Past–Present–Future / Outlook and Ecological Aspects (Speakers 1 - 4, 7 - 10)	Simulive w/ Live Q&A	01/29/21	19:45	21:15	Gisela Detrell Malica Schmidt Viacheslav Ivin Howard Levine Alexander Tikhomirov Sergey V. Trifonov	
F4.2 Advanced Life Support Test Beds and Facilities (Speakers 1 - 10)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Alexander Tikhomirov Gioia Massa Yoshiaki Kitaya Oscar Monje Francesco Sodia Irina Shumilina Meg O'Connell	Christophe Lasseur Raymond Wheeler
F5.1 Molecular, Cellular and Physiological Changes in Response to Spaceflight and Ground-based Analogues (Speakers 2 - 6)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Vivek Vinn Chelsi Cassilly Huayan Liu	
G0.1 Gravitational Effects on Physico-Chemical Processes (Speakers 2-4 + 6-11 + 14)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Yuri Gaponenko Taishi Yano Jeff Porter Valentina Shevtsova Katharina Brinkert Yurie Ohno Jeff Porter Minghui Zhang Álvaro Romero-Calvo	Taishi Yano Valentina Shevtsova
PCB.1 Capacity Building (Speakers 1 - 6)	Simulive w/ Live Q&A	01/29/21	19:00	20:30	Carlos Gabriel Nat Gopalswamy Alexi Glover Divya Bawat Haris Paralambous Sanhita Kabiraj Ericson Lopez	
PCB.2 Small Satellites for Capacity Building (Speakers 1 & 2, 5 - 8)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Loren Zhang Loren Zhang Mariko Teramoto Carlos Gabriel Amal Chandran John Bellardo Daniel Leon-Cardona	

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
PEX.1 Establishing a Framework for Environmental Stewardship on Celestial Bodies (Speakers 1 - 5, 8 - 11)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Jacques Arnould Michel Iso John Lee Christopher Newman Thomas Cheney John Hummel Jonathan Lim Andre Galli Mark Meegan	
PEX.2 A Shared Scientific Vision for Global Space Exploration (Speakers 1 - 8)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Anthony Murrlett Pascale Ehrenfreund David H. Smith Hajime Tano Jean-Claude Worms Bernard H. Young James Burke Frank Hansen	
PIR.1 Near-term Exploration of the Interstellar Medium (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/29/21	20:30	22:00	Ralph McNutt Pontus Brandt Elena Provoznikova Bennett Maruca Hui Li Mihir Desai June Zakrajsek	Robert Wimmer-Schweingruber
PIR.1 Near-term Exploration of the Interstellar Medium (Speakers 9 - 15)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Matthew Bill Careyisse Veerle Sterken Jeffrey Rinsky Izabela Nowalska-Leszczynska Larry Saxton Eric Christian	Pontus Brandt
PRBEM.1 Missions and Data Sets for Radiation Belt Modeling (Speakers 1 - 4, 8 - 11)	Simulive w/ Moderated text Q&A	01/29/21	19:45	20:30	Sergey Aleksandrin Thomas Berger Lauren Blum Alexander Boyd Yoshizumi Miyoshi Maria Voskresenskaya Artem Smirnov	Paul O'Brien Yoshizumi Miyoshi
PRBEM.2 Development of Global Physical, Empirical, and Data Assimilative Models of the Radiation Belt Environment (Speakers 2 - 5)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Nikita Aseev Irina Zhelavskaya Yoshizumi Miyoshi	Paul O'Brien Antoine Brunet
PSD.1 Satellite Dynamics - new Developments and Challenges for Earth and Solar System Sciences (Speakers 1 - 12)	Simulive w/ Live Q&A	01/29/21	20:30	22:00	Daniele Durante Yuying Tang Brent Archinal Yew-Chung Chak Alireza Hosseini Arani Dariusz Strugarek Linda Geisser David Lucchesi Rodolpho Wilhena De Moraes Lucas Schreiter	Heike Peter Adrian Jäggi
PSW.2 Planetary and Interplanetary Space Weather (Speakers 4 - 7)	Simulive w/ Moderated text Q&A	01/29/21	19:00	20:30	Michael Demohn Beatriz Sanchez-Cano Mario M. Bisi Wei Wang	
PSW.7 Hands-on Education in Space Weather (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	01/29/21	21:15	22:00	Anna Hulaki Alexi Glover Carlos Gabriel	Nat Gopalswamy
Climate Change, the Ocean, the Cryosphere and Regional Sea-level Change - Session 2	Full Live	01/29/21	18:15	19:00	Dr John A. Church	

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

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
<b>DAY 2 - AM - Saturday 30 January (BLOCK 1)</b>						
A0.3 Observing the Anthropocene from Space (Speakers 1-11)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	John P. Burrows FRS Pawan Bhartia James Drummond Nathaniel Livesey Russell Dickerson Kaley Walker David Pittner David Crisp David Winker Renée Bichler	
A2.1 Science and applications enabled by oceanographic satellite measurements (Speakers 2 - 10)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Shane Keating Rosemary Morrow David Cotton Kenji Takasaki	Tong Lee Naoto Ebuchi
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 25-34)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Susanne Vampfler Maria Drozdovskaya Gianfranco Vidali Svitlana Kolomiyets Yamila Miguel Yuri Fujii Vladimir Tchernyi (Cherny) Andrew Brentice	Michael Ireland Maria Drozdovskaya
B0.4 Technologies for Planetary Research (Speakers 22 - 33)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Grace (Ziqin) Qi Brady O'Connor Michael Malaska Kimberly Robinson Barnabé Cherville Niels Gierink Mihail Petkov Cyril Szopa Conor Ryan Ramkumar Bavi	
B1.1 Small Body Exploration Science in the New Decade (Speakers 20 - 28)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Stephan Ulamec James Bell Akiko Nakamura Xiaochen Zhao Karen Meech Ying Zhao Deborah Buczkowski	Karen Meech Stephan Ulamec
B4.1 Mars Science Results (Speakers 24 - 31)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Mikhail Duginin Justin Erwin Nikolay Gnaniyev Oleg Korablev Alexander Trokhimovskiy Claire Newman Ganna Portyankina	Alexander Trokhimovskiy

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
B5.2 Gas Giant Planet Systems (Speakers 1 - 13)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	AlfredMcEwen AudreyVorbuerger AndreGalli RolandYoung UlrichTaubenschuss Wing-HuenIp AthenaCoustenis RichardFrench RichardFrench	Linda Spilker Athena Coustenis
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 19 - 25)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	VictoriaBoss MinnaBalmroth Andrew W. Chau VarvaraAndreeva	
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 1 - 5)	Simulive w/ Moderated text Q&A	01/30/21	10:15	11:45	IwonaStanislawska KazuoShiokawa ClaudiaBorries DavidThemens FezaArikan	Zahra Bouya Jan Lastovicka
C1.4 CSES and Swarm Data Analysis of the Ionosphere Dynamics at Different Temporal and Spatial Scales (Speakers 6 - 11)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	EwaSlominska Siti HarwaniMd Yusoff SpencerBatch PietroBertini MarcoCasolino MirkoPiersanti	
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 18 - 25)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	SivakandanMani YosukeTamazaki PramithaM GoderdziDidebulidze GeorgeBowden	Federico Gasperini M. Pramitha
C4.2 Development of Models Related to the COSPAR International Reference Atmosphere and to ISO Standards for the Atmosphere (Speakers 1 - 6)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	TimEuler-Rowell PatrickWhite SeanBruinsma CarmenBardini CarmenBardini	
D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere and Beyond (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	StefanoDella Torre KatlegoMoloto RichardMewaldt DonaldNgobeni VeronicaBindi DominikValter VladimirMikhailov	Agnieszka Gil Renata Modzelewska
D2.1 Space Climate (Speakers 5 - 14)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	SarahSibson DurgeshTripathi NinaShirman Nicholas Cannady NishuKarna Daniel N. Baker KyleBeiter EugeneBozanov	
D2.2 Solar Probe and SoHO (Speakers 1 - 11)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Nour E. Bouafifi NicholeenWiall KristopherWlein MarcoWelli RuiLinto RobertAllen ChristopherChaston JasperAlekas YeimyBivera ClaraPromentD2.2	Louise K. Harra Angelos Vourlidas



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
E1.1 Rapidly-rotating Neutron Stars (Speakers 23 - 36)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Andrea Lommen Matthew Pitkin Karl Wette Veronica Dexheimer Margaret Millhouse Patrick Meyers Sudip Bhattacharyya Shawaiz Tabassum Lucy Strang Shawaiz Tabassum	
E1.13 High-energy Processes at the Galactic Center (Speakers 21 - 24)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Gavin Bowell Elena Orlando Kei Yoshikawa Ron Ekers	Masayoshi Nobukawa
E1.16 Origin of Cosmic Rays (Speakers 22 - 31)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Eun-Suk Seo Jason Link Dmitry Odorozhny Alexander Ivanov Igor Moskalenko Giuseppe La Vacca Natalia Golukhina Walter Binns Allan Labrador Nathan Walsh	Shoji Torii Razmik Mirzoyan
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 8 - 15)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Stephen Lubow Taichi Ugarashi Ioana Dutan James Miller-Jones Dipak Debnath Hannah Middleton Holger Stiele	Margaret Millhouse Sandip Kumar Chakrabarti
E1.5 Accretion on All Scales (Speakers 20 - 29)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Catherine Espaillat Armin Wahdat Motlagh Thomas Boller Hitoshi Negoro Matt Middleton Adrian Lucy Nikita Kamraj Guglielmo Mastroserio	
E1.6 X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 1, 2, 6, 8, 26)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Yukikatsu Terada Toru Tamagawa Andrew Evan Joshua Wood Carlo Ferrigno	
E2.2 Magnetic Structures of Solar Filaments (Speakers 4 - 7)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Aparna Venkataramanastry Brigitte Schmieder Yingna Su Nishu Bana	
F0.1 Scientific Commission F Overview Talks (1 - 7)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Petra Betsberg Brett McGuire Jingnan Guo Giorgio Baiocco Honglu Wu Dieter Blottner Daniel J. Barta	

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
G0.2 Drop Tower Days (Speakers 1 - 12)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Marc Avila Katharina Brinkert Andreas Gierse Pablo Gallego Sanmiguel Mitsuhisa Baba Torsten Trittel Martin Castillo Claus Baummerzahl Sven Herrmann Álvaro Romero-Calvo	Marc Avila Thorben Könemann
PPP.1 Planetary Protection Policy (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Niklas Hedman Athena Coustenis Joseph K. Alexander Gerhard Kminek D.E. (Betsy) Bugel Ben Biggot Cara Cavanaugh	Athena Coustenis Akihiko Yamagishi
PRBEM.2 Development of Global Physical, Empirical, and Data Assimilative Models of the Radiation Belt Environment (Speakers 6 - 9)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Paul D''Brien Shinji Saito Yihua Zheng	Seth Claudepierre Yoshizumi Miyoshi
PRBEM.3 Dedicated Tools for Radiation Belt Modeling and Data Processing: An Opportunity to Gather Efforts (Speakers 2 - 5)	Simulive w/ Moderated text Q&A	01/30/21	08:45	10:15	Alexander Drozdov Janet Green	
PSD.1 Satellite Dynamics - new Developments and Challenges for Earth and Solar System Sciences (Speakers 13 - 24)	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Urs Eugentobler Adrian Jäggi Martin Passer Pieter N.A.M. Visser Thomas Brombein Jan-Peter Weiss Ahmed Magdy Abdelaziz Moursi Alexandre Couhert Xinyuan Mao Patrick Schreiner	Heike Peter Adrian Jäggi
PSW.6: Space Weather Panel: Global Coordination in Space Weather and Updating the COSPAR Space Weather Roadmap	Simulive w/ Live Q&A	01/30/21	08:00	09:30	Juha-Pekka Luntama James Spann Mamoru Ishii Vladimir Kalegaev Richard Marshall Mario Bisi	Ian Mann
PSW.7 Hands-on Education in Space Weather (Speakers 5 - 8)	Simulive w/ Moderated text Q&A	01/30/21	08:00	09:30	Nat Gopalswamy Durgesh Tripathi Lee-Anne McKinnell Madhulika Guhathakurta Yoshizumi Miyoshi	
The Status of Hayabusa 2 Asteroid Explorer and Its Results - Session 1	Full Live	01/30/21	07:15	08:00	Hitoshi Kuninaka	
B4.2 Forward Planning of Exploration of Mars (Speakers 13 - 17)	Simulive w/ Moderated text Q&A	01/30/21	09:30	11:00	Joseph Lazio Charles Edwards Thasshwin Mathanlal	
	Hosted on Zoom	01/30/21	07:00	08:30		

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
<b>DAY 2 - PM - Saturday 30 January (BLOCK 2)</b>						
A0.3 Observing the Anthropocene from Space (Speakers 1-11)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	John P. Burrows FRS Pawan Bhattar James Drummond Nathaniel Livesey Russell Dickerson Kaley Walker David Pittner David Crisp David Winker Renée Bichler	
A2.1 Science and applications enabled by oceanographic satellite measurements (Speakers 2 - 10)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Shane Keating Rosemary Morrow David Cotton Kenji Takasaki	Tong Lee Naoto Ebuchi
B0.1 Unifying planetary system formation out of elementary building blocks: from dust, gas and ice to our Solar System and exoplanets (Speakers 25-34)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Susanne Vampfler Maria Drozdovskaya Gianfranco Vidali Svitlana Kolomiyets Yamila Miguel Yuri Fujii Vladimir Tchernyi (Cherny) Andrew Prentice	Michael Ireland Maria Drozdovskaya
B0.4 Technologies for Planetary Research (Speakers 22 - 33)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Grace (Ziqin) Ni Brady O'Connor Michael Malaska Kimberly Robinson Barnabé Cherville Niels Gierink Mihail Petkov Cyril Szopa Conor Ryan Ramkumar Bavi	
B1.1 Small Body Exploration Science in the New Decade (Speakers 20 - 28)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Stephan Ulamec James Bell Akiko Nakamura Xiaochen Zhao Karen Meech Ying Zhao Deborah Buzckowski	Karen Meech Stephan Ulamec
B4.1 Mars Science Results (Speakers 24 - 31)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Mikhail Duginin Justin Erwin Nikolay Gnaniyev Oleg Korablev Alexander Trokhimovskiy Claire Newman Ganna Portyankina	Alexander Trokhimovskiy

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
B5.2 Gas Giant Planet Systems (Speakers 1 - 13)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Alfred McEwen Audrey Forburger Andre Galli Roland Young Ulrich Taubenschuss Wing-Huen Ip Athena Coustenis Richard French Richard French	Linda Spilker Athena Coustenis
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 19 - 25)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Victoria Boss Minna Palmroth Andrew W. Chau Varvara Andreeva	
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 1 - 5)	Simulive w/ Live Q&A	01/30/21	21:15	22:45	Iwona Stanislawska Kazuo Shiokawa Claudia Borries David Themens Feza Arkan	Zahra Bouya Jan Lastovicka
C1.4 CSES and Swarm Data Analysis of the Ionosphere Dynamics at Different Temporal and Spatial Scales (Speakers 6 - 11)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Ewa Slominska Siti Harwani Md Yusoff Spencer Hatch Pietro Bertini Marco Gasolino Mirko Piersanti	
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 18 - 25)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Sivakandan Mani Yosuke Yamazaki Pramitha M Goderdzi Dzidebulidze George Bowden	Federico Gasperini M. Pramitha
C4.2 Development of Models Related to the COSPAR International Reference Atmosphere and to ISO Standards for the Atmosphere (Speakers 1 - 6)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Tim Fuller-Rowell Patrick White Sean Bruinsma Carmenardini	
D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere and Beyond (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Stefano Della Torre Katlego Moloto Richard Mewaldt Donald Ngobeni Veronica Bindi Dominik Walter Vladimir Mikhailov	Agnieszka Gil Renata Modzelewska
D2.1 Space Climate (Speakers 5 - 14)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Sarah Gibson Durgesh Tripathi Nina Shirman Nicholas Cannady Nishu Karna Daniel N. Baker Kyle Reiter Eugene Rozanov	
D2.2 Solar Probe and SoLO (Speakers 1 - 11)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Nour E. Baouafi Nicholeen Wiall Kristopher Klein Marco Velli Rui Pinto Robert Allen Christopher Chaston Jasper Halekas Yeimy Rivera Clara Peromont	Louise K. Harra Angelos Vourlidas

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
E1.1 Rapidly-rotating Neutron Stars (Speakers 23 - 36)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Andrea Lommen Matthew Pitkin Karl Wette Veronica Dexheimer Margaret Millhouse Patrick Meyers Sudip Bhattacharyya Shawaiz Tabassum Lucy Strang	
E1.13 High-energy Processes at the Galactic Center (Speakers 21 - 24)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Gavin Bowell Elena Orlando Kei Yoshikawa Ron Ekers	Masayoshi Nobukawa
E1.16 Origin of Cosmic Rays (Speakers 22 - 31)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Eun-Suk Seo Jason Link Dmitry Podorozhny Alexander Panov Igor Moskalenko Giuseppe La Vacca Natalia Polukhina Walter Binns Allan Labrador Nathan Walsh	Shoji Torii Razmik Mirzoyan
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 8 - 15)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Stephen Lubow Taichi Ugarashi Ioana Dutan James Miller-Jones Dipak Debnath Hannah Middleton Holger Stiele	Margaret Millhouse Sandip Kumar Chakrabarti
E1.5 Accretion on All Scales (Speakers 20 - 29)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Catherine Espaillat Armin Wahdat Motlagh Thomas Boller Hitoshi Negoro Matt Middleton Adrian Lucy Nikita Kamraj Guglielmo Mastroserio	
E1.6 X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 1, 2, 5 - 9 & 26)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Yukikatsu Terada Toru Tamagawa Andrew Evvan Joshua Wood Carlo Ferrigno	
E2.2 Magnetic Structures of Solar Filaments (Speakers 4 - 7)	Simulive w/ Moderated text Q&A	01/30/21	19:00	20:30	Aparna Venkataramanasastry Brigitte Schmieder Yingna Su Nishu Karna	
F0.1 Scientific Commission F Overview Talks (1 - 7)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Petra Böttger Brett McGuire Jingnan Guo Giorgio Baiocco Honglu Wu Dieter Blottner Daniel J. Barta	

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
G0.2 Drop Tower Days (Speakers 1 - 12)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Marc Avila Katharina Brinkert Andreas Gierse Pablo Gallego Sanmiguel Mitsuhisa Baba Torsten Trittel Martin Castillo Claus Baummerzahl Sven Herrmann Álvaro Romero-Calvo	Marc Avila Thorben Könemann
PPP.1 Planetary Protection Policy (Speakers 1 - 8)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Niklas Hedman Athena Coustenis Joseph K. Alexander Gerhard Kminek D.E. (Betsy) Bugel Ben Biggot Cara Cavanaugh	Athena Coustenis Akihiko Yamagishi
PRBEM.2 Development of Global Physical, Empirical, and Data Assimilative Models of the Radiation Belt Environment (Speakers 6 - 9)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Paul D' Brien Shinji Saito Yihua Zheng	Seth Claudepierre Yoshizumi Miyoshi
PRBEM.3 Dedicated Tools for Radiation Belt Modeling and Data Processing: An Opportunity to Gather Efforts (Speakers 2 - 5)	Simulive w/ Moderated text Q&A	01/30/21	19:45	21:15	Alexander Drozdov Janet Green	
PSD.1 Satellite Dynamics - new Developments and Challenges for Earth and Solar System Sciences (Speakers 13 - 24)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Urs Eugentobler Adrian Jäggi Martin Passer Pieter N.A.M. Visser Thomas Brombein Jan-Peter Weiss Ahmed Magdy Abdelaziz Moursi Alexandre Couhert Xinyuan Mao Patrick Schreiner	Heike Peter Adrian Jäggi
PSW.7 Hands-on Education in Space Weather (Speakers 5 - 10)	Simulive w/ Live Q&A	01/30/21	19:00	20:30	Nat Sopalswamy Durgesh Tripathi Lee-Anne McKinnell Madhulika Guhathakurta Yoshizumi Miyoshi	
The Status of Hayabusa 2 Asteroid Explorer and Its Results - Session 2	Full Live	01/30/21	18:15	19:00	Hitoshi Kuninaka	
B4.2 Forward Planning of Exploration of Mars (Speakers 13 - 17)	Simulive w/ Moderated text Q&A	01/30/21	20:30	22:00	Joseph Lazio Charles Edwards Thasshwin Mathanlal	

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
<b>DAY 3 - AM - Sunday 31 January (BLOCK 1)</b>						
A0.5 CubeSats for Scientific and Civil-use Studies of the Earth (Speakers 1-9)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Sachidananda Babu Callum Middleton Graziella Branduardi-Raymont Florentin Villour Alex Di Tommaso Adrian Bispler Christopher Beck Xueliang Bai	Anthony Freeman Jason Hyon
A0.3 Observing the Anthropocene from Space (Speakers 14 - 16)	Simulive w/ Moderated text Q&A	01/31/21	08:45	10:15	Jack Baye Hansjoerg Dittus Akihiko Kuze	
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 4 - 6 9-10)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	M. G. Mlynczak Kristell Perot Nicholas Long Maho Nakagawa	Christian Von Savigny Yasuko Kasai Jean-Christopher Lambert
A2.1 Science and applications enabled by oceanographic satellite measurements (Speakers 14, 15, 17, 19-20)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Severine Pournier Tong Lee Joon Wayne Cheong Jérôme Benveniste Naoto Ebuchi David Griffin Jingru Sun	Tong Lee
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 1 - 3 8-9)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Nicolas Thomas, Phil Bland Ryan Clark Antonio De Brum	Bernard H. Foing
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 17 - 20)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Michaela Musilova Annelotte Veert Jonathan Clarke	Christiane Heinicke
B0.5 Planetary Cubesats and Small Sats (Speakers 1 - 5, 14)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Robert Ellis Laura Inno Shintaro Nakajima James Bell John Baker Takeshi Uroda	
B0.5 Planetary Cubesats and Small Sats (Speakers 18 - 19)	Simulive w/ Moderated text Q&A	01/31/21	10:15	11:45	Takayoshi Yamada Robyn Millan	
ration Science in the New Decade (Speakers 29 - 38)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Tommy Grav Eduard Kuznetsov Stefanie Milam Charlotte Goetz Marcos Rincon Goetzke Patrick Shober Daniel Boice Loreany De Araújo	Daniel Boice
B1.1 Small Body Exploration Science in the New Decade (Speakers 39 - 47)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Tatsuaki Okada Timothy Bolt Timothy Bolt Panida Boonmasai Karen Meech Karen Meech Carlos Corral van Damme	James Bell

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
B4.1 Mars Science Results (Speakers 32 - 40)	Simulive w/ Live Q&A	01/31/21	08:45	10:15	Leslie Tamppari Maria Banks Claire Newman Aditya Khuller Leslie Tamppari Katarina Nijjkovic Graziella Aprarelli Yangcheng Guo	
B4.2 Forward Planning of Exploration of Mars (Speakers 5 - 12)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Francesca Altieri Tomohiro Tsui Amirhossein Bagheri Bruce Kosky Charles Edwards Charles Edwards	
B5.3 Ocean Worlds (Speakers 5 & 9)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Jean-Pierre Fleurial Caroline Freissinet Rosaly Lopes Michael Malaska Morgan Cable Robert Goddard	
C0.1 International Standards on Space Environment from ISO (Speakers 1 - 3, 5-8)	Simulive w/ Live Q&A	01/31/21	08:45	10:15	Paul O'Brien Angelica Sicard Tamara Gulyaeva Piers Gggen Vladimir Kalegaev Minh Duc Nguyen	W Kent Tobiska Vladimir Kalegaev
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 2, 3, 5, 8, 11)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Venkatesh Ravutarapu David Altadill Igor Paulino Igor Paulino Sudipta Basmal	
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 29 - 30, 35-36)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Nanan Balan Daniel H. Mac Manus Manuela Temmer Agnieszka Gil	
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 6 - 10, 14-17)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Melrose Brown Ali Qinar Renata Kukianova Vladimir Belakhovsky Ozan Koroglu Ozan Koroglu Meltem Koroglu Tamara Gulyaeva	Feza Arikan
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 18 - 23)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Ryan McGranaghan Meltem Koroglu Gokhan Bok Fabiano Rodrigues Dincer Gokcen	Feza Arikan
C1.4 CSES and Swarm Data Analysis of the Ionosphere Dynamics at Different Temporal and Spatial Scales (Speakers 1 - 4)	Simulive w/ Moderated text Q&A	01/31/21	08:45	10:15	Roberto Battiston Daria Kotova Xiaochen Gou Mirko Piersanti	Piero Diego Mirko Piersanti



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
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 28 - 32)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	XingMeng MasaruKogure PavelInchin FlorianZedek RuthLieberman	Sabine Wüst
C2.3 Advances in External Forcing Studies for the Middle Atmosphere and Lower Ionosphere (Speakers 1 - 8)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	GabrielChiodo HuixinLiu AlessandroDamiani KaleviMursula YvanOrsolini HuiLi	Yvan Orsolini
C4.2 Development of Models Related to the COSPAR International Reference Atmosphere and to ISO Standards for the Atmosphere (Speakers 8 - 10)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	YangYang AngelosVourlidas MariaKuznetsova	
C5.2 Dust Detection and Observation in Space and Laboratory Experiments (Speakers 1, 4, 6)	Simulive w/ Live Q&A	01/31/21	10:15	11:45	LeonardSchulz RonaldVaj KristieLera	Jiri Pavlu
D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere and Beyond (Speakers 11+ 12 - 15-20)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	RenataModzelewska AdrianWogt XiLuo Agnieszka Gil Du Toit Strauss Vladimir Florinski ValentinaZharkova	Katlego Moloto Nina Dresing
D2.2 Solar Probe and SoLO (Speakers 12 - 16, 20-22)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	RichardMewaldt SpirosPatsourakos DavidLario LeonOrfman DavinParson J. L. Verniero PietroZucca	Karl-Ludwig Klein Nour E. Raouafi
D2.2 Solar Probe and SoLO (Speakers 23 - 27, 29-31)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	LucasTarr BernardJackson SusannaParenti DavidBerghmans Louise K. Barra DanielPacheco GeorgeHo	Pietro Zucca David Lario
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 1 - 11)	Simulive w/ Moderated text Q&A	01/31/21	09:30	11:00	JamesKlimchuk ClaraProment RajsekharMohanapatra MaxGronke MoiraBardine KazuoMakishima NielsJlaes RyojiMatsumoto PatrickAntolin	Mark Voit Patrick Antolin
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 1 - 10)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	GeorgiosChintzoglou LucieGreen Manolis K. Georgoulis PrantikaBhowmik Michael S. Wheatland RuiLiu BernhardLiem TingyuGou SanchitaPal	Jie Zhang Spiros Patsourakos
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 13 & 18 - 20)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	ImmanuelBaraj JasminaMagdalenic EvangeliaSamara Dana-CameliaPalpeanu	

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
D3.1 Highlights of Magnetospheric Plasma Physics (Speakers 1 - 6)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Michael Hesse Michael Niemohn David Southwood Maria Kuznetsova Elena Grigorenko	
D3.4 Plasma Transport across Magnetospheric Boundaries (Speakers 1 - 14)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Ferdinand Laschke Savvas Baptis Katariina Nykyri Evgeny Gordeev Minna Balmroth Kotova Galina Anatoli Petrukovich Kristie Lera	Steven Petrinec Zdenek Nemecek
D3.4 Plasma Transport across Magnetospheric Boundaries (Speakers 17 - 21)	Simulive w/ Moderated text Q&A	01/31/21	10:15	11:45	Oleksandr Goncharov Zdenek Nemecek	
E1.16 Origin of Cosmic Rays (Speakers 32 - 35 & 37 - 42)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Makoto Sasaki Veronica Bindi Shoko Miyake Giuseppe La Vacca Lev Dorman Paul Evenson Riccardo Munini Lech Piotrowski Federico Donnini Shota Yokoyama Bilal Bamzan	Walter Binns
E1.16 Origin of Cosmic Rays (Speakers 43 - 47)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Petra Luentemeyer James Madsen Devyn Cantu Gavin Howell	Alexander Moiseev
E1.16 Origin of Cosmic Rays (Speakers 49 - 57)	Simulive w/ Live Q&A	01/31/21	09:30	10:15	Mathieu De Naurois Sarah Becchia Troy Porter Ming Zhang Razmik Mirzoyan Sajan Kumar Vasily Prosin Mitsuru Abe Ralf-Juergen Dettmar	Alexander Moiseev
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 1 - 4 & 7 - 9)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Christopher Reynolds Dan Wilkins Scott Noble Omer Bromberg Kazunori Akiyama Fabio Bacchini Gustavo Soares	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 10 - 20)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Biagina Boccardi Martin Hardcastle Stas Shabala Dhanya G. Bair Yuan Yi Laura Birzan Jongho Park Dharam Pal Yu Qiu	
E1.19 Scientific Opportunities from Multi-wavelength Follow-up of Large-area X-ray Surveys (Speakers 14 - 16)	Simulive w/ Moderated text Q&A	01/31/21	08:45	10:15	Christian Schneider Mikhail Sachkov Miroslav Filipovic	

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
E1.2 The Remnants of Supernova Explosions (Speakers 1 - 11)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Hiroya Yamaguchi Matthew Willard Lei Sun Satoru Matsuda Ashley Ruitter Parviz Ghavamian Natasha Burley-Walker Firoza Sutaria Yuki Imai	
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 16 - 19 & 21 - 24)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Sudip Bhattacharyya David Russell Kaushik Chatterjee Yash Bhargava Ingyin Zaw Anuvab Banerjee Debjit Chatterjee	Rachel Webster Holger Stiele
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 27 - 34)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Broja Gopal Dutta Arghajit Jana Indrani Banerjee Vladimir Karas Shuang-Nan Zhang Indranil Chattopadhyay Jaiverdhan Chauhan Deanne Oppejans	Katie Auchettl Sandip Kumar Chakrabarti
E1.5 Accretion on All Scales (Speakers 35-40)	Simulive w/ Live Q&A	01/31/21	08:45	10:15	Shumei Ma Aarran Shaw Ruchi Pandey Ruchi Mishra Shokoufe Baraji	
E1.5 Accretion on All Scales (Speakers 41 - 46)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Danté Hewitt Solen Balman Indu Kalpa Dhinia	
E1.6 X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 10 - 16)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Sandro Mereghetti James Bodi Aishwarya Linesh Thakur Tiara Hung Katie Auchettl Marcos Santander Mieke Bouwhuis	
E1.6 X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 20 - 22)	Simulive w/ Moderated text Q&A	01/31/21	09:30	11:00	Pete Boming Lorenzo Amati Yuan Liu	
E2.1 Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 1 - 9)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Mausumi Dikpati Robert Cameron Valentina Zharkova Xudong Sun Shin Toriumi Victor Demcsak Kosuke Nishikata	Cristina H. Mandrini Brigitte Schmieder
E2.1 Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 10 - 17)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Yang Guo Spiros Patsourakos Anna Malanushenko Reka Winslow Ward Manchester IV Teresa Nieves-Chinchilla P. F. Chen Manuela Temmer	Cristina H. Mandrini Brigitte Schmieder
F1.1 Gravity Perception and Response in Plants and Fungi: Ground and Space Studies (Speakers 15 - 20)	Simulive w/ Moderated text Q&A	01/31/21	08:45	10:15	Miyo Morita Karl H. Hasenstein Chris Wolverton Francisco Javier Medina Rakesh Singh Marabi	

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
F2.1 Biological Effects of Space Radiation: a Controllable Challenge for Long-term Human Space Missions (Speakers 9 - 16)	Simulive w/ Live Q&A	01/31/21	08:45	10:15	Olga Martin Sebastian Diegeler Afshin Beheshti Quy Don Tran Jack Miller Guangming Zhou Ye Zhang	Afshin Beheshti Xinjian Liu
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Monica Laurenza Roberto Battiston Michael Dingfelder Vasilis Vlachoudis Mikhail Dobynde Abhijit Roy	Andrea Ottolenghi
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 10 - 19)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Gianfranco Vidali Andrew Turner Christopher Shingledecker Chris Arumainayagam Danna Qasim Sergio Coppola Jiao He Yasuhiro Oba Mi Whalen Jennifer Bergner	
F3.7 Finding Life beyond Earth: Modern Methods for Technosignature Searches (Speakers 1 + 7 - 12)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Jimi green Ron Ekers Chris Phillips Jacob Haqq-Misra Alice Gorman	
F4.3 Influence of Spaceflight Environments on Biological Systems (Speakers 1 - 3 & 7+8)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Alexey Kondyurin Kaori Tomita-Yokotani Anthony Bengel Victoria Brazell Shane Osher	Galina S. Nechitalo
F5.1 Molecular, Cellular and Physiological Changes in Response to Spaceflight and Ground-based Analogues (Speakers 11 - 13)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Craig Lundrot Siddharth Rajput	
F5.2 There and Back Again - An Astronaut's Tale: NASA (Speaker 1 - 4)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	Julie A. Robinson Gioia Massa Meg O'Connell	
G0.3 Influence of Free Space Environment on the Behaviour of Materials (Speakers 1 - 6)	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:30	Joseph Minow Yugo Jimoto Alexey Kondyurin Zhengai Cheng Akioto	Alexey Kondyurin
H0.2 Gravitation, Dark Energy and Dark Matter (Speakers 1 - 7)	Simulive w/ Moderated text Q&A	01/31/21	09:30	11:00	Ezgi Canay, Zhao-Qiang Shen	Orfeu Bertolami
PE.2 Current Trends, Initiatives and Research in Education and Outreach for Space Sciences (Speakers 1 - 9)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Alissa J. Haddaji Ellen Sima Fraser Lewis Virginia Milborn Rosa Moran Donya Nazdivsalar Auriol Heary	Michel Boer
PPP.1 Planetary Protection Policy (Speakers 9 - 11)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	J. Andy Spry Akihiko Yamagishi Kazuhiisa Fujita	Athena Coustenis Akihiko Yamagishi
PPP.2 Planetary Protection Mission Implementation and Status (Speakers 1 - 7)	Simulive w/ Moderated text Q&A	01/31/21	08:45	10:15	Hajime Yano Diana Beatriz Margheritis Elena Deshevaya Diana Beatriz Margheritis	

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
PSW.4 Space Weather Information Architecture and Its Roles in Enhancing Data Access and Utilization (Speakers 1 - 5 & 8-10)	Simulive w/ Live Q&A	01/31/21	08:00	09:30	D Aaron Roberts Lee Bargatze Alexis Glover Mamoru Shii Jesse Andries Yoshimasa Tanaka Minh Duc Nguyen	
PSW.4 Space Weather Information Architecture and Its Roles in Enhancing Data Access and Utilization (Speakers 11 - 18)	Simulive w/ Live Q&A	01/31/21	09:30	11:00	Robert Candey Jack Beland Neal Burlburt Darren De Zeeuw Lutz Bastatter Alexa Halford	
The Earth-Moon System: Our Past, Present, and Future - Session 1	Full Live	01/31/21	07:15	08:45	Carlé McGetchin Pieters	
Leadership Dialogue	Full Live	01/31/21	07:00	08:00	Russell Boyce Elanor Huntington Keoki Jackson	Darryl Krook
Machine Learning for Space Sciences General Session 08:00-09:15 AEDT	Simulive w/ Moderated text Q&A	01/31/21	08:00	09:15	Shirley Ho Gregoire Aufort Denis Burgarella Pierre Pudlo Nigul Olsper Andres Asensio Ramos Tony Bonnaire	
Machine Learning for Space Sciences General Session 10:00-11:30 AEDT	Simulive w/ Moderated text Q&A	01/31/21	10:00	11:30	Madhulika Guhathakurta Carl Shneider Andong Hu Mandar Hemant Chandorkar Keming Zhang Joshua Bloom B. Scott Gaudi Bo Chen Daqi Liu Tat-Jun Chin	
<b>DAY 3 - PM - Sunday 31 January (BLOCK 2)</b>						
Machine Learning for Space Sciences Parallel Tracks (A) Heliophysics 13:00-14:00 AEDT	Simulive w/ Moderated text Q&A	01/31/21	13:00	14:00	Frederic Effenberger Ruggero Vasile Yuri Shprits Jeong Hyun-Jin Yong-Jae Moon Eunsu Park Sonam Dawani Azim Ahmadzadeh Rafal Angryk Yang Chen Anli Ji Pavan Ajit Babajiyavar	
Machine Learning for Space Sciences General Session 12:00-12:45 AEDT	Simulive w/ Moderated text Q&A	01/31/21	12:00	12:45	Maria J. Molina Ivan Venzor Marek Slipski Nadia Ahmed Banafsheh Ferdousi Panagiotis Tigas Vishal Upendran Richard E.L. Higgins David Fouhey	
Machine Learning for Space Sciences Parallel Tracks (B) Astrophysics 13:00-14:00 AEDT	Simulive w/ Moderated text Q&A	01/31/21	13:00	14:00	Marion Ullmo Nabila Aghanim Aurélien Decelle Anamaria Berea Andres Munoz-Jaramillo Benjamin Eckart Chao Liu Benjamin Wu Keming Zhang Joshua Bloom	

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
Machine Learning for Space Sciences Parallel Tracks (C) Earth Science 13:00-14:00 AEDT	Simulive w/ Moderated text Q&A	01/31/21	13:00	14:15	Abhigya Sodani Michael Levy Anirudh Koul Suhas Kotha Anirudh Koul Siddha Ganju Meher Kasam Deep Patel Erin Gao Anirudh Koul Sarah Chen Esther Cao Anirudh Koul Rajeev Godse Anirudh Koul Meher Kasam Siddha Ganju	
A0.3 Observing the Anthropocene from Space (Speakers 14 - 16)	Simulive w/ Live Q&A	01/31/21	19:45	21:15	Jack Kaye Hansjoerg Dittus Akihiko Izuze	
A0.5 CubeSats for Scientific and Civil-use Studies of the Earth (Speakers 1-9)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Sachidananda Babu Callum Middleton Graziella Branduardi-Raymont Florentin Millour Alex Di Tommaso Adrian Bispler Christopher Beck Xueliang Bai	Anthony Freeman Jason Hyon
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 4 - 10)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	M. G. Mlynczak Kristell Hérot Nicholas Song Maho Nakagawa	Christian Von Savigny Yasuko Kasai Jean-Christopher Lambert
A2.1 Science and applications enabled by oceanographic satellite measurements (Speakers 14 - 20)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Severine Bournier Tong Lee Joon Wayne Cheong Jérôme Benveniste Naoto Ebuchi David Griffin Jingru Sun	Tong Lee
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 1 - 3 8-9)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Nicolas Thomas, Phil Bland Ryan Clark Antonio De Brum	Bernard H. Foing
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 17 - 20)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Michaela Musilova Annelotte Veert Jonathan Clarke	Christiane Heinicke
B0.5 Planetary Cubesats and Small Sats (Speakers 1 - 5, 14)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Robert Ellis Laura Inno Shintaro Nakajima James Bell John Baker Takeshi Uroda	
B0.5 Planetary Cubesats and Small Sats (Speakers 18 - 19)	Simulive w/ Moderated text Q&A	01/31/21	21:15	22:45	Takayoshi Yamada Robyn Millan	

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
B1.1 Small Body Exploration Science in the New Decade (Speakers 29 - 38)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Tommy Grav Eduard Luznetsov Stefanie Milam Charlotte Goetz Marcos Rincon Boelzke Patrick Shober Daniel Boice Loreany De Araújo	Daniel Boice
B1.1 Small Body Exploration Science in the New Decade (Speakers 39 - 47)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Tatsuaki Okada Timothy Holt Timothy Holt Panida Boonmasai Karen Meech Karen Meech Carlos Borral van Damme	James Bell
B4.1 Mars Science Results (Speakers 32 - 40)	Simulive w/ Moderated text Q&A	01/31/21	19:45	21:15	Leslie Tamppari Maria Banks Claire Newman Aditya Khuller Leslie Tamppari Katarina Miljkovic Graziella Caprarelli Yangcheng Luo	
B4.2 Forward Planning of Exploration of Mars (Speakers 5 - 12)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Francesca Altieri Tomohiro Osui Amirhossein Bagheri Bruce Bakosky Charles Edwards Charles Edwards	
B5.3 Ocean Worlds (Speakers 5 & 9-13)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Jean-Pierre Leurial Caroline Freissinet Rosaly Lopes Michael Malaska Morgan Cable Robert Bodys	
C0.1 International Standards on Space Environment from ISO (Speakers 1 - 3, 5-8)	Simulive w/ Live Q&A	01/31/21	19:45	21:15	Paul O'Brien Angelica Sicard Tamara Sulyaeva Piers Higgins Vladimir Kalegaev Minh Duc Nguyen	W Kent Tobiska Vladimir Kalegaev
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 2, 3, 5, 8, 11)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Venkatesh Ravutarapu David Altadill Igor Paulino Igor Paulino Sudipta Sasmal	
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 18 - 23)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Ryan McGranaghan Meltem Koroglu Gokhan Gok Fabiano Rodrigues Dincer Gokcen	Feza Arikan

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
C1.2 The Coupled Solar Wind-Magnetosphere-Ionosphere-Thermosphere System and the Impact of Solar and Geomagnetic Storms on Geospace (Speakers 29 - 30, 35-36)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Nanan Balan Daniel H. Mac Manus Manuela Temmer Agnieszka Gil	
C1.3 Conditions for Enhanced Risk in Ionospheric Weather (Speakers 6 - 10, 14-17)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Melrose Brown Ali Inar Renata Eukianova Vladimir Belakhovsky Ozan Koroglu Ozan Koroglu Meltem Koroglu Tamara Gulyaeva	Feza Arikan
C1.4 CSES and Swarm Data Analysis of the Ionosphere Dynamics at Different Temporal and Spatial Scales (Speakers 1 - 4)	Simulive w/ Live Q&A	01/31/21	19:45	21:15	Roberto Battiston Daria Kotova Xiaochen Gou Mirko Piersanti	Piero Diego Mirko Piersanti
C2.2 Wave Coupling Processes and Consequences in the Whole Atmosphere and Ionosphere (Speakers 28 - 32)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Xing Meng Masaru Ogure Pavel Inchin Florian Zedek Ruth Lieberman	Sabine Wüst
C2.3 Advances in External Forcing Studies for the Middle Atmosphere and Lower Ionosphere (Speakers 1 - 8)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Gabriel Chiodo Huixin Liu Alessandro Damiani Kalevi Mursula Yvan Orsolini Hui	Yvan Orsolini
C4.2 Development of Models Related to the COSPAR International Reference Atmosphere and to ISO Standards for the Atmosphere (Speakers 8 - 10)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Yang Yang Angelos Mourlidas Maria Kuznetsova	
C5.2 Dust Detection and Observation in Space and Laboratory Experiments (Speakers 1, 4, 6)	Simulive w/ Moderated text Q&A	01/31/21	21:15	22:45	Leonard Schulz Ronald Maj Kristie Lera	Jiri Pavlu
D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere and Beyond (Speakers 11+ 12 - 15-20)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Renata Modzelewska Adrian Vogt Xi Luo Agnieszka Gil Du Toit Strauss Vladimir Florinski Valentina Zharkova	Katlego Moloto Nina Dresing
D2.2 Solar Probe and SoLO (Speakers 12 - 16, 20-22)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Richard Mewaldt Spiros Patsourakos David Lario Leon Ofman Davin Larson J. L. Verniero Pietro Zucca	Karl-Ludwig Klein Nour E. Raouafi
D2.2 Solar Probe and SoLO (Speakers 23 - 27, 29-31)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Lucas Barr Bernard Jackson Susanna Parenti David Berghmans Louise K. Barra Daniel Pacheco George Ho	Pietro Zucca David Lario
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 1 - 11)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	James Klimchuk Clara Broment Rajsekhar Mohapatra Max Gronke Moira Jardine Kazuo Makishima Niels Laes Ryoji Matsumoto Patrick Antolin	Mark Voit Patrick Antolin



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
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 1 - 10)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Georgios Hintzoglou Lucie Green Manolis K. Georgoulis Prantika Howmik Michael S. Wheatland Rui Liu Bernhard Liem Tingyu Guo Sanchita Pal	Jie Zhang Spiros Patsourakos
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 13 & 18 - 20)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Immanuel Baraj Jasmina Magdalenic Evangelia Samara Dana-Camelia Balpeanu	Qiang Hu Miho Janvier
D3.1 Highlights of Magnetospheric Plasma Physics (Speakers 1 - 6)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Michael Besse Michael Boehm David Southwood Maria Kuznetsova Elena Grigorenko	Michael A. Balikhin
D3.4 Plasma Transport across Magnetospheric Boundaries (Speakers 1 - 14)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Ferdinand Laschke Savvas Baptis Katariina Nykyri Evgeny Sordeev Minna Balmroth Kotova Galina Anatoli Petrukovich Kristie Lera	Steven Petrinec Zdenek Nemecek
D3.4 Plasma Transport across Magnetospheric Boundaries (Speakers 17 - 21)	Simulive w/ Moderated text Q&A	01/31/21	21:15	22:45	Oleksandr Goncharov Zdenek Nemecek	
E1.16 Origin of Cosmic Rays (Speakers 32 - 35 & 37 - 42)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Makoto Sasaki Veronica Bindi Shoko Miyake Giuseppe Vacca Lev Dorman Paul Evenson Riccardo Munini Lech Piotrowski Federico Donnini Shota Tokoyama Bilal Bamzan	Walter Binns
E1.16 Origin of Cosmic Rays (Speakers 43 - 47)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Petra Luentemeyer James Madsen Devyn Antu Gavin Howell	Alexander Moiseev
E1.16 Origin of Cosmic Rays (Speakers 49 - 57)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Mathieu De Naurois Sarah Becchia Troy Porter Ming Zhang Razmik Mirzoyan Sajan Kumar Vasily Brosin Mitsuru Abe Ralf-Juergen Dettmar	Alexander Moiseev

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
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Christopher Reynolds Dan Wilkins Scott Noble Omer Bromberg Kazunori Kiyama Fabio Bacchini Gustavo Soares	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 10 - 20)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Biagina Boccardi Martin Hardcastle Stas Shabala Dhanya G. Nair Yuan Qi Laura Birzan Jongho Park Dharam Lal Yu Qiu	
E1.19 Scientific Opportunities from Multi-wavelength Follow-up of Large-area X-ray Surveys (Speakers 14 - 16)	Simulive w/ Moderated text Q&A	01/31/21	19:45	21:15	Christian Schneider Mikhail Sachkov Miroslav Filipovic	
E1.2 The Remnants of Supernova Explosions (Speakers 1 - 11)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Hiroya Yamaguchi Matthew Willard Lei Sun Satoru Matsuda Ashley Buitter Parviz Ghavamian Natasha Burley-Walker Firoza Sutaria Yuki Imai	
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 16 - 24)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	Sudip Bhattacharyya David Russell Kaushik Chatterjee Yash Bhargava Ingyin Zaw Anuvab Banerjee Debjit Chatterjee	Rachel Webster Holger Stiele
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 27 - 34)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Broja Gopal Dutta Arghajit Jana Indrani Banerjee Vladimir Karas Shuang-Nan Zhang Indrani Chattopadhyay Jaiverdhan Chauhan Deanne Coppejans	Katie Auchetti Sandip Kumar Chakrabarti
E1.5 Accretion on All Scales (Speakers 35-40)	Simulive w/ Live Q&A	01/31/21	19:45	21:15	Shumei Ba Aarran Shaw Ruchi Pandey Ruchi Mishra Shokoufe Baraji	
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 10 - 19)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	Gianfranco Vidali Andrew Turner Christopher Shingledecker Chris Arumainayagam Danna Qasim Sergio Coppolo Jiao He Yasuhiro Oba Mi Wha In Jennifer Bergner	
E1.5 Accretion on All Scales (Speakers 41 - 46)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Dante Hewitt Solen Balman Indu Kalpa Divingia	

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
E1.6X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 10 - 16)	Simulative w/ Moderated text Q&A	01/31/21	19:00	20:30	Sandro Mereghetti James Bodi Aishwarya Lingeswathakur Tiara Lung Katie Buchetti Marcos Santander Mieke Bouwhuis	
E1.6X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 20 - 22)	Simulative w/ Moderated text Q&A	01/31/21	20:30	22:00	Pete Boming Lorenzo Amati Yuan Liu	
E2.1Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 1 - 9)	Simulative w/ Live Q&A	01/31/21	19:00	20:30	Mausumi Dikpati Robert Cameron Valentina Zharkova Xudong Sun Shin Toriumi Victor Demcsak Kosuke Hamakata	Cristina H. Mandrini Brigitte Schmieder
E2.1Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 10 - 17)	Simulative w/ Live Q&A	01/31/21	19:00	20:30	Yang Guo Spiros Patsourakos Anna Malanushenko Reka Winslow Ward Manchester IV Teresa Nieves-Chinchilla P. F. Chen Manuela Temmer	Cristina H. Mandrini Brigitte Schmieder
F1.1Gravity Perception and Response in Plants and Fungi: Ground and Space Studies (Speakers 15 - 20)	Simulative w/ Live Q&A	01/31/21	19:45	21:15	Miyo Morita Karl H. Hasenstein Chris Wolverton Francisco Javier Medina Rakesh Singh Marabi	
F2.1Biological Effects of Space Radiation: a Controllable Challenge for Long-term Human Space Missions (Speakers 9 - 16)	Simulative w/ Live Q&A	01/31/21	19:45	21:15	Olga Martin Sebastian Diegeler Afshin Beheshti Quy Don Tran Jack Miller Guangming Zhou Ye Zhang	Afshin Beheshti Xinjian Liu
F2.2Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 1 - 8)	Simulative w/ Live Q&A	01/31/21	19:00	20:30	Monica Laurenza Roberto Battiston Michael Dingfelder Vasilis Vlachoudis Mikhail Dobynde Abhijit Roy	Andrea Ottolenghi
F3.7Finding Life beyond Earth: Modern Methods for Technosignature Searches (Speakers 1 + 7 - 12)	Simulative w/ Moderated text Q&A	01/31/21	19:00	20:30	Jimi Green Ron Ekers Chris Phillips Jacob Haqq-Misra Alice Gorman	
F4.3Influence of Spaceflight Environments on Biological Systems (Speakers 1 - 8)	Simulative w/ Moderated text Q&A	01/31/21	19:00	20:30	Alexey Kondyurin Kaori Tomita-Yokotani Anthony Bengel Victoria Brazell Shane Osher	Galina S. Nechitailo
F5.1Molecular, Cellular and Physiological Changes in Response to Spaceflight and Ground-based Analogues (Speakers 11 - 13)	Simulative w/ Moderated text Q&A	01/31/21	20:30	22:00	Craig Lundrot Siddharth Bajput	
F5.2There and Back Again - An Astronaut's Tale: NASA (Speaker 1 - 4)	Simulative w/ Moderated text Q&A	01/31/21	19:00	20:30	Julie A. Robinson Gioia Massa Meg O'Connell	
G0.3 Influence of Free Space Environment on the Behaviour of Materials (Speakers 1 - 6)	Simulative w/ Moderated text Q&A	01/31/21	19:00	20:30	Joseph Minow Yugo Kimoto Alexey Kondyurin Zhengai Cheng Akioto	Alexey Kondyurin

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
H0.2 Gravitation, Dark Energy and Dark Matter (Speakers 1 - 7)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Ezgi Canay, Zhao-Qiang Shen	Orfeu Bertolami
PE.2 Current Trends, Initiatives and Research in Education and Outreach for Space Sciences (Speakers 1 - 9)	Simulive w/ Live Q&A	01/31/21	20:30	22:00	Alissa J. Haddaji, Ellen Lima, Fraser Lewis, Virginia Wilborn, Rosa Doran, Donya Nazivisalar, Auriol Heary	Michel Boer
PPP.1 Planetary Protection Policy (Speakers 9 - 11)	Simulive w/ Live Q&A	01/31/21	19:00	20:30	J. Andy Spry, Akihiko Yamagishi, Kazuhisa Fujita	Athena Coustenis, Akihiko Yamagishi
PPP.2 Planetary Protection Mission Implementation and Status (Speakers 1 - 7)	Simulive w/ Live Q&A	01/31/21	19:45	21:15	Hajime Yano, Diana Beatriz Margheritis, Elena Deshevaya, Diana Beatriz Margheritis	
PSW.4 Space Weather Information Architecture and Its Roles in Enhancing Data Access and Utilization (Speakers 1-10)	Simulive w/ Moderated text Q&A	01/31/21	19:00	20:30	D Aaron Roberts, Lee Bargatze, Alex Glover, Mamoru Shii, Jesse Andries, Yoshimasa Tanaka, Minh Duc Nguyen	
PSW.4 Space Weather Information Architecture and Its Roles in Enhancing Data Access and Utilization (Speakers 11 - 18)	Simulive w/ Moderated text Q&A	01/31/21	20:30	22:00	Robert Andey, Jack Ireland, Neal Burlburt, Darren De Zeeuw, Lutz Bastaetter, Alexa Halford	
The Earth-Moon System: Our Past, Present, and Future - Session 2 (on demand)	Full Live	01/31/21	18:15	19:00	Carle M. Pieters	
<b>DAY 4 - AM - Monday 1 February (BLOCK 1)</b>						
Scientific and Civil-use Studies of the Earth (Speakers 11 - 20)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Chee Lap Chow, Shin-Chan Han, Mathieu Zmigielski, Jack Kaye, James Garrison, Kangkang Chen, Matthew Suntup, Daniel N. Baker, Ralph Kahn, Sunita Verma, Gerd Baumgarten, Christian Von Savigny, P. R. Sathesh Chandran, Nizy Mathew	Jason Hyon, Anthony Freeman
A0.5 CubeSats for Scientific and Civil-use Studies of the Earth (Speakers 22-32)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Kevin Davies, Paul Alvino, Yiwei Miao, Mehran Mirshams, Jue Zhang	Anthony Freeman, Jason Hyon
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 14 - 28)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Ralph Kahn, Sunita Verma, Gerd Baumgarten, Christian Von Savigny, P. R. Sathesh Chandran, Nizy Mathew, Jing Zhao, Tomohiro Sato, Xu Liu, Orfeu Bertolami	John P Burrows, Yasuko Kasai, Jean-Christopher Lambert

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
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 32 - 35)	Simulive w/ Moderated text Q&A	02/01/21	9:30	10:15	Manoj Manguttathil Gopalakrishnan Francesco Grieco Anqi	Christian Von Savigny
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 12, 21, 23, 24, 26, 28, 29 30, 33)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Bernard H. Foing Christiane Heinicke Michael Wong Eleni Avanis James Austin Ilya Luzovkin Arik Bosner Mary Sue Bell Stephen Indyk	Bernard H. Foing Christiane Heinicke
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 36 - 39)	Simulive w/ Live Q&A	02/01/21	10:15	11:45	Graham Dorrington Susanna Guatelli Anne Bettens	Bernard H. Foing
B0.6 Planetary Instruments (Speakers 2,3,5, 7-11, 19-20)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Arnaud Buch Maria Cristina De Sanctis Imant Vinogradov Seamus Thomson Richard West Eleni Avanis James Bell Andrew Coates Justin Maki	
B0.6 Planetary Instruments (Speakers 16 - 18)	Simulive w/ Moderated text Q&A	02/01/21	09:30	11:00	Manuel Dominguez-Pumar Steven Hobbs Mark Haynes	
B1.1 Small Body Exploration Science in the New Decade (Speakers 48 - 52)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Iryna Myrychenko Ryota Serizawa Jodie Beam	Hajime Yano
B1.2 Asteroids, Friends Or Foe: Planetary Defense and Resources (Speakers 1 -10)	Simulive w/ Moderated text Q&A	02/01/21	08:45	10:15	Patrick Michel Andrew Cheng Patrick Michel Tatsuaki Okada Elisabetta Dotto Stavro Branovski James Walker Shinji Boriuchi	
B1.2 Asteroids, Friends Or Foe: Planetary Defense and Resources (Speakers 11 - 14)	Simulive w/ Moderated text Q&A	02/01/21	10:15	11:45	Aisha Alowais Shinji Boriuchi Blake Molyneux	
B3.1 Lunar Science and Exploration (Speakers 1 - 9)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Benjamin Greenhagen Dana Hurley James Green Shaosui Xu Shufan Wu	
B4.3 Mars Sample Return (Speakers 5 -12)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Andrea Barrington Michael Calaway Adrian Brown Daniel Glavin Frances Westall Tomohiro Tsui	Abigail C. Allwood Michael Meyer
B4.4 Venus Science and Exploration (Speakers 2 - 5)	Simulive w/ Moderated text Q&A	02/01/21	09:30	11:00	Ghai Siung Chong Takeshi Morinouchi Hiroki Ando	James Cutts Colin Wilson

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
B5.4 Ice Giant Systems (Speakers 2 - 9)	Simulive w/ Live Q&A	02/01/21	09:30	10:15	Olivier Mousis Glenn Orton Sushil K. Atreya Ian Cohen	Ian Cohen Sushil K. Atreya
B5.3 Ocean Worlds (Speakers 14 - 18)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Anezina Solomonidou Helen Maynard-Casely Victoria Munoz-Iglesias Robert Bodys	
C0.3 Variabilities of Radio Wave Propagation Characteristics in Lower Ionosphere (Speakers 1 - 8)	Simulive w/ Live Q&A	02/01/21	10:15	11:45	Anne Newisse Frank Beymann Maxim Golubkov Gauri Datar	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 12 - 27)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Richard Ballows Goderdzi Didebulidze Sreelakshmi Jayaraman Jan Pastovicka Taoyuan Kazuo Shiokawa Duggirala Pallamraju Poppy Martin Richard Eastes	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 29 - 33)	Simulive w/ Moderated text Q&A	02/01/21	10:15	11:45	Muhammad Atiq Danielle Edwards Alan Burns	
C2.1 The Physics and Dynamics of the Middle Atmosphere from Mid to High Latitudes (Speakers 1, 2, 3, 10, 14)	Simulive w/ Live Q&A	02/01/21	08:45	10:15	Jonathan Snively Greta Stratmann John French Arsenio Doyennel Mitsumu K. Ejiri	Michael Gerding John French
C3.1 Planetary Atmospheres (Speaker 1 - 9)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Yukiko Fujisawa Norihiko Sugimoto Dmitrij Titov Syed A. Haider Katsuyuki Noguchi Venkateswara Rao Narukull Diego Ranches Hilary L. Bush	
C5.2 Dust Detection and Observation in Space and Laboratory Experiments (Speakers 8 - 16)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Veerle Sterken Andrew Poppe Yanwei Paul Bellan Jakub Zaverka Philip Braundorf	Jiri Pavlu
D0.1 Overview Talks (Speakers 2 & 4)	Simulive w/ Live Q&A	02/01/21	08:45	10:15	Katariina Nykyri Melissa Besce-Rollins	Nichole Vilmer
D1.2 Large-Scale Heliospheric Structure: Theory, Modelling, and Data (Speakers 1 - 9)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Matthew Hill Heather Elliott Marek Strumik Stamatios Krimigis Pawel Swaczyna Hui Li	Pawel Swaczyna Hui Li
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 13 - 23)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Sarah Beggli Jack Jenkins Jianchao Yue Krzysztof Barczynski Juan Camilo Suevara Gómez Elena Khomenko Frederick Wilder Parisa Mostafavi	Thomas Berger Paul Bellan

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
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 22 - 32)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Spiro Antiochos Qian Xia Noé Lugaz Rachael Elwett Karl-Ludwig Klein Devojyoti Kansabanik Guifré Molera Calvés Anshu Kumari Atul Mohan	Nat Gopalswamy Emilia Kilpua
D3.1 Highlights of Magnetospheric Plasma Physics (Speakers 9, 10, 12, 14)	Simulive w/ Moderated text Q&A	02/01/21	10:15	11:45	Chao Yue Alexander Drozdov Homayon Ryan Suktisama Ghosh Kotova Galina	
D3.5 Particle Acceleration and Loss in the Earth and Planetary Magnetospheres (Speakers 1 - 3 + 8 + 11)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Geoffrey Reeves Peter Collmann Seth Claudepierre Allison Baynes Ian Cohen	Geoffrey Reeves James Roeder  Ioannis A. Daglis Jiwon Choi
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Alexandra Veledina Claus Laemmerzahl Tomaso Belloni Athulya Menon Chiara Ceccobello Deanne Coppejans Francesco Carotenuto	
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 11 - 22)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Payaswini Saikia Elise Egron Pikky Atri Megumi Shidatsu Keigo Ukumura Samuel Barnier Ajay Batheesh Jaiverdhan Chauhan	
E1.16 Origin of Cosmic Rays (Speakers 49 & 52 + 53 - 57)	Simulive w/ Live Q&A	02/01/21	10:15	11:45	Mathieu De Naurois Ming Zhang Razmik Mirzoyan Sajan Kumar Ralf-Juergen Dettmar Giovanni Morlino Ruben Lopez-Coto Jose Bellido Charles Lui	Alexander Panov Miroslav Filipovic
E1.16 Origin of Cosmic Rays (Speakers 63 - 72)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Mario Edoardo Bertina Marco Gasolino Marco Ricci Matteo Battisti Ingyin Zaw Miroslav Filipovic Philip Von Doetinchem Shuang-Nan Zhang Aleksandr Kurganov	Philip Von Doetinchem

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
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 21 - 29)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Nicholas MacDonald Elena Nokhrina Ioannis Myserlis Koushik Chatterjee Yuri Kovalev Gabriele Bruni Eugene Churazov	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 30 - 40)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Daniel Schwartz Rodrigo Nemmen Marcos Santander Maria Charisi Ulisses Barres de Almeida Monica Orienti Qi Peng Elina Lindfors Ore Gottlieb	
E1.2 The Remnants of Supernova Explosions (Speakers 12 - 20)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Bon-Chul Koo Poonam Chandra Hiromasa Suzuki Qiancheng Fu Ping Zhou Giovanni Morlino Riccardo Ferrazzoli Patrick Gilane Jiro Shimoda	
E1.2 The Remnants of Supernova Explosions (Speakers 22 - 30)	Simulive w/ Moderated text Q&A	02/01/21	09:30	11:00	Takaaki Tanaka Sabrina Enecke Ivo Seitzahl Samar Safi-Harb Roland Kothes Gavin Rowell Joseph Gelfand Samayra Straal	
E1.20 Science with Cubesats, Small Satellites, and Constellations (Speakers 1-20)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Hua Peng Michele Trenti Zeren Zhima Bart Wandenbussche Matteo Duranti Luciano Burderi Lian Tao Christopher Moore	Alessandra Di Cecco Maria Cristina Falvella
E1.20 Science with Cubesats, Small Satellites, and Constellations (Speakers 12 - 15)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Andrei Zhukov Jonah Hansen Takeru Nakamura Luc Damé	Maria Cristina Falvella
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 35 - 43)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Mark R. Morris Gulab Chand Dewangan Sarah Gallagher Rachel Webster Jiachen Jiang Yuan Liu Sunil Chandra	Ilya Mandel Andrew Melatos
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 44-47)	Simulive w/ Moderated text Q&A	02/01/21	09:30	11:00	Julien Maizac Francesca Panessa Maria Cristina Baglio	Andrew Melatos
E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 1 - 5)	Simulive w/ Moderated text Q&A	02/01/21	10:15	11:45	Dipak Debnath Montserrat Armas Padilla	



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
Flux Ropes in Solar and Stellar Environments (Speakers 18 - 25)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Jie Zhang Miho Janvier Sarah Gibson Victor Reville Hebe Cremades Mateja Dumbovic Nada Al-Haddad Moirra Jardine	Christina H. Mandrini Sarah Gibson  Brigitte Schmieder Manuela Temmer
Flux Ropes in Solar and Stellar Environments (Speakers 26 - 34)	Simulive w/ Live Q&A	02/01/21	09:30	11:00	Yuta Notsu Subhajeet Karmakar Reetika Bishi Marta Florido-Llinas Michael S. Wheatland Anwasha Maharana Sergio Dasso	Christina H. Mandrini Brigitte Schmieder
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 10 - 17)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Michael Story Tompei Oleg Belov Tony Slaba Christoph Schuy Amy Kronenberg Megumi Hada	Dawn Bowles Janice Huff
Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight Environment (Speakers 10 - 18)	Simulive w/ Moderated text Q&A	02/01/21	08:45	10:15	Sheila Nielsen Huiqiong Zheng Honglu Wu Runtao Zhong Cao Ling	Huiqiong Zheng Tao Zhang
Evolution and Origin of Life (Speakers 11 - 20)	Simulive w/ Moderated text Q&A	02/01/21	08:45	10:15	Robin Garrod Nanase Harada Helmut Wiesemeyer Ankan Das Kinsuk Acharyya Laura Wickemish Milan Sil Bratati Bhat Wasim Qbal	
Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 20 - 26)	Simulive w/ Moderated text Q&A	02/01/21	8:00	9:30	Dwayne Heard Ilsa Cooke Leah Dodson Marie-Aline Martin-Drumel Sergio Martin Marta Sewilo Kenji Furuya	
Space Food and Nutrition (Speakers 1 - 11)	Simulive w/ Live Q&A	02/01/21	08:45	10:15	Naomi Katayama Naomi Katayama Yoshiaki Kitaya Kaori Tomita-Yokotani Stéphane Blanc Christina Hodadad Petra Bettberg Vienna Tran Raymond Wheeler	Naomi Katayama Yoshiaki Kitaya
H0.1 Commission H Highlight Talks (Speakers 3-6)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Meike Dist Jürgen Müller Frans R. Linkhamer Remo Buffini	

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
ns for Fundamental Physics (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/01/21	09:30	10:15	Dmitry Titvinov Daniel Terno Benny Bievers Océane Dhucque Ivan Di Stefano David Lucchesi Christoph Klupp Rainer Kaltenbaek	
PE.2 Current Trends, Initiatives and Research in Education and Outreach for Space Sciences (Speakers 10 - 13)	Simulive w/ Live Q&A	02/01/21	08:00	09:30	Bruce Betts Marcos Voelzke Kala Perkins Fraser Lewis	
protection Mission Implementation and Status (Speakers 9 - 14)	Simulive w/ Live Q&A	02/01/21	10:15	11:45	María Del Rosario Anchal Moreno Ryan Hendrickson Naoko Ogawa Robert Gershman J. Andy Spry	
PPP.3 Planetary Protection Research and Development (Speakers 2, 4 + 5 - 6)	Simulive w/ Live Q&A	02/01/21	08:45	10:15	Michel Viso Annamaria Romeo James Benardini	Petra Rettberg
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/01/21	10:15	11:45	Deborah Airbrother Vincent Dubourg Mattias Abrahamsson Giulia Mantovani Tetsuya Yoshida João Braga Ravi Sood	Jessica Gaskin Andre Vargas
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 1 - 11)	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:30	Maria Kuznetsova Charles Arge Spiro Antiochos Martin Reiss Richard Ballows Maher A. Dayeh Valeriy Tenishev W Kent Tobiska Yuri Shprits Yiqun Yu	
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 6 - 15)	Simulive w/ Moderated text Q&A	02/01/21	8:45	10:15	Maher A. Dayeh Valeriy Tenishev W Kent Tobiska Yuri Shprits Joseph Minow Yiqun Yu Lisa Rosenqvist Jesper Ojerloev Daniel H. Mac Manus	
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 17 - 21)	Simulive w/ Live Q&A	02/01/21	10:15	11:00	Katariina Nykyri Wojciech Wiloch Sean Bruinsma Mario M. Bisi Sophie Murray	
New aspects of the magnetospheres of Jupiter and Saturn - Session 2	Full Live	02/01/21	07:15	08:00	Michele Dougherty	

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
Autonomy for Future Space Science Missions 08:00- 09:00 AEDT	Simulive w/ Moderated text Q&A	02/01/21	08:00	09:15	Michael Seabloom Pierre-Philippe Mathieu Valentina Salvatelli Souvik Bose Brad Neuberg	
Autonomy for Future Space Science Missions 10:00- 11:15 AEDT Live Panel Discussion	Simulive w/ Moderated text Q&A	02/01/21	10:00	11:15	Terry Fong Issa Nesnas Takashi Kubota Tim Barfoot	
Autonomy for Future Space Science Missions 12:00- 13:30 AEDT	Simulive w/ Moderated text Q&A	02/01/21	12:00	13:30	Salah Sukkarieh Sreeja Nag Mahta Moghaddam Daniel Selva Gabriel Sutherland	
Autonomy for Future Space Science Missions 14:00- 15:00 AEDT	Simulive w/ Moderated text Q&A	02/01/21	14:00	15:00	Lorraine M Fesq Nikhil Ranganathan Elena Sorina Lupu Hiroyasu Tsukamoto Luiz Fernando Guedes dos Santos Souvik Bose Valentina Salvatelli	
A0.5 CubeSats for Scientific and Civil-use Studies of the Earth (Speakers 11 - 20)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Chee Lap Chow Shin-Chan Han Mathieu Szmigielski Jack Baye James Garrison Kangkang Chen Matthew Suntup Daniel N. Baker Ralph Kahn Sunita Verma Gerd Baumgarten Christian Von Savigny P.R. Sathesh Chandran Nizy Mathew	Jason Hyon Anthony Freeman
A0.5 CubeSats for Scientific and Civil-use Studies of the Earth (Speakers 22-32)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Kevin Davies Paul Alvino Yiwei Mao Mehran Mirshams Jue Zhang	Anthony Freeman Jason Hyon
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 14 - 28)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Ralph Kahn Sunita Verma Gerd Baumgarten Christian Von Savigny P.R. Sathesh Chandran Nizy Mathew Jing Zhao Tomohiro Sato Xu Liu Orfeo Bertolami	John P Burrows Yasuko Kasai Jean-Christopher Lambert
A1.1 Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry (Speakers 32 - 35)	Simulive w/ Live Q&A	02/01/21	20:30	21:15	Manoj Manguttathil Gopalakrishnan Francesco Grieco Anqi	Christian Von Savigny

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
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 12-33)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Bernard H. Foing Christiane Heinicke Michael Wong Eleni Pavanis James Austin Ilya Iuzovkin Arik Posner Mary Sue Bell Stephen Indyk	Bernard H. Foing Christiane Heinicke
B0.2 Human and Robotic Exploration of Moon, Mars, and Asteroids (Speaker 36 - 39)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	Graham Dorrington Susanna Guatelli Anne Bettens	Bernard H. Foing
B0.6 Planetary Instruments (Speakers 2,3,5, 7-11, 19-20)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Arnaud Buch Maria Cristina De Sanctis Imant Vinogradov Seamus Thomson Richard West Eleni Pavanis James Bell Andrew Coates Justin Maki	
B0.6 Planetary Instruments (Speakers 16 - 18)	Simulive w/ Moderated text Q&A	02/01/21	20:30	22:00	Manuel Dominguez-Pumar Steven Hobbs Mark Haynes	
B1.1 Small Body Exploration Science in the New Decade (Speakers 48 - 52)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Iryna Myrychenko Ryota Serizawa Jodie Beam	Hajime Yano
B1.2 Asteroids, Friends Or Foe: Planetary Defense and Resources (Speakers 1 -10)	Simulive w/ Moderated text Q&A	02/01/21	19:45	21:15	Patrick Michel Andrew Cheng Patrick Michel Tatsuaki Okada Elisabetta Dotto Stavro Ivanovski James Walker Shinji Toriuchi	
B1.2 Asteroids, Friends Or Foe: Planetary Defense and Resources (Speakers 11 - 14)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	Aisha Alowais Shinji Toriuchi Blake Molyneux	
B3.1 Lunar Science and Exploration (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/01/21	20:30	22:00	Benjamin Greenhagen Dana Hurley James Green Shaosui Xu Shufan Wu	
B4.3 Mars Sample Return (Speakers 5 -12)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Andrea Barrington Michael Calaway Adrian Brown Daniel Glavin Frances Westall Tomohiro Osui	Abigail C. Allwood Michael Meyer
B4.4 Venus Science and Exploration (Speakers 2 - 5)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Ghai Siung Chong Takeshi Morinouchi Hiroki Ando	James Cutts Colin Wilson
B5.3 Ocean Worlds (Speakers 14 - 18)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Anezina Solomonidou Helen Maynard-Casely Victoria Munoz-Iglesias Robert Odysse	No Chair

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
B5.4 Ice Giant Systems (Speakers 2 - 9)	Simulive w/ Moderated text Q&A	02/01/21	20:30	21:15	Olivier Mousis Glenn Orton Sushil K. Atreya Ian Cohen	Ian Cohen Sushil K. Atreya
C0.3 Variabilities of Radio Wave Propagation Characteristics in Lower Ionosphere (Speakers 5 & 7 +8)	Simulive w/ Live Q&A	02/01/21	21:15	22:45	Nikola Bankov Eduardo Macho Victor U.J. Wankwo	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 12 - 27)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Richard Ballows Goderzi Didebulidze Sreelakshmi Jayaraman Jan Pastovicka Tao Yuan Kazu Shiokawa Duggirala Ballamraju Poppy Martin Richard Eastes	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 29 - 33)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	Muhammad Atiq Danielle Edwards Alan Burns	
C2.1 The Physics and Dynamics of the Middle Atmosphere from Mid to High Latitudes (Speakers 1, 2, 3, 10, 14)	Simulive w/ Live Q&A	02/01/21	19:45	21:15	Jonathan Snively Greta Stratmann John French Arseni Doyennel Mitsumu K. Ejiri	Michael Gerding John French
C3.1 Planetary Atmospheres (Speaker 1 - 9)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Yukiko Ujisawa Norihiko Sugimoto Dmitrij Titov Syed A. Haider Katsuyuki Noguchi	No Chair
C5.2 Dust Detection and Observation in Space and Laboratory Experiments (Speakers 8 - 16)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Veerle Sterken Andrew Poppe Yanwei Paul Bellan Jakub Taverka Philip Braundorf	Jiri Pavlu
D0.1 Overview Talks (Speakers 2 & 4)	Simulive w/ Live Q&A	02/01/21	19:45	21:15	Katariina Nykyri Melissa Pesce-Rollins	Nichole Vilmer
D1.2 Large-Scale Heliospheric Structure: Theory, Modelling, and Data (Speakers 1 - 9)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Matthew Hill Heather Elliott Marek Strumik Stamatios Krinigis Pawel Swaczyna Hui	Pawel Swaczyna Hui Li
D2.3 Thermal and Dynamic Plasma Instabilities on Multiscales: From Laboratories to Planets, the Sun/Stars, Galaxies, and Beyond (Speakers 13 - 23)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Sarah Pegli Jack Penkins Jianchao Yue Krzysztof Barczynski Juan Camilo Cuevara Gómez Elena Khomenko Frederick Wilder Parisa Mostafavi	Thomas Berger Paul Bellan
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 22 - 32)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Spiro Antiochos Qian Xia Noé Lugaz Rachael Lilwett Karl-Ludwig Klein Devojyoti Kansabanik Guifré Molera Calvés Anshu Kumari Atul Mohan	Nat Gopalswamy Emilia Kilpua

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
D3.1 Highlights of Magnetospheric Plasma Physics (Speakers 9, 10, 12, 14)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	Chao Yue Alexander Drozdov Homayon Bryan Suktisama Ghosh Kotova Galina	No Chair
D3.5 Particle Acceleration and Loss in the Earth and Planetary Magnetospheres (Speakers 1 - 3 + 8 + 11)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Geoffrey Reeves Peter Kollmann Seth Claudepierre Allison Haynes Ian Cohen	Geoffrey Reeves James Roeder  Ioannis A. Daglis Jiwon Choi
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 1 - 8)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Alexandra Veledina Claus Laemmerzahl Tomaso Belloni Athulya Menon Chiara Ceccobello Deanne Opejans Francesco Carotenuto	
E1.10 Accretion and Ejection in Galactic Compact Objects (Speakers 11 - 22)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Payaswini Saikia Elise Egron Pikkyatri Megumi Shidatsu Keigo Ukumura Samuel Barnier Ajay Batheesh Jaiverdhan Chauhan	
E1.16 Origin of Cosmic Rays (Speakers 49 - 61)	Simulive w/ Live Q&A	02/01/21	21:15	22:45	Mathieu De Naurois Ming Zhang Razmik Mirzoyan Sajan Kumar Ralf Juergen Dettmar Giovanni Morlino Ruben Lopez-Coto Jose Bellido Charles Lui	Alexander Panov Miroslav Filipovic
E1.16 Origin of Cosmic Rays (Speakers 63 - 67)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Mario Edoardo Bertina Marco Casolino Marco Ricci Matteo Battisti Ingyin Zaw	Philip Von Doetinchem
E1.16 Origin of Cosmic Rays (Speakers 68 - 72)	Simulive w/ Moderated text Q&A	02/01/21	20:15	21:45	Miroslav Filipovic Philip Von Doetinchem Shuang-Nan Zhang Aleksandr Kurganov	
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 21 - 29)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Nicholas MacDonald Elena Okhrina Ioannis Myserlis Koushik Chatterjee Yuri Kovalev Gabriele Bruni Eugene Churazov	

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
E1.18 Probing Energy Extraction from Supermassive Black Holes (Speakers 30 - 40)	Simulive w/ Moderated text Q&A	02/01/21	20:30	22:00	Daniel Schwartz Rodrigo Nemmen Marcos Santander Maria Charisi Ulisses Barres de Almeida Monica Orienti Qi Peng Elina Lindfors Ore Gottlieb	
E1.2 The Remnants of Supernova Explosions (Speakers 12 - 20)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Bon-Chul Koo Poonam Chandra Hiromasa Suzuki Qiancheng Liu Ping Zhou Giovanni Morlino Riccardo Ferrazzoli Patrick Lane Jiro Shimoda	
E1.2 The Remnants of Supernova Explosions (Speakers 22 - 30)	Simulive w/ Moderated text Q&A	02/01/21	20:30	22:00	Takaaki Tanaka Sabrina Enecke Ivo Seitzahl Samar Safi-Harb Roland Kothes Gavin Rowell Joseph Gelfand Samayra Straal	
E1.20 Science with Cubesats, Small Satellites, and Constellations (Speakers 1-20)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Hua Peng Michele Trenti Zeren Zhima Bart Vandenbussche Matteo Duranti Luciano Burderi Lian Tao Christopher Moore	Alessandra Di Cecco Maria Cristina Falvella
E1.20 Science with Cubesats, Small Satellites, and Constellations (Speakers 12 - 15)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Andrei Zhukov Jonah Hansen Takeru Nakamura Luc Damé	Maria Cristina Falvella
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 35 - 43)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Mark R. Morris Gulab Chand Dewangan Sarah Gallagher Rachel Webster Jiachen Jiang Yuan Liu Sunil Chandra	Ilya Mandel Andrew Melatos
E1.4 Black Hole Astrophysics: Observational Evidence and Theoretical Models (Speakers 44 - 47)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Julien Malzac Francesca Panessa Maria Cristina Baglio	Andrew Melatos
E1.6 X- and Gamma-ray Counterparts of New Transients in the Multimessenger Era (Speakers 68 - 72)	Simulive w/ Live Q&A	02/01/21	21:15	22:45	Miroslav Filipovic Philip von Doetinchem Shuang-Nan Zhang Aleksandr Kurganov	
E1.8 Evolution of Disk and Corona in X-ray Binaries: Intersection of Observations and Modeling (Speakers 1 - 5)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	Dipak Deb Nath Montserrat Armas Padilla	No Chair

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
E2.1 Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 18 - 25)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Jie Zhang Miho Janvier Sarah Gibson Victor Reville Hebe Cremades Mateja Dumbovic Nada Al-Haddad Moirra Jardine	Christina H. Mandrini Sarah Gibson  Brigitte Schmieder Manuela Temmer
E2.2 Magnetic Flux Ropes in Solar and Stellar Environments (Speakers 26 - 34)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Yuta Notsu Subhajeet Karmakar Reetika Bishi Marta Florido-Llinas Michael S. Wheatland Anwasha Maharana Sergio Dasso	Christina H. Mandrini Brigitte Schmieder
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 10 - 17)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Michael Story Tompei Oleg Belov Tony Slaba Christoph Schuy Amy Kronenberg Megumi Hada	Dawn Bowles Janice Huff
F2.4 Genetic, Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight Environment (Speakers 10 - 18)	Simulive w/ Live Q&A	02/01/21	19:45	21:15	Sheila Nielsen Huiqiong Zheng Honglu Wu Runtao Zhong Cao Jing	Huiqiong Zheng Tao Zhang
F3.1 Chemical Evolution and Origin of Life (Speakers 11 - 20)	Simulive w/ Live Q&A	02/01/21	19:45	21:15	Robin Garrod Nanase Harada Helmut Wiesemeyer Ankan Das Kinsuk Acharyya Laura Wickemish Milan Sil Bratati Bhat Wasim Iqbal	No Chair
F3.5 Pre-biotic and Complex Molecules in the Universe: Observational, Laboratory, and Computational Perspectives on the Evolution of Molecular Complexity (Speakers 20 - 26)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Dwayne Heard Ilsa Cooke Leah Dodson Marie-Aline Martin-Drumel Sergio Martin Marta Sewilo Kenji Furuya	No Chair
F4.5 Space Food and Nutrition (Speakers 1 - 11)	Simulive w/ Live Q&A	02/01/21	19:45	21:15	Naomi Katayama Naomi Katayama Yoshiaki Kitaya Kaori Tomita-Yokotani Stéphane Blanc Christina Hodadad Petra Bettberg Vienna Tran Raymond Wheeler	Naomi Katayama Yoshiaki Kitaya
H0.1 Commission H Highlight Talks (Speakers 3-6)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Meike Dist Jürgen Müller Frans R. Linkhamer Remo Buffini	No Chair



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
H0.3 Space Missions for Fundamental Physics (Speakers 1 - 8)	Simulive w/ Live Q&A	02/01/21	20:30	22:00	Dmitry Titvinov Daniel Terno Benny Bievers Océane Dhucque Ivan Di Stefano David Lucchesi Christoph Klupp Rainer Kaltenbaek	No Chair
PE.2 Current Trends, Initiatives and Research in Education and Outreach for Space Sciences (Speakers 10 - 13)	Simulive w/ Moderated text Q&A	02/01/21	19:00	20:30	Bruce Betts Marcos Voelzke Kala Perkins Fraser Lewis	No Chair
PPP.2 Planetary Protection Mission Implementation and Status (Speakers 9 - 14)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:45	María Del Rosario Anchal Moreno Ryan Hendrickson Naoko Ogawa Robert Gershman J. Andy Spry	No Chair
PPP.3 Planetary Protection Research and Development (Speakers 2, 4 + 5 - 6)	Simulive w/ Moderated text Q&A	02/01/21	19:45	20:15	Michel Viso Annamaria Romeo James Benardini	Petra Rettberg
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 1 - 8)	Simulive w/ Live Q&A	02/01/21	20:15	21:45	Deborah Airbrother Vincent Dubourg Mattias Abrahamsson Giulia Mantovani Tetsuya Yoshida João Braga Ravi Sood	Jessica Gaskin Andre Vargas
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 1 - 11)	Simulive w/ Live Q&A	02/01/21	19:00	20:30	Maria Kuznetsova Charles Arge Spiro Antiochos Martin Reiss Richard Ballows Maher A. Dayeh Valeriy Tenishev W Kent Tobiska Yuri Shprits Yiqun Yu	No Chair
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 6 - 15)	Simulive w/ Moderated text Q&A	02/01/21	20:30	21:15	Maher A. Dayeh Valeriy Tenishev W Kent Tobiska Yuri Shprits Joseph Minow Yiqun Yu Lisa Rosenqvist Jesper Ojerloev Daniel H. Mac Manus	
PSW.5 International Space Weather Action Team - a Global Network of Research Teams Targeting Improvements of Resilience to Space Weather (Speakers 17 - 21)	Simulive w/ Moderated text Q&A	02/01/21	21:15	22:00	Katariina Nykyri Wojciech Miloch Sean Bruinsma Mario M. Bisi Sophie Murray	
New aspects of the magnetospheres of Jupiter and Saturn - Session 3	Full Live	02/01/21	18:15	19:00	Michele Dougherty	

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
<b>DAY 5 - AM - Tuesday 2 February (BLOCK 1)</b>						
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 Onomura 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 Helmuth 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

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
B1.3 Results from the Exploration of the Kuiper Belt by NASA's New Horizons Mission (Speakers 11 - 13)	Simulive w/ Live Q&A	02/02/21	10:15	11:45	Anne Verbiscer Heather Elliott Andrew Poppe	Alan Stern Anne Verbiscer
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. Rusth 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 Sagardeep Biswas Soujan Ghosh Andrew Beitmann Susanna Bekker	

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
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 Kokcen 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

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
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 Ordeev 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

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
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 Diimi 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

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
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 Indrani Chatterpadhyay 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

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
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	Hiromitsu 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	



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
PSW.1 Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (Speakers 13 - 23)	Simulive w/ Moderated text Q&A	02/02/21	09:30	10:15	Manolis K. Georgoulis Christine Werbeke David Barnes Yihua Zheng Brett Carter Claudia Borries Martin Weiss Mikhail Dobynde	
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	

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
<b>DAY 5 - PM - Tuesday 2 February (BLOCK 2)</b>						
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
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 1 - 13)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	Pascale Ehrenfreund Michel Blanc Frances Westall Olivier Mousis Allona Wazan Lea Britton Helmut Hammer Bernard H. Foing Olga Prieto-Ballesteros Heike Bauer Michel Blanc Ralph McNutt Carle Pieters	
B0.3 Lunar, Mars, and Asteroid Resources (Speaker 15 - 19)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	María-Paz Zorzano Jessica Dallas Ruida Xie Ian Crawford	No Chair
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 14 - 27)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Gilles Berger Linda Spilker Naoya Ozaki	

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
B1.3 Results from the Exploration of the Kuiper Belt by NASA's New Horizons Mission (Speakers 1 - 9)	Simulive w/ Moderated text Q&A	02/02/21	19:00	20:30	William McKinnon Alan Stern Oliver White Anders Hansen Wladimir Lyra Cristina Dalle Ore Careyisse Kelsi Singer Stuart Bobbins	Randy Gladstone William McKinnon Kelsi Singer  Silvia Protopapa Oliver White Andrew Poppe
B1.3 Results from the Exploration of the Kuiper Belt by NASA's New Horizons Mission (Speakers 11 - 13)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	Anne Verbiscer Heather Elliott Andrew Poppe	Alan Stern Anne Verbiscer
B3.1 Lunar Science and Exploration (Speakers 12 - 17)	Simulive w/ Live Q&A	02/02/21	19:00	20:30	Durga Prasad Aranam Young-Jun Choi Anatoli Petrukovich Emily Law Rachel Lima Sungsoo Lim	No Chair
B3.1 Lunar Science and Exploration (Speakers 18 - 27)	Simulive w/ Moderated text Q&A	02/02/21	20:30	22:00	Sahil Bhatia Samuel Balim Frederico Francisco Anna Pederson Maria Banks Fabrizio Pirri Gavin Donibeer	No Chair
B4.4 Venus Science and Exploration (Speakers 7 - 17)	Simulive w/ Moderated text Q&A	02/02/21	21:15	22:45	Masato Nakamura Kevin McGouldrick Sanjay Imaye Hilary L. Rusth Josette Bellan Franklin Mills Sara Seager Peter Beck Graham Orrington Jeffery Ball Kevin Baines	James Cutts Colin Wilson
B4.4 Venus Science and Exploration (Speakers 19 - 26)	Simulive w/ Moderated text Q&A	02/02/21	19:45	21:15	Rohan Byrne Craig Neill Jean-Luc Margot Tibor Remic Thomas Widemann Jim Sarvin 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	19:00	20:30	Nikole Lewis Amélie Bressier George Ricker Brett Addison Sarah McIntyre Willy Benz	No Chair
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 11 - 18)	Simulive w/ Live Q&A	02/02/21	20:30	22:00	Magali Deleuil Peter Tuthill Michael Ireland Sascha Quanz Shingo Yamada	No Chair
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

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
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 Dalekas 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

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
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 Nada Al-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	

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
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 Weisskopf 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

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
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 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/ 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

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
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	



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
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	

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
<b>DAY 6 - AM - Wednesday 3 February (BLOCK 1)</b>						
A0.4 Land-Ocean-Atmosphere Interactions (Speakers 20 - 33)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Lisan Yu Tong Lee Yulia Zyulyaeva Raman Solanki Saurabh Sonwani Pallavi Saxena Robert Green Hirokazu Yamamoto	Jérôme Benveniste Severine Fournier
A3.1 Advances in Quantitative Remote Sensing and Application for Global Terrestrial Ecosystems (Speakers 28, 30, 35)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Abolfazl Abdollahi Julio Cesar Saucedo Morales Laura Brulla	
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 29 - 34)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Anthony Freeman Christina Lainaki Aurore Hutzler Eleonora Ammannito	
B3.2 Science Enabled by a Lunar Outpost (Speakers 2 - 7)	Simulive w/ Live Q&A	02/03/21	08:45	10:15	Jahnvi Shah Ian Crawford Jean-Pierre De Vera Shaopeng Huang Georgia De Nolfo	Ian Crawford
B4.5 Mercury Science and Exploration (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	02/03/21	10:15	11:45	Johannes Benkhoff Antonio Genova Manuel Scherf Shunichi Kamata Noah Maggi Alice Lucchetti Gabriele Cremonese Giovanni Lunaretto	Ralph Kahn Nicole Vilmer Johannes Benkhoff Gabriele Cremonese
B4.5 Mercury Science and Exploration (Speakers 11 - 15)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	Xianzhe Ma Go Murakami Christy Bentz Manuel Grande	Daniel Heyner
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 21 - 29)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Diego Turrini Jean-Philippe Beaulieu Jérôme Amiaux Olivier Guyon Valentin Christiaens Dominique Petit dit de la Roche Alexis Heitzmann	
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 30 - 36)	Simulive w/ Moderated text Q&A	02/03/21	09:30	11:00	Aikaterini Vandonrou Haiyang Wang Shiohira Yuta Waters Stefanie Gebauer Allona Bazan Mahesh Herath	
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 11 - 14 & 21 - 25)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Theodore Sarris David Bees David Bees Lenard Frederick Boris Savrilov Jiaojiao Zhang	

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
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 58, 59, 62, 70, 71 & 66, 67, 68, 80)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	SushilKumar MohamedShamat Tarun KumarBant MohamedShamat PatrickDoppel HaiyangFu SushilKumar SubrataKundu ArtemSmirnov	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 58, 59, 62, 70, 71 & 66, 67, 68, 80)	Simulive w/ Live Q&A	02/03/21	08:45	10:15	SushilKumar MohamedShamat Tarun KumarBant MohamedShamat PatrickDoppel HaiyangFu SushilKumar SubrataKundu ArtemSmirnov	
C2.4 Small Satellite Missions for Aeronomy and Ionosphere Studies (Speakers 6 - 9 & 11-14)	Simulive w/ Live Q&A	02/03/21	08:45	10:15	Daniel N.Baker FrederickWenk LorenChang LorenChang MartinKaufmann BernardJackson	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 18 - 25)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	AnilBhardwaj RobertEllis BeatrizSanchez-Cano YingjuanMa XianzheMa StephenEdvina	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 26 - 30 + 33)	Simulive w/ Live Q&A	02/03/21	09:30	10:15	Durga PrasadKaranam StephenEdvina ArnaudMahieux JayeshBabari Randy Gladstone	
D1.3 Pickup Ions in the Heliosphere and Beyond (Speakers 9 - 11 & 13-15)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Jacob Heerikhuisen Federico Fraternali Heather Elliott MarcKornbluth Bishwas L.Shrestha KyleBenfroe	Nikolai Pogorelov Jacob Heerikhuisen Michael A. Balikhin
D1.4 Propagation of Solar Energetic Particles in the Heliosphere (Speakers 1 - 10)	Simulive w/ Live Q&A	02/03/21	09:30	11:00	ChristinaEohen VeronicaBindi JosephBazio S. K.Goyal NicolasWijzen NariakiNitta Du ToitStrauss MengJin	Ming Zhang Frederic Effenberger Nina Dresing
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 55 - 64)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	ErikaPalmerio RichardAllows NatSopalswamy EmiliaMilpua NanditaSrivastava CamillaScolini ChenglongShen NariakiNitta ElsaSanchez-Garcia ArghyadeepBaul	Noé Lugaz Volker Bothmer

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
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 65 - 74)	Simulive w/ Moderated text Q&A	02/03/21	10:15	11:45	Sophie Murray Robert Barolim Naoto Ishizuka Mateja Dumbovic Jürgen Interreiter Kazumasa Iwai Piers Higgins Brandon Burkholder Dibyendu Nandi Ashok Kumar Singh	Noé Lugaz Volker Bothmer
D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 11 - 14 & 16-21)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Melissa Pesce-Rollins Piers Higgins Karl-Ludwig Klein Pietro Zucca Jasmina Magdalenic Immanuel Baraj Daniel Graham	Shrikanth Kanekal Nina Dresing Ming Zhang Olga Malandraki
D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 22 - 31)	Simulive w/ Moderated text Q&A	02/03/21	09:30	11:00	Angela Aran Valentina Zharkova Hong Zhao Arik Posner Kyoko Watanabe Frederic Effenberger	Ming Zhang Timo Laitinen Shrikanth Kanekal Divya Oberoi
D3.3 Non-thermal Distributions in Space Plasmas and their Role in Wave Generation, and Heating and Acceleration of Particles (Speakers 2 - 5 & 8, 24,10)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Iver Cairns Richard Sydora Jinxing Bi Joachim Schmidt Joshua Williams Sijo Sebastian Ioannis Kourakis	Ioannis Kourakis Gurbax Singh Lakhina Gurbax S. Lakhina
D3.3 Non-thermal Distributions in Space Plasmas and their Role in Wave Generation, and Heating and Acceleration of Particles (Speakers 11 - 21)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	Gurbax Singh Lakhina Jana Safrankova Muhammad Nouman Sarwar Qureshi Takayuki Omeda Tereza Durovcova Benjamin L. Alterman Benjamin L. Alterman Charlotte Goetz	Ioannis Kourakis Gurbax Singh Lakhina Gurbax S. Lakhina
D3.6 Magnetotail Dynamics and Substorms during Storm and Non-storm Time (Speakers 12, 16, 17, 18, 20)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Weiqin Sun Timo Pitkänen Yukinaga Miyashita Nataliya Nosikova Shyama Narendranath	
D3.7 Imaging of the Magnetosphere (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/03/21	09:30	11:00	Colin Waters Tianran Sun Matina Skioulidou Kazuo Shiokawa	
E1.12 LISA, the Next Window on the Universe (Speakers 1 & 3 & 6-10)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	Renate Meyer Martina Muratore Brent Ware Samuel Francis Davide Vignotto Ana Caramete Daniel Pelea	

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
E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 17 - 25)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Daniel Mazin James Madsen Csaba Balazs Elina Lindfors Ulisses Barres de Almeida Michael Daniel Natasha Burley-Walker	Tulun Ergin Pol Bordas
E1.17 The Space View of Radio Galaxies (Speakers 15 - 24)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Zheng Weimin Biagina Boccardi Alexander Tchekhovskoy Taiki Ogihara Alexander Plavin Alexander Popkov Felix Pötzl Gourab Siri	
E1.3 Astronomy from Space and the Ground: Synergies and Challenges (Speakers 13 - 14 & 16-22)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Yuta Kawakubo Kai-Kai Duan Michele Trenti Harrison Abbott Sarah Caddy Nidhal Guessoum Vishwesh Kumar	
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 20 - 30)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Hiromitsu Takahashi Hiromitsu Takahashi Fabian Kislak Matthew Baring Roberto Mignani Ilaria Diaz Kazuo Makishima Patrick Lane Matthew Baring	Fabian Kislak Matthew Baring
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 31 - 40)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	Michal Dovciak Adam Ingram Fabian Kislak Markus Boettcher Riccardo Ferrazzoli Giorgio Matt Laura Di Gesu Lente Dreyer Hester M. Schutte Vidushi Sharma	Giorgio Matt Markus Boettcher
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 11 - 21 & 24)	Simulive w/ Live Q&A	02/03/21	09:30	11:00	Gulab Chand Dewangan Neal Thomas Anuvab Banerjee Debjit Chatterjee Itumeleng Monageng David Buckley Ping Zhou Bettina Bosselt Armin Wahdat Motlagh Ryan Rhys-Griffiths	
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 25, 26 + 27 - 30)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Rupak Roy Yuri Kovalev Jorge Casares Leonid Survits	

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
E2.4 New Views on the Solar Magnetic Atmosphere (Speakers 7 - 12 & 14 - 18)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	David Kuridze Yihua Fan Charles Arge Cooper Downs Shaella Barnes David Pontin Piyali Chatterjee Patrick Antolin Andrei Zhukov Yoshinori Suematsu Alpha Mastrano	Anna Malanushenko
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 27 - 35)	Simulive w/ Live Q&A	02/03/21	08:45	10:15	Livio Narici Albana Topi Melanie Ferlazzo Helena Van der Merwe Anatoly Bozenfeld Salman Chakraborty Timothy Squire Amir Bahadori	Mark Hill Livio Narici
F2.3 Space Radiation: Dosimetric Measurements and Related Models, Radiation Detector Developments and their Ground-Based Characterization (Speakers 10 - 12)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Mikhail Dobynde Stefania Peracchi Linhtuan	
F3.2 Astrobiology: Laboratory Experiments, Field Studies in Analogue Environments and Space Experiments in Low Earth Orbit (Speaker 1-8 + 12)	Simulive w/ Moderated text Q&A	02/03/21	08:45	09:30	Kensei Kobayashi Olivia Blenner-Hassett Petra Schwendner Akihiko Yamagishi Marta Cortesao	
F3.4 Biosignatures and Biomarkers--Searching for Traces of Prebiotic Organic Compounds or Forms of Past or Present Life in the Solar System (Speakers 4, 5, 11 & 6-9)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Grzegorz Slowik Ilya Digel Kathleen Craft Yoshitaka Yoshimura Catheryn Ryan Kathleen Craft Satoshi Sasaki	Michel Viso Petra Rettberg
H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 15 - 18 & 20 - 23)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Claus Emmertz Manuel Schilling Ummi Abbas Daniele Dequal David Lucchesi Wen-Bin Shen	Roberto Peron Jürgen Müller
H0.6 Enabling Technologies for Fundamental Physics Experiments and Missions (Speakers 3 - 13)	Simulive w/ Live Q&A	02/03/21	09:30	11:00	Peter Stromberger Hauke Müntinga Michael Elsen Timmy Wegehaupt Vitali Müller Andrew Wade Andrea Cesarini Suwen Wang Paul Sibley	Sven Herrmann

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
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 13 - 21 & 23 - 27)	Simulive w/ Moderated text Q&A	02/03/21	08:00	09:30	Thomas Schildknecht Vassilis Karmanavis Benedikt Reihls Kyle DeMars Harish Kumar Sellamuthu Akilanda Mathiazhagan Florent Deleflie Yehia A. Abdel-Aziz Gabriel Sutherland	Kyle DeMars Thomas Schildknecht Carmen Pardini Florent Deleflie
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 29 & 33)	Simulive w/ Moderated text Q&A	02/03/21	09:30	11:00	Carmen Pardini Lorenz Böttcher	Florent Deleflie Carmen Pardini
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 30 - 41)	Simulive w/ Moderated text Q&A	02/03/21	08:45	10:15	Sandip Kumar Chakrabarti Ritabrata Sarkar Julian Rodriguez-Ferreira Siddharth Krishnamoorthy Xiaoyan Zhou Jens Söder Sohsuke Ohno	Debora Fairbrother Mattias Abrahamsson
PSW.3 Nowcast and Forecast on Ionospheric Indices and Related Scales for Space Weather Services (Speakers 1+2 & 7 - 11)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Robert Steenburgh Claudia Borries Norbert Jakowski Michi Nishioka Pierre Gilliers Peter Stauning	Tim Fuller-Rowell Norbert Jakowski
S.1 You are COSPAR! (Speakers 1 - 3)	Simulive w/ Live Q&A	02/03/21	08:00	09:30	Jean-Louis Fellous Jean-Claude Worms Alissa J. Haddaji	
Radiobiology, Radiation, and Why They Matter for Space Research and Exploration - Session 1	Full Live	02/03/21	07:15	08:00	Francis A. Cucinotta	

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
<b>DAY 6 - PM - Wednesday 3 February (BLOCK 2)</b>						
A0.4 Land-Ocean-Atmosphere Interactions (Speakers 20 - 33)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Lisan Yu Tong Lee Yulia Zulyaeva Raman Solanki Saurabh Sonwani Pallavi Saxena Robert Green Hirokazu Yamamoto	Jérôme Benveniste Severine Fournier
A3.1 Advances in Quantitative Remote Sensing and Application for Global Terrestrial Ecosystems (Speakers 28, 30, 35)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Abolfazl Abdollahi Julio Cesar Saucedo Morales Laura Brulla	
B0.7 Planetary Exploration, Horizon 2061: Report to COSPAR and Discussion (Speakers 29 - 34)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Anthony Freeman Christina Lainaki Aurore Hutzler Eleonora Ammannito	
B3.2 Science Enabled by a Lunar Outpost (Speakers 2 - 7)	Simulive w/ Live Q&A	02/03/21	19:45	21:15	Jahnvi Shah Ian Crawford Jean-Pierre De Vera Shaopeng Huang Georgia De Nolfo	Ian Crawford
B4.5 Mercury Science and Exploration (Speakers 1 - 10)	Simulive w/ Live Q&A	02/03/21	21:15	22:45	Johannes Benkhoff Antonio Genova Manuel Scherf Shunichi Yamata Noah Maggi Alice Lucchetti Gabriele Cremonese Giovanni Lunaretto	Ralph Kahn Nicole Vilmer Johannes Benkhoff Gabriele Cremonese
B4.5 Mercury Science and Exploration (Speakers 11 - 15)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Xianzhen Gao Go Murakami Christy Bentz Manuel Grande	Daniel Heyner
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 21 - 29)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Diego Turrini Jean-Philippe Beaulieu Jérôme Amiaux Olivier Guyon Valentin Christiaens Dominique Petit dit de la Roche Alexis Heitzmann	
B6.1 Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System (Speakers 30 - 36)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Aikaterini Vandonrou Haiyang Wang Shiohira Yuta Waters Stefanie Gebauer Allona Bazan Mahesh Herath	
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 11 - 14 & 21 - 25)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Theodore Sarris David Bees David Bees Lenard Frederick Boris Savrilov Jiaojiao Zhang	



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
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@hat Ajith@K Fan@ang Stanislav@azykin Chaosong@uang Swati@howdhury	
C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies (Speaker 58, 59, 62, 70, 71 & 66, 67, 68, 80)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Sushil@kumar Mohamed@shamat Tarun Kumar@ant Mohamed@shamat Patrick@oppel Haiyang@u Sushil@kumar Subrata@undu Artem@smirnov	
C2.4 Small Satellite Missions for Aeronomy and Ionosphere Studies (Speakers 6 - 9 & 11-14)	Simulive w/ Live Q&A	02/03/21	19:45	21:15	Daniel N.@baker Frederick@menk Loren@hang Loren@hang Martin@aufmann Bernard@ackson	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 18 - 25)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Anil@bhardwaj Robert@illis Beatriz@sanchez-cano Yingjuan@va Xianzhe@ia Stephen@edvina	
C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres (Speakers 26 - 30 + 33)	Simulive w/ Moderated text Q&A	02/03/21	20:30	21:15	Durga Prasad@aranam Stephen@edvina Arnaud@mahieux Jayesh@abari Randy Gladstone	
D1.3 Pickup Ions in the Heliosphere and Beyond (Speakers 9 - 15)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Jacob Heerikhuisen Federico Fraternal Heather Elliott Marc@ornbleuth Bishwas L.@shrestha Kyle@enfroe	Nikolai Pogorelov Jacob Heerikhuisen Michael A. Balikhin
D1.4 Propagation of Solar Energetic Particles in the Heliosphere (Speakers 1 - 10)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Christina@ohen Veronica@indi Joseph@azio S. K.@oyal Nicolas@wijsen Nariaki@itta Du Toit@trauss Meng@in	Ming Zhang Frederic Effenberger Nina Dresing
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 55 - 64)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Erika@palmerio Richard@allows Nat@opalswamy Emilia@ilpua Nandita@rivastava Camilla@colini Chenglong@shen Nariaki@itta Elsa@sanchez-garcia Arghyadeep@aul	Noé Lugaz Volker Bothmer

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
D2.4 Sun-Heliosphere Connection Events: Origin, Propagation, Impact and Prediction (Speakers 65 - 74)	Simulive w/ Live Q&A	02/03/21	21:15	22:45	Sophie Murray Robert Barolim Naoto Ishizuka Mateja Dumbovic Jürgen Hinterreiter Kazumasa Iwai Piers Higgins Brandon Burkholder Dibyendu Nandi Ashok Kumar Singh	Noé Lugaz Volker Bothmer
D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 11 - 14 & 16-21)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Melissa Pesce-Rollins Piers Higgins Karl-Ludwig Klein Pietro Zucca Jasmina Magdalenic Immanuel Baraj Daniel Graham	Shrikanth Kanekal Nina Dresing Ming Zhang Olga Malandraki
D2.5 Nonthermal Particles in the Inner Heliosphere: Origin and Consequences (Speakers 22 - 31)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Angela Aran Valentina Zharkova Hong Zhao Arik Posner Kyoko Watanabe Frederic Effenberger	Ming Zhang Timo Laitinen Shrikanth Kanekal Divya Oberoi
D3.3 Non-thermal Distributions in Space Plasmas and their Role in Wave Generation, and Heating and Acceleration of Particles (Speakers 2 - 5 & 8, 24,10)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Iver Cairns Richard Sydora Jinxing Bi Joachim Schmidt Joshua Williams Sijo Sebastian Ioannis Kourakis	Ioannis Kourakis Gurbax Singh Lakhina Gurbax S. Lakhina
D3.3 Non-thermal Distributions in Space Plasmas and their Role in Wave Generation, and Heating and Acceleration of Particles (Speakers 11 - 21)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Gurbax Singh Lakhina Jana Safrankova Muhammad Nouman Sarwar Qureshi Takayuki Omeda Tereza Durovcova Benjamin L. Alterman Benjamin L. Alterman Charlotte Goetz	Ioannis Kourakis Gurbax Singh Lakhina Gurbax S. Lakhina
D3.6 Magnetotail Dynamics and Substorms during Storm and Non-storm Time (Speakers 12, 16, 17, 18, 20)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Weiqin Sun Timo Pitkänen Yukinaga Miyashita Nataliya Nosikova Shyama Narendranath	
D3.7 Imaging of the Magnetosphere (Speakers 1 - 8)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Colin Waters Tianran Sun Matina Skioulidou Kazuo Shiokawa	
E1.12 LISA, the Next Window on the Universe (Speakers 1 & 3 & 6-10)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Renate Meyer Martina Muratore Brent Ware Samuel Francis Davide Vignotto Ana Caramete Daniel Pelea	

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
E1.15 Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe (Speaker 17 - 25)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Daniel Mazin James Madsen Csaba Balazs Elina Lindfors Ulisses Barres de Almeida Michael Daniel Natasha Burley-Walker	Tulun Ergin Pol Bordas
E1.17 The Space View of Radio Galaxies (Speakers 15 - 24)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Zheng Weimin Biagina Boccardi Alexander Tchekhovskoy Taiki Ogihara Alexander Plavin Alexander Popkov Felix Pötzl Gourab Giri	
E1.3 Astronomy from Space and the Ground: Synergies and Challenges (Speakers 13 - 14 & 16-22)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Yuta Kawakubo Kai-Kai Duan Michele Trenti Harrison Abbott Sarah Caddy Nidhal Guessoum Vishwesh Kumar	
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 20 - 30)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Hiromitsu Takahashi Hiromitsu Takahashi Fabian Kislat Matthew Baring Roberto Mignani Ilaria Diaz Kazuo Makishima Patrick Lane Matthew Baring	Fabian Kislat Matthew Baring
E1.7 Observations and Prospects for X-ray Polarimetry (Speakers 31 - 40)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Michal Dovciak Adam Ingram Fabian Kislat Markus Boettcher Riccardo Ferrazzoli Giorgio Matt Laura Di Gesu Lente Dreyer Hester M. Schutte Vidushi Sharma	Giorgio Matt Markus Boettcher
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 11 - 21 & 24)	Simulive w/ Live Q&A	02/03/21	20:30	22:00	Gulab Chand Dewangan Neal Thomas Anuvab Banerjee Debjit Chatterjee Itumeleng Monageng David Buckley Ping Zhou Bettina Bosselt Armin Wahdat Motlagh Ryan Rhys-Griffiths	
E1.9 Multi Wavelength Studies of Compact Objects - into the 21st Century (Speakers 25, 26 + 27 - 30)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Rupak Roy Yuri Kovalev Jorge Casares Leonid Survits	

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
E2.4 New Views on the Solar Magnetic Atmosphere (Speakers 7 - 12 & 14 - 18)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	David Kuridze Yihua Fan Charles Arge Cooper Downs Shaela Barnes David Pontin Piyali Chatterjee Patrick Antolin Andrei Zhukov Yoshinori Suematsu Alpha Mastrano	Anna Malanushenko
F2.2 Space Radiation Risk, Quality of Radiation and Countermeasures: Physical and Biophysical Mechanisms, Modelling and Simulations (Speakers 27 - 35)	Simulive w/ Live Q&A	02/03/21	19:45	21:15	Livio Narici Albana Topi Melanie Ferlazzo Helena Van der Merwe Anatoly Bozenfeld Salman Chakraborty Timothy Squire Amir Bahadori	Mark Hill Livio Narici
F2.3 Space Radiation: Dosimetric Measurements and Related Models, Radiation Detector Developments and their Ground-Based Characterization (Speakers 10 - 12)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Mikhail Dobynde Stefania Peracchi Lin Tran	
F3.2 Astrobiology: Laboratory Experiments, Field Studies in Analogue Environments and Space Experiments in Low Earth Orbit (Speaker 1-8 + 12)	Simulive w/ Moderated text Q&A	02/03/21	19:45	21:15	Kensei Kobayashi Olivia Blenner-Hassett Petra Schwendner Akihiko Yamagishi Marta Cortesao	
F3.4 Biosignatures and Biomarkers--Searching for Traces of Prebiotic Organic Compounds or Forms of Past or Present Life in the Solar System (Speakers 4, 5, 11 & 6-9)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Grzegorz Slowik Ilya Digel Kathleen Craft Yoshitaka Yoshimura Catheryn Ryan Kathleen Craft Satoshi Sasaki	Michel Viso Petra Rettberg
H0.5 Applications (Geodesy, Metrology, Navigation, and Others) (Speakers 15 - 18 & 20 - 22)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Claus Emmertzahl Manuel Schilling Ummal Abbas Daniele Dequal David Lucchesi	Roberto Peron Jürgen Müller
H0.6 Enabling Technologies for Fundamental Physics Experiments and Missions (Speakers 3 - 13)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Peter Stromberger Hauke Müntinga Michael Elsen Timm Wegehaupt Vitali Müller Andrew Wade Andrea Cesarini Suwen Wang Paul Sibley	Sven Herrmann
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 13 - 21 & 23 - 27)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Thomas Schildknecht Vassilis Karmanavis Benedikt Beihls Kyle DeMars Harish Kumar Sellamuthu Akilani Mathiazhagan Florent Deleflie Yehia A. Abdel-Aziz Gabriel Sutherland	Kyle DeMars Thomas Schildknecht Carmen Pardini Florent Deleflie

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
PEDAS.1 The Science of Human-Made Objects in Orbit: Space Debris and Sustainable Use of Space (Speakers 29 & 33)	Simulive w/ Moderated text Q&A	02/03/21	20:30	22:00	Carmen Pardini Lorenz Böttcher	Florent Deleflie Carmen Pardini
PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation (Speakers 30, 31, 35, 36 - 40)	Simulive w/ Live Q&A	02/03/21	19:45	21:15	Sandip Kumar Chakrabarti Ritabrata Sarkar Julian Rodriguez-Ferreira Siddharth Krishnamoorthy Xiaoyan Zhou Jens Söder Sohsuke Ohno	Debora Fairbrother Mattias Abrahamsson
PSW.3 Nowcast and Forecast on Ionospheric Indices and Related Scales for Space Weather Services (Speakers 1+2 & 7 - 11)	Simulive w/ Live Q&A	02/03/21	19:00	20:30	Robert Steenburgh Claudia Borries Norbert Jakowski Michi Nishioka Pierre Gilliers Peter Stauning	Tim Fuller-Rowell Norbert Jakowski
S.1 You are COSPAR! (Speakers 1 - 3)	Simulive w/ Moderated text Q&A	02/03/21	19:00	20:30	Jean-Louis Fellous Jean-Claude Worms Alissa J. Haddaji	
Radiobiology, Radiation, and Why They Matter for Space Research and Exploration - Session 2 (on demand)	Full Live	02/03/21	18:15	19:00	Francis A. Cucinotta	