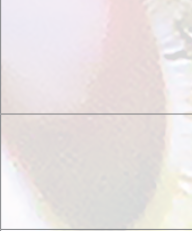
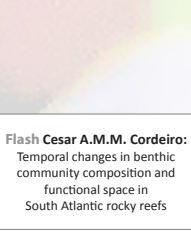
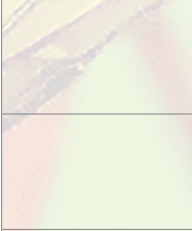
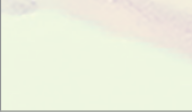
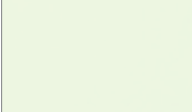
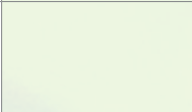


UTC+10 Sydney, Melbourne	UTC+8 Beijing, Manila, Perth	UTC-7 Vancouver, San Francisco	UTC-4 New York, La Paz	GMT+2 Leipzig, Paris, Rome	Event	Session 1: Ecosystem Functions Chairs: Pedro J. Leitão	Session 2: Ecosystem Services Chairs: Ilse Geijzenдорffer, Maria Vallejos & Odinilwe Selomane	Session 3: Ecosystem Structure Chairs: Gary Geller, Ilaria Palumbo & Brian O'Connor	Session 4: Community Composition Chairs: Simon Ferrier & Wilfried Thuiller	Session 5: Species Populations Chairs: Melodie Mc Geoch & Walter Jetz	Session 6: Species Traits Chairs: Jens Kattge & Mark Costello	Session 7: Genetic Composition Chairs: Anna MacDonald, Margaret Hunter & Sean Hoban	GMT+2 Leipzig, Paris, Rome			
15:00-16:00	13:00-14:00	22:00-23:00	1:00-2:00	7:00-8:00	Mixer: Chat with other participants with a coffee, tea, beer, wine or cocktail depending on your tastes and/or time zone								7:00-8:00			
16:00-16:15	14:00-14:15	23:00-23:15	2:00-2:15	8:00-8:15	OSC1 – Working Groups: EBV classes & EESVs			ORAL Brian O'Connor: Session Introduction	ORAL Lim, Po Teen: Exploring the Diversity of Zooxanthellae associated with Corals of Perhentian Island Marine Park by Deep Sequencing Approach	INTRO Melodie Mc Geoch: Session Introduction			INTRO Anna J. MacDonald: Session Introduction	8:00-8:15		
16:15-16:30	14:15-14:30	23:15-23:30	2:15-2:30	8:15-8:30				ORAL Babak Naimi: Monitoring the relative magnitude of fragmentation (RMF) at a global scale	ORAL Dominique Pelletier: Assessment of coastal fish communities and benthic habitats using unbaited underwater video: from data collection to EBV data products	ORAL Alice Hughes: Asking the right question with the right data			ORAL Anna MacDonald: Genomic resources for Australian mammal conservation: The Oz Mammals Genomics Initiative	8:15-8:30		
16:30-16:45	14:30-14:45	23:30-23:45	2:30-2:45	8:30-8:45		INTRO Session introduction			ORAL Franziska Taubert: Global patterns of tropical forest fragmentation	ORAL Ute Schmiedel: Seasonal climate and game density drive life-form composition in the southern Kalahari – results of 15 years of vegetation monitoring	ORAL Eduardo Arlé: bRacatus: an R package to estimate the accuracy and the biogeographical status of georeferenced biological data			ORAL Catherine Grueber: A global meta-analysis of genetic change in natural populations	8:30-8:45	
16:45-16:50	14:45-14:50	23:45-23:50	2:45-2:50	8:45-8:50		ORAL Hedley Grantham: Measuring the integrity of forests globally			ORAL Michiel van Eupen: Essential Biodiversity Variable Fragmentation	Flash Maria Virginia Boiani: Climate change and long-term modifications of fine-scale butterfly assemblages in the Western Italian Alps	ORAL Conor Waldock: Spatial modelling of abundance for estimates of biodiversity, ecosystem function and services			ORAL Libby Liggins: The Ira Moana Project: enabling stewardship of marine genetic data at a national scale	8:45-9:00	
16:50-17:00	14:50-15:00	23:50-0:00	2:50-3:00	8:50-9:00												
17:00-17:15	15:00-15:15	0:00-0:15	3:00-3:15	9:00-9:15		ORAL Andreas Huth: The dynamics of the Amazon forests and the role of forest structure – linking vegetation modelling and remote sensing			ORAL Stephan Hennekens: NextGEOS's web -based community portal for European habitat suitability modelling for monitoring biodiversity using in situ vegetation plot data and RS-enabled EBVs			DISC. Questions & discussion			ORAL Cristiano Vernesi: G-BIKE (Genomic Biodiversity Knowledge for resilient Ecosystems) networks: rationale and activities	9:00-9:15
17:15-17:30	15:15-15:30	0:15-0:30	3:15-3:30	9:15-9:30		ORAL Jasper Slingsby: Using near-term ecological forecasting of satellite data to link traits, communities and ecosystem function			ORAL Nikolai Knapp: Structure metrics to generalize biomass estimation from lidar across forest types from different continents					PANEL General discussion / Panel	9:15-9:30	
17:30-18:00	15:30-16:00	0:30-1:00	3:30-4:00	9:30-10:00		Coffee break								9:30-10:00		

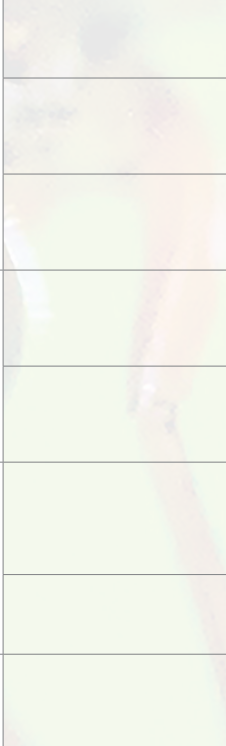
19:05-19:10	17:05-17:10	2:05-2:10	5:05-5:10	11:05-11:10			a Rare North American Symbol: The Case for Open Access Citizen Science and Herbarium		11:05-11:10	
19:10-19:15	17:10-17:15	2:10-2:15	5:10-5:15	11:10-11:15				DISC. Questions & discussion		11:10-11:15
9:15-9:20	17:15-17:20	2:15-2:20	5:15-5:20	11:15-11:20						11:15-11:20
21:00-21:30	19:00-19:30	4:00-4:30	7:00-7:30	13:00-13:30	Key-note 1 Policy needs	David Cooper Anne Larigauderie IPBES: Science and Evidence for Biodiversity Policy and Action				13:00-13:30
21:30-22:00	19:30-20:00	4:30-5:00	7:30-8:00	13:30-14:00		Discussion				13:30-14:00
22:00-23:30	20:00-21:30	5:00-6:30	8:00-9:30	14:00-15:30	Opening	Henrique Pereira Mike Gill				14:00-15:30

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23:30-23:35	21:30-21:35	6:30-6:35	9:30-9:35	15:30-15:35	OSC2 – Working Groups: EBV classes & EESVs		ORAL Jan Schäger: Mapping Global Protected Areas' Ecosystem Service Values by Benefit Transfer: A Review and Application of Available Methods	ORAL Gary Geller: Session Introduction		INTRO Walter Jetz: Introduction: Essential Variables for Species Populations		ORAL Maggie E. Hunter & Sean Hoban: Session Introduction	15:30-15:35
23:35-23:40	21:35-21:40	6:35-6:40	9:35-9:40	15:35-15:40									15:35-15:40
23:40-23:45	21:40-21:45	6:40-6:45	9:40-9:45	15:40-15:45									15:40-15:45
23:45-0:00	21:45-22:00	6:45-7:00	9:45-10:00	15:45-16:00			ORAL Angela Lomba: Rethinking the future of the socioecological systems underlying high nature value farmlands	ORAL Gary Geller: GEO BON's Ecosystem Structure Essential Biodiversity Variables Are Complete: Here's what they look like and why	ORAL Guangming Zheng: Discriminating diatom and non-diatom phytoplankton from space	ORAL Charles Marsh: Predicting the global distributions of bats, a critical source of zoonoses: taxonomic and regional data gaps		ORAL Maggie E. Hunter: Developing Essential Biodiversity Variables (EBVs) for the GEO BON Genetic Composition Working Group	15:45-16:00
0:00-0:15	22:00-22:15	7:00-7:15	10:00-10:15	16:00-16:15			ORAL Maria Vallejos: An expert-based reference list of variables for characterizing and monitoring social-ecological systems	ORAL Carsten Meyer: Global Data On The Annual Extents Of 69 Terrestrial, Marine, And Freshwater Ecosystem Types Over Three Decades	ORAL Enrique Montes: Optimizing large-scale biodiversity sampling effort: towards an asymmetric and unbalanced data collection approach	ORAL Naomi S. Bates: Bioacoustics monitoring across multiple ecosystems in biodiversity hot spots		ORAL David O'Brien: Developing a method to assess genetic diversity – the Scottish approach	16:00-16:15
0:15-0:30	22:15-22:30	7:15-7:30	10:15-10:30	16:15-16:30		ORAL Jeannine Cavender-Bares: Developing remotely sensed indicators for tree disease	ORAL Arjan Gosal: Landscape aesthetics spatial modelling and mapping	ORAL Roger G. Sayre: A New Map of World Terrestrial Ecosystems at 250 m – Ecosystem Extent Data for the Planet	ORAL Aaron W. Aunins: Assessment of eDNA as a biodiversity tool for vulnerable deep-sea habitats	ORAL Mary E. Blair: Expanding Wallace species distribution modeling software as a BON in a Box tool for national BON assessment and reporting		ORAL Andrew Gonzalez: Detection and attribution of animal genetic diversity change across scales and taxa: from micro to macroscopic patterns	16:15-16:30
0:30-0:45	22:30-22:45	7:30-7:45	10:30-10:45	16:30-16:45		ORAL Lina M. Estupinan-Suarez: Bridging Earth science and biodiversity with the regional Earth System Data Lab for Northern South America	ORAL Lingling Liu: Ecosystem Functional Diversity – A promising EBV in Ecosystem Service Models	ORAL Koma Zsófia: Reconstructing the fine-scale habitat structure of wetlands for biodiversity science and ecosystem mapping	ORAL Mitchell Rider: Evaluating the use of underwater passive acoustics for assessing soundscape diversity	ORAL Chloé Orland: Recovering the critically endangered black abalone using environmental genomics		ORAL Ivan Paz-Vinas: Pitfalls and best practices when estimating wildlife genetic diversity in macro- genetic studies	16:30-16:45
0:45-1:00	22:45-23:00	7:45-8:00	10:45-11:00	16:45-17:00		ORAL Jaime Burbano Girón: Identification of ecosystem functional types in tropical drylands: a functional outlook for monitoring EBVs	ORAL Felipe Benra: Evaluating predictions of the INVEST seasonal water yield model	ORAL Maria Teresa Kavanaugh: Dynamic Seascape Metrics as Essential Biodiversity Variables: quantifying habitat extent and diversity for the global ocean		ORAL Malin Pinsky: Species on the Move in the Ocean: Monitoring and Indicators to Inform Policy		PANEL General discussion / Panel	16:45-17:00
1:00-1:30	23:00-23:30	8:00-8:30	11:00-11:30	17:00-17:30	Coffee break								17:00-17:30
1:30-1:45	23:30-23:45	8:30-8:45	11:30-11:45	17:30-17:45		ORAL Howard Epstein: Assessing Ecosystem Functional Diversity in the Circumpolar Arctic Tundra Using Seasonal Dynamics of MODIS NDVI	ORAL Michael Elias Mgalula: Characterizing habitats and species types at fine spatial scales in the Southern Highland landscapes of Tanzania: implications on ecosystem services	ORAL Oluwatobi Emmanuel Olaniyi: Identifying prioritized forest patches for wildlife connectivity in two urban wetlands of Peninsular Malaysia using dual-stage landscape patches' prioritization approach	ORAL Kevin Leempoel: DNA collected from environmental samples reveals the diversity of extant mammals in a suburban reserve in California	ORAL Jon Paul Rodriguez: Reverse the Red: Building National Collaborations to Save Species		ORAL Robert Ekblom: Conservation monitoring of genetic variation and management of the Scandinavian wolverine population	17:30-17:45

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OSC – Working Groups: EBV classes & EESVs	1:45-2:00	23:45-0:00	8:45-9:00	11:45-12:00	17:45-18:00		ORAL Domingo Alcaraz-Segura: Incorporating ecosystem functional diversity into geographic conservation priorities using remotely-sensed Ecosystem Functional Types	ORAL Ralph Adeyinka Adewoye: Monitoring four decades of dynamic changes in Lake Chad Ecosystems with Google Earth Engine	ORAL Patrick A. Jantz: Mapping Vegetation Structure Gradients in Colombia	ORAL Jose Camilo Fagua: Mapping tree diversity in the tropical forest region of Chocó-Colombia	ORAL Adrian Regos: Incorporating remotely sensed ecosystem functional attributes into species distribution models to support biodiversity monitoring	ORAL Roberto O. Cházvez: Towards an integrated land-surface-phenology monitoring system for Chile: advances on remote sensing based platforms and Phenocam field network	ORAL Eric Darvish Crandall: Building a Global Genomics Observatory: using GEOME (the Genomic Observatories Metadatabase) to expedite and improve deposition and retrieval of genetic data and metadata for biodiversity research	17:45-18:00
	2:00-2:05	0:00-0:05	9:00-9:05	12:00-12:05	18:00-18:05		ORAL Salvador Arenas-Castro: Assessing the role of ecosystem functioning and dynamics to support model-assisted monitoring of biodiversity	FLASH Jonna Heuschele: Use and supply of cultural ecosystem services in Bavarian Forest National Park			ORAL Ruth Oliver: National trends in closing spatiotemporal biodiversity knowledge gaps via complementary data types	ORAL Anton P. Van de Putte: The register of Antarctic (Marine) Species	ORAL Francine Kershaw: Using “geospatial genetics” to support global marine biodiversity monitoring and conservation	18:00-18:05
	2:05-2:10	0:05-0:10	9:05-9:10	12:05-12:10	18:05-18:10	18:05-18:10								
	2:10-2:15	0:10-0:15	9:10-9:15	12:10-12:15	18:10-18:15			FLASH Anne-Julie Rochette: African Man and Biosphere Reserves: guidance to assess ecosystem services. A manual for African BR managers		18:10-18:15				
	2:15-2:20	0:15-0:20	9:15-9:20	12:15-12:20	18:15-18:20		ORAL Bruno Smets: Copernicus new 10 m Vegetation Phenology to monitor ecosystems			ORAL Jose Camilo Fagua: A new approach using species accumulation curves to estimate robust absence records for species distribution modeling	ORAL Jens Kattge: Addressing intra-specific variation of plant traits	ORAL Laura D. Bertola: Using climate data to gain insight into community-level adaptive genomics in the Atlantic Forest, Brazil	18:15-18:20	
	2:20-2:25	0:20-0:25	9:20-9:25	12:20-12:25	18:20-18:25	18:20-18:25								
	2:25-2:30	0:25-0:30	9:25-9:30	12:25-12:30	18:25-18:30		DISC. Session discussion						18:25-18:30	
	2:30-2:45	0:30-0:45	9:30-9:45	12:30-12:45	18:30-18:45					ORAL Charles van Rees: Invasive Species Management Needs Technological Integration	ORAL Cecilia Masemola: The utility of radiative transfer models derived leaf and canopy traits to assess the response of invasive alien species versus native trees to drought in the semi-arid grassland, South Africa	PANEL General discussion / Panel	18:30-18:45	
	2:45-3:00	0:45-1:00	9:45-10:00	12:45-13:00	18:45-19:00					DISC. Questions & discussion	FLASH Leon T. Hauser: Linking in-situ and space-borne observations to study spatial plant functional diversity patterns		18:45-19:00	
	3:00-4:00	1:00-2:00	10:00-11:00	13:00-15:00	19:00-20:00	GEO BON OSC / iNaturalist project launch	Scott Loarie							
4:00-5:00	2:00-3:00	11:00-12:00	14:00-15:00	20:00-21:00		Mixer								20:00-21:00

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15:00-16:00	13:00-14:00	22:00-23:00	1:00-2:00	7:00-8:00		Mixer						7:00-8:00
16:00-16:05	14:00-14:05	23:00-23:05	2:00-2:05	8:00-8:05	OSC3 – BONs & TFs: Freshwater, marine, soil BONs & national / regional BONs, BON Development and Task Forces			INTRO Petteri Vihervaara: Introduction to Joint morning session			INTRO Nicolas Coops & Andrew Skidmore: Session introduction	8:00-8:05
16:05-16:15	14:05-14:15	23:05-23:15	2:05-2:15	8:05-8:15				ORAL Andrew Luke Skowno: South Africa's biodiversity monitoring strategy and the development of South Africa BON			ORAL Claudia Röösl: RS-enabled EBV Road Map	8:05-8:15
16:15-16:20	14:15-14:20	23:15-23:20	2:15-2:20	8:15-8:20					ORAL Yun Cao: Creating the pathways towards biodiversity conservation for transformative change in China			8:15-8:20
16:20-16:30	14:20-14:30	23:20-23:30	2:20-2:30	8:20-8:30				ORAL Hiroyuki Muraoka: The Asia-Pacific Biodiversity Observation Network: 10-year achievements and new strategies to 2030			ORAL Duccio Rocchini: rasterdiv – an Information Theory tailored R package for measuring diversity from space	8:20-8:30
16:30-16:35	14:30-14:35	23:30-23:35	2:30-2:35	8:30-8:35		INTRO Session introduction			ORAL Karla E. Locher Krause: EKLIPSE – The European Science-Policy- Society Interface on Biodiversity and Ecosystem Services			8:30-8:35
16:35-16:45	14:35-14:45	23:35-23:45	2:35-2:45	8:35-8:45				ORAL Peter Kullberg: Towards the network of national biodiversity observatories – the Finnish Ecosystem Observatory			ORAL Gary Geller: Why CEOS Is Important to GEO BON: The CEOS Biodiversity Activity	8:35-8:45
16:45-16:50	14:45-14:50	23:45-23:50	2:45-2:50	8:45-8:50		ORAL Eren Turak: The place of freshwater reptile monitoring in global assessments of freshwater biodiversity			ORAL Dandan Yu: How Spatial Data Inform Actionable National Policies			8:45-8:50
16:50-17:00	14:50-15:00	23:50-0:00	2:50-3:00	8:50-9:00				ORAL Carlos Guerra: SoilBON: A vision for a global soil biodiversity observation network			ORAL Vardis Tsontos: CEOS Ocean Variable Enabling Research & Applications for GEO (COVERAGE): A Prototype Big Data Platform for Integrated Access to Interagency Environmental and Biological Data in Support of MBON	8:50-9:00
17:00-17:05	15:00-15:05	0:00-0:05	3:00-3:05	9:00-9:05		ORAL Mojgan Zare Shahraki: The structure of fish and macroinvertebrate communities in the Karun River system, Iran			ORAL Mariona Roige: Are Global Indicators Adequate for Monitoring Invasive Alien Species Targets?			9:00-9:05
17:05-17:15	15:05-15:15	0:05-0:15	3:05-3:15	9:05-9:15							ORAL Norbert Jürgens: The regional SASSCAL Biodiversity Observation Network in Southern Africa	9:05-9:15
17:15-17:20	15:15-15:20	0:15-0:20	3:15-3:20	9:15-9:20		Break – We encourage attending the panel discussion of Joint Session 3: BON Development + Arctic BON + Asia- Pacific BON + Americas BON			ORAL Haigen Xu: Effective implementation of global biodiversity targets			9:15-9:20
17:20-17:25	15:20-15:25	0:20-0:25	3:20-3:25	9:20-9:25							ORAL Kim-Jana Stückemann: Mapping Costa Rica's (semi-)natural vegetation using multisensor temporal metrics	9:20-9:25
17:25-17:30	15:25-15:30	0:25-0:30	3:25-3:30	9:25-9:30							ORAL Nicolas Coops & Andrew Skidmore: Thoughts on first session	9:25-9:30
17:30-18:00	15:30-16:00	0:30-1:00	3:30-4:00	9:30-10:00		Coffee break						9:30-10:00

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18:00-18:05	16:00-16:05	1:00-1:05	4:00-4:05	10:00-10:05	OSC3 – BONs & TFS: Freshwater, marine, soil BONs & national / regional BONs, BON Development and Task Forces	ORAL Heidi DeVenter: Remote sensing of lacustrine and palustrine wetlands under climate change in the Grassland Biome of South Africa		ORAL Pier Luigi Buttigieg: Implementing an Omic Biodiversity Observation Network (Omic BON)		INTRO Session introduction	ORAL César de Sá: Exploring the limitations of machine learning inversion of PROSAIL radiative transfer modelling for biophysical trait retrieval from Sentinel-2	10:00-10:05
18:05-18:15	16:05-16:15	1:05-1:15	4:05-4:15	10:05-10:15						ORAL Quentin Groom: Rapid mobilization of evidence to improve decision-making on invasive species		10:05-10:15
18:15-18:20	16:15-16:20	1:15-1:20	4:15-4:20	10:15-10:20		ORAL Aventino Kasangaki: The link between human activities, water quality and benthic macro-invertebrates in the headwaters of Lake Edward Basin, Uganda: Management lessons		PANEL Petteri Vihervaara: Panel discussion			ORAL Roberto O. Chávez: A first spectral library and phylogeny of Chilean native forests species: basis for biodiversity mapping using airborne hyperspectral and LIDAR imagery	10:15-10:20
18:20-18:30	16:20-16:30	1:20-1:30	4:20-4:30	10:20-10:30						ORAL Hann Seebens: Making more out of it: The SinAS workflow for standardising and integrating databases in invasion ecology		10:20-10:30
18:30-18:35	16:30-16:35	1:30-1:35	4:30-4:35	10:30-10:35		ORAL Bibek Raj Shrestha: Hatch of Hope? Survival Estimate and Habitat Association of Re-introduced Critically Endangered Royal Turtle of Cambodia					ORAL Chenyang Wei: Spatial-temporal dynamics of alpine treeline ecotones in the western United States under climate change	10:30-10:35
18:35-18:40	16:35-16:40	1:35-1:40	4:35-4:40	10:35-10:40						FLASH Viviana Brambilla: BioTIME: project development and updates		10:35-10:40
18:40-18:45	16:40-16:45	1:40-1:45	4:40-4:45	10:40-10:45						FLASH Guillaume Body: Using the Darwin core standard for EBV estimated records in Enetwild		10:40-10:45
18:45-18:50	16:45-16:50	1:45-1:50	4:45-4:50	10:45-10:50		ORAL Astrid Schmidt-Kloiber: The Freshwater Information Platform: an online network facilitating the work of FWBON				DISC. Q&A Flash presentations	ORAL Adrian Pascual: Using the GEDI satellite lidar mission with nationwide airborne laser scanning surveys in fast changing forest ecosystems	10:45-10:50
18:50-19:00	16:50-17:00	1:50-2:00	4:50-5:00	10:50-11:00						ORAL Anton P. Van de Putte: The SCAR Antarctic Biodiversity Portal, an online ecosystem for linking, Integrating and Disseminating Antarctic Biodiversity Information		10:50-11:00
19:00-19:05	17:00-17:05	2:00-2:05	5:00-5:05	11:00-11:05		ORAL Mohamed A.M. Abd Elbasit: Development of multi-platform remote sensing framework for peat degradation monitoring					POSTER Emilien Alvarez-Vanhard: UAV and satellite data synergies for biodiversity monitoring: a review	11:00-11:05
19:05-19:10	17:05-17:10	2:05-2:10	5:05-5:10	11:05-11:10						ORAL Maxime Sweetlove: Introducing POLAAR, an online portal to discover microbial polar 'omics data	POSTER Mateusz Szczech: Mapping change in grasslands biodiversity using Sentinel 2 data in the Gorce Mts.	11:05-11:10
19:10-19:15	17:10-17:15	2:10-2:15	5:10-5:15	11:10-11:15							POSTER Xiaojuan Liu: The combined effect of global climate and land use change on biodiversity under Shared Socioeconomic Pathways	11:10-11:15
19:15-19:20	17:15-17:20	2:15-2:20	5:15-5:20	11:15-11:20		PANEL Freshwater BON: First session wrap-up & panel discussion					ORAL Andrew Skidmore & Nicholas Coops: Summary; Remote sensing TF moving forward	11:15-11:20
19:20-19:30	17:20-17:30	2:20-2:30	5:20-5:30	11:20-11:30						ORAL Conclusion		11:20-11:30

UTC+10 Sydney, Melbourne	UTC+8 Beijing, Manila, Perth	UTC-7 Vancouver, San Francisco	UTC-4 New York, La Paz	GMT+2 Leipzig, Paris, Rome	Event	Session 1: Freshwater BON Chairs: Eren Turak & Andreas Bruder	Session 2: Marine BON Chairs: Frank Muller-Karger, Isabel Sousa Pinto & Mark Costello	Joint session 3: BON Development Chairs: <i>Morning</i> – Petteri Vihervaara, <i>Afternoon</i> – Miguel Fernandez	Session 4: Policy Support Chairs: Laetitia Navarro & Cornelia Krug	Session 5: EBV Data Chairs: Nestor Fernandez, Daniel Kissling & Rob Guralnick	Session 6: Remote Sensing Chairs: Andrew Skidmore & Nicholas Coops	GMT+2 Leipzig, Paris, Rome
19:30-20:30	17:30-18:30	2:30-3:30	5:30-6:30	11:30-12:30	Project Meetings	Freshwater Information Platform	EBV2020					11:30-12:30
21:00-21:30	19:00-19:30	4:00-4:30	7:00-7:30	13:00-13:30	Keynote 2 EBV & EESV Development	 Becky Chaplin-Kramer Securing Critical Natural Capital: Science and Policy Frontiers for Essential Ecosystem Service Variables						13:00-13:30
21:30-22:00	19:30-20:00	4:30-5:00	7:30-8:00	13:30-14:00		 William Cheung Essential biodiversity and ecosystem service variables for the ocean						13:30-14:00
22:00-22:30	20:00-20:30	5:00-5:30	8:00-8:30	14:00-14:30		Discussion						14:00-14:30
22:30-0:00	20:30-22:00	5:30-7:00	8:30-10:00	14:30-16:00		Plenary wrap-up: OSC1 & OSC2						14:30-16:00
0:00-0:05	22:00-22:05	7:00-7:05	10:00-10:05	16:00-16:05								16:00-16:05
0:05-0:10	22:05-22:10	7:05-7:10	10:05-10:10	16:05-16:10	OSC4 – BONs & TFs: Freshwater, marine, soil BONs & anal / regional BONs, BON Development and Task Forces	ORAL José Barquín Ortiz: Monitoring global change effects on mountain aquatic ecosystems: strengths and weaknesses	INTRO Session introduction FLASH Zacharie Sohau: Analysis of marine fisheries statistics in Benin and potential links between fisheries variability and sea surface temperature FLASH Yee Kwang Sim: The Temporal Changes in Abundance & Distribution of Jellyfish along the Coastal Area of Northern Penang, Malaysia	ORAL Paola Isaacs: Mapping landscape restoration opportunities in Amazonian forest in Colombia		ORAL Elisa Bayraktarov: Virtual laboratories for biodiversity modelling – Australia introduces the EcoCommons program		16:05-16:10
0:10-0:15	22:10-22:15	7:10-7:15	10:10-10:15	16:10-16:15								16:10-16:15
0:15-0:20	22:15-22:20	7:15-7:20	10:15-10:20	16:15-16:20		ORAL Heidi van Deventer: Assessing the threat status and protection levels of South African river and wetland ecosystem types	FLASH Kieng Soon Hii: Assessing the diversity of marine phytoplankton across the South China Sea and Malacca Strait using metabarcoding approach FLASH Muhammad Darif & Nur Aqillah: The study of photosynthetic parameters of microalgae from Penang intertidal areas using Water-PAM and Pocket-PAM	ORAL Gonzalo Bravo: Machine learning applications to monitor marine Essential Biodiversity Variables rocky shore communities		ORAL Coline Royaux: Galaxy for Ecology: An open source platform on academic cloud to produce and share EBV data products and EBV workflows		16:15-16:20
0:20-0:30	22:20-22:30	7:20-7:30	10:20-10:30	16:20-16:30								16:20-16:30
0:30-0:35	22:30-22:35	7:30-7:35	10:30-10:35	16:30-16:35		Magnolia Longo: ORAL An ecological integrity index for páramo lagoons based on biological indicators and habitat: a case study of La Virginia lagoon, páramo Sumapaz, Colombia	FLASH Neil Hammerschlag: Tracking ecosystem sentinels: identifying marine megafauna hotspots for biodiversity conservation FLASH Qianshuo Zhao: Where Marine Protected Areas would best represent 30 % of ocean biodiversity	ORAL Javier Cabello: Functional characterization of Peruvian ecoregions based on remotely sensed Ecosystem Functional Types		ORAL Andrew K. Skidmore: NextGEOS's Biodiversity Community Portals for Generating Remote Sensing-enabled Essential Biodiversity Variables and Habitat Suitability Maps		16:30-16:35
0:35-0:45	22:35-22:45	7:35-7:45	10:35-10:45	16:35-16:45								16:35-16:45
0:45-0:50	22:45-22:50	7:45-7:50	10:45-10:50	16:45-16:50		ORAL Angélica Batista-Morales: Biomonitoring, socio-ecological systems, freshwater, Colombia, indicators, Response-Pressure-Status-Benefit model	FLASH Mark J. Costello: Stratifying ocean sampling to optimise monitoring of biodiversity	ORAL Aino Kullonen: Essential Mountain Variables for monitoring mountain social-ecological systems: progress and prospects		ORAL Christian Beilschmidt: Building the Next-Generation EBV Analyzer		16:45-16:50

UTC+10 Sydney, Melbourne	UTC+8 Beijing, Manila, Perth	UTC-7 Vancouver, San Francisco	UTC-4 New York, La Paz	GMT+2 Leipzig, Paris, Rome	Event	Session 1: Freshwater BON Chairs: Eren Turak & Andreas Bruder	Session 2: Marine BON Chairs: Frank Muller-Karger, Isabel Sousa Pinto & Mark Costello	Joint session 3: BON Development Chairs: <i>Morning</i> – Petteri Vihervaara, <i>Afternoon</i> – Miguel Fernandez	Session 4: Policy Support Chairs: Laetitia Navarro & Cornelia Krug	Session 5: EBV Data Chairs: Nestor Fernandez, Daniel Kissling & Rob Guralnick	Session 6: Remote Sensing Chairs: Andrew Skidmore & Nicholas Coops	GMT+2 Leipzig, Paris, Rome
0:50-1:00	22:50-23:00	7:50-8:00	10:50-11:00	16:50-17:00			FLASH Maria Gabriela Palomo: A Marine Biodiversity Observation Network Pole-to-Pole of the Americas (MBON Pole to Pole) in support of conservation post 2020					16:50-17:00
1:00-1:05	23:00-23:05	8:00-8:05	11:00-11:05	17:00-17:05		ORAL Jennifer Lento: Status and trends in Arctic freshwater biodiversity: Highlights of the first circumpolar assessment by the Arctic BON (CBMP)	FLASH Nicolas Moity: Cold or warm? That is the question: EOVS monitoring in the Galapagos Marine Reserve by a citizen science observation network	ORAL Maria Isabel Arce: Implementation of a community based monitoring scheme of Essential Biodiversity Variables in Montes de Maria, Caribbean Region of Colombia		ORAL Néstor Fernández: A self-described data format and standard for the Essential Biodiversity Variables		17:00-17:05
1:05-1:15	23:05-23:15	8:05-8:15	11:05-11:15	17:05-17:15			FLASH Masahiro Nakaoka: Development of Asia-Pacific Marine Bio-diversity Observation Network (AP MBON)					17:05-17:15
1:15-1:45	23:15-23:45	8:15-8:45	11:15-11:45	17:15-17:45		Coffee break						17:15-17:45
1:45-1:50	23:45-23:50	8:45-8:50	11:45-11:50	17:45-17:50	OSC4 – BONs & TFs: Freshwater, marine, soil BONs & national / regional BONs, BON Development and Task Forces	PANEL Freshwater BON: Second session wrap-up & panel discussion	FLASH Isabel Sousa Pinto: MBON: Marine Biodiversity Observation Network: Current status and action plan	ORAL Anne-Julie Rochette: The MRV capacity-building approach: promoting the use of biodiversity data for decision-making in Africa		FLASH Benjamin D. Best: MBON: Interactive Infographics and Automated Workflows for Marine Ecological Indicators		17:45-17:50
1:50-1:55	23:50-23:55	8:50-8:55	11:50-11:55	17:50-17:55			FLASH Frank E. Muller-Karger: Marine Biodiversity Observation Network (MBON) Contributions From the US		ORAL Sean Hoban: A review of National Reports to the Convention on Biological Diversity-genetic diversity and Aichi Target 13	FLASH Rainer Krug: IPBES goes FAIR! Data Management Policy Adapted		17:50-17:55
1:55-2:00	23:55-0:00	8:55-9:00	11:55-12:00	17:55-18:00						DISC. Q&A Flash Presentations		17:55-18:00
2:00-2:05	0:00-0:05	9:00-9:05	12:00-12:05	18:00-18:05			FLASH Dominique Pelletier: A versatile and user-friendly interface for computing, plotting and analysing biological metrics from various monitoring protocols	ORAL Victor Gutierrez Velez: Integrated cloud infrastructure system for characterizing and reporting biodiversity change at the national and regional levels		FLASH A. Brower: Earth Challenge 2020: Bringing together citizen science biodiversity data		18:00-18:05
2:05-2:10	0:05-0:10	9:05-9:10	12:05-12:10	18:05-18:10			FLASH Jonatha Giddens: Observing life in the deep-ocean with National Geographic's deep-sea camera system; a low-cost and scalable approach		ORAL Beckett Sterner: FAIR but Inequitable: The impacts of data governance on participatory biodiversity science	FLASH Juan Escamilla Molgora: Biospytial: spatial graph-based computing for ecological Big Data		18:05-18:10
2:10-2:15	0:10-0:15	9:10-9:15	12:10-12:15	18:10-18:15						DISC. Q&A Flash Presentations		18:10-18:15
2:15-2:20	0:15-0:20	9:15-9:20	12:15-12:20	18:15-18:20			FLASH Frank E. Muller-Karger: MBON: Addressing the Need for Best Practices for the Complementary Essential Ocean Variables (EOVs) and Essential Biodiversity Variables (EBVs)	ORAL Michael Gill & Matthew Child: EBV Workflows for the Design of Sustained Biodiversity Observation Systems		FLASH Tome Gueta: The bdiverse: an infrastructural and modular toolkit for biodiversity data quality in R		18:15-18:20
2:20-2:25	0:20-0:25	9:20-9:25	12:20-12:25	18:20-18:25			FLASH Andre Silva Barreto: Integrating data from researchers, industry, and environmental licensing: SIMMAM a success case for marine mammals in Brazilian waters		ORAL Gary Geller: GEO BON Evolution Is Entering Its Next Major Phase	FLASH Wilson Lara Henao: R-Package ecochange: Integrating freely available geospatial data and deriving EBV candidates and indicators in predefined regions of interest		18:20-18:25
2:25-2:30	0:25-0:30	9:25-9:30	12:25-12:30	18:25-18:30						DISC. Q&A Flash Presentations		18:25-18:30
2:30-2:35	0:30-0:35	9:30-9:35	12:30-12:35	18:30-18:35		We encourage participants of Freshwater Session to attend the Panel Discussion of Joint Session 3: BON Development + Arctic BON + Asia-Pacific BON + Americas BON	PANEL Marine biodiversity panel discussion	PANEL Miguel Fernandez: Panel discussion		DISC. General discussion & conclusion of the session		18:30-18:35

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2:35-2:50	0:35-0:50	9:35-9:50	12:35-12:50	18:35-18:50					ORAL Johannes Refisch: A call for international coordination to realize the potential of technology in biodiversity conservation			18:35-18:50
2:50-3:00	0:50-1:00	9:50-10:00	12:50-13:00	18:50-19:00					FLASH Fernando Mora Rodríguez: Marine governance in Costa Rica: a perspective to the marine conservation and marine spatial planning			18:50-19:00
3:00-4:00	1:00-2:00	10:00-11:00	13:00-14:00	19:00-20:00		Demo of EBV Portal						19:00-20:00
4:00-5:00	2:00-3:00	11:00-12:00	14:00-15:00	20:00-21:00		Poster session 1: Please see next page						20:00-21:00
Night	Night	Morning	Afternoon	Evening		Mixer						Evening

more information



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- **Ahmed, Kaleem:** Herpetofauna assemblage in two Watershed areas of Kumoan Himalayas, Uttarakhand, India
- **Alvarez-Vanhard, Emilien Gence:** UAV and satellite data synergies for biodiversity monitoring: a review
- **Amini Tehrani, Nasrin:** Spatial predictions of Species Distribution Essential Biodiversity Variables (SDEBV): A bird perspective in the Swiss Alps
- **Bates, Naomi:** Bioacoustics and Machine Learning for Avian Species Presence Surveys
- **Blyth, Colette:** Drinking at the last chance saloon – conservation genomic strategies for an endangered plant species
- **Casas, Enrique:** Two step approach ecological niche model of invasive algae: *Asparagopsis armata* case of study in Azores archipelago
- **Castruita Esparza, Luis Ubaldo:** How is *Picea Chihuahuana* Martinez facing the climate change and the increase of CO₂ in the atmosphere?
- **Castruita Esparza, Luis Ubaldo:** Potential areas with attributes of high conservation value in the Guachochi region, Chihuahua, Mexico
- **Cord, Anna:** Modelling the impact of agricultural policies on biodiversity and ecosystem services
- **Darvishzadeh, Roshanak:** Generation of Net Primary Productivity as Remote Sensing enabled biodiversity product in the myVARIABLE pilot of e-shape
- **DaSilva, Douglas Fernandes:** Impact of Drought and Desertification on the Livelihood and Health of the Wayuu Indigenous People of La Guajira, Colombia
- **Elisa Montefiori:** Gap analysis of the Arctic protected area network to represent Tundra's functional heterogeneity
- **Gao, Xin:** Fish diversity and resources in the Yangtze River
- **Khanina, Larisa G.:** Effects of windthrow disturbances in *Quercus mesic* deciduous forests (European part of Russia)
- **Kumagai, Joy Alice Megumi:** The “Effort Gap” Metric: Assessing Countries’ Uneven Conservation Effort Towards Habitats and Biodiversity Protection
- **Liu, Xiaojuan:** The combined effect of global climate and land use change on biodiversity under Shared Socioeconomic Pathways
- **Moreno, María Laura:** Land-use changes negatively affect soil fauna communities: preliminary results of a meta-analysis
- **Napiórkowska-Krzebietke, Agnieszka:** Phytoplankton biodiversity in the context of ecological and trophic states of the lakes
- **Niamir, Aidin:** The fraction of land cover classes; derived variables from ESA CCI Land Cover time-series (1992 – 2018)
- **Nikolaeva, Anna:** Ryazan Region is a model territory for monitoring changes in the entomocomplexes of Central Russia
- **Nilamani, Nithiyaa:** Survey on the diversity of benthic macrofauna in seagrass bed, Middle Bank, Penang, Straits of Malacca
- **Nogueira, Luís Eduardo Guerra Domingos:** tba
- **Parmalee, Lark Jane:** Beyond common biodiversity indices: a comparison of photo quadrat and insitu methods in rocky intertidal habitats in the Gulf of Maine
- **Rahman, S. M. Mustafizur:** Fisheries diversity and environmental variables in the waterways of the eastern Sundarbans mangrove forest, Bangladesh
- **Richards, Cerren:** Using species traits to quantify seabird bycatch vulnerability and predict conservation gains
- **Rochette, Anne-Julie:** Assessing ecosystem services in African Biosphere Reserves: A review and user-informed classification of existing tools
- **Schrodt, Franziska:** Essential geodiversity variables to complement EBVs
- **Stückemann, Kim-Jana:** Mapping Costa Rica's (semi-)natural vegetation using multisensor temporal metrics
- **Szczęch, Mateusz:** Mapping change in grasslands biodiversity using Sentinel 2 data in the Gorce Mts.
- **Tassone, Morgan:** Drivers of Spatial and Temporal Variability in Ecosystem Functional Diversity on the Yamal Peninsula, Siberia, Russia
- **Zvyagina, Elena:** Macrofungi of the Vakh river basin. The first data

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16:00-17:30	14:00-15:30	23:00-0:30	2:00-3:30	8:00-9:30		Conservation genetics networks and policy	Next-generation technologies for monitoring community- composition EBVs		8:00-9:30
17:30-18:00	15:30-16:00	0:30-1:00	3:30-4:00	9:30-10:00	Coffee break				9:30-10:00
18:00-19:30	16:00-17:30	1:00-2:30	4:00-5:30	10:00-11:30		What makes a good genetic EBV dataset?	cont.	Ecosystem Structure EBV Working Group All Hands Chair: Brian O'Connor	10:00-11:30
Project Meetings									
19:30-20:00	17:30-18:00	2:30-3:00	5:30-6:00	11:30-12:00	Tracking freshwater biodiversity change in Islands of the South Pacific	EBV2020	GlobDiversity – the development and engineering of remote sensing enabled Essential Biodiversity Variables	cont.	11:30-12:00
20:00-20:30	18:00-18:30	3:00-3:30	6:00-6:30	12:00-12:30					12:00-12:30
20:30-20:45	18:30-18:45	3:30-3:45	6:30-6:45	12:30-12:45					12:30-12:45
20:45-21:00	18:45-19:00	3:45-4:00	6:45-7:00	12:45-13:00					12:45-13:00
Panel discussion									
21:00-21:10	19:00-19:10	4:00-4:10	7:00-7:10	13:00-13:10	 David Obura The Global Coral Reef Monitoring Network – the Thematic BON for Coral Reefs				13:00-13:10
21:10-21:20	19:10-19:20	4:10-4:20	7:10-7:20	13:10-13:20	 Aletta Bonn Biodiversity Observation Networks are People Networks				13:10-13:20
21:20-21:30	19:20-19:30	4:20-4:30	7:20-7:30	13:20-13:30	 Haigen Xu The Design and Operation of China Biodiversity Observation Network				13:20-13:30
21:30-21:40	19:30-19:40	4:30-4:40	7:30-7:40	13:30-13:40	 Maria Cecilia Londoño Communities of practice for supporting multiscale decision making in a megadiverse country				13:30-13:40

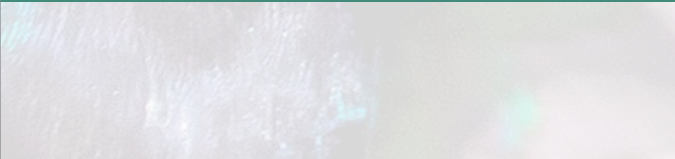
21:40-21:50	19:40-19:50	4:40-4:50	7:40-7:50	13:40-13:50	 Tom Christensen The Circumpolar Biodiversity Monitoring Programme – The Arctic BON; Monitoring and reporting changes in Arctic Biodiversity and ecosystems				13:40-13:50
21:50-22:00	19:50-20:00	4:50-5:00	7:50-8:00	13:50-14:00	 Lucy Waruingi				13:50-14:00
22:00-22:30	20:00-20:30	5:00-5:30	8:00-8:30	14:00-14:30	Discussion				14:00-14:30
22:30-0:00	20:30-22:00	5:30-7:00	8:30-10:00	14:30-16:00	Plenary wrap-up: OSC3 & OSC4				14:30-16:00
					All Hands Meetings cont.				
0:00-1:15	22:00-23:15	7:00-8:15	10:00-11:15	16:00-17:15	Monitoring Ecosystem Services: From local to global	Conservation genetics networks and policy		Ecosystem Structure EBV Working Group All Hands Chair: Brian O'Connor	16:00-17:15
1:15-1:45	23:15-23:45	8:15-8:45	11:15-11:45	17:15-17:45	Coffee break				17:15-17:45
1:45-2:00	23:45-0:00	8:45-9:00	11:45-12:00	17:45-18:00	Monitoring Ecosystem Services: From local to global	What makes a good genetic EBV dataset?		cont.	17:45-18:00
2:00-2:30	0:00-0:30	9:00-9:30	12:00-12:30	18:00-18:30					18:00-18:30
2:30-3:00	0:30-1:00	9:30-10:00	12:30-13:00	18:30-19:00					18:30-19:00
					Project Meetings cont.				
3:00-4:00	1:00-2:00	10:00-11:00	13:00-14:00	19:00-20:00	CBMP Freshwater Products	TAO, the Tropical Andes Observatory	EBV2020		19:00-20:00
4:00-5:00	2:00-3:00	11:00-12:00	14:00-15:00	20:00-21:00					20:00-21:00
5:00-7:00	3:00-5:00	12:00-14:00	15:00-17:00	21:00-23:00				All Hands Species Populations Working Group Meeting Chairs: Walter Jetz & Melodie Mc Geoch	21:00-23:00
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15:00-16:00	13:00-14:00	22:00-23:00	1:00-2:00	7:00-8:00	Mixer		7:00-8:00
16:00-17:30	14:00-15:30	23:00-0:30	2:00-3:30	8:00-9:30	FWBON Session 1 Introduction to FWBON. The past, the present, the people		8:00-9:30
17:30-18:00	15:30-16:00	0:30-1:00	3:30-4:00	9:30-10:00	Coffee break		9:30-10:00
18:00-19:30	16:00-17:30	1:00-2:30	4:00-5:30	10:00-11:30	FWBON Session 2 Activities 1) What we are doing now 2) What we planning to do 3) New ideas	BON Development Session 1 Chaired by Petteri Vihervaara	10:00-11:30
19:30-20:00	17:30-18:00	2:30-3:00	5:30-6:00	11:30-12:00			11:30-12:00
20:00-21:00	18:00-19:00	3:00-4:00	6:00-7:00	12:00-13:00	Poster Session 2		12:00-13:00
Keynote – EBV & EESV Development							
21:00-21:30	19:00-19:30	4:00-4:30	7:00-7:30	13:00-13:30		Melodie Mc Geoch What monitoring invasive species has taught us about governing biodiversity knowledge	13:00-13:30
21:30-22:00	19:30-20:00	4:30-5:00	7:30-8:00	13:30-14:00		Carlo Rondinini The InSiGHTS framework for modelling species’ Area of Habitat	13:30-14:00
22:00-22:30	20:00-20:30	5:00-5:30	8:00-8:30	14:00-14:30	Discussion		14:00-14:30
22:30-0:00	20:30-22:00	5:30-7:00	8:30-10:00	14:30-16:00	IC Meeting		14:30-16:00

All Hands Meetings cont.

0:00-1:15	22:00-23:15	7:00-8:15	10:00-11:15	16:00-17:15	MBON / FWBON joint session 4 workshop Darwin Core + OBIS & Case studies: 16:00-16:05 – Opening of the session 16:05-16:25 – More than the sum of its parts: The rationale for using Darwin Core to integrate biological observations. Abby Benson. U.S. Geological Survey, Denver, CO, United States. (15 minutes talk + 5 minutes QA) 16:25- 16:40 - Introduction to the Ocean Biodiversity Information System (OBIS). Ward Appeltans. Intergovernmental Oceanographic Commission (IOC) of UNESCO, Ocean Biodiversity Information System (OBIS) (10 minutes talk + 5 minutes QA) 16:40-16:55 - Building products and applications on OBIS. Pieter Provoost. Intergovernmental Oceanographic Commission (IOC) of UNESCO, Ocean Biodiversity Information System (OBIS) (10 minutes talk + 5 min. QA) 16:55-17:10 - Implementing best practices in a continental scale Marine Biodiversity Observing Network - MBON Pole to Pole. Enrique Montes. Institute for Marine Remote Sensing. College of Marine Science. University of South Florida. USA. (10 minutes talk + 5 minutes QA) 17:10-17:15 – Discussion		16:00-17:15
1:15-1:45	23:15-23:45	8:15-8:45	11:15-11:45	17:15-17:45	Coffee break		17:15-17:45
1:45-3:00	23:45-1:00	8:45-10:00	11:45-13:00	17:45-19:00	FWBON Session 4 Connecting people and activities for the next two years	BON Development Session 2 Co-chaired by Maria Cecilia Londoño & Mike Gill	17:45-19:00
3:00-4:00	1:00-2:00	10:00-11:00	13:00-14:00	19:00-20:00	Microsoft AI for Earth Presentation		19:00-20:00
Night	Night	Morning	Afternoon	Evening	Mixer		Evening

UTC+10 Sydney, Melbourne	UTC+8 Beijing, Manila, Perth	UTC-7 Vancouver, San Francisco	UTC-4 New York, La Paz	GMT+2 Leipzig, Paris, Rome	All Hands Meetings		GMT+2 Leipzig, Paris, Rome
16:30-17:45	14:30-15:45	23:30-0:45	2:30-3:45	8:30-9:45		EBV-Data Workshop I: Developing standards and an infrastructure for the Essential Biodiversity Variables Chair: Néstor Fernández	8:30-9:45
17:45-18:15	15:45-16:15	0:45-1:15	3:45-4:15	9:45-10:15	Coffee break		9:45-10:15
18:15-19:30	16:15-17:30	1:15-2:30	4:15-5:30	10:15-11:30		EBV-Data Workshop I: Developing standards and an infrastructure for the Essential Biodiversity Variables Chair: Néstor Fernández	10:15-11:30
19:30-21:30	17:30-19:30	2:30-4:30	5:30-7:30	11:30-13:30			11:30-13:30
21:30-23:15	19:30-21:15	4:30-6:15	7:30-9:15	13:30-15:15	Closing – Wrap-up by all WGs / BONs / TFs		13:30-15:15
23:15-0:00	21:15-22:00	6:15-7:00	9:15-10:00	15:15-16:00	Closing Remarks		15:15-16:00

UTC+10 Sydney, Melbourne	UTC+8 Beijing, Manila, Perth	UTC-7 Vancouver, San Francisco	UTC-4 New York, La Paz	GMT+2 Leipzig, Paris, Rome	All Hands Meetings		GMT+2 Leipzig, Paris, Rome
0:00-0:30	22:00-22:30	7:00-7:30	10:00-10:30	16:00-16:30		EBV-Data Workshop II: Addressing gaps in mobilizing in-situ monitoring data Chair: Robert Guralnick	16:00-16:30
0:30-1:15	22:30-23:15	7:30-8:15	10:30-11:15	16:30-17:15	Policy Support AH Meeting: EBVs, EESVs and BONs in support of Policies post-2020: Meeting of the GEO BON Policy Task Force. Chairs: Laetitia Navarro & Cornelia Krug		16:30-17:15
1:15-1:45	23:15-23:45	8:15-8:45	11:15-11:45	17:15-17:45	Coffee break		17:15-17:45
1:45-3:00	23:45-1:00	8:45-10:00	11:45-13:00	17:45-19:00	cont.	cont.	17:45-19:00