



# Earth System Science Initiative 2023 Workshop

22-24 November 2023, ESA ESRIN

## Biodiversity Sessions



### Programme Overview

Wednesday 22 Nov		Thursday 23 Nov		Friday 24 Nov	
10:00 - 11:00	Plenary	9:00 - 11:00	<b>Session 3:</b> ESA – EC Biodiversity Projects - Part 1	9:00 - 10:30	<b>Session 7:</b> ESA – EC Biodiversity Projects - Connecting the dots
11:00 - 11:30		11:00 - 11:30		10:30 - 11:00	
11:00 - 11:30	Coffee Break	11:00 - 11:30	Coffee Break	11:00 - 11:30	Coffee Break
11:30 - 13:20	Plenary	11:30 - 13:20	<b>Session 4:</b> ESA – EC Biodiversity Projects - Part 2	11:30 - 13:00	Plenary
13:20 - 14:20		Lunch Break		13:20 - 14:20	
14:20 - 16:00	<b>Session 1:</b> Biodiversity Policies and Initiatives - Part 1	14:20 - 16:00	<b>Session 5:</b> Biodiversity EO Science Agenda - Part 1		
16:00 - 16:20		Coffee Break			
16:20 - 18:00	<b>Session 2:</b> Biodiversity Policies and Initiatives - Part 2	16:20 - 18:00	<b>Session 6:</b> Biodiversity EO Science Agenda - Part 2		
18:00 - 19:00	Posters and networking cocktail	18:00 - 19:00	Posters and networking cocktail		

## Detailed Programme of Biodiversity Sessions

<b>Session 1: Biodiversity Policies and Initiatives – Part 1</b>		<b>1h40</b>
<i>Wednesday 22 Nov 14:20</i>		
Chairs: Petteri Vihervaara (SYKE) and Marc Paganini (ESA)		
ESA Welcome (M. Paganini, ESA ESRIN)		5'
EC Welcome (Gilles Doignon & Bastian Bertzky, EC DG-RTD)		5' ®
Workshop Objectives and Programme (M. Paganini, ESA ESRIN)		10'
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CBD Kunming-Montreal Global Biodiversity Framework & monitoring framework (Jillian Campbell, CBD secretariat)		12' ®
EU Biodiversity Strategy for 2030 and Nature Restoration Law (Anne Teller, DG ENV)		12' ®
Support of EO to the EU Habitats Directive (Bruno Combal, DG ENV)		12' ®
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<i>Digital Whiteboard Questions (1)</i>		4'
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EC Knowledge Centre on Biodiversity – KCBD (Gregoire Dubois, & Camino Liquette, DG JRC)		12' ®
BioAGORA, Science Service for Biodiversity (Kati Vierikko, SYKE)		12' ®
Biodiversa+, European Biodiversity Partnership (Petteri Vihervaara, SYKE)		12'
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<i>Digital Whiteboard Questions (1)</i>		4'
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<b>Session 2: Biodiversity Policies and Initiatives – Part 2</b>		<b>1h40</b>
<i>Wednesday 22 Nov 16:20</i>		
Chairs: Susanne Thulin (Brockmann Geomatics) and Marc Paganini (ESA)		
EUROPABON (Bruno Smets, VITO)		12'
The European Biodiversity Monitoring Coordination Centre (Camino Liquette, DG JRC)		12' ®
Knowledge Centre on EO (KCEO) Biodiversity Dive (Mark Dowell, DG JRC)		12' ®
EEA activities on Habitat Mapping, progress and challenges (Jan Eric Petersen, EEA)		12' ®
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<i>Digital Whiteboard Questions (2)</i>		8'
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GEOBON and GBiOS (Andrew Gonzalez, Mc Gill University)		12' ®
FutureEarth Biodiscovery (Cornelia Krug, UZH)		12'
CEOS and Biodiversity (Gary Geller, NASA / JPL)		12' ®
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<i>Digital Whiteboard Questions (2)</i>		8'
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**Session 3: ESA / EC Biodiversity Projects – Part 1** **2h**  
*Thursday 23 Nov 9:00*  
Chairs: Nikolina Mileva (ESA) and Marc Paganini (ESA)

EC GUARDEN (Pierre Bonnet, CIRAD)	15'
EC NATURE FIRST (Linda van Duivenbode, dotSPACE)	15'
EC NATURA CONNECT (Luigi Maiorano, Sapienza)	15'
EC AD4GD (Joan Maso, CREAM)	15'
EC FAIRiCUBE (Stefan Jetschny, NILU)	15' ®
ESA PEOPLE Ecosystem accounting (Bruno Smets, VITO)	15'
EC B-Cubed (Andrew Rodrigues, GBIF)	15'
ESA EO4DIVERSITY (Roshanak Darvishzadeh , ITC)	15'

**Session 4: ESA / EC Biodiversity Projects – Part 2** **1h50**  
*Thursday 23 Nov 11:30*  
Chairs: Nikolina Mileva (ESA) and Marc Paganini (ESA)

EC EarthBridge (Anna Cord, TU Dresden)	15' ®
EC FREEDLES (Miina Rautiainen, Aalto University)	15'
EC OBSGESSION (Petteri Vihervaara, SYKE)	15'
EC MAMBO (Alexis Joly, INRIA)	15' ®
ESA BIOMONDO (Petra Philipson, Brockmann Geomatics)	15'
ESA BiCOME (Victor Martinez Vicente, PML)	15'
EC MARCO BOLO (Pedro Junger, Ecole Normale Supérieure)	15'

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**Session 5: Biodiversity EO Science Agenda – Part 1** **1h40***Thursday 23 Nov 14:20*

Chairs: Susana Baena (UNEP WCMC), Roshanak Darvishzadeh (ITC) and Marc Paganini (ESA)

Refining the ESA Science Strategy on Biodiversity and Ecosystems (Martin Herold, GFZ)	12' <sup>®</sup>
<i>Digital Whiteboard Questions (2)</i>	8'
Terrestrial Ecosystems EO Science Agenda - EO4DIVERSITY (Susana Baena, UNEP WCMC)	12'
<i>Digital Whiteboard Questions (2)</i>	8'
Advancing terrestrial biodiversity monitoring with Satellite Remote Sensing (Joris Timmermans, Technical University of Delf)	12'
<i>Digital Whiteboard Questions (2)</i>	8'
Freshwater Ecosystems EO Science Agenda – BIOMONDO (Jelle Lever, Swiss Federal Research Institutes EAWAG and WSL)	12'
<i>Digital Whiteboard Questions (2)</i>	8'
EUROPABON perspectives on Earth Observation for biodiversity monitoring and assessment (Henrique Pereira, IDIV)	12' <sup>®</sup>
<i>Digital Whiteboard Questions (2)</i>	8'

**Session 6: Biodiversity EO Science Agenda – Part 2** **1h40***Thursday 23 Nov 16:20*

Chairs: Jelle Lever (EAWAG) and Marc Paganini (ESA)

Coastal Ecosystems EO Science Agenda – BiCOME (Victor Martinez Vicente, PML)	12'
<i>Digital Whiteboard Questions (2)</i>	8'
EO challenges and opportunities from the KCEO Biodiversity Deep Dive (Mark Dowell, JRC)	12' <sup>®</sup>
<i>Digital Whiteboard Questions (2)</i>	8'
Biodiversity assessment and processes with Earth Observations: trends and futures (Maria Santos, University of Zurich)	12'
<i>Digital Whiteboard Questions (2)</i>	8'
NASA Biological Diversity and Ecological Forecasting report on Current State of Knowledge and Considerations for the next decade (Gary Geller, NASA / JPL)	12' <sup>®</sup>
<i>Digital Whiteboard Questions (2)</i>	8'
Quantifying impacts from space: Theory-driven approaches for biodiversity monitoring (Leon Hauser, University of Zurich)	12' <sup>®</sup>
<i>Digital Whiteboard Questions (2)</i>	8'

<sup>®</sup> Remote presentation

**Session 7: ESA – EC Biodiversity Projects: Connecting the dots** **1h30**

*Friday 24 Nov 9:00*

Chairs: Petteri Vihervaara (SYKE) and Marc Paganini (ESA)

Introduction to the session 10'

Interactive Discussions on improving the collaboration and knowledge sharing between biodiversity projects 80'

**Session 8: Biodiversity Sessions Wrap-up** **30'**

*Friday 24 Nov 13:30*

Chairs: Petteri Vihervaara (SYKE) and Marc Paganini (ESA)

Review of the plenary slides 30'