

# **Global Biodiversity Assessment and Monitoring**

## **Science, Data and Infrastructure Needs for IPBES and Beyond**

A **futureearth** Symposium



**Monte Verità Conference Center, Ascona, Switzerland, 6-10.03.2016**

**A joint symposium of the Future Earth Clusters ‘Global Biodiversity Assessment and Monitoring, Prediction and Reporting’ and ‘Support for IPBES’**

Policy, environmental management, and conservation in an interconnected world of ongoing rapid change rely on adequate biodiversity science, data, and infrastructure to support decisions. Regional and global assessment processes under the auspices of IPBES are now underway. What are the key science, data and infrastructure needs to support a global biodiversity monitoring and assessment into the future? Which are the key data, knowledge and technology gaps? Which questions should we ask now, which methods develop, which new types of information integrate, or which complementary data collection begin, to meet these challenges?

The symposium follows up on the initial meeting on “Global Biodiversity Monitoring” at Yale University in May 2015 (see <http://biodiversitymonitoring.org>). The 2016 event will add the scientific needs for IPBES, in particular on indicators, as additional focus. Key goals of the conference are to link the main research groups active in this area, improve data sharing, develop collaborative analyses, realize potential synergies and advance international cooperation. The meeting will provide opportunity for existing working groups to advance or complete their work and for new initiatives to form. Future Earth is entering the next formative stage and the symposium is a forum to advance the role of biodiversity within Future Earth as well as develop or engage in new research and funding opportunities under its umbrella. There is potential for select follow-up workshops to advance collaborative research, synthesis papers or indicator products.

### Working groups:

Several working groups have been formed at last year's symposium, and this meeting will provide opportunity for these groups to advance or complete their work (ideas exchange, manuscripts, proposals) and for new initiatives to form. At most 2-3 working groups will meet in parallel, allowing participation in multiple. Participants are free to join one or several groups.

- Global indicators for IPBES & CBD: criteria and new approaches (Paul Leadley and others, WG 7)
- Toward a best-possible representative global biodiversity monitoring – research, data, and infrastructure needs (Walter Jetz, Brad Cardinale, Steve Beissinger and others, WG 4)
- Mountains: Biodiversity monitoring of globally distributed but readily delineated systems (Markus Fischer and others, WG 2)
- Biodiversity monitoring for ecosystem services (Guy Woodward and others, WG 3)
- Rob Guralnick and others: Citizen science for global biodiversity monitoring and assessment (Rob Guralnick and others, WG 5)

## **Draft Agenda Day 1 - Sunday, March 6**

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Arrival

19:30      Welcome Dinner

## **Draft Agenda Day 2 - Monday, March 7**

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### Welcome

9:00	Welcome	Markus Fischer, Eva Spehn, Paul Leadley, Cornelia Krug, Walter Jetz (local organizers)
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### Setting the Stage

9:10	IPBES	Anne Larigauderie (IPBES)
9:35	Future Earth	Anne-Helene Prieur-Richard (Future Earth)
10:00	Science and infrastructure to support global biodiversity monitoring	Walter Jetz (U Yale)
10:20	<b>Coffee</b>	

### Introduction to Working Groups (WG)

10:45	Introduction to Working group on Global indicators for IPBES (WG 7)	Paul Leadley (U Paris Sud)
11:00	Biodiversity monitoring for ecosystem services (WG 3)	Guy Woodward (Imperial College)

11:15	Citizen science for biodiversity monitoring (WG 5)	Rob Guralnick (U Florida)
11:30	Biodiversity and Ecosystem Services Monitoring, including the special situation of mountains (WG 2)	Markus Fischer (U Bern)
11:45	Toward a best-possible representative global biodiversity monitoring (WG4)	Steve Beissinger (UC Berkeley)
12:00	Discussion	Plenary
12:30	<b>Lunch</b>	
14:00	Short (2-5min) presentations, 1-3 participants selected per working group	Plenary
15:30	<b>Coffee</b>	
16:00	Working groups meet	Group work
18:30	<b>Dinner</b>	

## **Draft Agenda Day 3 - Tuesday, March 8**

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### **Global Biodiversity Monitoring keynotes**

9:00	Earth observation through animals	Martin Wikelski (Max Planck Institute)
9:25	Using eBird products for full life-cycle bird conservation	Steve Kelling (Cornell Lab of Ornithology)
9:50	TBD	Christian Wirth (iDiv, Leipzig)
10:15	<b>Coffee</b>	
10:30	Short WG reports, discussion Ideas Lab – new activities, proposals	Plenary
11:40	Breakout groups	Group work
12:00	<b>Lunch</b>	
13:30	Ideas Lab – 4-6 break-out groups	Group work
15:00	<b>Coffee</b>	
15:30	Ideas Lab – break-out groups report	Plenary
16:00	Working groups meet	Group work
19:00	<b>Dinner</b>	

## Draft Agenda Day 4 - Wednesday, March 9

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### Keynotes

9:00	Data for biodiversity models and models for biodiversity data	Antoine Guisan (U Lausanne)
9:25	TBD	Brad Cardinale (U Michigan)
9:50	TBD	Shin Yunne-Jai (Inst. Res. Dvpt)
10:15	<b>Coffee</b>	
10:30	Working groups meet	Group work
12:00	<b>Lunch</b>	
13:00	Working groups and proposal efforts	Group work
14:00	Plenary – how we go from here	Plenary
15:00	<b>Coffee</b>	
15:20	Working groups and proposal efforts	Group work

### Synthesis and Wrap-up

18:00	Discussion	Plenary
18:30	Synthesis and wrap up	Plenary
19:30	<b>Dinner</b>	

## Draft Agenda Day 5 - Thursday, March 10

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9:00	Departure, or small group work or leisure activities
12:00	<b>Lunch</b> (for those still here)

## Registration

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The Registration fee is 800 CHF and includes the registration fee, accommodation (4 nights), all meals (breakfast, lunch, dinner) and coffee breaks (2/day), conference dinner (1 ticket per participant), and the welcome apero (1 ticket per participant).

If you are interested in participating, please contact us via mail ([gmba@unibas.ch](mailto:gmba@unibas.ch)). We will send you the registration link. The number of participants is limited to 70 participants in total, some will have to share their rooms with other participants (due to a limited number of single rooms).

## Getting to Monte Verità

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The closest large airport is that of Zurich, Switzerland (ZRH). The scenic train ride from Zurich airport to Locarno take 3-3.5, at ca. CHF 132 for a return ticket in 2nd class. For connections, please consult the Swiss railway website ([www.sbb.ch](http://www.sbb.ch)). From Locarno to Monte Verità we will organize shuttles at the arrival/departure day.

## Venue: Monte Verità Conference Center

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The conference venue is a historic hotel complex at Fondazione Monte Verità (Strada Collina 84, CH-6612 Ascona, Tel. +41 91 785 40 40), at Lago maggiore and close to Locarno, Switzerland.

Monte Verità is the meeting location of the ETH Zurich subsidized conferences ("Congressi Stefano Franscini" CSF). The CSF supports between 20 and 25 international conferences each year, on any theme or discipline, which is the subject of scientific research.

This venue is much loved by the international scientific community, thanks to its beautiful setting, the size of the campus, the professional and likewise friendly service and the high-quality cuisine served at the Monte Verità restaurant.

<http://www.monteverita.org/>



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