

## WORKSHOP

# Uncertainty in models and scenarios of biodiversity and ecosystem services

24-26 September 2018, Montpellier (Hotel Oceania, 3 rue du Clos René)

Organized by the USBIO project

Scenarios are invaluable tools to guide long term strategic policies, prompt management actions and increase public awareness on future threats to biodiversity. To increase scenarios impacts on policies and trigger appropriate management responses, IPBES has strongly encouraged to develop capacities in quantifying the uncertainty linked to future projections of biodiversity. By gathering a group of scientists skilled in modelling and statistics, working in terrestrial and marine ecosystems, developing diverse scenarios of global changes, this workshop aims to develop a conceptual framework and discuss methods to address uncertainty in biodiversity scenarios. Specific case studies in marine and terrestrial realms will be presented to address different sources of uncertainty (parameter, structural, internal variability). A review paper will be drafted by the participants of the workshop.

### List participants (\* *in visioconf*)

William Cheung (University British Columbia, Canada)  
Olivier Gimenez (CNRS, CEFE, France)  
Paul Leadley (Université Paris Sud, France)  
Gilles Le Moguédec (INRA, AMAP, France)  
Crisceley Lujan (Université Paris Sud, France)  
Isabelle Maréchaux (INRA, AMAP, France)  
Raphaël Péliissier (IRD, AMAP, France)  
Romain Pete (IFREMER, MARBEC, France)  
Mark Rounsevell (KIT, Germany)  
\* *Roland Séférian (CNRM, France)*  
Yunne Shin (IRD, MARBEC, France)  
Peter Verburg (Vrije Universiteit Amsterdam, Netherlands)  
Philippe Verley (IRD, AMAP, France)  
Ghislain Vieilledent (CIRAD, France)  
\* *Brendan Wintle (University Melbourne, Australia)*

**Monday 24 September 2018**

9h30	Yunne Shin	Welcome and Introduction
10h	Paul Leadley	IPBES framework and example case studies
10h30	Coffee and tea break	
10h50	Brendan Wintle*	Not all uncertainties are important - dealing with uncertainty in decision making
11h20	William Cheung	Building confidence in projecting future marine biodiversity and fisheries under climate change
11h50	Romain Pete	Global sensitivity and uncertainty analysis of a dynamic lagoon ecosystem model under different temporal resolution of driving factors
12h15	Criscely Lujan	Uncertainty in fisheries management: the Management Strategy Evaluation
12h40	Lunch	
14h	Roland S��f��rian*	Assessing the predictive ability of Earth system models
14h30	Rapha��l P��lissier	A quick overview of some tropical forest biodiversity models and related sources of uncertainty
15h	Isabelle Mar��chaux	The uncertain fate of the Amazonian forest -- insights from an individual- and trait-based model
15h30	Ghislain Vieilledent	Uncertainty and intra-specific variability in models of forest dynamics
16h	Coffee and tea break	
16h30	Mark Rounsevell	Uncertainty in models & scenarios of land use & land cover change
17h	Peter Verburg	Uncertainty in land use modelling: what does it mean?

\* By visioconference

**Tuesday 25 September 2018**

9h30	Criscely Lujan	Outline of review paper Questions & discussion
10h30	Coffee and tea break	
11h		Discussion: objectives, structure of paper, target journal
12h30	Lunch	
14h		Detailed outline Assignment of writing tasks
16h	Coffee and tea break	
16h30-18h		Writing paper

**Wednesday 26 September 2018**

9h30		Reporting back from the writing of sections Discussion: gaps Discussion: figures
10h30	Coffee and tea break	
11h		Writing to continue
12h30	Lunch	
14h		Writing to continue
15h30	Coffee and tea break	
16-17h		Reporting back Timeline