## Draft syllabus for a course on climate change – theme 1: The contribution of science

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<th>Theme</th>
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| THE CONTRIBUTION OF SCIENCE | 1. Contribution of scientific Panels | IPCC reports  
The work of IPBES and IUCN  
Collaborative and citizen science | | | Know the structuring of expert groups  
Engaging in participatory projects |
| | 2. Fundamental concepts | The notion of tipping points  
Planetary boundaries  
The Carbon Budget and Markets (ETS), Carbon Offset  
Nature’s contributions versus ecosystem services  
The need to reduce GHG emissions | | | Cutx% app |
| | 3. The science of complexity | Definition and limits  
Examples of complex systems  
Stability, Instability, resilience of systems  
Theory of Panarchy | | | Study of D.Meadows' book "THinking in system" |
| | 4. Climate change | Radiative forcing and warming  
The notion of albedo  
Greenhouse gas emissions  
IPCC climate trajectories  
Mitigation and adaptation | | | |