

Séminaire mercredi le 5 février 2020 11:00 / Seminar Wednesday February 5th 2020 11:00h

Sujet/Subject: New WCRP Strategy and WMO Reform: science innovation to serve society

Langue/language : Anglais/English

Conférenciers/Lecturers: **Michel Rixen** is a Senior Scientific Officer of the World Climate Research Programme where he leads the overall coordination of observations, data and modeling efforts.

Résumé/Abstract:

"The seminar will provide an overview of the new World Climate Research Programme (WCRP) Strategy in the context of the WMO Reform, with an emphasis on research priorities for the decade ahead.

The WCRP was established in 1980 to answer two questions: (i) to what extent can the global climate be predicted, and (ii) how have humans influenced the climate? The answers are clear and unequivocal: our climate has changed and will continue to change, largely due to human activities since the mid 20th century. Today, the policy and service setting for climate research is seeking solutions to address the causes and impacts of climate change.

The WCRP Strategic Plan for the period 2019-2028 is based on four objectives that will underpin the next decade of climate science: (1) to advance fundamental understanding of processes, variations and changes in the climate system; (2) to predict the near-term evolution of the climate system; (3) to refine the ability to anticipate future pathways of climate system change; and (4) to support the development of theory and practice in the integration between natural and social sciences.

In parallel, the WMO Reform, now approved by the Eighteenth World Meteorological Congress, supports the science to services process and integrates observations in an Earth system approach to produce a wide range of weather, climate, water and ocean services. In so doing, it broadens the opportunities for the whole WMO community and individual experts from the public, private and

academic sector to contribute to the work of the Organization.

In this context, WCRP is aiming to establish a Project Office to coordinate some of its flagship modeling activities, in particular the Coupled Model Intercomparison Project."