End-term workshop “Climate Predictability & Inter-regional Linkages"
Looking at achievements & future research priorities

Introduction to breakout group Projects’ legacy & added value

Erica Key, Belmont Forum Secretariat
Next Step 3 – Climate

We join with Borealis, Bergen’s festival for new and contemporary music, for this performance of two new works that address the season’s theme of climate change and the challenges it presents and as part of our NEXT STEPS series, we welcome academics from the University of Bergen to illuminate what we hear.

**Weather influences:** Dr Robert Lee (Meteorology) was interviewed by Talk Radio about his study showing forecasts of weather patterns in the UK can be aided by looking at recent weather in the tropics and East Pacific.
Belmont Forum Data Management Plan Scorecard

Bishop, Bradley W.; Ungvari, Judit; Davis, Rowena I.; Lee, Tina; Goudeseune, Lise; Virapongse, Arika; Samors, Robert J.

This document is a resource developed for the Belmont Forum for evaluating formal Data Management Plans submitted by research teams who've been awarded Collaborative Research Action funding.

The purpose and use of this Scorecard is three-fold:

1. as an evaluation tool to quantitatively assess full proposal DMP responses to questions drawn from the Data and Digital Outputs Management Plan (DDOMP) template that are included in the Belmont Forum grant application process on BFGO.org;

2. as a training resource to be shared with potential proposers to help define expectations for data management and/or with awardees (i.e., post-award) to identify specific elements of their data management planning efforts that may be unclear or lacking; and/or

3. as an evaluation tool employed by the Secretariat or TPOs to access milestones and progress during mid- or end-term project review/valorization.

& Inter-regional Linkages
**Introduction**

pyunicorn (Unified Complex Network and Recurrence analysis toolbox) is a fully object-oriented Python package for the advanced analysis and modeling of complex networks. Above the standard measures of complex network theory such as degree, betweenness and clustering coefficient it provides some uncommon but interesting statistics like Newman’s random walk betweenness. pyunicorn features novel node-weighted (mode splitting invariant) network statistics as well as measures designed for analyzing networks of interacting/interdependent networks.
Origin of seasonal predictability for summer climate over the Northwestern Pacific

Overview of attention for article published in Proceedings of the National Academy of Sciences of the United States of America, April 2013

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Climate variability and changes

& Inter-regional Linkages

JPI Climate

Career advancing metrics
- Mendeley Profile
- Google Scholar
- Research Gate
- ORCID
- Altmetrics
- Citation indices
What was your greatest added value?

Enhanced knowledge
Profitability
Community support
Scholar exchange
Open data
Collaborative development
Policy
Web services
Decision support
Marketability
Ecosystem services
Transdisciplinary training
Management
International partnerships

Economic
Interconnected technology
Network development
Translation
cross sector governance
Preventative Measures
Scalability
Early career support
Intervention
Best practices
Security
Digital Health Systems
Codevelopment of a community network of rainfall monitoring

A warmer Pacific Ocean in the following decades could accelerate the ongoing Arctic warming

Identification of worst case scenarios for renewable energy systems

Model spread relative to stratospheric response to Arctic sea ice loss is related to depth and lateral extent of the tropospheric dynamical response

Early summer moisture is the primary controlling factor for tree growth in Northwestern China

Improved predictability of high impact climate events, such as Extreme Cold Spells over Central Asia

Outcomes

There are inconsistencies in the identification of high latitude blocking by algorithms

Around 50% of sea ice reduction in the past two decades might be due to interdecadal climate variability

& Inter-regional Linkages

Distinguish influences of large scale modes of internal variability, external natural, and anthropogenic forcings on the East Asian warm season temperature

Development of fire risk maps for Sweden

Arctic sea ice loss and its linkage to the stratosphere may lead to a nonlinear atmospheric response to global warming

The contribution of CO2 fertilization to changing tree growth still needs to be explored because climate and CO2 are changing simultaneously.