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Barcelona Supercomputing Center
Centro Nacional de Supercomputación

EXCELENCIA SEVERO OCHOA

Forecast Drift and Stationary Systematic Error

SPECS
Seasonal-to-decadal climate Prediction for the improvement of European Climate Services

SEVENTH FRAMEWORK PROGRAMME

PREFACE

Chair: Ben Kirtman

WCRP
World Climate Research Programme

YouTube

Defining Forecast Drift and Stationary Systematic Error

- How to Distinguish Between Forecast Drift and Initialization Shock
    - Forecast Drift is …
    - Initialization Shock is ...
- Stationary vs. Non-Stationary Errors
    - Localized Error Growth vs. Propagating Errors vs. Error Teleconnections
        - How to Distinguish
    - Fast vs. Slow Error Growth
        - How to Distinguish and to Relate to Stationary vs. Non-Stationary Errors

Attributing Forecast Drift and Stationary Systematic Errors

- How to Detect and Attribute Model Errors:
  - Component Models: Atmosphere vs. Ocean vs. Land vs. Ice vs. Coupling vs. Resolved Processes vs. Unresolved Processes vs. Parameterized Physics vs. Numerics vs. Complexity vs. …
  - Initial Condition Error vs. Initialization Shock vs. Forecast Drift vs. …

Coordinated Diagnostics and Metrics to Evaluate

- Should there be a Coordinated Effort?
- Separate Diagnostics and Metrics for Component Models, Coupled System, Forecast Drift, Initialization Shock, Initial Condition Error, Unrepresented or Unresolved Processes …
- Numerical Experiments? Coordinated?

Prepare session summary for the wrap up presentation