

Workshop on seasonal hurricane forecasting

- Identify gaps in knowledge
- Identify opportunity for research and collaboration
- Discuss the use of new technologies
- Review skill of recent forecasts

10:30- 11:30	Atlantic Basin Seasonal Hurricane Prediction: Past, Present and Future Phil Klotzbach (Colorado State University)
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11:30- 12:00	Change of venue (to Severo Ochoa room, BSC) + Coffee break
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Introductory word and objectives of the workshop (LP)

12:00- 12:15	Introduction of participants (if workshop is small enough, (<15 people) each participant could prepare 1 slide explaining where they are from and what their interest is in the topic)
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Session 1: 30 years on: What do we know and what are we missing?

Chair: Suzana Camargo

Rapporteur:

Key points:

- What can we do well (if anything)?
- Is that useful to anyone? And can we make the information more relevant/actionable?
- What do we struggle with? Of those, which ones are
 - Most important?
 - Most achievable to answer?
 - Is there an overlap?
- What is stopping us from making any progress?
- How can we improve these particular aspects?
 - Targeted experiments?
 - Analysis?
- Where do landfall forecasts fit into this picture?
- Is there possibility/interest for collaborating on these aspects, either through a publication or through a collaborative project (e.g. H2020)?

12:15-
13:45

13:45-
14:45

Lunch (Hall of MareNostrum)

Session 2: Machine learning: application to hurricane forecasting

Chair: Tom Philp

Rapporteur:

Key points:

14:45-
16:00

- Introductory talk on machine learning by Nicolas Bruneau (Reask)
- Short presentation of work done by Albert Kahira on the application of machine learning to the seasonal hurricane forecasting problem
- Can ML be applied to solve some of the problems identified previously?
- Can ML be used to develop a user-relevant application? If so, what would that look like?

16:00-
16:30

Coffee (Severo Ochoa room)

Session 3: Contrasting the forecast performances over the 2017 and 2018 Atlantic season

Key points:

16:30-
18:00

- Preliminary analysis of the 2018 Atlantic forecasts
- Performance review of the 2017 Atlantic forecasts
- Can we forecast extreme seasons like 2017?
- Suggested modifications/improvements for hurricane website.

Chair: Phil Klotzbach

Rapporteur:

18:00-18:30 Guided tour of the supercomputer

19:30 Dinner ([Gut](#))

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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