

How many Atlantic hurricanes do we expect for the coming season?

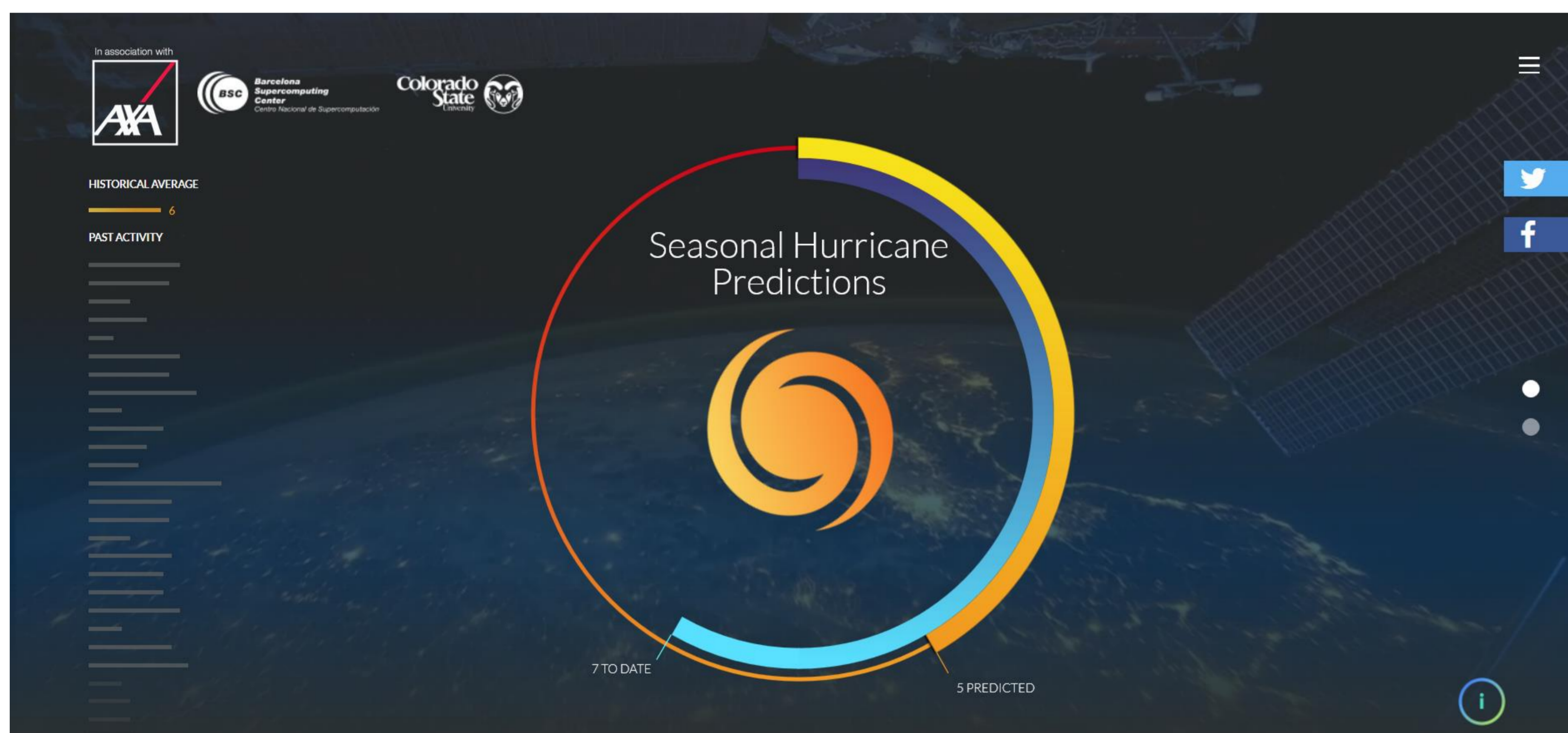
M.Terrado, I. Christel, A. Soret, F.J. Doblado-Reyes, P. Klotzbach, L.-P. Caron

www.seasonalhurricanepredictions.org

Common platform for hurricane predictions from different forecasting centers

Seasonal North Atlantic hurricane forecasting, although far from perfect, is a rapidly evolving research area. Various centres produce their own forecasts, but until recently there was no regularly updated centralised repository for comparing and contrasting these forecasts. Given that North Atlantic hurricanes are the biggest natural peril loss drivers to the insurance industry, it is imperative to understand the science behind these storms in order to understand the risk they pose in any given year.

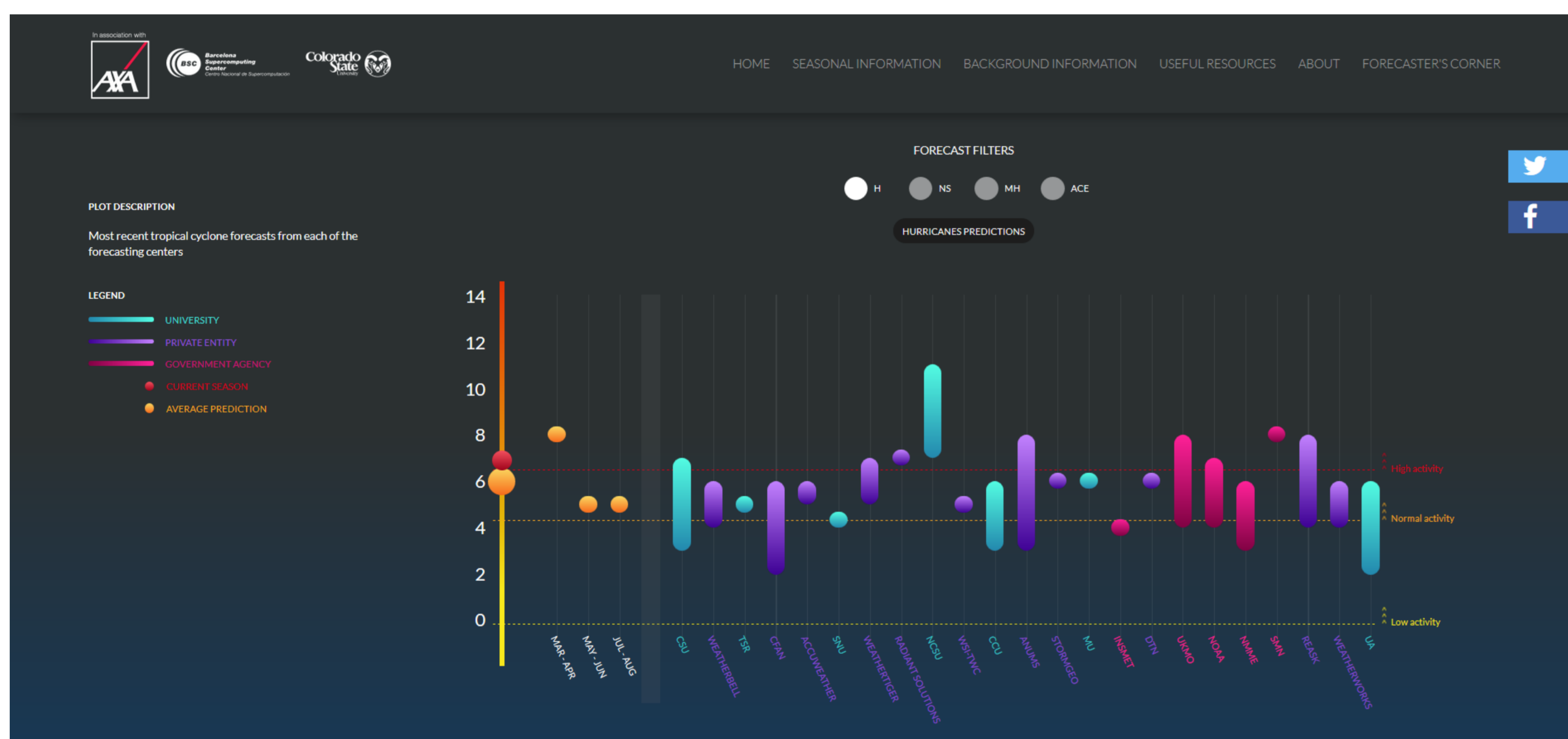
Season 2018



The website Seasonal Hurricane Predictions is an online platform that brings together predictions from different centres that specialise in Atlantic hurricane forecasts (universities, private entities and government agencies).

It has the objective to track seasonal hurricane predictions and the **evolution of hurricane activity from June to November** and make them available to both advanced users and non-specialists.

The platform has been developed by a team of scientists, graphic designers and visualization specialists **along with users.**



Perspectives from the re/insurance sector



“Although predictions of seasonal hurricane activity have been shown to have scientific skill, they are not used in traditional re/insurance processes because of the disconnect between predicting a purely scientific *hazard* as opposed to a real-world *risk*”

Tom Philp, Manager - Science at AXA XL

HAZARD vs RISK

Hazard prediction is necessary to understand risk:

$$Risk = f (Hazard, Exposure, Vulnerability)$$

Hazard: hurricane forecast

Exposure: total socioeconomic exposed value

Vulnerability: how vulnerable buildings/ populations are to the predicted hazard

What is the added value of www.seasonalhurricanepredictions.org?

“By centralizing forecasts from disparate centers – whether private, academic or governmental in nature – we are beginning to develop the necessary dialogue between many different actors and stakeholders that we envisage will allow us to begin to ask targeted scientific questions about seasonal predictions that have immediate real-world impact.”

What’s the main challenge for seasonal hurricane prediction?

“To improve or readjust seasonal predictions of hurricane activity to the point that **seasonal predictions of hurricane risk** can be proven skillful.”