

Challenges in quantifying risk from extreme weather and climate change

Steve Sain

Our goal at Jupiter (jupiterintel.com) is to provide data and analytics services to better predict and manage risks from various hazards that are driven by extreme weather and climate change. For example, tropical cyclones and nor'easters can result in significant flooding along the U.S. Atlantic coast and it is possible that the impacts of these storms will increase with sea-level rise. A challenge to quantifying flood risk is that tropical cyclones and nor'easters are relatively rare events. Weather generators offer an opportunity to supplement the historical record as well as help understand the impacts of a changing climate. In this talk, I'll briefly describe Jupiter's modeling platform and discuss examples where weather generators could play a role.