

TempRisk: Extreme Temperature Risk Prediction

TempRisk by EarthRisk Technologies is a long-range weather analysis platform designed to provide more advanced warning of major heat waves and cold snaps. Designed for professionals in the energy and utility sectors who manage energy resources and invest in commodity futures, TempRisk analyzes the risk for extreme hot and cold weather up to 40 days in advance.

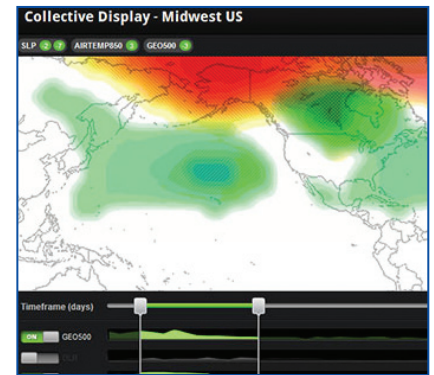
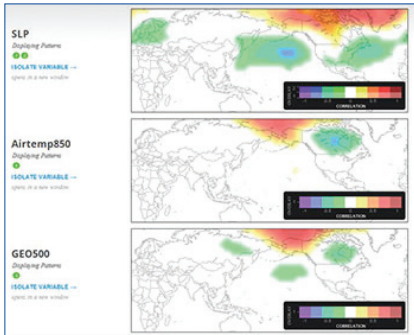
Earth Networks is the exclusive distribution partner with EarthRisk Technologies for the TempRisk product.

Past Patterns: An Indication of Future Extremes

EarthRisk collaborates with researchers at the world's largest and most important centers for earth science research, led by the Scripps Institution of Oceanography at The University of California, San Diego. Scripps research is incorporated into the TempRisk platform, which contains advanced algorithms that use more than 60 years of global weather patterns to assess the risk for future extreme weather events.

Overview

TempRisk (1) uses a comprehensive definition to examine the variability of regional extremes; (2) employs powerful statistical tools to investigate causality and begin a framework to develop models for skillful sub-seasonal predictability, on a probabilistic basis, for regional outbreaks of extreme events; and (3) examines synoptic causes and precursors of individual regional events to create a tool for extended forecasts.

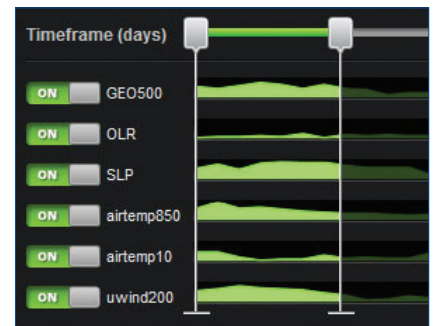


Local Temperature Extremes

TempRisk considers extreme temperatures according to how local temperature thresholds are exceeded on daily timescales. A regional "Magnitude Index" is computed to reflect the temperature intensity, duration and spatial extent of extreme temperature events in each region.

Precursor Weather Variables

The magnitude index is the basis for creating composites of global weather patterns at leading and lagging timescales. NCEP NCAR Reanalysis data is used to test jet stream positions, regional mid-and-upper level air temperatures, pressure patterns, and thunderstorm activity.



Intuitive User Experience

The EarthRisk interface visualizes the vast amount of quantitative data underlying our research and then optimizes it for a web platform, merging web and statistical technologies to create powerful models that can be easily interpreted.

To learn more, visit www.earthrisktech.com or www.earthnetworks.com or contact your Earth Networks representative at 800-544-4429