

ExtendWeather Seasonal Forecast for the Civil Engineering Sector



ExtendWeather generates accurate seasonal forecasts on the climate situation globally and locally to help civil engineering firms better understand seasonal scale weather phenomena to reduce scheduling risk for weather-dependent activities. Firms can improve their downtime risk and maximize returns develop better project management.

Featured Seasonal Forecast Products

ExtendWeather is dedicated to the delivery of practical forecast indicators to the civil engineering sector beyond industry standard precipitation and temperature anomalies:

- Heating/cooling degree day (HDD/CDD) for worker stress
- Standardised Precipitation Index for earthmoving and concrete and asphalt

Indicators for Civil Engineering Risk Management

Project Managers strive to meet the terms of their build contracts. One of the unknowns they have traditionally faced in setting schedules for work conducted largely outdoors. Seasonal and sub-seasonal weather anomalies reduce the risk. When extended rainy periods descend on a site or extreme dry and hot events prevail for extended periods projects can quickly fall behind schedule and staff costs can escalate rapidly. Extreme Forecast Index (EFI) forecast the probabilities of unusual and extreme events in temperature and precipitation and can be an integral part of the Project Managers toolkit to reduce risk and costs posed by extreme weather events. Seasonal and sub-seasonal forecasts offers insurance in the form of compensation if the forecast is incorrect and Project Managers cannot meet the terms of the contract.



Similarly, with an accurate forecast and application by the Project Manager the chances of the terms of a contract being met improve. Project Managers will have made the most efficient use of the available resources and could receive a performance fee from end-users who are party to a contract. Although there is uncertainty associated with forecasts, they are correct over the long term, and using this framework results in long-term benefits.

Modelling and Data Provision

ExtendWeather scientists can provide modelling and tool development services to answer clients' particular operational and planning questions.

We can also deliver data packages that are customized to seamlessly integrate with clients' models for speedy ingestion of new information for timely analysis.

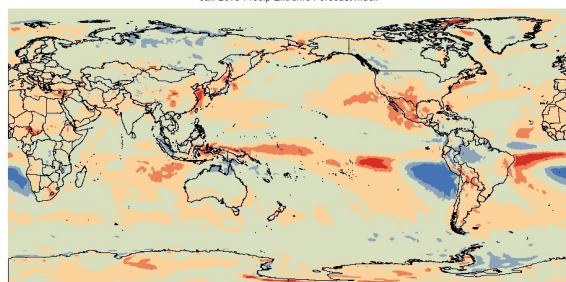


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Innovative sciences, customized solutions

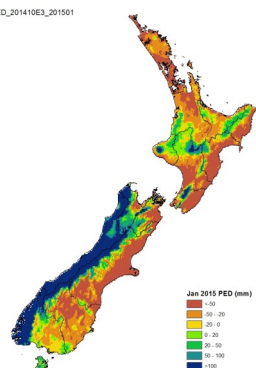


Jan 2015 Precip Extreme Forecast Index

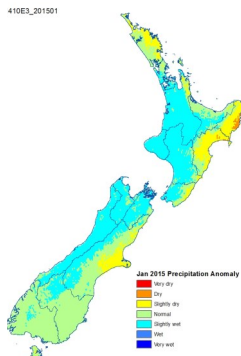


Pr_EFI_201410E3_201501

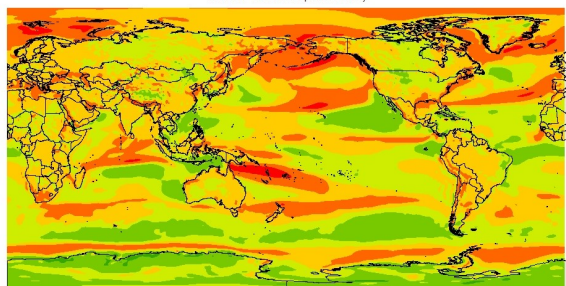
PEI_201410E3_201501



410E3_201501



Jan 2015 10m Wind Speed Anomaly



Wind10_Anomaly_201410E3_201501

Seasonal Forecasts – Our monthly forecasts and 10 day (or biweekly) advisories keep you abreast of the latest model guidance and potential changes to the forecast.

Intelligence – The Seasonal Forecast leverages the valuable (and not widely distributed) data from the second version of the NCEP (National Centre for Climate Predictions) Climate Forecast System (CFSv2). It provides a probabilistic forecast of up to nine months with customized practical indicators for the civil engineering sector. This forecast also discusses teleconnection indexes and other global circulation phenomenon such as El Niño/La Niña.

Practical and Comprehensive – ExtendWeather provides detailed one to nine month customized forecast indicators beside traditional temperature and precipitation forecasts. Including wind and solar radiation and derived products such as drought and wet period onsets, extreme forecast index (EFI), and heat index and potential evapotranspiration index (PED).

Proprietary Models – ExtendWeather has developed different forecast approaches and models, considers ENSO, sea level pressure anomalies and temperature trend and applies a scientifically robust downscaling technique.

About ExtendWeather

ExtendWeather is a brand of CLIMsystems Ltd. With the support from local council, industries, and international institutes and experts, ExtendWeather is able to provide a public website for general seasonal climate forecast products and a subscription service for digital provision of forecast data along with customized services and solutions to civil engineering clients.