

ExtendWeather Seasonal Forecast for the Urban Water Sector



ExtendWeather generates accurate seasonal forecasts on the climate situation globally and locally to help urban water system operators to understand short-term risks to water supplies with flow on impacts on sewerage and waste water management; an extreme climate forecast helps operators plan for abrupt changes.

Featured Seasonal Forecast Products

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

- Heating/cooling degree day (HDD/CDD)
- Standardised Precipitation Index
- River flow

Indicators for Urban Water Management

Application of seasonal and sub-seasonal forecast data can provide the 'look over the horizon' increasingly required by water resource managers. Flash droughts when temperatures rise quickly and rainfall drops away can be 'discovered' weeks in advance and the knowledge can be factored into decision making earlier. Similarly the return of wetter weather can be signaled weeks and months in advance which can be an invaluable piece of knowledge when planning for the phasing in of water restrictions or the planning of social media campaigns to change consumer behaviour.

Extreme Forecast Index (EFI) forecasts probabilities of unusual and extreme events in temperature and precipitation; while the drought/wet index forecasts the onset of drier than usual and wetter than usual conditions that can influence water supply quantity and quality.



Demand management can also be assessed when higher temperatures are expected within a traditional summer season while early on-set of summer-like temperatures can be exposed along with extended summer season temperatures into traditional autumn time. All impact on overall water demand in urban areas for both domestic and irrigation of lawns and gardens both in public spaces and private residences and also impacts on industrial users.

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.



ExtendWeather Seasonal Forecast

Innovative sciences, customized solutions



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.

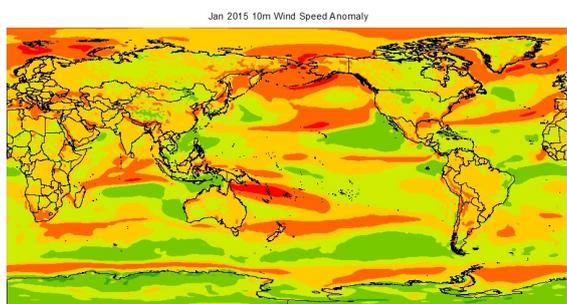
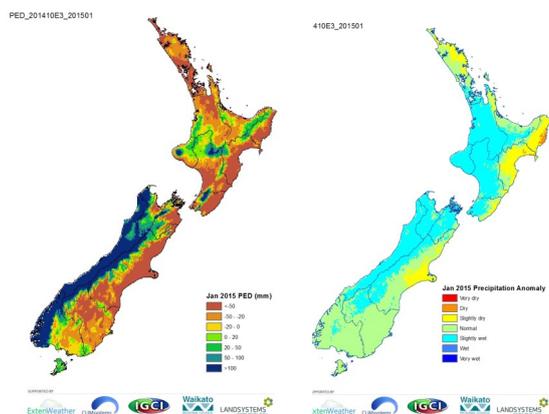
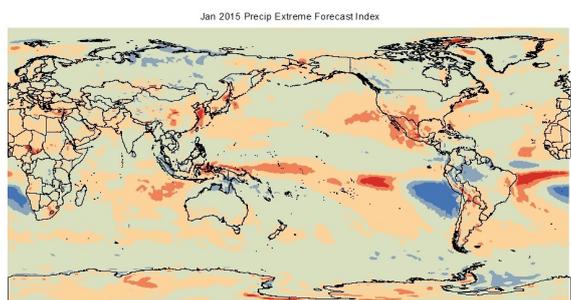
Intelligence –The Seasonal Forecast leverages the valuable (and not widely distributed) data from the second version of the NCEP (National Centre for Climate Predictions) Climate Forecast System (CFSv2). It provides a probabilistic forecast of up to nine months with customized practical indicators for the agricultural 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 potential evapotranspiration index (PED).

Proprietary Models – ExtendWeather develops a different 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 energy industry clients.



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