

ENCAST SOLUTIONS



PINPOINT FORECASTS FOR ANY POINT, ANYWHERE ON THE GLOBE

Accurate short-range forecasts are critical to the bottom line of businesses and agencies across a variety of sectors including energy, agriculture, transportation, aviation and government.

OVERVIEW

The research is clear: Infusing localized, real-time weather information into numerical weather prediction improves the accuracy of short-term forecasts, as does utilizing the highest-resolution models, eliminating model bias, and updating the forecast frequently with the latest observations. ENcast solves the biggest industry forecast problems and sets a new standard for accurate hourly weather forecasts from 0 to 15 days.

BENEFITS



SENSOR FORECAST

Pinpoint-accurate forecasts of temperature, wind, precipitation probabilities and more can be produced for any sensor location that transmits reliable data.

- Statistically and bias-corrected forecasts using sensor data
- 0-15 day hourly forecast updated twice per day
- Optional premium upgrade to [hourly update service](#) for 0-6 days
- Turnkey solution: Place a sensor where the need for an accurate forecast is greatest



LOCATION FORECAST

Highly accurate forecasts can be provided for any latitude/longitude, with or without a sensor.

- Delivered as a dataset of pre-specified locations via lat/lon request
- 0-15 day hourly forecast updated twice per day
- Optional premium upgrade to [hourly update service](#) for 0-6 days



CITY FORECAST

Custom forecasts for consumer audiences are generated for 50,000+ cities around the world.

- Delivered as a dataset of pre-specified locations from a city list
- 0-10 day day/night forecast updated twice per day
- Optional premium upgrade to [hourly forecast with hourly update service](#) for 0-6 days



You want to make sure that you're taking that forecast you're getting and interpreting that forecast and delivering that message accurately.



John Turnour, Head Groundskeeper at Washington Nationals

KEY FEATURES

- Earth Networks Total Lightning Network®
- Unique Sensor Technology
- Lightning Activity Detection System
- Total Lightning Detection
- Dangerous Thunderstorm Alerts

THE HIGHEST LEVEL OF WEATHER FORECASTING AT YOUR FINGERTIPS

EnCast is powered by Earth Networks weather and lightning sensor network. With 35,000 locations around the globe, it is the world's largest network and has the ability to measure both in-cloud and cloud-to-ground lighting and provide hourly updates of sensor observations.

Unmatched Forecast Accuracy

- Collaboration of real-time neighborhood-level weather and lightning observations
- Utilizes best-performing set of high-resolution global models
- Hourly updates that surpass the accuracy of individual models, ensemble models and any single proprietary model

Hyper-Local Nowcast Advantage

- Tuning the forecast is made easy with more than 35,000 locations worldwide that includes 12,000 stations exclusive to Earth Networks
- Updates every two seconds
- Real-time weather and lightning observations enables pinpoint accuracy in the 0-18 hour range

Hourly Updates

- ENcast forecast feeds can be upgraded to hourly update service supported by Earth Networks' high-speed data feed
- Hourly forecast re-runs are tuned with the latest sensor observations and produce the most accurate hourly forecasts out to 144 hours (6 days)

ENcast Forecast Variables

- Temperature
- 24hr High Temperature
- 24hr Low Temperature
- Wind Direction
- Wind Speed
- Dew Point
- Cloud Cover
- Thunderstorm Probability
- 1hr Precipitation Probability
- 1hr Accumulated Precipitation*
- Fog Probability*
- Visibility*
- Rain Probability*
- Ice Probability*
- Snow Probability*
- Surface Pressure*
- Mean Sea Level Pressure*
- Surface Insolation*

*Sensor and Location Forecast Only

CONNECT WITH US

For more than 20 years Earth Networks has operated the world's largest and most comprehensive weather observation, lightning detection, and climate networks.

Our observations inform and alert consumers, enterprises and governments around the world, providing them with advanced environmental intelligence for decision making and safety.

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