Make weather-related decisions in time to matter

Reliable, award-winning 2- to 52-week forecasts

Adapting to a more volatile climate

Climate volatility puts businesses and society at increasing risk. The World Economic Forum reports that of the top 10 global economic loss events in 2022, nine were climate related. Even unseasonable fluctuations in temperature or precipitation can reduce crop yields and quality, disrupt supply chains, hike up insured losses, and otherwise upend business operations.

Until now, forecasts beyond 10 days, when the predictive value of atmospheric models hits a wall, were little better than a coin flip. Adapting to today’s more volatile climate requires reliable, longer-term forecasts — far enough ahead to make decisions to prevent loss and capitalize on brief windows of opportunity.

“Climate change is widespread, rapid, and intensifying.”
— Intergovernmental Panel on Climate Change (IPCC)

Make informed decisions with superior subseasonal-to-seasonal forecasts

Salient delivers reliable, probabilistic forecasts for temperature, precipitation, and other weather variables 2–52 weeks ahead — the subseasonal-to-seasonal (S2S) timeframe. Our science is the outgrowth of decades of research by scientists at MIT and Woods Hole Oceanographic Institute, pioneers in probabilistic forecasting.

Salient was established in 2019 after taking first place in the U.S. government’s year-long Sub-Seasonal Climate Forecast Rodeo, earning the highest scores in all precipitation and temperature categories.

Business value of Salient’s probabilistic S2S forecasts

→ Increase resilience
By planning ahead.
→ Reduce weather-related risks
Such as crop loss, property damage, claims losses, and mismatched supply and demand.
→ Improve business performance
For example, increase crop yield and quality by adjusting the timing, depth, and density of sowing based on forecasted temperature and moisture conditions.

"We think Salient is the state of the art in S2S weather forecasting. Their data has many applications for us, one of them being in ag-tech, as we endeavour to tackle the pressing need to feed the next billion."
— Dr. John Manobianco, Senior Weather Modeler, BASF

Early Salient customers

ABInBev  BASF
syngenta  ZURICH
The Salient difference

Salient’s forecasting models combine new insights from ocean and land-surface data, research-based weather analysis techniques, and a machine learning method called deep neural networks.

Plan further ahead with our reliable S2S forecasting model

Our decades of research reveal that ocean and land-surface conditions exert the largest influence on seasonal weather patterns. We’ve developed deep learning algorithms that extract insights from variations in this data, constantly discovering new connections between observed conditions in one location (e.g., ocean salinity) and weather patterns (e.g., land precipitation) thousands of miles away. We continually assess which forecasting models are the most skilful for particular regions, seasons, and lead times, blending the models to achieve the highest reliability. At least twice a year we improve the model, giving priority to the metrics, timescales, and priorities that matter most to our customers.

Gain trust by validating our forecasts against industry benchmarks

The reliability of our S2S forecasts has been validated by leading companies; world-leading research institutions like Woods Hole, MIT, and University of Oklahoma; and U.S. government agencies, including the National Oceanic and Atmospheric Administration (NOAA) and the Bureau of Reclamation. Don’t just take our word for it: we provide 30 years of backtesting data with 14 detrended skill metrics so that you can internally validate our forecast quality for the locations and seasons you care about.
Plan further ahead with our reliable S2S forecasting model

View forecasts for the global regions (up to 25km spatial resolution), timescales, and variables that matter to you. Forecasts include the probability of multiple outcomes over the coming weeks, months, and seasons. Probabilistic forecasts help you make more nuanced weather-related business decisions. For example, with 75% confidence of colder-than-average temperatures and high soil moisture during the first month after crop sowing, farmers might be advised to apply less nitrogen, waiting for warmer temperatures when plants can use more of it.

Collaborate with a world-class team. Salient’s team includes experts in physical oceanography, climatology and the global water cycle, and machine learning. We also work closely with leading research institutions, including University of Oklahoma School of Meteorology, considered the premier extreme-weather forecasting research group in the United States.

Industries we serve

Food and Agriculture  Insurance  Energy

Learn more or request a demo: info@salientpredictions.com

Visit www.salientpredictions.com to read more about our services.