



# Global and Regional Weather Forecast Accuracy Overview 2017–2022

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## Table of Contents

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Table of Contents .....	1
Introduction .....	2
Weather Metrics Analyzed .....	4
Weather Forecast Providers .....	12
Collection Methodology .....	14
Global Skill Summary .....	16
United States Skill Summary .....	52
Canada Skill Summary .....	76
Central America Region Skill Summary .....	98
South America Region Skill Summary .....	121
Europe Region Skill Summary .....	144
Africa Region Skill Summary .....	168
Middle East Region Skill Summary .....	191
Asia/Pacific Region Skill Summary .....	214
About ForecastWatch.com .....	237
Disclosure and Grant of License .....	237

## Introduction

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Weather has an impact on everyone, individuals and businesses alike. Many people thus have an interest in knowing what the weather will bring, or at least how it will affect them. Weather forecasts help these people plan for weather events, particularly those that are severe and deadly, to stay safe and keep property protected. They also help people make daily plans, such as for commutes, picnics, hikes, day trips, how to dress, affected allergies or other health-related issues, and more. Substantial financial impacts can be at stake for businesses that depend highly on weather forecasts and need to plan for weather events—such as businesses that depend on energy, agriculture, and transportation. In the past three years (2020–2022), the United States alone saw a total of 60 individual billion-plus-dollar weather and climate disasters (22 in 2020, 20 in 2021, and 18 in 2022). Before 2020, the most for a single year was 16.

This causes people and businesses to look to weather forecasts—and their accuracy—more than ever to try to mitigate losses by preparing for what is coming. If weather forecasts are not accurate, damages and fatalities from severe weather increase, and the perception of forecasting value decreases. It is important for businesses that rely on weather forecasts to evaluate the accuracy of past forecasts to help evaluate risk and opportunities. It is also imperative for weather forecast providers themselves to evaluate the accuracy of past forecasts to identify areas for which improvement is needed. Not only is this improvement important to sustain relationships and trust with customers and users of their forecasts, but it is also necessary to save lives and minimize damages from severe weather events.

This report provides a holistic analysis of weather forecast performance for 84 different metrics for forecasts made one to nine days in advance in eight regions around the world as well as a global summary. This report examines forecasts from 23 different weather forecast providers, seven of which provided forecasts for all years and regions. Four global providers were added in 2020, five in 2021, and one in 2022. Five providers were regional only. MeteoGroup stopped providing forecasts to ForecastWatch due to acquisition at the end of 2019, and BBC, which was found in the previous report, was removed for this report as it was determined that they did not forecast for all locations ForecastWatch monitors in Europe. Over 250 million forecasts were gathered and analyzed for accuracy for this report; these forecasts were from 2,182 locations in these eight regions: United States, Canada, Central America, South America, Europe, Africa, Middle East, and Asia/Pacific. Each provider was given one point for each time the provider finished in first place for each metric. For ties, the single point was divided equally by the number of providers. The total number of points was counted and is the metric used in this report.

In this analysis, The Weather Channel was determined to be the overall most accurate provider globally, but the most accurate provider varied by region of the world and meteorological element. In addition, most weather forecast providers did not forecast for all years, all locations, or all metrics, and thus could not win or earn points for those.

## Weather Metrics Analyzed

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### Temperature Metrics

ForecastWatch analyzed 24-hour high and low temperature and Model Output Statistics (MOS) high and low temperature forecasts using nine metrics each, for a total of 36 temperature metrics. The nine metrics were average error (bias), standard deviation of error, most negative error, most positive error, average absolute error, root-mean-squared error (RMSE), percentage of forecasts within three degrees Fahrenheit, percentage of forecasts with no error, and percentage of busted forecasts.

#### Forecast Time Period Definitions

The 24-hour high temperature is defined as the highest temperature in the 24-hour local standard time calendar day, while the 24-hour low temperature is defined as the lowest temperature in that same 24-hour calendar day. The MOS high is defined as the highest temperature in a time interval of 7 a.m. to 7 p.m. local standard time. The MOS low is similar, but it uses the period of 7 p.m. to 8 a.m. local standard time.

For high temperature forecasts and the 24-hour low, the days-out calculation is determined by subtracting the forecast day from the day the forecast was collected. For example, a 24-hour high temperature forecast for June 10, 2021, collected on June 1, 2021, would be a nine-day-out forecast. For MOS low, the end day of the period is used. Thus, if the MOS low period was 7 p.m. June 9, 2021, through 8 a.m. June 10, 2021, the June 10 date would be used for days-out calculations.

#### Observed High and Low Temperature

The maximum temperature from the 7 a.m. to 7 p.m. local standard time hourly observations was used to construct the high temperature observation. The minimum temperature from the 7 p.m. to 8 a.m. local standard time hourly observations was used to construct the low temperature observation. No attempt to determine high and low temperatures outside these time periods, curve fit, or otherwise determine an intra-hour temperature estimate was performed.

#### Average Error (Bias)

Temperature bias is the positive or negative difference between forecast temperature and observed temperature. Bias helps answer the question of how well the average high (or low) forecast temperature corresponds to the average high (or low) observed temperature. If the bias is negative, it means on average that the forecasted high or low temperature was lower than the observed temperature, and if it is positive, then the forecasted temperature was on average higher than the

observed temperature. A win in this metric would be the provider with the average error closest to zero, whether positive or negative.

### **Standard Deviation of Error**

This is the standard deviation of the measured error of all forecasts when compared to observed temperatures. The lower the standard deviation, the smaller the variation of errors and thus the more consistent the forecast temperature errors. Thus, a win in this metric would be the provider with the lowest standard deviation of error.

### **Minimum Recorded Error and Maximum Recorded Error**

The minimum and maximum recorded errors are the most negative and most positive errors recorded between forecast temperatures and the observed temperatures. Wins in these metrics would be the smallest absolute value of each of the minimum and maximum recorded errors (closest to zero).

### **Average Absolute Error**

The average absolute error represents the average of the absolute value of the difference between forecast temperatures and observed temperatures. This means that all errors are positive and represent the average magnitude of error. This measures how far off the set of forecasts is on average without regard for whether they are too high or too low. The provider with the smallest average absolute error would be the winner in this metric.

### **Root-Mean-Squared Error (RMSE)**

To calculate RMSE, the arithmetic difference of a temperature forecast-observation pair is squared, then all squared errors summed, and then divided by the number of events. Finally, the square root of this average of squared errors is obtained. A lower RMSE means more accurate forecasts; a higher RMSE means less accurate forecasts. A set of forecasts that shows greater variance is penalized more and will have a higher RMSE than forecasts with consistent error. A perfect set of forecasts would have an RMSE equal to zero. The provider with the smallest RMSE would win this metric.

### **Percentage of Forecasts within Three Degrees Fahrenheit**

This metric refers to the percentage of forecasts with an error of less than or equal to 3°F from the observation, whether too high or too low. The winner in this metric would be the provider with the highest percentage of forecasts within three degrees Fahrenheit.

## Percentage of Forecasts with No Error

This metric refers to the percentage of forecasts with an error of less than 1°F from the observation. In other words, the integer part of the error is zero. The winner in this metric would be the provider with the highest percentage of forecasts with no error. Note that this is a subset of the above metric.

## Percentage of Busted Forecasts

A “bust” is a forecast error of greater than 10°F, whether positive or negative. The winner in this metric would have the smallest percentage of busted forecasts.

## Opacity Metrics

ForecastWatch analyzed 24-hour and “daytime” (7 a.m. to 7 p.m.) MOS opacity forecasts using seven metrics each for a total of 14 total opacity metrics. The first three metrics were opacity bias, opacity average absolute error, and opacity standard deviation of error, all using a percentage of sky cover forecast. The next four metrics were percentage of text forecasts with same sky, text sky forecast bias, icon forecasts with same sky, and icon sky forecasts bias.

### Opacity Bias

Opacity bias is the average error of opacity (percentage of clear sky) forecasts. A negative bias means that forecasts were sunnier than observed, while a positive bias means that forecasts were cloudier than the observed sky cover. The winner in this metric would be the provider with the smallest absolute bias, or the bias closest to zero.

### Opacity Average Absolute Error

Opacity average absolute error is defined as the average absolute error of the opacity forecasts. This means that all errors are positive and represent the average magnitude of error. This measures how far off the set of forecasts is on average without regard for whether they are too high or too low. The lowest average absolute error would win this metric.

### Opacity Standard Deviation of Error

The opacity standard deviation of error is the average standard deviation of the difference in opacity between the forecast and the observation. The lowest standard deviation would win this metric.

### Percentage of Text Forecasts with Same Sky

This is defined as the percentage of forecasts when the observed sky cover was the same as the text forecast provided. Sky cover observations and text forecasts were converted to canonical METAR-reported sky cover categories: clear (sunny), few (mostly sunny), scattered (partly sunny/partly



cloudy), broken (mostly cloudy), and overcast (cloudy). For example, a forecast of “scattered clouds” would be categorized in the scattered category. The provider with the highest percentage of text forecasts with the same sky cover would win this metric.

### **Text Sky Forecast Bias**

A text forecast for opacity is one that can be categorized into one of the five canonical sky conditions (sunny, mostly sunny, partly sunny/partly cloudy, mostly cloudy, and cloudy). Canonical sky conditions from observations are calculated by taking the derived opacity and grouping into the appropriate sky condition.

Assuming sunny is 0% opacity, mostly sunny is 25%, partly sunny/partly cloudy is 50%, mostly cloudy is 75%, and cloudy is 100%, the text forecast bias is the average difference between a text forecast of sky cover and observed sky cover. The provider with the lowest absolute bias would win this metric.

### **Percentage of Icon Forecasts with Same Sky**

This is defined as the percentage of forecasts when the observed canonical sky cover was the same as an icon forecast provided. The provider with the highest percentage of icon forecasts with the same sky would win this metric.

### **Icon Forecast Bias**

An icon forecast for opacity is one that can be mapped to one of the five canonical sky conditions (sunny, mostly sunny, partly sunny/partly cloudy, mostly cloudy, and cloudy). Canonical sky conditions from observations are calculated by taking the derived opacity and grouping into the appropriate sky condition.

Assuming sunny is 0% opacity, mostly sunny is 25%, partly sunny/partly cloudy is 50%, mostly cloudy is 75%, and cloudy is 100%, the icon forecast bias is the average difference between an icon forecast of sky cover and observed sky cover.

## **Precipitation Metrics**

ForecastWatch analyzed 24-hour probability of precipitation using 13 metrics and text precipitation forecasts using five metrics, for a total of 18 unique metrics. The 13 probability of precipitation (POP) metrics were Brier score, Brier skill score, and 11 bins of POP forecasts (0%, 10%, 20%, ..., 100%) relative to the percentage of time precipitation occurred. The five text precipitation forecast metrics were text forecast precipitation bias, hit rate, false alarm rate, percent correct, and equitable threat score (ETS).



## Observed Precipitation

Precipitation measurements were taken from 24-hour local standard time precipitation observations. In the United States and Canada, if 0.01 inches or more of liquid-equivalent precipitation fell during any hour of that day, it was classified as a precipitation day. Internationally, if the observation report of weather noted precipitation, it was considered a precipitation day. Otherwise, it was considered a non-precipitation day.

If a text forecast mentioned precipitation, it was considered a forecast for precipitation. If precipitation was not mentioned, it was considered a non-precipitation forecast.

## Percentage of POP Forecasts for Each Bin

POP forecasts were compared against precipitation measured or observed at the locations analyzed. The forecasts were grouped into eleven bins: 0%, 10%, 20%, etc., through 100%. A POP forecast between 0% and 5% (inclusive) was binned into the 0% bin, 5% (exclusive) to 15% (inclusive) into the 10% bin, and so on until the 100% bin, which consisted of forecasts between 95% and 100% (inclusive). The percentage of precipitation events for the forecasts in each bin was calculated. Finally, the difference between the POP forecast bin and the percentage of precipitation events for forecasts within that POP was measured, with the winner being the provider who came closest to the bin percentage. For example, if for all 70% probability of precipitation forecasts a provider made, there was precipitation 78% of the time, and for another, it was 68% of the time, the winner would be the provider where there was precipitation observed 68% of the time they forecast a 70% chance of precipitation.

## Brier Score

POP can be assessed in two ways: reliability and resolution. A POP forecast is reliable when precipitation occurs the same percentage of time it is predicted. For example, if it rained 10% of the time the POP forecast called for a 10% chance of rain, the POP forecast would be considered reliable. But reliability is only half of the equation. Consider a scenario in which a forecaster always predicts a 30% chance of rain for a given location and, on average, there is precipitation in that location three out of every ten days. The POP forecast would be reliable, but not necessarily useful because it does not define with absolute certainty whether rain will take place; it is not resolved.

The other measure of a forecast is resolution. A resolved POP forecast would always predict either no chance of precipitation or a 100% chance of precipitation since precipitation either occurs or it does not. There is no place for POP in a resolved forecast. Now consider a forecast that predicts a 100% chance of precipitation on dry days and a 0% chance of precipitation on rainy or snowy days. It is

resolved because it predicted either precipitation or completely dry conditions, but this example shows that a resolved forecast may not necessarily be reliable.

Therefore, to fully evaluate a POP forecast, both reliability and resolution must be considered. A Brier score, which considers both reliability and resolution, is one measure used to evaluate POP forecasts. A Brier score ranges from zero to one, with zero being perfectly reliable and resolved. The Brier score for an individual forecast is calculated by squaring the difference between the forecasted probability of precipitation (from 0 to 1) and the outcome (1 if precipitation occurs and 0 if it does not). The Brier score for a set of forecasts is then calculated by averaging the Brier score for all individual forecasts.

The winner in this metric would be the provider with the lowest Brier score.

### **Brier Skill Score**

The Brier skill score measures a Brier score against a reference forecast. The reference forecast used here is a persistence forecast, which forecasts 0% POP into the future if it is dry today, and 100% POP if there is precipitation today. A higher value represents better forecast performance, thus the winner in this metric would be the provider with the highest Brier skill score.

### **Text Precipitation Forecast Precipitation Bias**

Precipitation bias refers to the propensity to predict more or less precipitation than is observed. A bias of greater than one reflects a wet bias (more precipitation forecast than occurs), while a bias of less than one reflects a dry bias (less precipitation forecast than occurs). The provider with a text precipitation forecast precipitation bias closest to one would win this metric.

### **Text Precipitation Forecast Hit Rate**

Hit rate, also known as probably of detection, is the percentage of time that precipitation was forecast when it occurred. The winner of this metric would be the provider with the highest percentage.

### **Text Precipitation Forecast False Alarm Rate**

False alarm rate, also known as probability of false detection, is the percentage of time that precipitation did not occur when it was forecast. The provider with the lowest false alarm rate would be considered the winner of this metric.

### **Text Precipitation Forecast Percent Correct**

Percent correct is the percentage of time that forecasts (for both precipitation and no precipitation) were correct. The highest percent correct would win this metric.

## **Text Precipitation Forecast Equitable Threat Score**

Equitable threat score (ETS), also known as critical success index, measures the skill of a forecast relative to chance. ETS helps answer the question of how well forecast precipitation events corresponded to the observed precipitation events (accounting for hits due to chance). Zero indicates no skill, and one indicates perfect skill. The provider with the highest ETS would win this metric.

## **Wind Metrics**

ForecastWatch analyzed 24-hour and “daytime” MOS wind forecasts using eight metrics for a total of 16 metrics for wind forecasts. The eight wind metrics analyzed were wind speed bias and average absolute error, wind direction bias and average absolute error, same and opposite octant in eight-point compass rose percentage, and same and opposite sedecimant in 16-point compass rose percentage.

### **Wind Speed Bias**

Average wind speed bias is the positive or negative difference between forecast wind speed and observed wind speed. If the bias is negative, the forecasted wind speed on average was lower than the observed wind speed, and if it is positive, the forecasted wind speed was on average higher than the observed wind speed. The provider with the wind speed bias closest to zero would win this metric.

### **Wind Speed Average Absolute Error**

This measure takes the absolute value of the error (bias) of each forecast so that all errors are positive, and then averages all errors. This measures how far off the set of forecasts is on average without regard for whether they were too high or too low. The provider with the lowest average absolute error would win this metric.

### **Wind Direction Bias**

Wind direction bias is the positive or negative difference between forecast wind direction and observed wind direction. Bias helps answer the question of how well average forecast wind direction corresponds to the average observed wind direction. A positive bias means the forecasted wind direction was more clockwise than the observed wind direction, and a negative bias means the forecasted wind direction was more counterclockwise than the observed wind direction. The winning provider would have its wind direction bias closest to zero.

### **Wind Direction Average Absolute Error**

Average wind direction absolute error is the average of the absolute value of the difference between forecast wind direction and observed wind direction in degrees. The provider with the lowest wind direction average absolute error would win this metric.

### **Same Octant in Eight-Point Compass Rose Percentage**

The wind direction eight-point compass percent correct measure reflects the percentage of time a wind forecast accurately predicts the observed wind direction based on eight possible octants, or wind directions: north, northeast, east, southeast, south, southwest, west, and northwest. The highest percentage of wind direction forecasts in the same octant would win this metric.

### **Opposite Octant in Eight-Point Compass Rose Percentage**

This metric reflects the percentage of time a wind forecast falls in the opposite octant (for example, north instead of south) that is observed based on the eight possible octants listed above. The lowest percentage of wind direction forecasts in the opposite octant from the observed wind direction would win this metric.

### **Same Sedecimant in 16-Point Compass Rose Percentage**

The wind direction 16-point compass percent correct measure reflects the percentage of time a wind forecast accurately predicts the observed wind direction observed based on 16 possible sedecimants, or wind directions: north, north-northeast, northeast, east-northeast, east, east-southeast, southeast, south-southeast, south, south-southwest, southwest, west-southwest, west, west-northwest, northwest, and north-northwest. The highest percentage of wind direction forecasts in the same sedecimant would win this metric.

### **Opposite Sedecimant in 16-Point**

This metric reflects the percentage of time a wind forecast falls in the opposite sedecimant (for example, north-northwest instead of south-southeast) that is observed based on the sixteen possible sedecimants listed above. The lowest percentage of wind direction forecasts in the opposite sedecimant from the observed average wind direction would win this metric.

## Weather Forecast Providers

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- **AccuWeather:** Forecasts were collected using the AccuWeather API at <http://api.accuweather.com> using a specific location code.
- **AerisWeather:** Forecasts were collected starting January 1, 2020, using the AerisWeather API at <https://www.aerisweather.com/develop/api/>.
- **CFAN (US only):** Forecasts were collected starting January 1, 2022, from feed provided by CFAN.
- **Dark Sky:** Forecasts were collected using the Dark Sky API at <http://api.forecast.io>. Latitude and longitude of the observation station were used to retrieve specific forecasts.
- **Environment Canada (Canada only):** Forecasts were collected from the Environment Canada weather forecast website at <https://weather.gc.ca/>.
- **Foreca/Vaisala:** Forecasts were collected from the ten-day forecast page at <http://www.foreca.com>. During the analysis period, this transitioned from using forecasts from the Foreca website to using the API that populates the page. The location parameter used was the city and state of the observation location for the website, and a location code (either ICAO or WMO) for the API.
- **Global News (Canada Only):** Forecasts were collected from the Global News website at <https://globalnews.ca/>.
- **Global Weather Corporation:** Forecasts were collected via a private commercial API provided by Global Weather Corporation.
- **MeteoGroup:** Forecasts were collected until December 31, 2019, via a private commercial API, after which MeteoGroup merged with DTN and stopped providing API access to ForecastWatch.
- **Microsoft:** Forecasts were collected starting January 1, 2022, from an API provided by Microsoft.
- **National Weather Service (US Only):** Forecasts were collected from the NWS website at <https://www.weather.gov>.
- **NWS Digital Forecast (US Only):** Forecasts were collected using the NWS Digital Forecast API at <https://graphical.weather.gov/xml/>.

- **OpenWeather:** Forecasts were collected starting January 1, 2020, using the Open Weather API at <https://api.openweathermap.org/>.
- **Pelmorex:** Forecasts were collected via a private commercial API provided by Pelmorex.
- **The Weather Channel:** Forecasts were provided by a private commercial API from <https://api.weather.com>. Latitude and longitude of the observation station were used to retrieve specific forecasts.
- **Weather News:** Forecasts were collected starting January 1, 2021, from the <http://weathernews.jp/onebox/> website.
- **Weather Trends:** Forecasts were collected starting January 1, 2021, from feed provided by Weather Trends.
- **Weatherbit:** Forecasts were collected starting January 1, 2020, using the Weatherbit API from <https://api.weatherbit.io/>.
- **Weerplaza:** Forecasts were collected starting January 1, 2020, from the Weerplaza website at <https://www.weerplaza.nl/>.
- **Wetter:** Forecasts were collected starting January 1, 2021, from the <https://www.wetter.com> website.
- **WetterOnline:** Forecasts were collected starting January 1, 2021, from the WetterOnline public API (<https://api.wetteronline.de>).
- **World Weather Online:** Forecasts were collected using the World Weather Online API from <http://api2.worldweatheronline.com/>.
- **yr.no:** Forecasts were collected starting January 1, 2021, from the [yr.no](http://yr.no) website.



## Collection Methodology

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### Observation Data

Observation data were collected from the primary Automated Surface Observing System (ASOS) network in the United States as well as international equivalents. United States and international data were collected from the Integrated Surface Database (ISD) product. Canadian data were collected from Environment Canada. All products consisted of hourly and daily observation parameters.

### Observed High and Low Temperature

The maximum and minimum temperature observations are from the 24-hour local time temperature observations and were used to construct the high and low temperature observation. These observations are generally either FM-12 (SYNOP), FM-15 (METAR), or FM-16 (SPECI) records. United States 24-hour high and low temperature observations were collected from the Summary of the Day (SOD) records, which use five-minute sampling. All 24-hour high and low international observations were derived from hourly and special report observations. No attempt to curve fit or otherwise determine an intra-hour temperature estimate was performed.

### Observed Precipitation

Precipitation measurements were taken from 24-hour standard time precipitation observations. For United States and Canada locations, if 0.01 inches or more of liquid-equivalent precipitation fell during any hour of that day, it was considered to be a day with precipitation. Internationally, precipitation reports were used to determine precipitation observations. The occurrence or non-occurrence of precipitation was then compared to the POP forecast.

### Observed Wind

Wind conditions were taken from hourly observations over the course of a 24-hour period from midnight to midnight standard time. These observations were then averaged to construct the daily wind observation.



## Forecast Collection

Data were collected from each of the eight regions at specific times during the day. Table 1 shows collection times for each region. For example, daily temperature forecasts were collected beginning at 22:00 UTC (5 p.m. Eastern Time) in the United States and continued until all forecasts were collected. For each location, forecasts from all providers were collected at the exact same time.

Region	Collection Time	Number of Stations (2017–2020)	Number of Stations (2021–2022)
United States	22:00 UTC	1045	988
Canada	21:40 UTC	36	128
Europe	16:00 UTC	220	673
Asia/Pacific	08:00 UTC	65	245
Africa	15:30 UTC	13	40
Middle East	13:00 UTC	20	108
Central America	23:00 UTC	11	18
South America	21:00 UTC	14	78
<b>Total</b>		<b>1424</b>	<b>2278</b>

Table 1: Regions and Collection Times

## Validity

Forecasts were considered valid if they were complete (i.e., they contained a high and low temperature forecast, a POP forecast, and a wind forecast), and if they passed both manual and automated audits. These audits checked for out-of-bounds values and other indicators that suggested the forecast should be marked as invalid. Forecasts that were simply bad (inaccurate or wrong) were not considered invalid; however, forecast issues caused by system errors or delivery problems (such as a -32768 degree high temperature, a 120% chance of rain or a 270 kph wind speed) were declared invalid.

## Global Skill Summary

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The total number of global first-place finishes for the 84 metrics evaluated by ForecastWatch favored The Weather Channel for every year from 2017–2022 of the 23 weather forecast providers analyzed. This held true for forecasts for every period from one day out through nine days out, continuing the results seen in the previous 2017–2020 report.

For 2017–2019, 12 providers were evaluated. For 2020, AerisWeather, OpenWeather, Weatherbit, and Weerplaza were added to ForecastWatch monitoring, and MeteoGroup dropped out, bringing the total to 15 evaluated providers. In 2021, Weather News, Weather Trends, Wetter, WetterOnline, and yr.no were added for a total of 20 evaluated providers, while CFAN and Microsoft were added in 2022 for 22 total evaluated providers in 2021. MeteoGroup was the lone provider included in this report without monitored forecasts in 2022.

Only six providers (AccuWeather, Dark Sky, Foreca/Vaisala, Pelmorex, The Weather Channel, and World Weather Online) provided forecasts for most metrics for all six years, most days out, and for all eight regions. All other providers—17 of the 23—had fewer than half the maximum possible metrics for all years, regions, and days out analyzed.

CFAN, Environment Canada, Global News, the National Weather Service, and the NWS Digital Forecast each only forecasted for one region; all other providers' skills were based on the sum of all eight regions. Global Weather Corporation forecast globally, but only provided forecasts for temperature and precipitation (not POP, sky cover, or wind), encompassing 41 metrics, which was just under half the metrics for the analysis period. yr.no provided forecasts for only 65 metrics for 2021 and 2022, Weather News could only have 51 metrics evaluated, and CFAN, in addition to forecasting only for one region and one year, only had 36 metrics evaluated. Table 2 shows the total number of metrics in which each provider competed out of the maximum possible 36,288 metrics (84 metrics x 8 regions x 9 days out x 6 years).

Provider	Number of Regions (8)	Number of Years (6)	Number of Days Out (9)	Average Number of Metrics (84)	Total Metrics Completed, 2017–2022	Percent of Maximum Possible	Rank
AccuWeather	8	6	9	84.0	36,288	100.0%	1
AerisWeather	8	3	9	82.0	17,712	48.8%	7
CFAN	1	1	9	36.0	324	0.9%	23
Dark Sky	8	6	7	83.6	28,080	77.4%	6
Environment Canada	1	6	5	63.5	1904	5.2%	21
Foreca/Vaisala	8	6	9	80.7	34,848	96.0%	5
Global News	1	6	9	63.6	3432	9.5%	19
Global Weather Corp	8	6	9	41.0	17,712	48.8%	7
MeteoGroup	8	3	6	75.1	10,818	29.8%	12
Microsoft	8	1	9	80.0	5760	15.9%	17
NWS Digital Forecast	1	6	6	62.0	2232	6.2%	20
NWS Website	1	6	4	62.0	1488	4.1%	22
OpenWeather	8	3	9	77.7	16,776	46.2%	11
Pelmorex	8	6	9	84.0	36,288	100.0%	1
The Weather Channel	8	6	9	83.0	35,856	98.8%	4
Weather News	8	2	9	42.3	6091	16.8%	16
Weather Trends	8	2	9	74.0	10,656	29.4%	13
Weatherbit	8	3	9	82.0	17,712	48.8%	7
Weerplaza	8	3	9	77.8	16,812	46.3%	10
Wetter	8	2	9	74.0	10,656	29.4%	13
WetterOnline	8	2	3	78.0	3744	10.3%	18
World Weather Online	8	6	9	84.0	36,288	100.0%	1
yr.no	8	2	9	65.0	9360	25.8%	15

Table 2: Total Regions, Years, Days out, Metrics Completed, and Percent of Maximum Possible

The Weather Channel recorded the most first-place finishes globally for every combination of year and day out (54 of 54 total combinations), as well as the most total first-place finishes for all days out and all years (12,469 total compared to the next highest of 4014 total for Pelmorex). Counting only the percentage of first-place points relative to the number of metrics forecasted, Global Weather Corporation had the best percentage of global first-place finishes for 2017 for forecasts one through six days out, Global News had the best percentages for 2018 for seven and nine days out, Weather

News had the best for 2021 for seven days out, and CFAN had the best percentages for 2022 seven, eight, and nine days out. All relative highest percentages for all the other years and days out combinations (42 of the 54) belonged to The Weather Channel. For example, for forecasts nine days out in 2022, although The Weather Channel had 251 total best points across all regions (37.35% of the 84 metrics analyzed that year and day out across all regions, all of which were analyzed for The Weather Channel) and CFAN only had 21 best points (for one region), CFAN only provided forecasts for 36 metrics, so these 21 best points represented 58.33% of the total possible points for this provider due to their more limited forecast metrics.

The Weather Channel earned 34.36% of all total first-place points globally, for all days out, and all years. Pelmorex was second with 11.06% of the total, Global Weather Corporation was third with 9.13%, and AccuWeather was fourth with 8.78%. Looking at the percentage of first-place points each provider earned relative only to the metrics for which they had forecasts to evaluate, The Weather Channel was first with first-place points comprising 34.78% of their own possible points, CFAN was second with 30.17%, Global Weather Corporation was third with 18.70%, and MeteoGroup was fourth with 18.29%. Note that for these latter percentages, they do not add to 100% for all providers because they adjust for the more limited nature of regions, days out, years, and metrics for which each individual provider had forecasts.

ForecastWatch looked at global trends through the years with forecast providers that forecasted more than one year during the six-year span. When doing this, we determined the share of first place points each provider would have received if all providers for a given year and day out combination received an equal number of first-place points and then determined the ratio of actual first-place points received relative to that percentage. This accounts for differing number of providers for different years and days out.

For example, for one day out in 2017, there were 13 providers with forecasts for at least one region. Had each provider received an equal number of first-place points, they would have each received 6.46 points, or 7.69% (1/13) of the total possible. In 2022 for one day out, there were 22 providers with forecasts for at least one region. Spreading out the first-place points equally, then, would have meant that each provider would have received only 3.82 first-place points, or 4.55% (1/22) of the total possible. The Weather Channel received 27.24 total first-place points (32.43%) in 2017 and 27.79 first-place points (33.09%) in 2022. Because there were more providers in 2022, this means despite a very similar number of first-place finishes between the two years, the points it received in 2017 was 4.22 times the number it would have with equally distributed first-place finishes (27.24/6.46), while in 2022 they received 7.28 times the number they would have received with an equal

distribution (27.79/3.82). An improvement from 4.22 to 7.28 is certainly larger than one from 27.24 to 27.79, and the former comparisons are used simply because it was more difficult to receive more first-place finishes in 2022 with more competing providers. So in this case, The Weather Channel saw a much more impressive finish in 2022 one day out with nine more providers than in 2017.

Using these comparisons and a linear trendline through all years for which each provider forecasted, The Weather Channel was the provider that trended upward the most, in terms of its share of first-place finishes, from 2017–2022. In fact, it had the highest upward trend in first-place finish share for every day out, with an average gain—in terms of percentage of first-place points relative to those earned with an equal distribution across all providers—of +77.78% per year. To give meaning to this number: as stated above, The Weather Channel had 4.22 times the number of first-place points for one day out in 2017 that it would have had if all first-place points were distributed equally among providers for that year and day out. That number was 4.04 in 2018, 5.19 in 2019, 6.60 in 2020, 7.75 in 2021, and 7.28 in 2022. Fitting a linear trend through these data gives an increase of 0.7965 per year, or an increase of 79.65% times the expected shared first-place points per year for one day out. Averaging these values for all days out results in an average increase of 77.78% per year of received first-place points by The Weather Channel relative to expected first-place points if they were all evenly distributed, with the greatest improvement seen two days out (an increase of 105.51% times the expected shared points per year).

MeteoGroup saw the second highest upward trend (albeit with no forecasts after 2019) with +29.03%, Foreca/Vaisala saw the third highest with a trend of +24.61%, and World Weather Online saw an average gain of +24.33% per year. No other provider saw an average trend of higher than +5%. The largest downward trends in relative points earned were seen by WetterOnline (-85.02% in its two years of forecasts for one to three days out), Weather Trends (-79.34%), and Wetter (-78.29%). Several other providers also saw decreasing trends between -10% and -20% per year, including Weatherbit (-14.84%), AccuWeather (-13.08%), Weather News (-11.62%), and Pelmorex (-11.17%). Weather News did, however, see the second best upward trends for eight and nine days out, as well as positive trends for one, two, and four days out. It saw significant downward trends for three, six, and especially seven days out.

CFAN and Microsoft did not have trends analyzed, as they both only forecasted for one year, and trends for those providers with forecasts for only two–three years are only based on those limited data.

In the tables shown for each day out and region in this report, grey cells indicate which providers did not have any forecasts analyzed for that day out, year, and/or region, while the light yellow highlighted cells indicate the leader in best points for that particular year, day out, and/or region.

Table 3 and Table 4 show the rank of each provider by region; Table 3 shows the rank by total points earned, while Table 4 shows the rank by the percentage of points possible for each individual provider, adjusting for the fact that most providers forecasted more limited days out, years, and/or regions. These tables can be used to see at a glance that some providers had better forecasts, relative to their competitors, for certain regions than others.

Table 9 through Table 26 show the results of the global forecast analysis (number of first-place forecasts and percentage of all possible metrics) for forecasts one through nine days in advance.



Provider	Overall	United States	Canada	Central America	South America	Europe	Africa	Middle East	Asia/Pacific
AccuWeather	4	3	2	3	4	5	5	6	6
AerisWeather	17	16	13	15	16	18	16	17	17
CFAN	15	10							
Dark Sky	8	8	9	5	7	8	7	8	8
Environment Canada	23		11						
Foreca/Vaisala	6	7	3	6	8	3	8	3	5
Global News	22		4						
Global Weather Corporation	2	2	5	4	6	2	2	5	4
MeteoGroup	7	6	7	7	5	6	6	7	7
Microsoft	12	15	14	9	12	9	9	10	10
NWS Digital Forecast	10	9							
National Weather Service	14	13							
OpenWeather	18	18	17	10	14	14	14	11	15
Pelmorex	3	5	6	2	3	4	4	2	2
The Weather Channel	1	1	1	1	1	1	1	1	1
Weather News	20	17	18	18	18	15	18	18	18
Weather Trends	11	11	16	13	10	12	11	12	11
Weatherbit	16	19	15	14	13	10	13	15	13
Weerplaza	9	12	10	11	9	11	10	9	9
Wetter	13	14	12	17	11	13	12	13	14
WetterOnline	19	20	19	16	17	16	15	14	12
World Weather Online	5	4	8	8	2	7	3	4	3
yr.no	21	21	20	12	15	17	17	16	16

Table 3: Rank of Providers by Region and All Possible Points



Provider	Overall	United States	Canada	Central America	South America	Europe	Africa	Middle East	Asia/Pacific
AccuWeather	8	6	5	6	6	7	7	9	9
AerisWeather	22	18	15	17	18	18	18	18	18
CFAN	2	2							
Dark Sky	15	14	13	7	11	13	11	12	11
Environment Canada	17		12						
Foreca/Vaisala	10	13	6	10	13	4	13	6	7
Global News	5		3						
Global Weather Corporation	3	3	4	5	3	1	2	2	2
MeteoGroup	4	4	2	3	2	3	3	3	4
Microsoft	6	5	7	4	7	5	4	4	8
NWS Digital Forecast	14	11							
National Weather Service	12	10							
OpenWeather	23	19	19	13	17	17	15	13	17
Pelmorex	7	8	8	2	5	6	6	5	3
The Weather Channel	1	1	1	1	1	2	1	1	1
Weather News	19	17	17	15	16	10	16	17	15
Weather Trends	13	9	16	11	8	11	9	11	12
Weatherbit	20	20	18	16	15	14	14	15	16
Weerplaza	18	16	11	14	9	15	12	10	10
Wetter	16	12	9	18	10	12	10	14	13
WetterOnline	11	15	14	8	12	8	8	8	6
World Weather Online	9	7	10	12	4	9	5	7	5
yr.no	21	21	20	9	14	16	17	16	14

Table 4: Rank of Providers by Region and Percent of Competed Metrics for Each Provider

## Forecasts by Time Period

Table 5 and Table 6 below show the total rank of each provider for each number of days out; Table 5 shows the rank by total points earned, while Table 6 shows the rank by the percentage of points possible for each individual provider, adjusting for the fact that most providers forecasted more limited days out, years, and/or regions. These tables can be used to see at a glance that some providers had better forecasts, relative to their competitors, in the short range or long range, depending on the provider.

### One Day Out

For one day out, The Weather Channel earned the most points every year from 2017–2022, with its share ranging from 31% in 2018 to over 41% in 2020. It is noted, however, that Global Weather Corporation, which only forecasts for 41 of the 84 metrics, earned more than half the points that The Weather Channel did in 2017, and thus received a higher percentage of their possible first-place points (37.10%) than The Weather Channel (34.93%); however, Global Weather Corporation largely faded in first-place points earned after 2018.

The second greatest number of first-place points went to Global Weather Corporation in 2017, MeteoGroup in 2018 and 2019, AccuWeather in 2020, Global Weather Corporation again in 2021, and Microsoft in 2022.

Combining all six years, The Weather Channel earned a total of 181.90 total points (36.09% of the total), Global Weather Corporation was second with 52.29 total points (10.38%), and World Weather Online was third with 43.26 total points (8.58%). Only 11 of the 23 providers had forecasts for all six years for one day out, and of those, only seven provided forecasts globally (Environment Canada, Global News, the National Weather Service, and the NWS Digital Forecast each only provided forecasts for one region).

### Two Days Out

Two days out was similar to one day out in that The Weather Channel earned the most points every year from 2017–2022. It earned about 30% of the first-place points in 2017 and 2018 and 37–43% every year from 2019–2022. Global Weather Corporation again earned the greatest percent of their own possible points in 2017 (35.83% compared to 31.43% for The Weather Channel) due to their more limited metrics in which they competed, but again faded thereafter.

The second greatest number of first-place points were earned by Global Weather Corporation in 2017, MeteoGroup in 2018 and 2019, AccuWeather in 2020, Foreca/Vaisala in 2021, and Microsoft

in 2022. As with one day out, only 11 of the 23 providers had forecasts collected for all six years for two days out.

Combining all six years, The Weather Channel had the most total first-place points with 184.80 (36.67% of the total). As with one day out, Global Weather Corporation was second with 48.98 points (9.72%) and AccuWeather was third with 39.85 total points (7.91%).

### **Three Days Out**

For three days out, The Weather Channel earned a total of 156.56 points (31.07% of the total) across all six years, claiming the most first-place finishes every year. They claimed between 26% and 40% of the maximum possible points per year.

The second-place finishers by year were AccuWeather in 2017–2020, WetterOnline in 2021, and Microsoft in 2022. Eleven of the providers again had forecasts for all six years.

For all six years combined, the second greatest number of first-place finishes belonged to AccuWeather (65.93 total points; 13.08% of the total) and the third greatest number belonged to Global Weather Corporation (47.23 points, 9.37%).

### **Four Days Out**

For forecasts four days out, The Weather Channel earned all first-place points for all six years, with shares ranging from 29.53% in 2017 to 37.03% in 2019.

For 2017, Pelmorex earned the second greatest number of first-place points. The second greatest number of first-place points from 2018–2020 belonged to AccuWeather, while in 2021 Global Weather Corporation claimed the second greatest number. World Weather Online had the second greatest number of first-place points in 2022.

For all six years combined, The Weather Channel recorded the greatest number of first-place points for four days out with 167.62 total points. This was 33.26% of all possible first-place points. AccuWeather was second with 63.77 points (12.65%), and Global Weather Corporation was third with 40.36 points (8.01%).

### **Five Days Out**

The National Weather Service only provided forecasts up to four days out, reducing the total number of providers that gave forecasts all six years and five days out to ten.

The Weather Channel continued to claim the most first-place points for every year and overall, with 192.07 points total for the six years (38.11% of the total). Their share of first-place points ranged from 33.4% in 2017 to just under 42% in 2020.

The second greatest number of first-place points by year belonged to Pelmorex in 2017, MeteoGroup in 2018 and 2019, AccuWeather in 2020, Foreca/Vaisala in 2021, and World Weather Online in 2022.

Global Weather Corporation had the second greatest number of first-place points for all six years combined for five days out, with 42.51 points (8.43%), while Pelmorex claimed the third greatest with 40.61 points (8.06%).

## **Six Days Out**

For forecasts six days out, The Weather Channel claimed the most first-place finishes all six years with 180.30 total points (35.77% of the total). Its share of first-place finishes ranged from 27.7% in 2017 to nearly 42% in 2020. Due to lesser numbers of metrics in which these providers competed, Global Weather Corporation had the highest percentage of first-place points relative to the number in which they competed in 2017 (33.25% compared to The Weather Channel's 29.86%), while MeteoGroup had the highest in 2019 (32.77% compared to The Weather Channel's 31.51%).

With Environment Canada only forecasting out to five days (with the exception of 2017 when they forecasted out to six days), the number of providers that forecasted for all six years and six days out was reduced to nine of the 23.

The second greatest numbers of first-place points were earned by Pelmorex in 2017, Global Weather Corporation in 2018, MeteoGroup in 2019, AccuWeather in 2020, Foreca/Vaisala in 2021, and World Weather Online in 2022.

For the total of all six years, Global Weather Corporation had the second greatest number of first-place points for six days out with 50.08 (9.94% of the total), and MeteoGroup had the third greatest with 46.67 points (9.26%).

## **Seven Days Out**

For seven days out, the NWS Digital Forecast no longer provided forecasts (they stopped at six days out), so the total number of providers with forecasts for all six years dropped to eight. The Weather Channel saw the greatest number of first-place finishes in all six years, claiming a share of between just under 36% and a little over 44% every year. Global Weather Corporation claimed the second greatest number of first-place finishes in 2017, 2018, and 2020, Pelmorex claimed the second greatest in 2019, Foreca/Vaisala claimed the second greatest in 2021, and World Weather Online had the second greatest in 2022.

Adjusted for the number of metrics in which each provider competed, The Weather Channel only earned the greatest percentage of first-place points relative to their maximum possible in 2019 and 2020. In 2017, that honor went to Global Weather Corporation; Global News earned it in 2018, Weather News in 2021, and CFAN in 2022. Note that CFAN and Global News only forecast for one region each and Global Weather Corporation only competes in 41 metrics. Weather News also only competes in around 50 metrics.

For all years, The Weather Channel earned the most total first place-points at 202.28 (40.14% of the total), while Global Weather Corporation was second with 60.91 points (12.09%) and Pelmorex was third with 58.03 points (11.51%).

## **Eight Days Out**

Dark Sky only provided forecasts through seven days out, further reducing the number of providers that forecasted all six years and for eight days out to only seven.

The Weather Channel again claimed the most first-place finishes in all six years, varying from 36.5% of the total share in 2022 to 53.34% of the total share in 2018. With fewer competitors this far out in the forecast, it can become easier for a provider to earn a greater share of the first-place points. The second greatest number of first-place points belonged to Pelmorex in 2017 and 2018, Global Weather Corporation in 2019 and 2020, Foreca/Vaisala in 2021, and World Weather Online in 2022.

Relative to the number of metrics in which each provider competed, The Weather Channel did claim the highest percentage again eight days out for all years except for 2022. In 2022, CFAN claimed 52.78% of the possible first-place points for the metrics in which it competed.

In total for eight days out, The Weather Channel earned 216.55 first place points (42.97% of the total). Global Weather Corporation was second with 64.21 points (12.74%), and Pelmorex was third with 59.40 points (11.79%).

## **Nine Days Out**

Finally, for nine days out, seven providers again forecasted for all six years. The Weather Channel, as with all other days out, earned the greatest number of first-place points for all six years, with shares varying from 37% in 2022 to over 49% in 2018. CFAN again earned the greatest number of first-place points, relative to the number of metrics in which it competed, in 2022, while The Weather Channel had the most in every other year.

The second greatest number of points earned belonged to Pelmorex in 2017, Global Weather Corporation from 2018–2020, Foreca/Vaisala in 2021, and World Weather Online in 2022.

The Weather Channel’s total number of first-place points for all six years and nine days out was 210.17, or 41.70% of the total. Global Weather Corporation had the second greatest with 59.40 points (11.79%), while Pelmorex had the third greatest with 57.55 points (11.42%).

Provider	Overall	1 Day Out	2 Days Out	3 Days Out	4 Days Out	5 Days Out	6 Days Out	7 Days Out	8 Days Out	9 Days Out
AccuWeather	4	4	3	2	2	4	7	6	6	5
AerisWeather	17	17	18	15	16	16	12	14	13	13
CFAN	15	21	22	19	17	15	15	12	9	9
Dark Sky	8	8	8	8	9	8	9	7		
Environment Canada	23	23	23	23	22	21	21			
Foreca/Vaisala	6	7	5	5	7	7	5	4	4	4
Global News	22	20	20	22	21	20	20	17	15	16
Global Weather Corporation	2	2	2	3	3	2	2	2	2	2
MeteoGroup	7	5	6	6	6	5	3			
Microsoft	12	9	9	11	10	13	17	15	12	15
NWS Digital Forecast	10	10	11	12	12	9	8			
National Weather Service	14	11	10	10	8					
OpenWeather	18	18	19	16	20	17	18	16	11	12
Pelmorex	3	6	7	7	4	3	4	3	3	3
The Weather Channel	1	1	1	1	1	1	1	1	1	1
Weather News	20	22	17	18	19	19	14	11	17	17
Weather Trends	11	14	13	13	11	11	11	10	8	8
Weatherbit	16	15	16	20	15	14	16	13	14	11
Weerplaza	9	16	14	14	13	10	10	8	7	7
Wetter	13	13	15	17	14	12	13	9	10	10
WetterOnline	19	12	12	9						
World Weather Online	5	3	4	4	5	6	6	5	5	6
yr.no	21	19	21	21	18	18	19	18	16	14

Table 5: Rank of Providers by Days out and All Possible Points



Provider	Overall	1 Day Out	2 Days Out	3 Days Out	4 Days Out	5 Days Out	6 Days Out	7 Days Out	8 Days Out	9 Days Out
AccuWeather	8	6	7	5	5	8	11	11	10	7
AerisWeather	22	21	22	22	21	19	17	16	16	17
CFAN	2	8	6	2	2	2	2	2	1	1
Dark Sky	15	11	12	15	16	15	16	13		
Environment Canada	17	18	10	12	13	21	18			
Foreca/Vaisala	10	10	9	10	11	9	8	7	6	6
Global News	5	7	5	7	6	5	5	4	4	4
Global Weather Corporation	3	2	2	3	3	3	4	3	3	3
MeteoGroup	4	4	4	4	4	4	3			
Microsoft	6	3	3	6	7	6	13	10	11	11
NWS Digital Forecast	14	15	16	16	15	11	6			
National Weather Service	12	16	13	14	8					
OpenWeather	23	20	21	21	22	20	20	17	14	15
Pelmorex	7	9	11	11	9	7	7	5	5	5
The Weather Channel	1	1	1	1	1	1	1	1	2	2
Weather News	19	23	18	17	20	16	10	6	13	13
Weather Trends	13	14	15	13	12	12	12	12	9	10
Weatherbit	20	17	20	23	19	18	21	15	17	16
Weerplaza	18	19	19	20	17	14	15	14	8	9
Wetter	16	12	17	18	14	13	14	9	12	12
WetterOnline	11	13	14	8						
World Weather Online	9	5	8	9	10	10	9	8	7	8
yr.no	21	22	23	19	18	17	19	18	15	14

Table 6: Rank of Providers by Days out and Percent of Completed Metrics for Each Provider



## Individual Metrics

It is instructive to break down the first-place finishes for each provider by forecasted metric group (high temperature, low temperature, precipitation, POP, winds, and opacity). This helps in understanding how the best points were calculated and evaluating the value to place on the first-place finish metric overall. It also helps to see some strengths and weaknesses of various providers.

Table 7 and Table 8 show the total percentage of first-place finishes and rank of each provider for each metric group; Table 7 shows the percentage and rank by total points earned, while Table 8 shows the percentage and rank by the percentage of points possible for each individual provider, adjusting for the fact that most providers forecasted more limited days out, years, and/or regions. The percentages are rounded to the nearest whole percent.

These tables can be used to see at a glance that some providers had better forecasts, relative to their competitors, for some metric groups than others. For example, it can be seen that although The Weather Channel did not finish with the most first-place points in opacity and POP, its dominance in temperatures and especially winds more than made up for this to allow it to easily finish with the most overall. As another example, it can be seen that World Weather Online's strength was in opacity (sky cover) while Foreca/Vaisala's strength lies in precipitation forecasting (both the 24-hour precipitation and POP categories).

Provider	Overall Rank	High Temperature	Low Temperature	Opacity	Precipitation	POP	Wind
AccuWeather	4	10% (3)	12% (3)	3% (8)	1% (14)	9% (4)	7% (2)
AerisWeather	16	0% (16)	0% (19)	1% (14)	1% (13)	2% (11)	0% (15)
CFAN	21	2% (11)	3% (8)				
Dark Sky	8	2% (7)	1% (16)	5% (5)	6% (6)	7% (5)	3% (5)
Environment Canada	23	0% (20)	0% (23)	0% (17)	0% (19)	0% (20)	
Foreca/Vaisala	6	4% (5)	3% (7)	3% (9)	14% (2)	24% (1)	2% (6)
Global News	12	0% (17)	0% (18)	0% (19)	0% (20)	0% (19)	1% (10)
Global Weather Corporation	3	26% (2)	20% (2)		7% (4)		
MeteoGroup	7	2% (10)	3% (5)	14% (3)	5% (7)	4% (6)	2% (7)
Microsoft	10	2% (6)	1% (14)	2% (13)	0% (16)	2% (10)	1% (8)
NWS Digital Forecast	20	2% (9)	1% (10)	0% (20)	6% (5)	3% (7)	
National Weather Service	22	1% (13)	2% (9)	2% (10)	0% (21)	1% (17)	
OpenWeather	15	0% (21)	0% (20)	2% (12)	1% (12)	1% (14)	1% (13)
Pelmorex	2	5% (4)	6% (4)	19% (2)	0% (17)	14% (3)	5% (4)
The Weather Channel	1	38% (1)	41% (1)	9% (4)	35% (1)	23% (2)	70% (1)
Weather News	19	1% (14)	1% (15)	0% (18)		1% (15)	
Weather Trends	11	2% (8)	3% (6)	0% (20)	1% (15)	1% (13)	1% (14)
Weatherbit	14	0% (19)	1% (11)	0% (16)	2% (11)	1% (12)	1% (12)
Weerplaza	9	1% (15)	1% (13)	3% (7)	4% (8)	3% (9)	1% (9)
Wetter	13	0% (22)	0% (22)	4% (6)	4% (9)	1% (16)	0% (17)
WetterOnline	17	0% (23)	1% (17)	2% (11)	0% (18)	1% (18)	0% (16)
World Weather Online	5	1% (12)	1% (12)	30% (1)	9% (3)	3% (8)	5% (3)
yr.no	18	0% (18)	0% (21)	1% (15)	2% (10)		1% (11)

Table 7: Rank of Providers by Metric Group and All Possible Points

Provider	Overall Rank	High Temperature	Low Temperature	Opacity	Precipitation	POP	Wind
AccuWeather	8	10% (6)	12% (4)	3% (18)	1% (17)	9% (6)	7% (3)
AerisWeather	22	1% (18)	1% (19)	3% (17)	2% (13)	3% (17)	1% (16)
CFAN	2	22% (3)	38% (2)				
Dark Sky	15	3% (14)	1% (18)	6% (11)	7% (10)	8% (7)	3% (8)
Environment Canada	17	1% (15)	0% (23)	23% (5)	1% (16)	2% (20)	
Foreca/Vaisala	10	4% (13)	3% (13)	3% (16)	14% (4)	29% (1)	2% (10)
Global News	5	12% (5)	11% (6)	5% (13)	1% (19)	5% (11)	47% (2)
Global Weather Corporation	3	26% (2)	20% (3)		7% (8)		
MeteoGroup	4	5% (8)	11% (5)	73% (1)	15% (2)	11% (4)	6% (5)
Microsoft	6	14% (4)	5% (10)	13% (7)	2% (14)	11% (5)	7% (4)
NWS Digital Forecast	14	5% (11)	4% (12)	0% (20)	14% (3)	7% (8)	
National Weather Service	12	5% (10)	5% (9)	13% (8)	0% (21)	4% (15)	
OpenWeather	23	0% (21)	0% (21)	4% (15)	3% (12)	4% (13)	1% (15)
Pelmorex	7	5% (9)	6% (8)	19% (6)	0% (20)	14% (3)	5% (7)
The Weather Channel	1	38% (1)	41% (1)	10% (10)	35% (1)	23% (2)	70% (1)
Weather News	19	4% (12)	2% (15)	5% (12)		4% (14)	
Weather Trends	13	6% (7)	9% (7)	0% (20)	2% (15)	4% (12)	2% (13)
Weatherbit	20	0% (20)	3% (14)	1% (19)	3% (11)	3% (18)	1% (14)
Weerplaza	18	1% (17)	2% (16)	11% (9)	9% (7)	5% (10)	2% (11)
Wetter	16	0% (23)	0% (22)	24% (4)	13% (5)	3% (16)	0% (17)
WetterOnline	11	0% (22)	5% (11)	30% (2)	1% (18)	6% (9)	2% (9)
World Weather Online	9	1% (16)	1% (17)	30% (3)	9% (6)	3% (19)	5% (6)
yr.no	21	0% (19)	0% (20)	4% (14)	7% (9)		2% (12)

Table 8: Rank of Providers by Metric Group and Percent of Competed Metrics for Each Provider

## High Temperature

The Weather Channel (38%), Global Weather Corporation (26%), and AccuWeather (10%) were the top three forecasters for high temperatures, with CFAN third if you adjust for their much more limited one region and one year, as CFAN earned 22% of all high temperature metrics in which they competed. The Weather Channel also earned the most first-place finishes for all nine days out.

## Low Temperature

The Weather Channel (41%), Global Weather Corporation (20%), and AccuWeather (12%) were the top three forecasters for low temperatures, with CFAN second if you adjust for their much more limited one region and one year, as CFAN earned 38% of all high temperature metrics in which they competed. The Weather Channel and CFAN (for the United States in 2022) dominated first-place finishes for low temperature forecasts. Temperatures were the best metrics for AccuWeather and Global Weather Corporation; however, Global Weather Corporation only had forecasts for one other metric group (precipitation). CFAN did not have forecasts for any other metric group. The Weather Channel performed better for temperatures than for opacity and precipitation.

The Weather Channel also earned the most first-place finishes for low temperatures for all nine days out.

## Opacity

Opacity (sky cover) is where World Weather Online shined. They dominated this metric group with 30% of the first-place finishes, followed by Pelmorex (19%) and MeteoGroup (14%). MeteoGroup only had forecasts for six days out and three years, so adjusting for those, they earned a majority of the forecasts in which they competed. WetterOnline, which only had forecasts for 2021 and 2022, also barely surpassed World Weather Online when adjusting for only the percentage of maximum competed points for each provider.

Opacity was the best metric group for MeteoGroup, Pelmorex, WetterOnline, and World Weather Online, and the worst for The Weather Channel. This was partly because it was one of the more competitive metrics as sky cover can be more difficult to forecast than some other metrics such as temperatures.

World Weather Online also earned the most first-place finishes for opacity for all nine days out.

## Precipitation

The Weather Channel (35%), Foreca/Vaisala (14%), and World Weather Online (9%) were the top three providers for precipitation. MeteoGroup and the NWS Digital Forecast move to second and third, respectively, when adjusting for only those metrics in which each provider competed, because MeteoGroup only forecasted for three years and six days out, and the NWS Digital Forecast only for one region and six days out.

The Weather Channel earned the most first-place finishes for 24-hour precipitation for all nine days out.

## Probability of Precipitation

Foreca/Vaisala (24%), The Weather Channel (23%), and Pelmorex (14%) were the top three forecasters for POP. These top three remain the same even when adjusting for different numbers of metrics in which different providers competed. POP is where Foreca/Vaisala really shined, especially when combining the 24-hour precipitation and POP metrics for Foreca/Vaisala.

The Weather Channel had the most first-place finishes for most of the short term (one and three–five days out), while Foreca/Vaisala had the most first-place finishes for the longer range (two and six–nine days out).

## Winds

Wind forecasting was completely dominated by The Weather Channel in every region and globally. The top three providers for winds were The Weather Channel (70%), AccuWeather (7%), and World Weather Online (5%). In fact, just over a third (35.7%) of the global first-place finishes earned by The Weather Channel came from winds, and The Weather Channel had more first-place finishes in the wind metric alone than any provider had globally for all metrics combined.

The Weather Channel had the most first-place finishes for wind for all nine days out—in most cases, around ten times as many as its nearest competitor.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.70	6.65	11.40	9.06	1.75	3.21
AerisWeather				0.93	1.03	1.24
CFAN						1.03
Dark Sky	2.94	5.03	2.48	8.28	3.11	2.96
Environment Canada	0.03	0.00	0.06	0.06	0.00	0.17
Foreca/Vaisala	1.80	4.47	2.77	1.97	6.37	8.26
Global News	0.09	0.32	0.28	0.06	0.17	0.12
Global Weather Corp	15.21	12.54	7.13	5.97	8.33	3.10
MeteoGroup	7.14	13.83	13.13			
Microsoft						14.31
NWS Digital Forecast	1.47	2.94	1.47	1.47	0.00	1.03
NWS Website	2.20	0.00	0.18	3.12	2.06	0.00
OpenWeather				1.11	1.21	0.73
Pelmorex	11.16	5.75	2.99	2.97	4.19	3.19
The Weather Channel	27.24	26.10	33.53	34.67	32.57	27.79
Weather News					0.28	0.50
Weather Trends					4.70	1.59
Weatherbit				3.71	1.12	0.86
Weerplaza				2.23	0.53	1.91
Wetter					4.99	1.62
WetterOnline					5.59	1.30
World Weather Online	6.02	6.38	8.58	8.38	5.42	8.47
yr.no					0.56	0.60

Table 9: Global One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.36%	7.92%	13.57%	10.78%	2.08%	3.82%
AerisWeather				1.11%	1.23%	1.48%
CFAN						1.23%
Dark Sky	3.49%	5.98%	2.96%	9.68%	3.71%	3.52%
Environment Canada	0.03%	0.00%	0.07%	0.07%	0.00%	0.21%
Foreca/Vaisala	2.15%	5.32%	3.29%	2.35%	7.58%	9.83%
Global News	0.10%	0.38%	0.34%	0.07%	0.21%	0.14%
Global Weather Corp	18.11%	14.93%	8.49%	7.11%	9.92%	3.69%
MeteoGroup	8.50%	16.46%	15.63%			
Microsoft						17.03%
NWS Digital Forecast	1.75%	3.50%	1.75%	1.75%	0.00%	1.23%
NWS Website	2.62%	0.00%	0.22%	3.71%	2.46%	0.00%
OpenWeather				1.32%	1.44%	0.87%
Pelmorex	13.28%	6.84%	3.56%	3.54%	4.98%	3.79%
The Weather Channel	32.43%	31.07%	39.91%	41.28%	38.77%	33.09%
Weather News					0.34%	0.60%
Weather Trends					5.59%	1.89%
Weatherbit				4.42%	1.34%	1.02%
Weerplaza				2.66%	0.63%	2.27%
Wetter					5.94%	1.93%
WetterOnline					6.65%	1.54%
World Weather Online	7.17%	7.60%	10.21%	9.98%	6.45%	10.08%
yr.no					0.67%	0.71%

Table 10: Global One-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.26	6.84	9.62	9.63	1.82	1.68
AerisWeather				1.03	1.11	0.51
CFAN						1.24
Dark Sky	2.91	5.60	5.33	7.63	2.23	3.05
Environment Canada	0.03	0.06	0.10	0.03	0.29	0.44
Foreca/Vaisala	2.83	4.36	4.18	6.38	7.85	7.84
Global News	0.03	0.40	0.33	0.28	0.23	0.17
Global Weather Corp	14.69	11.59	7.32	6.43	5.71	3.24
MeteoGroup	7.81	12.30	10.92			
Microsoft						11.89
NWS Digital Forecast	2.20	1.71	2.20	0.24	0.83	0.41
NWS Website	0.98	2.08	0.98	4.89	1.24	0.83
OpenWeather				1.13	0.61	0.82
Pelmorex	12.25	5.69	1.67	2.68	4.16	3.22
The Weather Channel	24.51	26.22	33.65	32.67	36.43	31.33
Weather News					1.15	1.61
Weather Trends					4.33	1.82
Weatherbit				2.58	0.46	0.50
Weerplaza				3.05	0.79	1.14
Wetter					4.11	0.48
WetterOnline					5.62	1.50
World Weather Online	5.50	7.13	7.70	5.34	4.55	9.44
yr.no					0.47	0.85

Table 11: Global Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	12.21%	8.14%	11.45%	11.46%	2.17%	2.00%
AerisWeather				1.22%	1.32%	0.61%
CFAN						1.47%
Dark Sky	3.47%	6.67%	6.34%	9.09%	2.65%	3.63%
Environment Canada	0.03%	0.08%	0.12%	0.03%	0.35%	0.52%
Foreca/Vaisala	3.36%	5.20%	4.98%	7.59%	9.35%	9.34%
Global News	0.03%	0.47%	0.39%	0.33%	0.28%	0.21%
Global Weather Corp	17.49%	13.80%	8.72%	7.65%	6.80%	3.85%
MeteoGroup	9.30%	14.65%	13.00%			
Microsoft						14.15%
NWS Digital Forecast	2.62%	2.04%	2.62%	0.29%	0.98%	0.49%
NWS Website	1.17%	2.48%	1.17%	5.83%	1.47%	0.98%
OpenWeather				1.34%	0.73%	0.98%
Pelmorex	14.58%	6.78%	1.99%	3.19%	4.95%	3.84%
The Weather Channel	29.18%	31.21%	40.06%	38.89%	43.37%	37.30%
Weather News					1.36%	1.92%
Weather Trends					5.15%	2.17%
Weatherbit				3.08%	0.55%	0.60%
Weerplaza				3.64%	0.94%	1.36%
Wetter					4.90%	0.57%
WetterOnline					6.69%	1.78%
World Weather Online	6.55%	8.49%	9.16%	6.36%	5.42%	11.23%
yr.no					0.56%	1.01%

Table 12: Global Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.50	17.64	12.77	17.61	3.52	1.89
AerisWeather				0.94	1.92	0.39
CFAN						2.89
Dark Sky	1.48	3.82	3.21	9.09	1.28	2.60
Environment Canada	0.00	0.03	0.00	0.00	0.29	0.47
Foreca/Vaisala	2.49	5.65	4.94	7.16	6.27	7.02
Global News	0.04	0.44	0.35	0.20	0.17	0.23
Global Weather Corp	10.78	6.13	5.71	7.44	7.74	9.44
MeteoGroup	10.34	12.50	10.42			
Microsoft						10.00
NWS Digital Forecast	1.47	1.47	2.81	1.47	0.83	0.41
NWS Website	2.94	0.73	1.35	3.67	2.20	0.00
OpenWeather				1.32	0.96	0.88
Pelmorex	9.59	6.75	3.67	2.16	3.57	3.91
The Weather Channel	25.42	22.00	33.07	24.34	28.30	23.42
Weather News					2.16	0.93
Weather Trends					6.09	1.69
Weatherbit				1.18	0.93	0.65
Weerplaza				1.70	0.99	0.94
Wetter					2.80	0.35
WetterOnline					7.80	4.75
World Weather Online	6.96	6.84	5.69	5.72	5.21	9.79
yr.no					0.95	1.34

Table 13: Global Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.88%	21.00%	15.20%	20.97%	4.19%	2.25%
AerisWeather				1.12%	2.28%	0.47%
CFAN						3.44%
Dark Sky	1.76%	4.55%	3.82%	10.82%	1.52%	3.10%
Environment Canada	0.00%	0.03%	0.00%	0.00%	0.35%	0.55%
Foreca/Vaisala	2.96%	6.72%	5.89%	8.52%	7.46%	8.35%
Global News	0.05%	0.52%	0.42%	0.24%	0.21%	0.28%
Global Weather Corp	12.84%	7.30%	6.80%	8.85%	9.21%	11.24%
MeteoGroup	12.31%	14.88%	12.41%			
Microsoft						11.90%
NWS Digital Forecast	1.75%	1.75%	3.35%	1.75%	0.98%	0.49%
NWS Website	3.50%	0.87%	1.60%	4.37%	2.62%	0.00%
OpenWeather				1.58%	1.15%	1.05%
Pelmorex	11.41%	8.03%	4.37%	2.57%	4.25%	4.65%
The Weather Channel	30.26%	26.19%	39.37%	28.98%	33.70%	27.88%
Weather News					2.58%	1.11%
Weather Trends					7.25%	2.02%
Weatherbit				1.40%	1.11%	0.77%
Weerplaza				2.03%	1.18%	1.12%
Wetter					3.33%	0.42%
WetterOnline					9.28%	5.65%
World Weather Online	8.29%	8.14%	6.77%	6.81%	6.20%	11.65%
yr.no					1.14%	1.59%

Table 14: Global Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.20	16.25	15.62	17.43	2.38	1.90
AerisWeather				0.41	2.01	2.10
CFAN						3.72
Dark Sky	2.38	2.60	1.41	7.63	0.91	1.69
Environment Canada	0.00	0.03	0.04	0.00	0.26	0.35
Foreca/Vaisala	3.76	3.51	3.23	5.23	7.52	6.91
Global News	0.11	0.44	0.36	0.26	0.23	0.23
Global Weather Corp	9.98	3.92	5.57	4.15	8.45	8.29
MeteoGroup	9.89	11.33	10.80			
Microsoft						8.64
NWS Digital Forecast	2.20	1.84	1.62	1.47	0.52	0.41
NWS Website	3.67	3.30	3.33	6.24	3.20	0.83
OpenWeather				0.45	0.40	0.83
Pelmorex	13.35	7.45	4.82	2.78	4.08	3.87
The Weather Channel	24.80	26.83	31.11	27.19	30.21	27.48
Weather News					1.00	1.01
Weather Trends					5.81	2.33
Weatherbit				3.07	1.19	0.99
Weerplaza				2.86	2.88	1.76
Wetter					6.64	0.23
World Weather Online	3.67	6.51	6.10	4.84	5.05	8.73
yr.no					1.26	1.70

Table 15: Global Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	12.14%	19.34%	18.60%	20.74%	2.83%	2.26%
AerisWeather				0.49%	2.40%	2.50%
CFAN						4.42%
Dark Sky	2.83%	3.09%	1.68%	9.08%	1.08%	2.01%
Environment Canada	0.00%	0.03%	0.04%	0.00%	0.31%	0.42%
Foreca/Vaisala	4.47%	4.18%	3.85%	6.23%	8.95%	8.23%
Global News	0.13%	0.52%	0.43%	0.30%	0.28%	0.28%
Global Weather Corp	11.88%	4.66%	6.63%	4.94%	10.06%	9.87%
MeteoGroup	11.77%	13.49%	12.86%			
Microsoft						10.28%
NWS Digital Forecast	2.62%	2.19%	1.92%	1.75%	0.61%	0.49%
NWS Website	4.37%	3.93%	3.96%	7.43%	3.81%	0.98%
OpenWeather				0.54%	0.48%	0.99%
Pelmorex	15.89%	8.87%	5.74%	3.30%	4.85%	4.61%
The Weather Channel	29.53%	31.94%	37.03%	32.37%	35.96%	32.71%
Weather News					1.19%	1.20%
Weather Trends					6.92%	2.77%
Weatherbit				3.65%	1.41%	1.18%
Weerplaza				3.41%	3.43%	2.09%
Wetter					7.91%	0.27%
World Weather Online	4.36%	7.75%	7.26%	5.76%	6.01%	10.40%
yr.no					1.50%	2.02%

Table 16: Global Four-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	4.32	11.00	9.92	10.21	3.61	1.02
AerisWeather				0.79	1.40	1.35
CFAN						4.13
Dark Sky	3.89	1.68	1.41	9.52	2.22	0.89
Environment Canada	0.03	0.03	0.06	0.00	0.00	0.00
Foreca/Vaisala	4.24	4.88	3.46	4.29	7.98	8.24
Global News	0.13	0.44	0.32	0.18	0.23	0.23
Global Weather Corp	11.80	5.80	6.28	5.41	6.61	6.61
MeteoGroup	10.11	12.33	12.74			
Microsoft						6.61
NWS Digital Forecast	2.57	3.67	3.12	2.94	1.55	1.24
OpenWeather				1.38	0.47	0.63
Pelmorex	15.69	6.59	5.57	3.39	4.55	4.82
The Weather Channel	28.05	30.82	34.84	35.19	32.31	30.86
Weather News					1.22	1.10
Weather Trends					6.82	1.21
Weatherbit				2.43	0.98	0.93
Weerplaza				3.64	3.63	2.08
Wetter					4.93	1.73
World Weather Online	3.16	6.75	6.28	4.65	4.18	9.19
yr.no					1.30	1.12

Table 17: Global Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.14%	13.09%	11.81%	12.16%	4.30%	1.22%
AerisWeather				0.94%	1.66%	1.61%
CFAN						4.92%
Dark Sky	4.63%	2.01%	1.68%	11.33%	2.64%	1.07%
Environment Canada	0.03%	0.03%	0.07%	0.00%	0.00%	0.00%
Foreca/Vaisala	5.05%	5.80%	4.12%	5.10%	9.50%	9.81%
Global News	0.16%	0.53%	0.38%	0.21%	0.28%	0.28%
Global Weather Corp	14.05%	6.91%	7.47%	6.44%	7.87%	7.86%
MeteoGroup	12.04%	14.68%	15.17%			
Microsoft						7.87%
NWS Digital Forecast	3.06%	4.37%	3.71%	3.50%	1.84%	1.47%
OpenWeather				1.64%	0.56%	0.75%
Pelmorex	18.68%	7.84%	6.63%	4.04%	5.42%	5.74%
The Weather Channel	33.40%	36.69%	41.48%	41.89%	38.46%	36.74%
Weather News					1.45%	1.31%
Weather Trends					8.12%	1.44%
Weatherbit				2.89%	1.17%	1.11%
Weerplaza				4.33%	4.33%	2.47%
Wetter					5.87%	2.06%
World Weather Online	3.76%	8.04%	7.48%	5.54%	4.97%	10.94%
yr.no					1.55%	1.33%

Table 18: Global Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.92	5.16	2.98	8.04	3.03	1.64
AerisWeather				2.00	2.80	1.40
CFAN						5.06
Dark Sky	1.77	2.19	1.42	7.01	2.02	1.05
Environment Canada	0.03					
Foreca/Vaisala	4.65	5.98	4.85	4.23	7.72	6.77
Global News	0.07	0.35	0.25	0.12	0.35	0.23
Global Weather Corp	13.63	12.28	7.97	5.79	4.85	5.56
MeteoGroup	11.17	11.51	23.99			
Microsoft						3.53
NWS Digital Forecast	7.34	4.41	3.67	4.04	0.62	1.65
OpenWeather				2.33	0.54	0.58
Pelmorex	13.81	6.77	7.61	3.74	5.85	5.44
The Weather Channel	23.29	28.63	26.47	35.17	32.88	33.87
Weather News					4.07	1.00
Weather Trends					5.19	1.57
Weatherbit				2.35	0.92	0.36
Weerplaza				2.85	3.34	2.23
Wetter					4.82	1.28
World Weather Online	2.31	6.73	4.79	6.32	4.13	9.42
yr.no					0.88	1.36

Table 19: Global Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.04%	6.14%	3.54%	9.57%	3.60%	1.95%
AerisWeather				2.38%	3.33%	1.66%
CFAN						6.02%
Dark Sky	2.11%	2.61%	1.69%	8.35%	2.41%	1.25%
Environment Canada	0.03%					
Foreca/Vaisala	5.53%	7.12%	5.77%	5.04%	9.19%	8.06%
Global News	0.08%	0.41%	0.30%	0.15%	0.42%	0.28%
Global Weather Corp	16.23%	14.62%	9.49%	6.89%	5.77%	6.62%
MeteoGroup	13.30%	13.70%	28.56%			
Microsoft						4.20%
NWS Digital Forecast	8.74%	5.24%	4.37%	4.81%	0.74%	1.97%
OpenWeather				2.78%	0.64%	0.69%
Pelmorex	16.44%	8.05%	9.06%	4.46%	6.96%	6.47%
The Weather Channel	27.73%	34.08%	31.51%	41.87%	39.14%	40.32%
Weather News					4.85%	1.19%
Weather Trends					6.17%	1.87%
Weatherbit				2.79%	1.09%	0.43%
Weerplaza				3.40%	3.97%	2.66%
Wetter					5.74%	1.52%
World Weather Online	2.75%	8.02%	5.71%	7.53%	4.92%	11.21%
yr.no					1.05%	1.62%

Table 20: Global Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.52	3.81	5.61	2.78	3.07	2.13
AerisWeather				2.51	0.46	1.06
CFAN						5.78
Dark Sky	1.69	5.58	4.77	6.07	1.52	1.33
Foreca/Vaisala	7.31	7.25	7.84	3.69	8.32	7.18
Global News		1.08	0.26	0.21	0.47	0.23
Global Weather Corp	16.94	13.34	12.16	9.19	4.87	4.41
Microsoft						4.01
OpenWeather				2.25	0.86	0.57
Pelmorex	15.55	9.17	14.58	6.59	5.11	7.02
The Weather Channel	30.18	36.94	32.81	37.16	33.30	31.89
Weather News					6.19	0.19
Weather Trends					5.36	1.51
Weatherbit				3.61	0.44	0.42
Weerplaza				3.74	3.74	1.67
Wetter					5.38	2.05
World Weather Online	5.80	6.84	5.97	6.19	4.04	11.50
yr.no					0.84	1.05

Table 21: Global Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.77%	4.54%	6.68%	3.31%	3.65%	2.54%
AerisWeather				2.99%	0.55%	1.26%
CFAN						6.88%
Dark Sky	2.01%	6.64%	5.68%	7.23%	1.81%	1.58%
Foreca/Vaisala	8.71%	8.63%	9.33%	4.40%	9.91%	8.55%
Global News		1.28%	0.31%	0.25%	0.55%	0.28%
Global Weather Corp	20.17%	15.88%	14.48%	10.94%	5.80%	5.25%
Microsoft						4.77%
OpenWeather				2.68%	1.03%	0.68%
Pelmorex	18.52%	10.91%	17.36%	7.85%	6.09%	8.35%
The Weather Channel	35.93%	43.97%	39.06%	44.23%	39.65%	37.97%
Weather News					7.37%	0.22%
Weather Trends					6.39%	1.80%
Weatherbit				4.30%	0.53%	0.51%
Weerplaza				4.46%	4.46%	1.99%
Wetter					6.40%	2.44%
World Weather Online	6.90%	8.15%	7.10%	7.37%	4.81%	13.69%
yr.no					1.01%	1.25%

Table 22: Global Seven-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.19	2.54	5.17	4.87	3.27	2.44
AerisWeather				2.55	0.59	0.42
CFAN						7.85
Foreca/Vaisala	5.78	7.53	9.95	2.74	8.44	7.79
Global News		0.99	0.26	0.23	0.41	0.35
Global Weather Corp	15.72	11.71	14.58	12.26	5.43	4.51
Microsoft						3.60
OpenWeather				3.98	1.77	0.68
Pelmorex	17.88	12.23	14.07	3.52	5.95	5.76
The Weather Channel	32.26	44.81	34.37	38.34	36.13	30.66
Weather News						1.97
Weather Trends					5.65	2.60
Weatherbit				2.29	0.48	0.46
Weerplaza				7.73	5.73	2.60
Wetter					5.63	0.86
World Weather Online	6.17	4.19	5.61	5.51	3.36	10.50
yr.no					1.17	0.96

Table 23: Global Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.36%	3.03%	6.15%	5.79%	3.90%	2.90%
AerisWeather				3.03%	0.70%	0.50%
CFAN						9.34%
Foreca/Vaisala	6.88%	8.96%	11.84%	3.26%	10.05%	9.27%
Global News		1.18%	0.32%	0.27%	0.49%	0.42%
Global Weather Corp	18.72%	13.94%	17.35%	14.59%	6.47%	5.37%
Microsoft						4.29%
OpenWeather				4.74%	2.11%	0.81%
Pelmorex	21.29%	14.56%	16.74%	4.19%	7.08%	6.86%
The Weather Channel	38.40%	53.35%	40.91%	45.64%	43.01%	36.50%
Weather News						2.35%
Weather Trends					6.73%	3.09%
Weatherbit				2.73%	0.57%	0.54%
Weerplaza				9.21%	6.82%	3.10%
Wetter					6.70%	1.03%
World Weather Online	7.35%	4.99%	6.68%	6.56%	4.00%	12.50%
yr.no					1.39%	1.14%

Table 24: Global Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.50	7.55	9.05	4.65	3.98	2.79
AerisWeather				2.83	1.10	0.69
CFAN						8.67
Foreca/Vaisala	6.40	8.35	8.44	3.12	7.74	5.90
Global News		1.08	0.21	0.31	0.44	0.41
Global Weather Corp	12.03	12.39	15.18	11.28	3.45	5.07
Microsoft						3.25
OpenWeather				3.36	0.99	0.53
Pelmorex	18.10	8.82	13.85	5.39	6.09	5.30
The Weather Channel	31.81	41.41	31.86	38.50	35.54	31.05
Weather News						1.60
Weather Trends					7.62	1.31
Weatherbit				3.49	0.13	1.41
Weerplaza				6.12	6.30	3.28
Wetter					4.87	1.02
World Weather Online	6.16	4.40	5.42	4.93	3.61	10.58
yr.no					2.13	1.14

Table 25: Global Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.31%	8.99%	10.77%	5.53%	4.74%	3.32%
AerisWeather				3.37%	1.31%	0.82%
CFAN						10.32%
Foreca/Vaisala	7.62%	9.94%	10.04%	3.72%	9.22%	7.03%
Global News		1.28%	0.25%	0.37%	0.52%	0.49%
Global Weather Corp	14.32%	14.76%	18.07%	13.43%	4.11%	6.03%
Microsoft						3.87%
OpenWeather				4.00%	1.18%	0.64%
Pelmorex	21.55%	10.50%	16.49%	6.42%	7.25%	6.31%
The Weather Channel	37.87%	49.29%	37.93%	45.84%	42.31%	36.97%
Weather News						1.90%
Weather Trends					9.07%	1.56%
Weatherbit				4.16%	0.15%	1.67%
Weerplaza				7.29%	7.50%	3.91%
Wetter					5.80%	1.22%
World Weather Online	7.33%	5.24%	6.45%	5.87%	4.30%	12.60%
yr.no					2.54%	1.35%

Table 26: Global Nine-Day-Out Forecast First-Place Percentages

## United States Skill Summary

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For the United States, The Weather Channel captured the most first-place points on all days out in 2021 and 2022. Thus, the only combination of year and day out when another provider grabbed the greatest number of first-place finishes remained six days out in 2019 with MeteoGroup earning 29 first-place finishes to The Weather Channel's 26. The Weather Channel earned between 30% and 50% of all possible first-place finishes in 2021 and 2022, even earning just over half (50.6%) for two days out in 2021.

In terms of the percent of possible first-place points earned for each individual provider, based on the more limited metrics in which some providers competed, Global Weather Corporation earned the highest percentage for three days out in 2022, CFAN earned the highest for seven, eight, and nine days out in 2022, and Weather News earned the highest for seven days out in 2021. As in the previous report, MeteoGroup also had the highest percentage for six days out in 2019.

The United States was the only region for which CFAN, The National Weather Service website and NWS Digital Forecast produced forecasts. CFAN only forecasted for 36 metrics, and did quite well with these 36 metrics, particularly in the longer range. In fact, the number and percentage of first-place points earned by CFAN gradually increased as the days out increased, from 2.5 points (2.98% of all total points) one day out to 21 points (25.00% of all total points) nine days out. While the 21 points at nine days out was fewer than The Weather Channel's 28 points at the same range, because CFAN only had 36 metrics on which to be evaluated, the 21 points represented over 58% of the possible first-place points CFAN could have earned. The National Weather Service and NWS Digital Forecast continued to see generally less than 6% of all first-place finishes in 2021 and 2022 with a few exceptions; the National Weather Service had 9.2% of first-place points for four-day out forecasts in 2021. These two providers had 62 metrics of the total of 84 evaluated, but even so, they gained first-place points for fewer than 14% of their individual possible metrics for all years of days out combinations.

Combining the six years and all days out for the United States, The Weather Channel had the greatest number of first-place points with 1822.3 (40.17%). Global Weather Corporation had the second highest points with 432.94 (9.54%), and AccuWeather had the third highest with 350.38 points (7.72%). The Weather Channel had the most total first-place points for all days out. Global Weather Corporation had the second greatest number of first-place points for all days out except three, four, and six days out, for which they had the third greatest number. AccuWeather had the second greatest number of first-place points for three and four days out, and the third greatest

number for five days out. MeteoGroup had the second greatest for six days out, World Weather Online had the third greatest for one and two days out, and Pelmorex had the third greatest for seven, eight, and nine days out.

Six providers competed in at least 50% of metrics for the United States: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Six additional providers competed in 45–50% of metrics: the NWS Digital Forecast, Weatherbit, AerisWeather, Global Weather Corporation, Weerplaza, and OpenWeather.

Table 28 through Table 45 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for the United States region.

## Individual Metrics

Table 27 shows the forecast providers with the highest average first-place points for each metric group by year in the United States. The average (instead of total) first-place points indicates the average number of points per day out, which allows providers that did not have forecasts through all nine days out to compete with other providers here, yet does somewhat still favor providers that forecast all nine days out, since it is easier for them to gain first-place points in days that are further out when there are fewer competitors.



United States	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Opacity</b>	Pelmorex	Meteo-Group	Meteo-Group	Dark Sky	Wetter	World Weather Online	<b>Meteo-Group</b>
<b>Precipitation</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>POP</b>	Pelmorex	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 27: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, United States

## High Temperature

The Weather Channel continued to perform well overall for high temperatures in the United States, with the most first-place finishes for all forecast days out when looking at all years from 2017–2022.

For all six years combined, AccuWeather had the second greatest number of first-place points for three and four days out and the third greatest number for one, two, and five days out. Global Weather Corporation continued to perform well in high temperatures with the second greatest number of first-place finishes for one, two, five, six, seven, eight, and nine days out, and the third greatest for three and four days out. Beyond five days out, the third greatest number of first-place points for high temperatures belonged to the NWS Digital Forecast six days out, Weather News seven days out, and CFAN eight and nine days out.

The Weather Channel amassed a total of 402.22 first-place points for high temperatures across all nine days out and all six years in the United States, and Global Weather Corporation was second with 251.63 points. AccuWeather placed third with 87.72 points.

## Low Temperature

The Weather Channel also performed well overall for low temperatures in the United States, with the greatest number of first-place finishes for all but three days out when looking at all years from 2017–2022. For three days out, AccuWeather had the most first-place points, while The Weather Channel had the second highest.

AccuWeather had the second greatest number of first-place points for one, two, and four days out as well, and third greatest for five days out. Global Weather Corporation had the second greatest number of first-place points for five, seven, eight, and nine days out, and the third greatest number for one, two, three, and six days out. Otherwise, MeteoGroup had the second greatest for six days out, the National Weather Service had the third highest for four days out, and CFAN had the third highest for seven, eight, and nine days out.

The Weather Channel amassed a total of 411.07 first-place points for low temperatures across all nine days out and all six years in the United States—even more accurate than their forecasts for high temperatures. Global Weather Corporation was second with 162.31 total points, and AccuWeather again was third with 128.65 points.

## Opacity

World Weather Online had the most total first-place points for opacity, although MeteoGroup had the highest average number based on their more limited days out forecasts, as well as the fact that they only provided forecasts for three of the six years. In total, World Weather Online had 249 total first-place points for opacity, with Pelmorex second with 145 points and MeteoGroup third with 120 points (despite their more limited days out and years forecasted). CFAN and Global Weather Corporation did not provide opacity forecasts.

World Weather Online had the greatest number of points for all nine days out for opacity in the United States, and MeteoGroup had the second highest for one through six days out—all six days out for which MeteoGroup forecasted. For each of those six days out, MeteoGroup had 20 first-place opacity points for each day out in three years of forecasting, while World Weather Online had 24–31 first-place points each day out in six years of forecasting. The second greatest number of first-place points in opacity went to Pelmorex for seven through nine days out. Pelmorex also had the third greatest number for one through six days out. The Weather Channel earned the third highest for seven through nine days out (despite having no first-place points for one through six days out).

MeteoGroup, Pelmorex, and World Weather Online combined to earn an average of 60 of the 84 first-place finishes for opacity one through six days out (54 of the 84 for seven through nine days out, when MeteoGroup did not provide forecasts), continuing the trend in the previous report. In 2021 and 2022, World Weather Online did particularly well in opacity forecasts in the United States, especially in 2022. For 2021, Wetter scored the most first-place opacity points in the United States.

## Precipitation

The Weather Channel continued to prove to be the best forecast provider for 24-hour precipitation in the United States in terms of first-place points earned. CFAN and Weather News did not forecast precipitation.

The Weather Channel continued to dominate in this category, with a total of 121 first-place points across the six years, while the NWS Digital Forecast came in with the second greatest number of first-place points at 25. Global Weather Corporation was third with 19 points, and six other providers had ten or more first-place points. It makes sense then that The Weather Channel had the greatest number of first-place finishes, with more than twice the number of points of the second highest provider (and sometimes more than three times the number), for every day out. Dark Sky, Foreca/Vaisala, the NWS Digital Forecast, and World Weather Online all had the second greatest number of first-place points depending on the day out, and Dark Sky, Global Weather Corporation, MeteoGroup, Weerplaza, and World Weather Online all saw the third greatest number on at least one day out.

## Probability of Precipitation

POP was more competitive than 24-hour precipitation forecasts, just as it was in the previous report. The Weather Channel still earned the most total POP first-place points, as well as the most for 2021 and 2022, with a total of 210 total first-place points. In second was Pelmorex with 89 total points, and in third was Foreca/Vaisala with 86 total first-place points. CFAN, Global Weather Corporation, and yr.no did not forecast POP, and OpenWeather did not start until 2021.

The Weather Channel also had the greatest number of first-place finishes for POP for every day out, although second place for each day was certainly closer than with 24-hour precipitation. The second greatest number belonged to Dark Sky for one through three days out, Pelmorex for four through six days out, and Foreca/Vaisala for seven through nine days out. The NWS Digital Forecast also tied for the second greatest number six days out. The third greatest number of first-place points through the various days out was earned by AccuWeather (one, four, five, and nine days out), Foreca/Vaisala (two and three days out), and Pelmorex (three, seven, and eight days out).

## Winds

The Weather Channel earned the greatest number of points, by far, for winds; in fact, this was the metric that was best dominated by The Weather Channel. They earned a total of 632 total first-place finishes, with the second highest going to AccuWeather with 58 total first-place points. Pelmorex was third with 47 points. In the previous report, it was stated that The Weather Channel earned over 71% of all wind metrics. Through 2022, The Weather Channel has now stretched that to over 73% (632 of the 864 total possible first-place finishes).

CFAN, Global Weather Corporation, the NWS Digital Forecast, the National Weather Service and Weather News did not compete for points in the winds metric.

The Weather Channel dominated first-place finishes on every day out as well, earning between 66 and 73 of the 96 possible first-place finishes on every day out. The closest a competitor came was nine days out, when The Weather Channel earned 71 total first-place points and Pelmorex earned 13, while AccuWeather earned nine. Pelmorex had the second greatest number on six through nine days out, World Weather Online had the second greatest for one, and three through five days out, and AccuWeather had the second greatest for one, two, and six days out (one and six days out saw ties). AccuWeather saw the third greatest number of first-place finishes every day out except two days out, which saw a tie between Dark Sky and World Weather Online for the third highest.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.53	5.33	11.75	9.25	1.83	4.00
AerisWeather				1.00	1.00	1.67
CFAN						2.50
Dark Sky	3.20	6.00	1.75	8.00	5.00	4.00
Foreca/Vaisala	1.70	3.83	2.00	0.50	1.33	2.00
Global Weather Corp	14.53	13.00	7.00	4.25	5.83	4.00
MeteoGroup	5.00	11.00	11.00			
Microsoft						9.00
NWS Digital Forecast	2.00	4.00	2.00	2.00	0.00	2.50
NWS Website	3.00	0.00	0.25	4.25	5.00	0.00
OpenWeather				1.00	1.00	0.00
Pelmorex	10.00	5.00	2.00	1.00	2.00	1.33
The Weather Channel	30.03	28.83	37.25	37.75	38.33	38.67
Weather News					0.00	0.00
Weather Trends					5.67	1.33
Weatherbit				4.00	1.00	0.00
Weerplaza				2.00	0.00	2.00
Wetter					6.00	1.00
WetterOnline					4.00	1.00
World Weather Online	6.00	7.00	9.00	9.00	6.00	8.00
yr.no					0.00	1.00

Table 28: United States One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.15%	6.35%	13.99%	11.01%	2.18%	4.76%
AerisWeather				1.19%	1.19%	1.99%
CFAN						2.98%
Dark Sky	3.81%	7.14%	2.08%	9.52%	5.95%	4.76%
Foreca/Vaisala	2.02%	4.56%	2.38%	0.60%	1.58%	2.38%
Global Weather Corp	17.30%	15.48%	8.33%	5.06%	6.94%	4.76%
MeteoGroup	5.95%	13.10%	13.10%			
Microsoft						10.71%
NWS Digital Forecast	2.38%	4.76%	2.38%	2.38%	0.00%	2.98%
NWS Website	3.57%	0.00%	0.30%	5.06%	5.95%	0.00%
OpenWeather				1.19%	1.19%	0.00%
Pelmorex	11.90%	5.95%	2.38%	1.19%	2.38%	1.58%
The Weather Channel	35.75%	34.32%	44.35%	44.94%	45.63%	46.04%
Weather News					0.00%	0.00%
Weather Trends					6.75%	1.58%
Weatherbit				4.76%	1.19%	0.00%
Weerplaza				2.38%	0.00%	2.38%
Wetter					7.14%	1.19%
WetterOnline					4.76%	1.19%
World Weather Online	7.14%	8.33%	10.71%	10.71%	7.14%	9.52%
yr.no					0.00%	1.19%

Table 29: United States One-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.67	5.00	10.33	10.67	2.00	2.00
AerisWeather				1.00	2.00	1.00
CFAN						3.00
Dark Sky	3.00	6.50	6.00	8.00	4.00	4.00
Foreca/Vaisala	3.00	4.00	3.00	6.00	1.00	1.50
Global Weather Corp	13.83	12.00	7.33	5.00	4.50	3.00
MeteoGroup	6.00	11.00	9.00			
Microsoft						7.00
NWS Digital Forecast	3.00	2.33	3.00	0.33	2.00	1.00
NWS Website	1.33	2.83	1.33	6.67	3.00	2.00
OpenWeather				1.00	0.00	1.00
Pelmorex	12.00	5.00	0.00	1.00	1.00	1.00
The Weather Channel	27.17	27.33	36.00	34.33	42.50	40.00
Weather News					2.00	2.00
Weather Trends					5.00	2.50
Weatherbit				2.00	0.00	0.00
Weerplaza				3.00	1.00	0.00
Wetter					5.00	0.00
WetterOnline					4.00	1.00
World Weather Online	5.00	8.00	8.00	5.00	5.00	11.00
yr.no					0.00	1.00

Table 30: United States Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.51%	5.95%	12.30%	12.70%	2.38%	2.38%
AerisWeather				1.19%	2.38%	1.19%
CFAN						3.57%
Dark Sky	3.57%	7.74%	7.14%	9.52%	4.76%	4.76%
Foreca/Vaisala	3.57%	4.76%	3.57%	7.14%	1.19%	1.79%
Global Weather Corp	16.46%	14.29%	8.73%	5.95%	5.36%	3.57%
MeteoGroup	7.14%	13.10%	10.71%			
Microsoft						8.33%
NWS Digital Forecast	3.57%	2.77%	3.57%	0.39%	2.38%	1.19%
NWS Website	1.58%	3.37%	1.58%	7.94%	3.57%	2.38%
OpenWeather				1.19%	0.00%	1.19%
Pelmorex	14.29%	5.95%	0.00%	1.19%	1.19%	1.19%
The Weather Channel	32.35%	32.54%	42.86%	40.87%	50.60%	47.62%
Weather News					2.38%	2.38%
Weather Trends					5.95%	2.98%
Weatherbit				2.38%	0.00%	0.00%
Weerplaza				3.57%	1.19%	0.00%
Wetter					5.95%	0.00%
WetterOnline					4.76%	1.19%
World Weather Online	5.95%	9.52%	9.52%	5.95%	5.95%	13.10%
yr.no					0.00%	1.19%

Table 31: United States Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.00	19.83	13.00	21.00	4.00	0.50
AerisWeather				1.00	4.00	0.50
CFAN						7.00
Dark Sky	1.00	4.00	3.00	10.00	2.00	4.00
Foreca/Vaisala	2.00	5.33	3.00	7.00	0.00	1.50
Global Weather Corp	8.50	4.83	5.33	6.00	8.33	15.00
MeteoGroup	9.50	11.00	9.00			
Microsoft						7.50
NWS Digital Forecast	2.00	2.00	3.83	2.00	2.00	1.00
NWS Website	4.00	1.00	1.83	5.00	5.33	0.00
OpenWeather				1.00	1.00	2.00
Pelmorex	8.50	6.00	3.00	0.00	1.00	1.00
The Weather Channel	28.50	23.00	36.00	24.00	27.00	25.00
Weather News					2.00	1.00
Weather Trends					10.33	1.00
Weatherbit				0.33	0.00	0.00
Weerplaza				1.33	0.00	1.00
Wetter					4.00	0.00
WetterOnline					6.00	4.00
World Weather Online	7.00	7.00	6.00	5.33	6.00	11.00
yr.no					1.00	1.00

Table 32: United States Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.48%	23.61%	15.48%	25.00%	4.76%	0.60%
AerisWeather				1.19%	4.76%	0.60%
CFAN						8.33%
Dark Sky	1.19%	4.76%	3.57%	11.90%	2.38%	4.76%
Foreca/Vaisala	2.38%	6.35%	3.57%	8.33%	0.00%	1.79%
Global Weather Corp	10.12%	5.75%	6.35%	7.14%	9.92%	17.86%
MeteoGroup	11.31%	13.10%	10.71%			
Microsoft						8.93%
NWS Digital Forecast	2.38%	2.38%	4.56%	2.38%	2.38%	1.19%
NWS Website	4.76%	1.19%	2.18%	5.95%	6.35%	0.00%
OpenWeather				1.19%	1.19%	2.38%
Pelmorex	10.12%	7.14%	3.57%	0.00%	1.19%	1.19%
The Weather Channel	33.93%	27.38%	42.86%	28.57%	32.14%	29.76%
Weather News					2.38%	1.19%
Weather Trends					12.30%	1.19%
Weatherbit				0.39%	0.00%	0.00%
Weerplaza				1.58%	0.00%	1.19%
Wetter					4.76%	0.00%
WetterOnline					7.14%	4.76%
World Weather Online	8.33%	8.33%	7.14%	6.35%	7.14%	13.10%
yr.no					1.19%	1.19%

Table 33: United States Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.00	17.50	16.53	20.00	1.00	1.00
AerisWeather				0.00	3.25	5.00
CFAN						9.00
Dark Sky	2.00	2.50	1.00	8.00	1.00	1.00
Foreca/Vaisala	4.00	3.00	2.00	4.50	0.00	1.33
Global Weather Corp	7.00	2.00	4.53	2.50	11.00	9.83
MeteoGroup	9.00	10.50	10.00			
Microsoft						9.00
NWS Digital Forecast	3.00	2.50	2.20	2.00	1.25	1.00
NWS Website	5.00	4.50	4.53	8.50	7.75	2.00
OpenWeather				0.00	0.00	1.00
Pelmorex	14.00	6.00	4.00	1.00	1.00	1.00
The Weather Channel	28.00	29.00	33.20	26.50	32.00	28.50
Weather News					0.00	1.00
Weather Trends					10.50	2.33
Weatherbit				3.00	0.00	0.00
Weerplaza				3.00	2.00	2.00
Wetter					7.00	0.00
World Weather Online	2.00	6.50	6.00	5.00	5.25	8.00
yr.no					1.00	1.00

Table 34: United States Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.90%	20.83%	19.68%	23.81%	1.19%	1.19%
AerisWeather				0.00%	3.87%	5.95%
CFAN						10.71%
Dark Sky	2.38%	2.98%	1.19%	9.52%	1.19%	1.19%
Foreca/Vaisala	4.76%	3.57%	2.38%	5.36%	0.00%	1.58%
Global Weather Corp	8.33%	2.38%	5.39%	2.98%	13.10%	11.70%
MeteoGroup	10.71%	12.50%	11.90%			
Microsoft						10.71%
NWS Digital Forecast	3.57%	2.98%	2.62%	2.38%	1.49%	1.19%
NWS Website	5.95%	5.36%	5.39%	10.12%	9.23%	2.38%
OpenWeather				0.00%	0.00%	1.19%
Pelmorex	16.67%	7.14%	4.76%	1.19%	1.19%	1.19%
The Weather Channel	33.33%	34.52%	39.52%	31.55%	38.10%	33.93%
Weather News					0.00%	1.19%
Weather Trends					12.50%	2.77%
Weatherbit				3.57%	0.00%	0.00%
Weerplaza				3.57%	2.38%	2.38%
Wetter					8.33%	0.00%
World Weather Online	2.38%	7.74%	7.14%	5.95%	6.25%	9.52%
yr.no					1.19%	1.19%

Table 35: United States Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	2.00	11.00	10.50	10.00	5.00	0.00
AerisWeather				1.00	2.75	3.00
CFAN						10.00
Dark Sky	4.00	1.00	1.00	11.00	1.00	1.00
Foreca/Vaisala	4.00	4.00	2.75	3.00	3.00	3.00
Global Weather Corp	11.00	5.00	5.50	4.00	6.08	7.00
MeteoGroup	10.00	10.00	11.75			
Microsoft						9.00
NWS Digital Forecast	3.50	5.00	4.25	4.00	3.75	3.00
OpenWeather				1.00	0.00	1.00
Pelmorex	17.00	5.00	5.00	1.00	2.00	3.00
The Weather Channel	31.50	36.00	37.25	38.00	34.58	30.00
Weather News					0.00	0.00
Weather Trends					11.83	1.00
Weatherbit				2.00	0.00	1.00
Weerplaza				4.00	2.00	1.00
Wetter					7.00	1.00
World Weather Online	1.00	7.00	6.00	5.00	4.00	9.00
yr.no					1.00	1.00

Table 36: United States Five-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	2.38%	13.10%	12.50%	11.90%	5.95%	0.00%
AerisWeather				1.19%	3.27%	3.57%
CFAN						11.90%
Dark Sky	4.76%	1.19%	1.19%	13.10%	1.19%	1.19%
Foreca/Vaisala	4.76%	4.76%	3.27%	3.57%	3.57%	3.57%
Global Weather Corp	13.10%	5.95%	6.55%	4.76%	7.24%	8.33%
MeteoGroup	11.90%	11.90%	13.99%			
Microsoft						10.71%
NWS Digital Forecast	4.17%	5.95%	5.06%	4.76%	4.46%	3.57%
OpenWeather				1.19%	0.00%	1.19%
Pelmorex	20.24%	5.95%	5.95%	1.19%	2.38%	3.57%
The Weather Channel	37.50%	42.86%	44.35%	45.24%	41.17%	35.71%
Weather News					0.00%	0.00%
Weather Trends					14.08%	1.19%
Weatherbit				2.38%	0.00%	1.19%
Weerplaza				4.76%	2.38%	1.19%
Wetter					8.33%	1.19%
World Weather Online	1.19%	8.33%	7.14%	5.95%	4.76%	10.71%
yr.no					1.19%	1.19%

Table 37: United States Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	5.00	2.00	9.00	2.00	0.00
AerisWeather				2.50	5.50	3.00
CFAN						12.25
Dark Sky	1.00	2.00	1.00	8.00	2.00	1.00
Foreca/Vaisala	4.00	5.00	4.00	3.00	2.00	2.00
Global Weather Corp	13.00	12.00	6.00	3.00	4.50	5.25
MeteoGroup	11.00	10.00	29.00			
Microsoft						4.00
NWS Digital Forecast	10.00	6.00	5.00	5.50	1.50	4.00
OpenWeather				2.00	0.00	0.00
Pelmorex	15.00	5.00	7.00	2.00	5.00	4.00
The Weather Channel	25.00	32.00	26.00	37.00	36.00	33.25
Weather News					4.00	0.00
Weather Trends					7.50	1.25
Weatherbit				2.00	0.00	0.00
Weerplaza				3.00	3.00	2.00
Wetter					7.00	0.00
World Weather Online	0.00	7.00	4.00	7.00	4.00	11.00
yr.no					0.00	1.00

Table 38: United States Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	5.95%	2.38%	10.71%	2.38%	0.00%
AerisWeather				2.98%	6.55%	3.57%
CFAN						14.58%
Dark Sky	1.19%	2.38%	1.19%	9.52%	2.38%	1.19%
Foreca/Vaisala	4.76%	5.95%	4.76%	3.57%	2.38%	2.38%
Global Weather Corp	15.48%	14.29%	7.14%	3.57%	5.36%	6.25%
MeteoGroup	13.10%	11.90%	34.52%			
Microsoft						4.76%
NWS Digital Forecast	11.90%	7.14%	5.95%	6.55%	1.79%	4.76%
OpenWeather				2.38%	0.00%	0.00%
Pelmorex	17.86%	5.95%	8.33%	2.38%	5.95%	4.76%
The Weather Channel	29.76%	38.10%	30.95%	44.05%	42.86%	39.58%
Weather News					4.76%	0.00%
Weather Trends					8.93%	1.49%
Weatherbit				2.38%	0.00%	0.00%
Weerplaza				3.57%	3.57%	2.38%
Wetter					8.33%	0.00%
World Weather Online	0.00%	8.33%	4.76%	8.33%	4.76%	13.10%
yr.no					0.00%	1.19%

Table 39: United States Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.33	3.00	4.83	2.50	2.00	1.00
AerisWeather				3.00	0.00	2.00
CFAN						14.00
Dark Sky	1.00	6.50	5.00	7.00	1.00	1.00
Foreca/Vaisala	7.00	6.00	6.33	2.00	2.00	3.00
Global Weather Corp	16.83	13.00	11.33	8.00	4.50	3.50
Microsoft						4.50
OpenWeather				2.00	1.00	1.00
Pelmorex	15.83	7.00	16.00	6.00	2.00	5.50
The Weather Channel	33.00	41.00	34.50	39.50	34.00	30.00
Weather News					15.00	0.00
Weather Trends					7.50	0.00
Weatherbit				3.00	0.00	0.00
Weerplaza				4.00	4.00	1.50
Wetter					7.00	3.00
World Weather Online	5.00	7.50	6.00	7.00	4.00	13.00
yr.no					0.00	1.00

Table 40: United States Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	6.35%	3.57%	5.75%	2.98%	2.38%	1.19%
AerisWeather				3.57%	0.00%	2.38%
CFAN						16.67%
Dark Sky	1.19%	7.74%	5.95%	8.33%	1.19%	1.19%
Foreca/Vaisala	8.33%	7.14%	7.54%	2.38%	2.38%	3.57%
Global Weather Corp	20.04%	15.48%	13.49%	9.52%	5.36%	4.17%
Microsoft						5.36%
OpenWeather				2.38%	1.19%	1.19%
Pelmorex	18.85%	8.33%	19.05%	7.14%	2.38%	6.55%
The Weather Channel	39.29%	48.81%	41.07%	47.02%	40.48%	35.71%
Weather News					17.86%	0.00%
Weather Trends					8.93%	0.00%
Weatherbit				3.57%	0.00%	0.00%
Weerplaza				4.76%	4.76%	1.79%
Wetter					8.33%	3.57%
World Weather Online	5.95%	8.93%	7.14%	8.33%	4.76%	15.48%
yr.no					0.00%	1.19%

Table 41: United States Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	0.00	4.00	5.00	1.00	2.00
AerisWeather				3.00	0.00	0.00
CFAN						19.00
Foreca/Vaisala	5.00	6.00	9.00	1.00	4.00	4.00
Global Weather Corp	15.00	11.50	14.00	12.00	5.50	2.00
Microsoft						3.00
OpenWeather				4.00	2.00	1.00
Pelmorex	18.50	11.50	15.00	2.00	2.00	3.50
The Weather Channel	35.50	51.00	36.00	41.00	40.00	28.00
Weather News						1.00
Weather Trends					8.50	3.00
Weatherbit				1.50	0.00	1.00
Weerplaza				9.00	9.00	2.50
Wetter					8.00	0.00
World Weather Online	5.00	4.00	6.00	5.50	4.00	13.00
yr.no					0.00	1.00

Table 42: United States Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	0.00%	4.76%	5.95%	1.19%	2.38%
AerisWeather				3.57%	0.00%	0.00%
CFAN						22.62%
Foreca/Vaisala	5.95%	7.14%	10.71%	1.19%	4.76%	4.76%
Global Weather Corp	17.86%	13.69%	16.67%	14.29%	6.55%	2.38%
Microsoft						3.57%
OpenWeather				4.76%	2.38%	1.19%
Pelmorex	22.02%	13.69%	17.86%	2.38%	2.38%	4.17%
The Weather Channel	42.26%	60.71%	42.86%	48.81%	47.62%	33.33%
Weather News						1.19%
Weather Trends					10.12%	3.57%
Weatherbit				1.79%	0.00%	1.19%
Weerplaza				10.71%	10.71%	2.98%
Wetter					9.52%	0.00%
World Weather Online	5.95%	4.76%	7.14%	6.55%	4.76%	15.48%
yr.no					0.00%	1.19%

Table 43: United States Eight-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	6.50	9.00	5.00	3.00	3.00
AerisWeather				3.00	1.00	0.00
CFAN						21.00
Foreca/Vaisala	5.00	7.50	7.50	1.50	8.00	5.00
Global Weather Corp	11.00	13.33	15.00	11.00	2.00	2.00
Microsoft						3.00
OpenWeather				3.00	0.00	0.00
Pelmorex	18.50	7.33	14.00	4.00	2.00	2.00
The Weather Channel	34.50	45.33	32.50	41.50	41.50	28.00
Weather News						0.00
Weather Trends					9.00	1.00
Weatherbit				3.00	0.00	1.00
Weerplaza				7.00	6.50	4.00
Wetter					6.00	0.00
World Weather Online	6.00	4.00	6.00	5.00	4.00	13.00
yr.no					1.00	1.00

Table 44: United States Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	7.74%	10.71%	5.95%	3.57%	3.57%
AerisWeather				3.57%	1.19%	0.00%
CFAN						25.00%
Foreca/Vaisala	5.95%	8.93%	8.93%	1.79%	9.52%	5.95%
Global Weather Corp	13.10%	15.87%	17.86%	13.10%	2.38%	2.38%
Microsoft						3.57%
OpenWeather				3.57%	0.00%	0.00%
Pelmorex	22.02%	8.73%	16.67%	4.76%	2.38%	2.38%
The Weather Channel	41.07%	53.96%	38.69%	49.40%	49.40%	33.33%
Weather News						0.00%
Weather Trends					10.71%	1.19%
Weatherbit				3.57%	0.00%	1.19%
Weerplaza				8.33%	7.74%	4.76%
Wetter					7.14%	0.00%
World Weather Online	7.14%	4.76%	7.14%	5.95%	4.76%	15.48%
yr.no					1.19%	1.19%

Table 45: United States Nine-Day-Out Forecast First-Place Percentages

## Canada Skill Summary

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Since the previous report, The Weather Channel claimed the greatest number of first-place finishes in Canada for all days out in 2021 and 2022. Going back to 2017, the only exceptions to The Weather Channel's first-place finishes in Canada were MeteoGroup five days out in 2018 and Canadian-based Global News, which only provides forecasts for Canada, for seven through nine days out in 2018.

In addition to Global News, this was the only region for which Environment Canada produced forecasts. Global News was not much of a factor in 2021 and 2022, earning 0–5% of first-place points one through five days out and 5–10% for six through nine days out. Environment Canada earned 5–10% for two through four days out in 2021 and 2022 but had no first-place finishes five days out for these two years, or one day out in 2021. Global News provided forecasts for only 49 of the 84 metrics in 2021 and 2022, while Environment Canada provided forecasts for 62 of the 84 through only five days out.

In terms of the percentage of first-place finishes by the number possible for each provider, The Weather Channel earned the most for 48 of the 54 day out/year combinations. The exceptions were MeteoGroup in 2018 for five days out, Global Weather Corporation for 2018 for six days out and for 2019 for eight days out, and Global News for 2018 for seven through nine days out.

Combining the six years and all days out for Canada, The Weather Channel had the greatest number of first-place points with 1596.09 (35.19%). AccuWeather had the second highest points with 561.50 (12.38%), and Foreca/Vaisala had the third best with 489.03 points (10.78%). The Weather Channel had the most total first-place points for all days out. AccuWeather had the second greatest number of first-place points for one through five days out, Foreca/Vaisala had the second greatest total first-place points for six through eight days out, and Global News had the second greatest for nine days out. The third highest first-place points belonged to Foreca/Vaisala for one through three, and nine days out, Global News four, five, seven, and eight days out, and AccuWeather for six days out. The Weather Channel had the best finish, based on average points for the days out for which it forecasted, for five of the six years; Global News had the highest per-day-out average in 2018.

Seven providers competed in at least 50% of metrics for Canada: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, Dark Sky, and Global News (all had forecasts for 76% or more of the total of 4536 possible metrics). Six additional providers competed in 42–50% of metrics: Global Weather Corporation, Weatherbit, AerisWeather, Weerplaza, OpenWeather, and Environment Canada.

Table 47 through Table 64 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for the Canada region.

## Individual Metrics

Table 46 shows the forecast providers with the highest average first-place points for each metric group by year in Canada.

Canada	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	Global News	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	The Weather Channel	Global News	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Opacity</b>	Foreca/Vaisala	Meteo-Group	Accu-Weather	Accu-Weather	Wetter	Environment Canada	<b>Meteo-Group</b>
<b>Precipitation</b>	Foreca/Vaisala	The Weather Channel	The Weather Channel	The Weather Channel	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>POP</b>	Pelmorex	Pelmorex	Foreca/Vaisala	The Weather Channel	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>Winds</b>	The Weather Channel	Global News	Global News	The Weather Channel	The Weather Channel	The Weather Channel	<b>Global News</b>

Table 46: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Canada

### High Temperature

The Weather Channel performed better, relative to other providers, with high temperatures in Canada than in the United States. They had the most first-place finishes for all forecast days out when looking at all years from 2017–2022.

Global Weather Corporation had the second greatest number of first-place points for one through six days out and the third greatest number for seven through nine days out. Global News claimed the second greatest for seven through nine days out. The third highest went to AccuWeather for two through five days out, Pelmorex for one day out, and MeteoGroup for six days out.

The Weather Channel recorded a total of 495.10 first-place points for high temperatures across all nine days out and all six years in Canada, and Global Weather Corporation was second with 131.08 points. Global News was third with 101.09 points.

## **Low Temperature**

The Weather Channel also performed very well for low temperatures in Canada, with the greatest number of first-place finishes for all days out.

AccuWeather had the second greatest number of first-place points for one through four, and six days out, and the third highest for five days out. Global Weather Corporation had the second greatest number of first-place points for five, eight, and nine days out and the third highest for every other number of days out. MeteoGroup recorded the second greatest for seven days out and third highest for eight and nine days out.

The Weather Channel amassed a total of 454.98 first-place points for low temperatures across all nine days out and all six years in Canada. AccuWeather was second with 135.73 total points, just barely edging Global Weather Corporation, which was third with 133.41 points.

## **Opacity**

As with the United States, first-place points for opacity were much more equally distributed among different providers. MeteoGroup had the highest average number of first-place points per year and day out with 4.56, but because MeteoGroup had more limited number of years and days out, AccuWeather had the highest total number of first-place points with 204. Foreca/Vaisala had the second greatest points with 125, and The Weather Channel had the third highest with 96. MeteoGroup's 82 points placed it fourth, but its forecasts were limited to six days out and only three years represented only one-third the number of forecasts it would have produced had it had competing forecasts for nine days out and for all six years.

AccuWeather had the most first-place points for opacity for three through nine days out and the second most for one and two days out. MeteoGroup had the most for one and two days out, the second most for three and four days out, and the third most for five days out. Foreca/Vaisala tied for the most six days out, had the second most for five, and seven through nine days out, and the third

most for four days out. The remainder of the third most first-place points were spread between AerisWeather, Environment Canada, and The Weather Channel.

## **Precipitation**

In the previous report, The Weather Channel narrowly had the most first-place finishes for precipitation in Canada; however, Foreca/Vaisala easily earned the most first-place finishes in both 2021 and 2022 for all days out in Canada's precipitation forecasts, and thus for all years from 2017–2022, it now has the most first-place points with 73 (27.04%). The Weather Channel has the second most with 61 points, and World Weather Online the third most with 31 points.

Foreca/Vaisala saw the most first-place points on one through four, and six through eight days out, with the second most for five and nine days out. The Weather Channel took the most on those two days (five and nine days out), as well as tied for the most for four days out and had the second most for one, three, and six through eight days out, and the third most two days out. Global Weather Corporation tied for the second most for three days out, had the second most for two days out, and the third most for one and eight days out. Dark Sky had the third most for seven days out, and World Weather Online had the third most for all other days out (one, four through six, seven, and nine days out).

## **Probability of Precipitation**

For POP, Foreca/Vaisala also dominated 2021 and 2022, averaging 7.89 first-place points per day out both years (out of a total of 13 POP metrics), while The Weather Channel, previously with the most first-place points in combined precipitation and POP metrics in the previous report, only earned an average of 0.11 first-place points per day out for 2021 and 2022 in Canada. As a result, Foreca/Vaisala had the most first-place points for the entire 2017–2022 period with 223, with Pelmorex in second (146.58 points) and The Weather Channel in third (108 points).

Foreca/Vaisala had the greatest number of first-place points for all days out except three and four days out, for which they finished with the second highest; Pelmorex had the most for those days out. Pelmorex also had the second greatest number for all other days out except for seven and nine days out, when The Weather Channel had the second highest first-place points. The Weather Channel had the third greatest for two, four through six, and eight days out, while AccuWeather had the third greatest for three days out and Dark Sky the third highest for one day out.

## **Winds**

The Weather Channel earned the greatest number of points for winds in Canada, but not by as dominating a margin as it had in the United States. In fact, because Global News only competed in wind forecast for three years (2018–2020), they had a higher average per day-out and year in which



they competed than The Weather Channel. In the previous report, they had more first-place points than The Weather Channel, but The Weather Channel surpassed them, as Global News did not compete in wind forecasts in 2021 and 2022. In addition to Global Weather Corporation and Weather News, Environment Canada did not compete in wind metrics for the Canada region for any year.

The Weather Channel finished with the greatest number of first-place points for wind forecasts in Canada every single day out with a total of 381 first-place points. Global News, which only had wind forecasts for those three years, finished with the second greatest number of first-place points every single day out with a total of 202 first-place points. AccuWeather had the third greatest number of first-place points every day out except for six days out and finished with the third highest total of 90 first-place points. Pelmorex had the third highest points for six days out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	15.50	13.37	14.33	16.00	4.50	3.00
AerisWeather				0.00	10.25	8.50
Dark Sky	6.00	3.33	4.00	5.50	0.00	1.00
Environment Canada	1.00	0.00	2.00	2.00	0.00	3.00
Foreca/Vaisala	4.00	4.20	4.50	3.50	10.50	12.00
Global News	3.00	11.20	10.00	2.00	3.00	2.00
Global Weather Corp	6.50	8.00	4.00	2.50	5.25	0.25
MeteoGroup	11.50	11.53	12.50			
Microsoft						10.25
OpenWeather				1.00	1.00	2.50
Pelmorex	6.00	8.17	3.33	5.00	3.25	3.83
The Weather Channel	27.50	23.20	25.33	33.50	33.75	28.08
Weather News					1.00	1.33
Weather Trends					0.50	2.25
Weatherbit				4.00	0.00	0.50
Weerplaza				2.00	0.00	1.00
Wetter					5.00	1.50
WetterOnline					3.00	1.00
World Weather Online	3.00	1.00	4.00	7.00	3.00	1.00
yr.no					0.00	1.00

Table 47: Canada One-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	18.45%	15.92%	17.06%	19.05%	5.36%	3.57%
AerisWeather				0.00%	12.20%	10.12%
Dark Sky	7.14%	3.96%	4.76%	6.55%	0.00%	1.19%
Environment Canada	1.19%	0.00%	2.38%	2.38%	0.00%	3.57%
Foreca/Vaisala	4.76%	5.00%	5.36%	4.17%	12.50%	14.29%
Global News	3.57%	13.33%	11.90%	2.38%	3.57%	2.38%
Global Weather Corp	7.74%	9.52%	4.76%	2.98%	6.25%	0.30%
MeteoGroup	13.69%	13.73%	14.88%			
Microsoft						12.20%
OpenWeather				1.19%	1.19%	2.98%
Pelmorex	7.14%	9.73%	3.96%	5.95%	3.87%	4.56%
The Weather Channel	32.74%	27.62%	30.15%	39.88%	40.18%	33.43%
Weather News					1.19%	1.58%
Weather Trends					0.60%	2.68%
Weatherbit				4.76%	0.00%	0.60%
Weerplaza				2.38%	0.00%	1.19%
Wetter					5.95%	1.79%
WetterOnline					3.57%	1.19%
World Weather Online	3.57%	1.19%	4.76%	8.33%	3.57%	1.19%
yr.no					0.00%	1.19%

Table 48: Canada One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	14.83	12.25	15.50	14.33	4.50	6.50
AerisWeather				3.00	1.50	0.50
Dark Sky	7.00	3.00	5.00	3.00	0.00	1.00
Environment Canada	1.00	2.25	3.50	1.00	5.00	7.50
Foreca/Vaisala	6.33	3.00	2.00	6.25	13.50	14.00
Global News	1.00	14.00	11.50	9.83	4.00	3.00
Global Weather Corp	6.00	7.75	6.00	3.08	4.50	1.00
MeteoGroup	11.83	14.75	10.00			
Microsoft						9.00
OpenWeather				0.00	3.00	1.00
Pelmorex	6.00	5.00	1.00	5.00	3.00	0.00
The Weather Channel	28.00	21.00	25.50	28.50	38.00	33.50
Weather News					0.00	0.00
Weather Trends					3.00	3.00
Weatherbit				6.00	0.00	0.00
Weerplaza				1.00	0.00	1.00
Wetter					3.00	0.00
WetterOnline					0.00	1.00
World Weather Online	2.00	1.00	4.00	3.00	1.00	1.00
yr.no					0.00	1.00

Table 49: Canada Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	17.65%	14.58%	18.45%	17.06%	5.36%	7.74%
AerisWeather				3.57%	1.79%	0.60%
Dark Sky	8.33%	3.57%	5.95%	3.57%	0.00%	1.19%
Environment Canada	1.19%	2.68%	4.17%	1.19%	5.95%	8.93%
Foreca/Vaisala	7.54%	3.57%	2.38%	7.44%	16.07%	16.67%
Global News	1.19%	16.67%	13.69%	11.70%	4.76%	3.57%
Global Weather Corp	7.14%	9.23%	7.14%	3.67%	5.36%	1.19%
MeteoGroup	14.08%	17.56%	11.90%			
Microsoft						10.71%
OpenWeather				0.00%	3.57%	1.19%
Pelmorex	7.14%	5.95%	1.19%	5.95%	3.57%	0.00%
The Weather Channel	33.33%	25.00%	30.36%	33.93%	45.24%	39.88%
Weather News					0.00%	0.00%
Weather Trends					3.57%	3.57%
Weatherbit				7.14%	0.00%	0.00%
Weerplaza				1.19%	0.00%	1.19%
Wetter					3.57%	0.00%
WetterOnline					0.00%	1.19%
World Weather Online	2.38%	1.19%	4.76%	3.57%	1.19%	1.19%
yr.no					0.00%	1.19%

Table 50: Canada Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.33	11.50	16.83	19.50	5.33	8.00
AerisWeather				0.00	2.33	0.50
Dark Sky	5.00	3.00	4.00	1.00	1.00	1.00
Environment Canada	0.00	1.00	0.00	0.00	5.00	8.00
Foreca/Vaisala	8.00	2.00	2.00	5.50	13.00	13.00
Global News	1.33	15.50	12.50	7.00	3.00	4.00
Global Weather Corp	7.67	6.00	6.33	5.00	3.50	0.50
MeteoGroup	7.67	15.00	12.50			
Microsoft						7.00
OpenWeather				0.00	1.00	0.00
Pelmorex	7.00	5.00	3.00	5.00	3.33	2.50
The Weather Channel	32.00	24.00	23.83	28.00	33.00	31.50
Weather News					1.00	1.00
Weather Trends					2.50	2.00
Weatherbit				5.00	0.00	0.00
Weerplaza				4.00	1.00	0.00
Wetter					3.00	0.00
WetterOnline					4.00	4.00
World Weather Online	2.00	1.00	3.00	4.00	2.00	0.00
yr.no					0.00	1.00

Table 51: Canada Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.87%	13.69%	20.04%	23.21%	6.35%	9.52%
AerisWeather				0.00%	2.77%	0.60%
Dark Sky	5.95%	3.57%	4.76%	1.19%	1.19%	1.19%
Environment Canada	0.00%	1.19%	0.00%	0.00%	5.95%	9.52%
Foreca/Vaisala	9.52%	2.38%	2.38%	6.55%	15.48%	15.48%
Global News	1.58%	18.45%	14.88%	8.33%	3.57%	4.76%
Global Weather Corp	9.13%	7.14%	7.54%	5.95%	4.17%	0.60%
MeteoGroup	9.13%	17.86%	14.88%			
Microsoft						8.33%
OpenWeather				0.00%	1.19%	0.00%
Pelmorex	8.33%	5.95%	3.57%	5.95%	3.96%	2.98%
The Weather Channel	38.10%	28.57%	28.37%	33.33%	39.29%	37.50%
Weather News					1.19%	1.19%
Weather Trends					2.98%	2.38%
Weatherbit				5.95%	0.00%	0.00%
Weerplaza				4.76%	1.19%	0.00%
Wetter					3.57%	0.00%
WetterOnline					4.76%	4.76%
World Weather Online	2.38%	1.19%	3.57%	4.76%	2.38%	0.00%
yr.no					0.00%	1.19%

Table 52: Canada Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	16.33	10.00	18.00	15.00	4.50	8.33
AerisWeather				2.00	2.00	0.50
Dark Sky	6.50	3.50	2.00	2.00	0.00	1.00
Environment Canada	0.00	1.00	1.25	0.00	4.50	6.00
Foreca/Vaisala	8.00	1.83	2.00	4.00	12.00	11.00
Global News	3.83	15.33	12.58	9.00	4.00	4.00
Global Weather Corp	9.50	4.33	6.25	4.00	0.00	2.00
MeteoGroup	10.00	15.33	8.33			
Microsoft						9.00
OpenWeather				0.00	2.00	0.00
Pelmorex	8.00	9.50	3.00	5.00	3.00	2.50
The Weather Channel	20.83	20.17	28.58	32.00	40.00	31.33
Weather News					1.00	2.33
Weather Trends					2.00	0.00
Weatherbit				6.00	2.00	0.00
Weerplaza				2.50	0.00	0.00
Wetter					4.00	1.00
World Weather Online	1.00	3.00	2.00	2.50	2.00	4.00
yr.no					1.00	1.00

Table 53: Canada Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	19.44%	11.90%	21.43%	17.86%	5.36%	9.92%
AerisWeather				2.38%	2.38%	0.60%
Dark Sky	7.74%	4.17%	2.38%	2.38%	0.00%	1.19%
Environment Canada	0.00%	1.19%	1.49%	0.00%	5.36%	7.14%
Foreca/Vaisala	9.52%	2.18%	2.38%	4.76%	14.29%	13.10%
Global News	4.56%	18.25%	14.98%	10.71%	4.76%	4.76%
Global Weather Corp	11.31%	5.15%	7.44%	4.76%	0.00%	2.38%
MeteoGroup	11.90%	18.25%	9.92%			
Microsoft						10.71%
OpenWeather				0.00%	2.38%	0.00%
Pelmorex	9.52%	11.31%	3.57%	5.95%	3.57%	2.98%
The Weather Channel	24.80%	24.01%	34.02%	38.10%	47.62%	37.30%
Weather News					1.19%	2.77%
Weather Trends					2.38%	0.00%
Weatherbit				7.14%	2.38%	0.00%
Weerplaza				2.98%	0.00%	0.00%
Wetter					4.76%	1.19%
World Weather Online	1.19%	3.57%	2.38%	2.98%	2.38%	4.76%
yr.no					1.19%	1.19%

Table 54: Canada Four-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.75	14.17	14.50	17.00	5.00	4.00
AerisWeather				0.00	1.00	1.50
Dark Sky	6.00	2.00	2.00	2.00	1.00	0.00
Environment Canada	1.00	1.00	2.00	0.00	0.00	0.00
Foreca/Vaisala	9.00	3.00	6.00	4.00	12.00	12.00
Global News	4.75	15.67	11.33	6.33	4.00	4.00
Global Weather Corp	11.25	5.67	3.50	3.00	3.00	3.00
MeteoGroup	8.00	17.67	9.83			
Microsoft						4.00
OpenWeather				1.33	2.00	0.00
Pelmorex	6.00	8.17	3.50	6.50	1.50	2.50
The Weather Channel	27.25	12.67	29.33	34.83	37.00	36.50
Weather News					1.00	0.00
Weather Trends					3.50	3.00
Weatherbit				4.00	1.00	0.00
Weerplaza				3.00	2.00	1.50
Wetter					6.00	2.00
World Weather Online	2.00	4.00	2.00	2.00	3.00	9.00
yr.no					1.00	1.00

Table 55: Canada Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.42%	16.87%	17.26%	20.24%	5.95%	4.76%
AerisWeather				0.00%	1.19%	1.79%
Dark Sky	7.14%	2.38%	2.38%	2.38%	1.19%	0.00%
Environment Canada	1.19%	1.19%	2.38%	0.00%	0.00%	0.00%
Foreca/Vaisala	10.71%	3.57%	7.14%	4.76%	14.29%	14.29%
Global News	5.65%	18.65%	13.49%	7.54%	4.76%	4.76%
Global Weather Corp	13.39%	6.75%	4.17%	3.57%	3.57%	3.57%
MeteoGroup	9.52%	21.04%	11.70%			
Microsoft						4.76%
OpenWeather				1.58%	2.38%	0.00%
Pelmorex	7.14%	9.73%	4.17%	7.74%	1.79%	2.98%
The Weather Channel	32.44%	15.08%	34.92%	41.46%	44.05%	43.45%
Weather News					1.19%	0.00%
Weather Trends					4.17%	3.57%
Weatherbit				4.76%	1.19%	0.00%
Weerplaza				3.57%	2.38%	1.79%
Wetter					7.14%	2.38%
World Weather Online	2.38%	4.76%	2.38%	2.38%	3.57%	10.71%
yr.no					1.19%	1.19%

Table 56: Canada Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.50	7.00	16.33	17.00	3.00	3.00
AerisWeather				4.50	0.00	2.00
Dark Sky	3.00	5.25	1.00	1.50	0.00	0.00
Environment Canada	1.00					
Foreca/Vaisala	12.00	15.25	8.00	5.50	13.50	14.50
Global News	2.50	12.25	8.83	4.33	6.00	4.00
Global Weather Corp	10.00	11.00	8.50	3.00	1.00	3.50
MeteoGroup	13.00	7.00	3.00			
Microsoft						2.00
OpenWeather				0.00	0.00	1.00
Pelmorex	8.00	5.00	2.00	6.00	5.50	3.33
The Weather Channel	23.00	17.25	34.33	33.83	38.00	34.50
Weather News					2.00	0.33
Weather Trends					1.00	1.00
Weatherbit				1.00	0.00	0.00
Weerplaza				6.33	4.00	3.83
Wetter					9.00	2.00
World Weather Online	3.00	4.00	2.00	1.00	1.00	8.00
yr.no					0.00	1.00

Table 57: Canada Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.12%	8.33%	19.44%	20.24%	3.57%	3.57%
AerisWeather				5.36%	0.00%	2.38%
Dark Sky	3.57%	6.25%	1.19%	1.79%	0.00%	0.00%
Environment Canada	1.19%					
Foreca/Vaisala	14.29%	18.15%	9.52%	6.55%	16.07%	17.26%
Global News	2.98%	14.58%	10.51%	5.15%	7.14%	4.76%
Global Weather Corp	11.90%	13.10%	10.12%	3.57%	1.19%	4.17%
MeteoGroup	15.48%	8.33%	3.57%			
Microsoft						2.38%
OpenWeather				0.00%	0.00%	1.19%
Pelmorex	9.52%	5.95%	2.38%	7.14%	6.55%	3.96%
The Weather Channel	27.38%	20.54%	40.87%	40.27%	45.24%	41.07%
Weather News					2.38%	0.39%
Weather Trends					1.19%	1.19%
Weatherbit				1.19%	0.00%	0.00%
Weerplaza				7.54%	4.76%	4.56%
Wetter					10.71%	2.38%
World Weather Online	3.57%	4.76%	2.38%	1.19%	1.19%	9.52%
yr.no					0.00%	1.19%

Table 58: Canada Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.50	7.00	14.83	9.00	3.00	5.00
AerisWeather				4.00	1.00	1.00
Dark Sky	5.00	3.00	3.00	2.00	0.00	2.00
Foreca/Vaisala	14.50	13.00	13.50	2.00	12.00	15.00
Global News		38.00	9.17	7.33	8.00	4.00
Global Weather Corp	8.00	3.00	10.33	8.00	2.00	3.00
Microsoft						3.00
OpenWeather				0.00	2.00	1.00
Pelmorex	9.00	4.00	2.50	8.00	3.00	1.50
The Weather Channel	36.00	12.00	29.67	32.33	37.00	33.00
Weather News						1.00
Weather Trends					1.00	1.50
Weatherbit				4.00	1.00	0.00
Weerplaza				5.33	4.00	2.00
Wetter					7.00	0.00
World Weather Online	3.00	4.00	1.00	2.00	2.00	10.00
yr.no					1.00	1.00

Table 59: Canada Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.12%	8.33%	17.65%	10.71%	3.57%	5.95%
AerisWeather				4.76%	1.19%	1.19%
Dark Sky	5.95%	3.57%	3.57%	2.38%	0.00%	2.38%
Foreca/Vaisala	17.26%	15.48%	16.07%	2.38%	14.29%	17.86%
Global News		45.24%	10.92%	8.73%	9.52%	4.76%
Global Weather Corp	9.52%	3.57%	12.30%	9.52%	2.38%	3.57%
Microsoft						3.57%
OpenWeather				0.00%	2.38%	1.19%
Pelmorex	10.71%	4.76%	2.98%	9.52%	3.57%	1.79%
The Weather Channel	42.86%	14.29%	35.32%	38.49%	44.05%	39.29%
Weather News						1.19%
Weather Trends					1.19%	1.79%
Weatherbit				4.76%	1.19%	0.00%
Weerplaza				6.35%	4.76%	2.38%
Wetter					8.33%	0.00%
World Weather Online	3.57%	4.76%	1.19%	2.38%	2.38%	11.90%
yr.no					1.19%	1.19%

Table 60: Canada Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.00	9.00	14.83	14.50	4.00	4.00
AerisWeather				4.00	1.00	0.00
Foreca/Vaisala	15.00	13.00	14.00	4.00	11.00	12.00
Global News		35.00	9.33	8.00	7.00	6.00
Global Weather Corp	12.00	3.00	14.83	8.00	3.00	2.00
Microsoft						3.00
OpenWeather				0.50	1.00	1.00
Pelmorex	6.00	5.00	3.00	5.50	4.00	4.00
The Weather Channel	39.00	17.00	27.00	33.00	36.00	35.00
Weather News						2.50
Weather Trends					2.00	1.00
Weatherbit				1.50	0.00	0.00
Weerplaza				2.00	6.00	4.50
Wetter					6.00	1.00
World Weather Online	2.00	2.00	1.00	3.00	2.00	8.00
yr.no					1.00	0.00

Table 61: Canada Eight-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.90%	10.71%	17.65%	17.26%	4.76%	4.76%
AerisWeather				4.76%	1.19%	0.00%
Foreca/Vaisala	17.86%	15.48%	16.67%	4.76%	13.10%	14.29%
Global News		41.67%	11.11%	9.52%	8.33%	7.14%
Global Weather Corp	14.29%	3.57%	17.65%	9.52%	3.57%	2.38%
Microsoft						3.57%
OpenWeather				0.60%	1.19%	1.19%
Pelmorex	7.14%	5.95%	3.57%	6.55%	4.76%	4.76%
The Weather Channel	46.43%	20.24%	32.14%	39.29%	42.86%	41.67%
Weather News						2.98%
Weather Trends					2.38%	1.19%
Weatherbit				1.79%	0.00%	0.00%
Weerplaza				2.38%	7.14%	5.36%
Wetter					7.14%	1.19%
World Weather Online	2.38%	2.38%	1.19%	3.57%	2.38%	9.52%
yr.no					1.19%	0.00%

Table 62: Canada Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	14.00	11.00	17.50	10.50	3.00	2.33
AerisWeather				4.00	0.00	2.00
Foreca/Vaisala	14.67	15.00	11.00	5.00	13.50	10.00
Global News		38.00	7.33	11.00	7.50	7.00
Global Weather Corp	8.67	5.00	9.00	6.00	3.00	4.33
Microsoft						2.00
OpenWeather				1.00	2.00	1.00
Pelmorex	6.00	1.00	7.33	5.50	3.50	3.33
The Weather Channel	40.67	13.00	29.83	33.00	32.00	31.00
Weather News						4.00
Weather Trends					1.50	2.00
Weatherbit				5.00	1.00	0.00
Weerplaza				1.00	7.00	3.00
Wetter					7.00	2.00
World Weather Online	0.00	1.00	2.00	2.00	2.00	10.00
yr.no					1.00	0.00

Table 63: Canada Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	16.67%	13.10%	20.83%	12.50%	3.57%	2.77%
AerisWeather				4.76%	0.00%	2.38%
Foreca/Vaisala	17.46%	17.86%	13.10%	5.95%	16.07%	11.90%
Global News		45.24%	8.73%	13.10%	8.93%	8.33%
Global Weather Corp	10.32%	5.95%	10.71%	7.14%	3.57%	5.15%
Microsoft						2.38%
OpenWeather				1.19%	2.38%	1.19%
Pelmorex	7.14%	1.19%	8.73%	6.55%	4.17%	3.96%
The Weather Channel	48.42%	15.48%	35.51%	39.29%	38.10%	36.90%
Weather News						4.76%
Weather Trends					1.79%	2.38%
Weatherbit				5.95%	1.19%	0.00%
Weerplaza				1.19%	8.33%	3.57%
Wetter					8.33%	2.38%
World Weather Online	0.00%	1.19%	2.38%	2.38%	2.38%	11.90%
yr.no					1.19%	0.00%

Table 64: Canada Nine-Day-Out Forecast First-Place Percentages

## Central America Region Skill Summary

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In the previous report for 2017–2020, it was noted that Pelmorex generally claimed most of the first-place finishes in Central America for short-term periods and earlier years, while The Weather Channel claimed most for longer time periods and more recent years. In 2021 and 2022, The Weather Channel continued to claim the most first-place points for longer time periods (five through nine days out for both years), but a new provider for 2022, Microsoft, claimed the most first-place points in 2022 for one through four days out. The Weather Channel claimed the most for one through four days out in 2021.

Going back to 2017, of the 54 day out/year combinations, The Weather Channel earned the most first-place points in 35 of them, Pelmorex in 15, Microsoft in four, and AccuWeather (2019 for two days out) and MeteoGroup (2019 for three days out) each in one. The Weather Channel and Pelmorex tied for the greatest number of first-place finishes twice. Overall, through all nine days out in Central America, The Weather Channel earned 26.82% of the total possible points (1216.38 points), Pelmorex earned 21.33%, (967.49) and AccuWeather earned 10.35% (469.62). No other provider earned more than 6.5%.

Adjusting for the number of metrics for which each provider made forecasts, The Weather Channel finished with the highest percentage for their individual metrics for 34 of the 54 day out/year combinations, including for all years from 2018–2022 and six through nine days out. Pelmorex had the most for 11 combinations (all one through six days out), Global Weather Corporation and Microsoft each had the most for four of them, and AccuWeather and MeteoGroup had the most for one each.

The Weather Channel had the most total first-place points for one day out and five through nine days out, and the second greatest number of first-place points for two through four days out. Pelmorex had the opposite: the most first-place points two through four days out and the second most for one day out and five through nine days out. The third greatest number of first-place points went to AccuWeather one through five days out, Dark Sky six and seven days out, and Global Weather Corporation eight and nine days out.

Six providers competed in at least 50% of metrics for Central America: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: Global Weather Corporation, Weatherbit, AerisWeather, OpenWeather, and Weerplaza.

Table 66 through Table 83 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for Central America.

## Individual Metrics

Table 65 shows the forecast providers with the highest average first-place points for each metric group by year in Central America.

Central America	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	Pelmorex	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	Global Weather Corp.	Pelmorex	Pelmorex	Accu-Weather	Global Weather Corp.	Pelmorex	<b>Pelmorex</b>
<b>Low Temperature</b>	Pelmorex	Pelmorex	Pelmorex	Pelmorex	The Weather Channel	The Weather Channel	<b>Pelmorex</b>
<b>Opacity</b>	World Weather Online	Meteo-Group	Meteo-Group	The Weather Channel	yr.no	Wetter-Online	<b>Wetter-Online</b>
<b>Precipitation</b>	Meteo-Group	The Weather Channel	Dark Sky	Weather-bit	Foreca/Vaisala	Foreca/Vaisala	<b>Meteo-Group</b>
<b>POP</b>	The Weather Channel	Dark Sky	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 65: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Central America

### High Temperature

The parity among forecast providers in Central America mentioned in the previous report continued in 2021 and 2022. Global Weather Corporation had the most average first-place points in 2021 and Pelmorex the highest in 2022 for temperatures. Of the 18 possible day out/year combinations in

2021 and 2022, Pelmorex finished with the most in ten of them, Global Weather Corporation finished with the most in four, AccuWeather had the most in two, and Microsoft, The Weather Channel, and Weather Trends each finished with the most one time. There was one tie.

Combined, Pelmorex had the most first-place points with 302.24 and Global Weather Corporation had the second most with 220.99. AccuWeather was third with 192.35 points. No other provider had more than 80 points. Pelmorex had the greatest number of first-place points for one through four, and seven days out and the second greatest for five, six, eight, and nine days out. Global Weather Corporation had the most for six, eight, and nine days out, the second most for seven days out, and the third most for two through five days out. AccuWeather had the greatest number of first-place points for five days out, the second greatest for one through four days out, and the third greatest for six and seven days out. Finally, MeteoGroup recorded the third most for one day out and The Weather Channel had the third most for eight and nine days out.

## Low Temperature

Pelmorex also had the greatest number of first-place finishes for low temperatures in Central America, but Global Weather Corporation did worse with low temperatures than high temperatures and The Weather Channel did better with low temperatures. Pelmorex had 376.23 total first-place points, The Weather Channel had 306.71 points, and Global Weather Corporation was third with only 73.51 points.

In 2021 and 2022, The Weather Channel had the greatest number of first-place points for low temperatures for 15 of the 18 day out/year combinations. Pelmorex and Global Weather Corporation each had two (four days out in 2022 involved a tie between Pelmorex and Global Weather Corporation).

In terms of total points by days out, Pelmorex had the most first-place points for one through seven days out and the second most for eight and nine days out. The Weather Channel had the most for eight and nine days out and second most for one through seven days out. The third greatest number of first-place points were split between several providers: MeteoGroup for one through three days out, Global Weather Corporation for four, eight, and nine days out, Foreca/Vaisala for five days out, and AccuWeather for six and seven days out.

## Opacity

WetterOnline had the highest average points for opacity, but that was only based on two years and three days out. Thus, in terms of total opacity points, they only had the ninth most first-place points. Pelmorex had the greatest number with 163 points, The Weather Channel had the second greatest number with 127 points, and World Weather Online had the third highest with 122.



Pelmorex had the greatest number of first-place points for one through five days out, while The Weather Channel had the greatest for six through nine days out. MeteoGroup had the second greatest number of first-place finishes for one through three days out, World Weather Online had the second highest for four, five, and seven days out, and Pelmorex had the third greatest for six, eight, and nine days out. The third greatest number of first-place points belonged to World Weather Online for one, three, six, eight, and nine days out, WetterOnline for two and three days out, The Weather Channel for three days out (there was a three-way tie for three days out), MeteoGroup for four days out, Foreca/Vaisala for five days out, and Pelmorex for seven days out.

## **Precipitation**

MeteoGroup recorded the highest average number of first-place points for precipitation in Central America, but this is also based on only three years of forecasts and six days out. In terms of the total number of first-place points, The Weather Channel recorded the greatest with 61.50 points. World Weather Online had the second highest with 49.00 points, and Foreca/Vaisala had the third greatest with 43.00 points.

Foreca/Vaisala had the most precipitation first-place finishes in 2021 and 2022 for South America, claiming the most in 14 of the 18 day out/year combinations; the only four exceptions were for 2022 and one through four days out, each of which were claimed by Microsoft. This allowed Foreca/Vaisala to jump to the third most for the entire 2017–2022 period; in fact, before 2021, Foreca/Vaisala only had three total first-place points, while in 2021–2022, they earned 40 more. This continues the pattern seen earlier with Foreca/Vaisala performing very well with precipitation forecasts the last two years since the previous report.

By forecast days out, The Weather Channel had the most first-place finishes on one through three, eight, and nine days out. Dark Sky had the most for the other four days out (four through seven days out), though World Weather Online tied for the most for four days out and Foreca/Vaisala tied for the most for six days out. The second greatest number of first-place finishes belonged to World Weather Online for one through three, five, and seven days out, Foreca/Vaisala for five, and seven through nine days out, and MeteoGroup for three days out (with ties for three, five, and seven days out). The third most belonged to MeteoGroup and Foreca/Vaisala one day out, Foreca/Vaisala two days out, MeteoGroup four days out, The Weather Channel six days out, and World Weather Online eight and nine days out.

## **Probability of Precipitation**

The Weather Channel continued to have a large lead for POP in Central America, claiming the most first-place points in ten of the 18 day out/year combinations in 2021 and 2022. Foreca/Vaisala and Microsoft had the most in three of those combinations, Weather Trends had the most in two, and



AccuWeather and AerisWeather each had the most in one (with one tie). Overall through all six years, The Weather Channel had the most points with 214.66, Pelmorex had the second most with 103 points, and AccuWeather had the third most with 81.83 points.

The Weather Channel had the greatest number of first-place points for all days out except for two days out; Foreca/Vaisala had the most for two days out. The second greatest number of first-place points belonged to Foreca/Vaisala and Dark Sky for one day out, The Weather Channel for two days out, Dark Sky for three and four days out, Pelmorex for five, six, eight, and nine days out, and AccuWeather for seven days out. The third greatest number of first-place finishes was earned by Pelmorex for two, three, and seven days out, AccuWeather for four, five, eight, and nine days out, and Dark Sky for six days out.

## **Winds**

The Weather Channel dominated wind forecasting in essentially every region as well as globally, which helped it finish with the most first-place points overall as well. Central America was no exception. Of the 18 day out/year combinations in 2021 and 2022, The Weather Channel earned the most first-place points in 17 of them, with the only exception being just behind Microsoft for one day out in 2022. After that, of the 54 day out/year combinations for all six years, The Weather Channel had the most first-place finishes in 53 of them (with two ties). In terms of the total number of first-place points, The Weather Channel recorded 427, while AccuWeather in second place recorded just 123 points. Dark Sky was third with 117 points; no other provider earned more than 34 first-place points.

The Weather Channel also recorded the most first-place points for every day out, recording about two to four times as many first-place points as any other provider for each day out. The second greatest number of points belonged to AccuWeather for one, five, eight, and nine days out, and Dark Sky for two, three, four, six, and seven days out. The third highest were earned by Dark Sky for one and five days out, AccuWeather for two, three, four, six, and seven days out, MeteoGroup for six days out (tied with AccuWeather), Foreca/Vaisala for eight days out, and Weerplaza for nine days out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.00	11.00	14.83	15.58	10.08	1.45
AerisWeather				0.33	1.00	3.00
Dark Sky	7.00	8.00	3.00	9.08	5.00	3.00
Foreca/Vaisala	3.67	3.00	1.33	1.83	13.00	3.50
Global Weather Corp	0.83	0.00	1.50	2.00	6.25	6.53
MeteoGroup	16.50	18.00	18.00			
Microsoft						16.78
OpenWeather				5.83	0.00	7.00
Pelmorex	32.00	22.00	18.83	15.50	8.25	13.58
The Weather Channel	9.00	20.00	24.50	26.00	19.25	13.45
Weather News					0.17	1.00
Weather Trends					2.00	1.70
Weatherbit				4.50	2.33	1.00
Weerplaza				2.33	3.00	2.00
Wetter					2.17	1.00
WetterOnline					2.50	8.00
World Weather Online	9.00	2.00	2.00	1.00	3.00	1.00
yr.no					6.00	0.00

Table 66: Central America One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.14%	13.10%	17.65%	18.55%	12.00%	1.73%
AerisWeather				0.39%	1.19%	3.57%
Dark Sky	8.33%	9.52%	3.57%	10.81%	5.95%	3.57%
Foreca/Vaisala	4.37%	3.57%	1.58%	2.18%	15.48%	4.17%
Global Weather Corp	0.99%	0.00%	1.79%	2.38%	7.44%	7.77%
MeteoGroup	19.64%	21.43%	21.43%			
Microsoft						19.98%
OpenWeather				6.94%	0.00%	8.33%
Pelmorex	38.10%	26.19%	22.42%	18.45%	9.82%	16.17%
The Weather Channel	10.71%	23.81%	29.17%	30.95%	22.92%	16.01%
Weather News					0.20%	1.19%
Weather Trends					2.38%	2.02%
Weatherbit				5.36%	2.77%	1.19%
Weerplaza				2.77%	3.57%	2.38%
Wetter					2.58%	1.19%
WetterOnline					2.98%	9.52%
World Weather Online	10.71%	2.38%	2.38%	1.19%	3.57%	1.19%
yr.no					7.14%	0.00%

Table 67: Central America One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	11.50	13.45	17.95	14.03	12.25	1.00
AerisWeather				0.20	2.00	1.50
Dark Sky	5.00	7.00	5.50	6.17	6.00	6.00
Foreca/Vaisala	2.00	0.45	6.45	3.67	12.33	3.00
Global Weather Corp	2.00	1.45	0.95	3.53	3.33	4.00
MeteoGroup	11.50	15.45	16.50			
Microsoft						21.33
OpenWeather				6.20	0.00	1.00
Pelmorex	32.00	28.70	17.20	14.00	11.00	16.67
The Weather Channel	11.00	15.50	17.45	27.17	17.92	12.50
Weather News					0.00	1.00
Weather Trends					4.25	2.33
Weatherbit				4.83	1.00	0.00
Weerplaza				3.20	1.00	1.67
Wetter					1.58	4.00
WetterOnline					8.00	7.00
World Weather Online	9.00	2.00	2.00	1.00	1.00	1.00
yr.no					2.33	0.00

Table 68: Central America Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	13.69%	16.01%	21.37%	16.70%	14.58%	1.19%
AerisWeather				0.24%	2.38%	1.79%
Dark Sky	5.95%	8.33%	6.55%	7.35%	7.14%	7.14%
Foreca/Vaisala	2.38%	0.54%	7.68%	4.37%	14.68%	3.57%
Global Weather Corp	2.38%	1.73%	1.13%	4.20%	3.96%	4.76%
MeteoGroup	13.69%	18.39%	19.64%			
Microsoft						25.39%
OpenWeather				7.38%	0.00%	1.19%
Pelmorex	38.10%	34.17%	20.48%	16.67%	13.10%	19.85%
The Weather Channel	13.10%	18.45%	20.77%	32.35%	21.33%	14.88%
Weather News					0.00%	1.19%
Weather Trends					5.06%	2.77%
Weatherbit				5.75%	1.19%	0.00%
Weerplaza				3.81%	1.19%	1.99%
Wetter					1.88%	4.76%
WetterOnline					9.52%	8.33%
World Weather Online	10.71%	2.38%	2.38%	1.19%	1.19%	1.19%
yr.no					2.77%	0.00%

Table 69: Central America Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.83	7.33	15.00	15.25	11.17	1.00
AerisWeather				2.25	1.00	1.00
Dark Sky	7.00	12.50	5.50	10.83	5.00	4.00
Foreca/Vaisala	3.50	0.00	3.00	3.25	8.00	5.00
Global Weather Corp	4.33	3.33	1.33	1.83	8.67	7.33
MeteoGroup	6.00	17.83	21.50			
Microsoft						18.83
OpenWeather				5.00	0.00	4.00
Pelmorex	35.33	26.00	16.17	13.00	9.00	17.00
The Weather Channel	11.00	14.00	19.50	25.08	21.33	11.00
Weather News					1.00	1.00
Weather Trends					1.83	2.33
Weatherbit				3.50	3.00	0.00
Weerplaza				3.00	3.00	1.00
Wetter					0.00	1.00
WetterOnline					2.00	7.00
World Weather Online	9.00	3.00	2.00	1.00	1.00	0.00
yr.no					8.00	2.50

Table 70: Central America Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.32%	8.73%	17.86%	18.15%	13.30%	1.19%
AerisWeather				2.68%	1.19%	1.19%
Dark Sky	8.33%	14.88%	6.55%	12.89%	5.95%	4.76%
Foreca/Vaisala	4.17%	0.00%	3.57%	3.87%	9.52%	5.95%
Global Weather Corp	5.15%	3.96%	1.58%	2.18%	10.32%	8.73%
MeteoGroup	7.14%	21.23%	25.60%			
Microsoft						22.42%
OpenWeather				5.95%	0.00%	4.76%
Pelmorex	42.06%	30.95%	19.25%	15.48%	10.71%	20.24%
The Weather Channel	13.10%	16.67%	23.21%	29.86%	25.39%	13.10%
Weather News					1.19%	1.19%
Weather Trends					2.18%	2.77%
Weatherbit				4.17%	3.57%	0.00%
Weerplaza				3.57%	3.57%	1.19%
Wetter					0.00%	1.19%
WetterOnline					2.38%	8.33%
World Weather Online	10.71%	3.57%	2.38%	1.19%	1.19%	0.00%
yr.no					9.52%	2.98%

Table 71: Central America Three-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.00	8.00	14.83	11.87	6.83	1.58
AerisWeather				1.00	3.00	1.00
Dark Sky	6.50	8.00	6.00	14.00	3.00	6.00
Foreca/Vaisala	3.33	4.00	7.00	2.70	5.33	2.00
Global Weather Corp	7.50	6.00	1.00	3.87	13.83	5.58
MeteoGroup	7.17	14.33	13.33			
Microsoft						23.00
OpenWeather				2.50	1.00	2.00
Pelmorex	30.50	21.33	16.67	18.00	8.00	16.58
The Weather Channel	10.00	19.33	24.17	20.87	18.33	10.00
Weather News					3.00	1.00
Weather Trends					2.83	1.25
Weatherbit				5.20	2.00	0.00
Weerplaza				3.00	8.00	1.00
Wetter					0.50	2.00
World Weather Online	9.00	3.00	1.00	1.00	1.00	10.00
yr.no					7.33	1.00

Table 72: Central America Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.90%	9.52%	17.65%	14.13%	8.13%	1.88%
AerisWeather				1.19%	3.57%	1.19%
Dark Sky	7.74%	9.52%	7.14%	16.67%	3.57%	7.14%
Foreca/Vaisala	3.96%	4.76%	8.33%	3.21%	6.35%	2.38%
Global Weather Corp	8.93%	7.14%	1.19%	4.61%	16.46%	6.64%
MeteoGroup	8.54%	17.06%	15.87%			
Microsoft						27.38%
OpenWeather				2.98%	1.19%	2.38%
Pelmorex	36.31%	25.39%	19.85%	21.43%	9.52%	19.74%
The Weather Channel	11.90%	23.01%	28.77%	24.85%	21.82%	11.90%
Weather News					3.57%	1.19%
Weather Trends					3.37%	1.49%
Weatherbit				6.19%	2.38%	0.00%
Weerplaza				3.57%	9.52%	1.19%
Wetter					0.60%	2.38%
World Weather Online	10.71%	3.57%	1.19%	1.19%	1.19%	11.90%
yr.no					8.73%	1.19%

Table 73: Central America Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.33	14.78	12.20	15.25	14.70	0.00
AerisWeather				1.00	3.00	1.00
Dark Sky	3.00	2.25	8.00	9.58	7.70	4.00
Foreca/Vaisala	2.33	0.70	7.20	11.42	7.00	9.83
Global Weather Corp	8.33	1.78	3.00	0.58	5.20	5.50
MeteoGroup	7.00	11.70	13.20			
Microsoft						9.33
OpenWeather				4.00	2.00	1.00
Pelmorex	26.00	22.78	21.20	12.42	8.00	14.33
The Weather Channel	14.00	27.50	18.20	22.17	23.03	18.33
Weather News					2.00	1.00
Weather Trends					1.70	3.00
Weatherbit				2.00	1.00	0.00
Weerplaza				4.58	3.00	2.33
Wetter					0.33	2.33
World Weather Online	11.00	2.50	1.00	1.00	0.00	8.00
yr.no					5.33	4.00

Table 74: Central America Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.68%	17.60%	14.52%	18.15%	17.50%	0.00%
AerisWeather				1.19%	3.57%	1.19%
Dark Sky	3.57%	2.68%	9.52%	11.40%	9.17%	4.76%
Foreca/Vaisala	2.77%	0.83%	8.57%	13.60%	8.33%	11.70%
Global Weather Corp	9.92%	2.12%	3.57%	0.69%	6.19%	6.55%
MeteoGroup	8.33%	13.93%	15.71%			
Microsoft						11.11%
OpenWeather				4.76%	2.38%	1.19%
Pelmorex	30.95%	27.12%	25.24%	14.79%	9.52%	17.06%
The Weather Channel	16.67%	32.74%	21.67%	26.39%	27.42%	21.82%
Weather News					2.38%	1.19%
Weather Trends					2.02%	3.57%
Weatherbit				2.38%	1.19%	0.00%
Weerplaza				5.45%	3.57%	2.77%
Wetter					0.39%	2.77%
World Weather Online	13.10%	2.98%	1.19%	1.19%	0.00%	9.52%
yr.no					6.35%	4.76%

Table 75: Central America Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.83	4.00	4.70	10.00	7.08	2.58
AerisWeather				1.00	2.33	0.00
Dark Sky	6.50	4.00	11.00	16.33	5.25	2.00
Foreca/Vaisala	1.00	5.33	1.20	3.83	6.00	6.00
Global Weather Corp	11.83	9.00	8.00	1.33	8.58	5.58
MeteoGroup	6.00	8.00	12.70			
Microsoft						11.00
OpenWeather				4.00	3.33	3.00
Pelmorex	23.33	20.33	22.70	12.00	9.00	11.33
The Weather Channel	13.50	31.83	22.70	28.17	21.08	25.58
Weather News					4.00	1.00
Weather Trends					6.33	3.58
Weatherbit				3.00	0.00	0.00
Weerplaza				3.33	2.00	2.00
Wetter					2.00	1.33
World Weather Online	14.00	1.50	1.00	1.00	1.00	2.00
yr.no					6.00	7.00

Table 76: Central America Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.32%	4.76%	5.60%	11.90%	8.43%	3.07%
AerisWeather				1.19%	2.77%	0.00%
Dark Sky	7.74%	4.76%	13.10%	19.44%	6.25%	2.38%
Foreca/Vaisala	1.19%	6.35%	1.43%	4.56%	7.14%	7.14%
Global Weather Corp	14.08%	10.71%	9.52%	1.58%	10.21%	6.64%
MeteoGroup	7.14%	9.52%	15.12%			
Microsoft						13.10%
OpenWeather				4.76%	3.96%	3.57%
Pelmorex	27.77%	24.20%	27.02%	14.29%	10.71%	13.49%
The Weather Channel	16.07%	37.89%	27.02%	33.54%	25.10%	30.45%
Weather News					4.76%	1.19%
Weather Trends					7.54%	4.26%
Weatherbit				3.57%	0.00%	0.00%
Weerplaza				3.96%	2.38%	2.38%
Wetter					2.38%	1.58%
World Weather Online	16.67%	1.79%	1.19%	1.19%	1.19%	2.38%
yr.no					7.14%	8.33%

Table 77: Central America Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.33	8.00	11.00	8.83	2.45	1.20
AerisWeather				3.00	1.00	1.00
Dark Sky	4.00	7.00	11.00	8.00	10.33	5.00
Foreca/Vaisala	2.83	4.00	1.00	1.33	7.00	3.00
Global Weather Corp	9.50	5.00	7.00	6.33	6.17	2.53
Microsoft						5.20
OpenWeather				6.33	2.33	6.00
Pelmorex	20.33	22.00	24.00	14.50	11.45	11.00
The Weather Channel	20.00	37.00	29.00	25.67	21.67	26.83
Weather News						2.20
Weather Trends					10.37	4.53
Weatherbit				2.00	1.00	2.00
Weerplaza				6.00	2.45	4.00
Wetter					1.33	0.50
World Weather Online	15.00	1.00	1.00	2.00	1.00	8.00
yr.no					5.45	1.00

Table 78: Central America Seven-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.68%	9.52%	13.10%	10.51%	2.92%	1.43%
AerisWeather				3.57%	1.19%	1.19%
Dark Sky	4.76%	8.33%	13.10%	9.52%	12.30%	5.95%
Foreca/Vaisala	3.37%	4.76%	1.19%	1.58%	8.33%	3.57%
Global Weather Corp	11.31%	5.95%	8.33%	7.54%	7.35%	3.01%
Microsoft						6.19%
OpenWeather				7.54%	2.77%	7.14%
Pelmorex	24.20%	26.19%	28.57%	17.26%	13.63%	13.10%
The Weather Channel	23.81%	44.05%	34.52%	30.56%	25.80%	31.94%
Weather News						2.62%
Weather Trends					12.35%	5.39%
Weatherbit				2.38%	1.19%	2.38%
Weerplaza				7.14%	2.92%	4.76%
Wetter					1.58%	0.60%
World Weather Online	17.86%	1.19%	1.19%	2.38%	1.19%	9.52%
yr.no					6.49%	1.19%

Table 79: Central America Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.95	12.00	11.00	5.00	3.25	1.20
AerisWeather				4.00	2.00	0.00
Foreca/Vaisala	2.45	4.00	4.50	3.67	4.00	9.00
Global Weather Corp	12.95	7.00	5.00	7.83	6.67	5.20
Microsoft						8.70
OpenWeather				8.00	6.00	1.00
Pelmorex	23.70	24.50	25.00	17.50	7.58	10.67
The Weather Channel	22.95	34.50	37.50	29.67	28.50	28.67
Weather News						0.20
Weather Trends					6.42	5.70
Weatherbit				5.00	3.00	1.00
Weerplaza				2.33	5.58	3.00
Wetter					0.50	0.67
World Weather Online	14.00	2.00	1.00	1.00	1.00	7.00
yr.no					9.50	2.00

Table 80: Central America Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.46%	14.29%	13.10%	5.95%	3.87%	1.43%
AerisWeather				4.76%	2.38%	0.00%
Foreca/Vaisala	2.92%	4.76%	5.36%	4.37%	4.76%	10.71%
Global Weather Corp	15.42%	8.33%	5.95%	9.32%	7.94%	6.19%
Microsoft						10.36%
OpenWeather				9.52%	7.14%	1.19%
Pelmorex	28.21%	29.17%	29.76%	20.83%	9.02%	12.70%
The Weather Channel	27.32%	41.07%	44.64%	35.32%	33.93%	34.13%
Weather News						0.24%
Weather Trends					7.64%	6.79%
Weatherbit				5.95%	3.57%	1.19%
Weerplaza				2.77%	6.64%	3.57%
Wetter					0.60%	0.80%
World Weather Online	16.67%	2.38%	1.19%	1.19%	1.19%	8.33%
yr.no					11.31%	2.38%

Table 81: Central America Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.20	9.00	11.50	3.00	5.45	2.00
AerisWeather				3.67	1.00	1.00
Foreca/Vaisala	4.70	6.50	1.33	4.67	9.25	9.00
Global Weather Corp	16.70	11.00	3.00	9.00	3.95	4.00
Microsoft						5.83
OpenWeather				5.00	3.00	1.00
Pelmorex	19.70	16.00	21.33	20.00	8.00	9.50
The Weather Channel	19.70	39.50	43.83	28.00	28.45	30.50
Weather News						2.00
Weather Trends					5.70	4.33
Weatherbit				5.00	1.00	1.00
Weerplaza				3.00	5.00	4.83
Wetter					0.00	0.00
World Weather Online	14.00	2.00	3.00	2.67	2.00	3.00
yr.no					11.20	6.00

Table 82: Central America Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.95%	10.71%	13.69%	3.57%	6.49%	2.38%
AerisWeather				4.37%	1.19%	1.19%
Foreca/Vaisala	5.60%	7.74%	1.58%	5.56%	11.01%	10.71%
Global Weather Corp	19.88%	13.10%	3.57%	10.71%	4.70%	4.76%
Microsoft						6.94%
OpenWeather				5.95%	3.57%	1.19%
Pelmorex	23.45%	19.05%	25.39%	23.81%	9.52%	11.31%
The Weather Channel	23.45%	47.02%	52.18%	33.33%	33.87%	36.31%
Weather News						2.38%
Weather Trends					6.79%	5.15%
Weatherbit				5.95%	1.19%	1.19%
Weerplaza				3.57%	5.95%	5.75%
Wetter					0.00%	0.00%
World Weather Online	16.67%	2.38%	3.57%	3.18%	2.38%	3.57%
yr.no					13.33%	7.14%

Table 83: Central America Nine-Day-Out Forecast First-Place Percentages

## South America Region Skill Summary

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The Weather Channel claimed the greatest number of first-place finishes in South America for all days out in 2021 and 2022, and has claimed the greatest for all days out since 2019. The only other provider to claim the greatest since 2017 was MeteoGroup, which claimed the most in 2017 and 2018 for one through five days out. MeteoGroup did not provide forecasts after 2019. The Weather Channel continued to dominate in 2021 and 2022, earning 27–46% of possible first-place finishes in 2021 and 2022 for all days out.

For the percentage of first-place finishes relative to those possible for each provider, accounting for lower numbers of competing metrics by several providers, The Weather Channel earned the most for 2021 and 2022 in all but one and two days out in 2022, which were claimed by Global Weather Corporation. In total through all six years and all nine days out, The Weather Channel claimed the most in 40 of the 54 day out/year combinations, Global Weather Corporation the most in nine of them, and MeteoGroup the most in six.

Overall, through all nine days out and all six years in South America, The Weather Channel earned 38.67% of the total possible points (1754.10 points), World Weather Online earned 10.38%, (471.00 points) and Pelmorex earned 9.31% (422.25 points).

The Weather Channel had the most total first-place points for all nine days out. The second greatest number of first-place points belonged to MeteoGroup for one through six days out (MeteoGroup does not forecast beyond six days out) and Pelmorex for seven through nine days out. World Weather Online earned the third greatest number of first-place points for all nine days out.

Six providers competed in at least 50% of metrics for South America: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: Global Weather Corporation, Weatherbit, AerisWeather, Weerplaza, and OpenWeather.

Table 85 through Table 102 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for South America.

### Individual Metrics

Table 84 shows the forecast providers with the highest average first-place points for each metric group by year in South America.

South America	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	Global Weather Corp.	Meteo-Group	The Weather Channel	The Weather Channel	The Weather Channel	Global Weather Corp.	<b>Meteo-Group</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Opacity</b>	World Weather Online	Meteo-Group	Meteo-Group	Weer-plaza	World Weather Online	World Weather Online	<b>World Weather Online</b>
<b>Precipitation</b>	Meteo-Group	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>Meteo-Group</b>
<b>POP</b>	Meteo-Group	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 84: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, South America

## High Temperature

The Weather Channel continued to have the most first-place finishes in the long range (five-plus days out) for high temperatures in South America, claiming the most in both 2021 and 2022 for five through nine days out. Global Weather Corporation, in addition to tying The Weather Channel for the most in 2021 for five days out, also claimed the greatest number of first-place points in both 2021 and 2022 for three and four days out, as well as the most in 2022 for one and two days out. Weather Trends claimed the most in 2021 for one and two days out and tied for the best three days out in 2021.

Overall for all six years since 2017, The Weather Channel had the most first-place finishes with 283.59 total points (29.18% of the total), while Global Weather Corporation had the second most with 233.73 (24.05%). Pelmorex had the third most with 148.35 total points (15.26%).



Global Weather Corporation finished in the top three for points every day out, with the most for one through four days out and the second most for five through eight days out. The Weather Channel had the most for five through nine days out, the second most for three and four days out, and the third most for two days out. MeteoGroup had the second most for one and two days out and the third most for three, four, and six days out, while Pelmorex had the second most for nine days out and the third most for five through eight days out. The only other provider to finish in the top three on any day out was AccuWeather, which garnered the third most points for one day out.

## Low Temperature

The Weather Channel did significantly better in low temperatures in South America than in high temperatures, earning the most first-place points in every day out/year combination in 2021 and 2022 except nine days out in 2021, when they finished just slightly behind Foreca/Vaisala. The only other day out/year combinations not earned by The Weather Channel were for two through four days out in 2017 and 2018, and five days out in 2017, all of which saw Global Weather Corporation with the most first-place points.

For all six years, The Weather Channel earned a total of 484.98 first-place points, which was 49.90% of the total possible. Pelmorex was second with 160.90 points (16.55%) and Global Weather Corporation was third with 128.06 points (13.17%).

The Weather Channel earned the most first-place points for every day out. The second highest number went to Pelmorex for one, and six through nine days out and to Global Weather Corporation for two through five days out. Pelmorex also earned the third most points for two through five days out, while Global Weather Corporation earned the third best for one and eight days out. Otherwise, AccuWeather saw the third most for six and seven days out and Foreca/Vaisala the third most for nine days out.

## Opacity

World Weather Online continued to have the greatest number of first-place finishes for opacity in South America, as noted in the previous report for 2017–2020. For 2021 and 2022, they had the greatest number for one through seven days out for both years, as well as in 2022 for both eight and nine days out. Wetter had the most for 2021 for eight and nine days out, and tied World Weather Online for the most for seven days out in 2021.

Overall, this domination by World Weather Online for South American opacity forecasts increased from 49% of all possible first-place finishes noted in the previous report (for 2017–2020) to 53.57% for the 2017–2022 period with 405 total first-place points. The second greatest number of first-place points was earned by MeteoGroup, which only received 94 points (12.43% of the total), so less than a

quarter of the first-place points earned by World Weather Online. The Weather Channel earned 87 points (11.51%), and no other provider earned more than 39 points.

World Weather Online also had the most first-place points for all nine days out—with about three times as many for one through six days out than the next closest competitor, MeteoGroup. With MeteoGroup not forecasting beyond six days out, The Weather Channel had the second greatest number of first-place points for seven through nine days out; and for eight and nine days out, The Weather Channel earned more than half the points of World Weather Online. Otherwise, The Weather Channel did not finish in the top three for one through six days out. The third greatest number of points was earned by Weerplaza for one through four, and six days out, Dark Sky for five, six (tie), and seven days out, Wetter for eight days out, and Pelmorex for nine days out.

## Precipitation

The Weather Channel recorded the greatest number of first-place points for every day out/year combination in 2021 and 2022 except one: Weather Trends earned the most for eight days out in 2022. The Weather Channel thus finished with the most in 44 of the 54 day out/year combinations from 2017–2022; MeteoGroup finished with the most in ten combinations, World Weather Online finished with the most in three, and Dark Sky and Weather Trends in one each. There were five ties.

For the entire 2017–2022 period, The Weather Channel earned 110 total first-place points—40.74% of the total possible. MeteoGroup was second with 38 points (14.07%) and World Weather Online was third with 31 points (11.48%). Due to their more limited days out and years forecasted, MeteoGroup averaged the most per day out/year combination in which they competed.

The Weather Channel recorded the greatest number of first-place finishes for all nine days out. MeteoGroup finished with the second most for one through six days out (tying World Weather Online two days out) and Foreca/Vaisala had the second best for seven through nine days out (tying Dark Sky and World Weather Online for seven days out and World Weather Online for eight days out). The third highest belonged to World Weather Online for one, three through six, and nine days out. Dark Sky, Foreca/Vaisala, and Wetter also tied for the third best six days out, and Weerplaza and Wetter also tied for the third most nine days out.

## Probability of Precipitation

As with the previous report, AccuWeather had all its precipitation-related points in the POP subcategory while they had none in the 24-hour precipitation subcategory. AccuWeather gained 104 points for POP total for 2017–2022, putting it in second place behind The Weather Channel, which earned 254 total points (36.18% of the total). Pelmorex was third with 89 points.

The Weather Channel claimed the most first-place points in all but one of the 18 day out/year combinations in 2021 and 2022, when Pelmorex claimed the most for six days out in 2021; however, other providers did tie The Weather Channel during these two years: Pelmorex for nine days out in 2021 and Dark Sky for two days out in 2021.

The Weather Channel again had the greatest number of first-place points for all nine days out. The second greatest number belonged to MeteoGroup and AccuWeather one day out, AccuWeather two, five, and seven days out, Dark Sky three and four days out, and Pelmorex six, eight, and nine days out. The third greatest belonged to Dark Sky two and five days out, MeteoGroup three and six days out, AccuWeather three, four, eight, and nine days out, and Pelmorex seven days out.

## **Winds**

As was the story in essentially every region and in the previous report, The Weather Channel enjoyed its greatest share of first-place points in the wind category. In the previous report, The Weather Channel was stated to have received over 57% of the first-place finishes in the wind category for South America—after 2021 and 2022, that number increased to 61.86% (534.50 points).

AccuWeather was second with 119 total points (13.77%), and MeteoGroup was third with 84 points (9.72%). No other provider earned more than 3.8% of the maximum possible wind points. For seven through nine days out, its best three days, The Weather Channel increased its rate of first-place points from 70% to 72% (206 of 288 for those three days out).

The Weather Channel recorded the most first-place points in 49 of the 54 total day out/year combinations from 2017–2022, including all of them in 2021 and 2022. The sole exceptions were MeteoGroup for one day out in 2017, three days out in 2017, five days out in 2017 and 2018, and six days out in 2018. MeteoGroup also tied The Weather Channel for the most in 2017 for four and six days out.

It follows that The Weather Channel also recorded the most first-place points for every day out, earning 2.7 or more times the first-place points of the closest competitor for all of them. For nine days out, its 69 total points earned was nearly five times as many as the closest competitor (AccuWeather with 14). The providers with the second greatest number of points earned were AccuWeather for one, two, and seven through nine days out and MeteoGroup for three through six days out. The third greatest points earned belonged to MeteoGroup for one and two days out, AccuWeather for three through six days out, Foreca/Vaisala for seven and eight days out, and World Weather Online for eight (tie) and nine days out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.75	13.83	11.50	7.50	6.00	3.58
AerisWeather				0.00	0.00	1.00
Dark Sky	4.50	1.50	3.00	8.33	3.00	1.00
Foreca/Vaisala	0.00	0.50	0.50	2.00	7.00	3.83
Global Weather Corp	8.25	8.00	5.00	4.67	5.50	12.58
MeteoGroup	19.08	23.83	18.50			
Microsoft						8.00
OpenWeather				0.00	1.00	0.00
Pelmorex	11.83	6.00	4.50	7.00	6.00	6.58
The Weather Channel	16.58	22.33	33.00	39.50	29.50	23.08
Weather News					0.00	0.00
Weather Trends					8.00	0.83
Weatherbit				3.00	1.00	1.50
Weerplaza				7.00	0.00	2.00
Wetter					6.00	3.00
WetterOnline					3.00	2.00
World Weather Online	15.00	8.00	8.00	5.00	8.00	15.00
yr.no					0.00	0.00

Table 85: South America One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.42%	16.46%	13.69%	8.93%	7.14%	4.26%
AerisWeather				0.00%	0.00%	1.19%
Dark Sky	5.36%	1.79%	3.57%	9.92%	3.57%	1.19%
Foreca/Vaisala	0.00%	0.60%	0.60%	2.38%	8.33%	4.56%
Global Weather Corp	9.82%	9.52%	5.95%	5.56%	6.55%	14.98%
MeteoGroup	22.71%	28.37%	22.02%			
Microsoft						9.52%
OpenWeather				0.00%	1.19%	0.00%
Pelmorex	14.08%	7.14%	5.36%	8.33%	7.14%	7.83%
The Weather Channel	19.74%	26.58%	39.29%	47.02%	35.12%	27.48%
Weather News					0.00%	0.00%
Weather Trends					9.52%	0.99%
Weatherbit				3.57%	1.19%	1.79%
Weerplaza				8.33%	0.00%	2.38%
Wetter					7.14%	3.57%
WetterOnline					3.57%	2.38%
World Weather Online	17.86%	9.52%	9.52%	5.95%	9.52%	17.86%
yr.no					0.00%	0.00%

Table 86: South America One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	15.83	11.33	9.00	9.00	6.00	1.33
AerisWeather				1.00	0.00	0.00
Dark Sky	4.00	1.00	4.00	6.00	6.00	3.00
Foreca/Vaisala	1.00	1.00	1.00	2.00	4.00	3.00
Global Weather Corp	12.83	13.08	3.00	5.00	7.00	12.00
MeteoGroup	18.33	23.42	20.00			
Microsoft						9.00
OpenWeather				0.00	0.00	1.00
Pelmorex	6.33	5.75	4.50	5.00	5.00	6.00
The Weather Channel	10.67	21.42	34.50	40.50	25.50	24.00
Weather News					1.33	1.00
Weather Trends					9.00	1.33
Weatherbit				2.50	1.00	2.00
Weerplaza				8.00	2.00	2.00
Wetter					5.50	2.00
WetterOnline					4.33	1.00
World Weather Online	15.00	7.00	8.00	5.00	7.00	15.00
yr.no					0.33	0.33

Table 87: South America Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	18.85%	13.49%	10.71%	10.71%	7.14%	1.58%
AerisWeather				1.19%	0.00%	0.00%
Dark Sky	4.76%	1.19%	4.76%	7.14%	7.14%	3.57%
Foreca/Vaisala	1.19%	1.19%	1.19%	2.38%	4.76%	3.57%
Global Weather Corp	15.27%	15.57%	3.57%	5.95%	8.33%	14.29%
MeteoGroup	21.82%	27.88%	23.81%			
Microsoft						10.71%
OpenWeather				0.00%	0.00%	1.19%
Pelmorex	7.54%	6.85%	5.36%	5.95%	5.95%	7.14%
The Weather Channel	12.70%	25.50%	41.07%	48.21%	30.36%	28.57%
Weather News					1.58%	1.19%
Weather Trends					10.71%	1.58%
Weatherbit				2.98%	1.19%	2.38%
Weerplaza				9.52%	2.38%	2.38%
Wetter					6.55%	2.38%
WetterOnline					5.15%	1.19%
World Weather Online	17.86%	8.33%	9.52%	5.95%	8.33%	17.86%
yr.no					0.39%	0.39%

Table 88: South America Two-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	11.75	6.50	9.58	6.53	3.00
AerisWeather				2.00	0.00	1.00
Dark Sky	5.00	3.00	7.17	7.00	3.00	2.00
Foreca/Vaisala	2.00	0.00	2.17	3.00	4.20	2.00
Global Weather Corp	16.33	14.25	2.00	2.08	6.53	11.67
MeteoGroup	17.67	29.58	22.50			
Microsoft						5.00
OpenWeather				1.00	2.00	0.00
Pelmorex	8.33	4.33	3.17	7.58	5.00	5.83
The Weather Channel	9.67	15.08	33.50	35.75	29.20	30.17
Weather News					1.00	1.00
Weather Trends					7.53	1.83
Weatherbit				2.00	3.00	0.00
Weerplaza				9.00	1.00	1.00
Wetter					5.00	1.00
WetterOnline					3.00	1.00
World Weather Online	16.00	6.00	7.00	5.00	6.00	16.00
yr.no					1.00	1.50

Table 89: South America Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	13.99%	7.74%	11.40%	7.77%	3.57%
AerisWeather				2.38%	0.00%	1.19%
Dark Sky	5.95%	3.57%	8.54%	8.33%	3.57%	2.38%
Foreca/Vaisala	2.38%	0.00%	2.58%	3.57%	5.00%	2.38%
Global Weather Corp	19.44%	16.96%	2.38%	2.48%	7.77%	13.89%
MeteoGroup	21.04%	35.21%	26.79%			
Microsoft						5.95%
OpenWeather				1.19%	2.38%	0.00%
Pelmorex	9.92%	5.15%	3.77%	9.02%	5.95%	6.94%
The Weather Channel	11.51%	17.95%	39.88%	42.56%	34.76%	35.92%
Weather News					1.19%	1.19%
Weather Trends					8.96%	2.18%
Weatherbit				2.38%	3.57%	0.00%
Weerplaza				10.71%	1.19%	1.19%
Wetter					5.95%	1.19%
WetterOnline					3.57%	1.19%
World Weather Online	19.05%	7.14%	8.33%	5.95%	7.14%	19.05%
yr.no					1.19%	1.79%

Table 90: South America Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.00	10.33	7.00	8.50	6.33	2.70
AerisWeather				2.00	0.00	0.00
Dark Sky	6.00	3.00	5.00	8.00	2.00	1.00
Foreca/Vaisala	2.00	0.00	1.00	3.50	3.33	2.00
Global Weather Corp	17.00	14.50	1.50	2.00	10.00	11.03
MeteoGroup	18.00	24.83	25.00			
Microsoft						5.20
OpenWeather				0.00	1.00	1.00
Pelmorex	8.00	4.00	6.00	6.00	8.33	6.53
The Weather Channel	8.00	19.33	29.50	39.50	29.33	29.33
Weather News					0.00	1.00
Weather Trends					6.00	4.00
Weatherbit				1.50	0.00	1.00
Weerplaza				8.00	1.33	2.00
Wetter					5.33	2.00
World Weather Online	15.00	8.00	9.00	5.00	6.00	15.00
yr.no					5.00	0.20

Table 91: South America Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.90%	12.30%	8.33%	10.12%	7.54%	3.21%
AerisWeather				2.38%	0.00%	0.00%
Dark Sky	7.14%	3.57%	5.95%	9.52%	2.38%	1.19%
Foreca/Vaisala	2.38%	0.00%	1.19%	4.17%	3.96%	2.38%
Global Weather Corp	20.24%	17.26%	1.79%	2.38%	11.90%	13.13%
MeteoGroup	21.43%	29.56%	29.76%			
Microsoft						6.19%
OpenWeather				0.00%	1.19%	1.19%
Pelmorex	9.52%	4.76%	7.14%	7.14%	9.92%	7.77%
The Weather Channel	9.52%	23.01%	35.12%	47.02%	34.92%	34.92%
Weather News					0.00%	1.19%
Weather Trends					7.14%	4.76%
Weatherbit				1.79%	0.00%	1.19%
Weerplaza				9.52%	1.58%	2.38%
Wetter					6.35%	2.38%
World Weather Online	17.86%	9.52%	10.71%	5.95%	7.14%	17.86%
yr.no					5.95%	0.24%

Table 92: South America Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.33	5.00	9.33	14.83	4.00	2.92
AerisWeather				2.50	0.00	0.00
Dark Sky	6.50	2.00	2.00	11.00	3.00	1.00
Foreca/Vaisala	2.00	1.50	0.00	1.50	3.00	3.25
Global Weather Corp	16.00	11.33	4.33	0.33	5.83	5.25
MeteoGroup	16.33	25.33	14.33			
Microsoft						6.00
OpenWeather				1.00	4.00	1.00
Pelmorex	12.00	9.00	7.33	5.83	9.00	4.50
The Weather Channel	9.83	23.83	38.67	35.67	35.83	37.17
Weather News					0.00	1.58
Weather Trends					1.33	2.33
Weatherbit				2.00	3.00	1.00
Weerplaza				4.33	0.00	3.00
Wetter					5.00	1.00
World Weather Online	15.00	6.00	8.00	5.00	6.00	13.00
yr.no					4.00	1.00

Table 93: South America Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.54%	5.95%	11.11%	17.65%	4.76%	3.48%
AerisWeather				2.98%	0.00%	0.00%
Dark Sky	7.74%	2.38%	2.38%	13.10%	3.57%	1.19%
Foreca/Vaisala	2.38%	1.79%	0.00%	1.79%	3.57%	3.87%
Global Weather Corp	19.05%	13.49%	5.15%	0.39%	6.94%	6.25%
MeteoGroup	19.44%	30.15%	17.06%			
Microsoft						7.14%
OpenWeather				1.19%	4.76%	1.19%
Pelmorex	14.29%	10.71%	8.73%	6.94%	10.71%	5.36%
The Weather Channel	11.70%	28.37%	46.04%	42.46%	42.65%	44.25%
Weather News					0.00%	1.88%
Weather Trends					1.58%	2.77%
Weatherbit				2.38%	3.57%	1.19%
Weerplaza				5.15%	0.00%	3.57%
Wetter					5.95%	1.19%
World Weather Online	17.86%	7.14%	9.52%	5.95%	7.14%	15.48%
yr.no					4.76%	1.19%

Table 94: South America Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.00	9.50	6.58	3.50	8.08	3.50
AerisWeather				2.00	2.00	1.00
Dark Sky	5.00	1.00	4.92	8.00	2.00	1.50
Foreca/Vaisala	2.00	0.00	1.25	2.00	1.25	1.00
Global Weather Corp	12.00	0.50	5.58	0.50	3.08	6.50
MeteoGroup	16.00	28.00	17.75			
Microsoft						7.00
OpenWeather				0.00	2.00	1.00
Pelmorex	6.00	7.00	7.50	6.00	9.00	7.00
The Weather Channel	22.00	33.00	33.42	45.00	32.00	36.50
Weather News					0.00	1.00
Weather Trends					2.58	3.00
Weatherbit				4.00	3.00	1.00
Weerplaza				8.00	2.00	2.00
Wetter					4.00	1.00
World Weather Online	14.00	5.00	7.00	5.00	6.00	11.00
yr.no					7.00	0.00

Table 95: South America Six-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	8.33%	11.31%	7.83%	4.17%	9.62%	4.17%
AerisWeather				2.38%	2.38%	1.19%
Dark Sky	5.95%	1.19%	5.86%	9.52%	2.38%	1.79%
Foreca/Vaisala	2.38%	0.00%	1.49%	2.38%	1.49%	1.19%
Global Weather Corp	14.29%	0.60%	6.64%	0.60%	3.67%	7.74%
MeteoGroup	19.05%	33.33%	21.13%			
Microsoft						8.33%
OpenWeather				0.00%	2.38%	1.19%
Pelmorex	7.14%	8.33%	8.93%	7.14%	10.71%	8.33%
The Weather Channel	26.19%	39.29%	39.79%	53.57%	38.10%	43.45%
Weather News					0.00%	1.19%
Weather Trends					3.07%	3.57%
Weatherbit				4.76%	3.57%	1.19%
Weerplaza				9.52%	2.38%	2.38%
Wetter					4.76%	1.19%
World Weather Online	16.67%	5.95%	8.33%	5.95%	7.14%	13.10%
yr.no					8.33%	0.00%

Table 96: South America Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.50	10.00	8.83	5.25	4.92	1.00
AerisWeather				2.00	1.00	1.00
Dark Sky	2.00	3.00	6.50	4.00	3.00	0.00
Foreca/Vaisala	3.50	4.00	2.00	3.00	2.00	2.00
Global Weather Corp	6.00	5.00	6.83	1.75	4.92	5.00
Microsoft						2.00
OpenWeather				3.00	1.00	1.00
Pelmorex	13.00	8.00	9.00	4.50	10.25	8.83
The Weather Channel	36.00	49.00	43.83	45.25	36.00	34.83
Weather News						3.00
Weather Trends					4.92	4.33
Weatherbit				4.25	1.00	1.00
Weerplaza				7.00	2.00	4.00
Wetter					5.00	3.00
World Weather Online	17.00	5.00	7.00	4.00	4.00	13.00
yr.no					4.00	0.00

Table 97: South America Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.74%	11.90%	10.51%	6.25%	5.86%	1.19%
AerisWeather				2.38%	1.19%	1.19%
Dark Sky	2.38%	3.57%	7.74%	4.76%	3.57%	0.00%
Foreca/Vaisala	4.17%	4.76%	2.38%	3.57%	2.38%	2.38%
Global Weather Corp	7.14%	5.95%	8.13%	2.08%	5.86%	5.95%
Microsoft						2.38%
OpenWeather				3.57%	1.19%	1.19%
Pelmorex	15.48%	9.52%	10.71%	5.36%	12.20%	10.51%
The Weather Channel	42.86%	58.33%	52.18%	53.87%	42.86%	41.46%
Weather News						3.57%
Weather Trends					5.86%	5.15%
Weatherbit				5.06%	1.19%	1.19%
Weerplaza				8.33%	2.38%	4.76%
Wetter					5.95%	3.57%
World Weather Online	20.24%	5.95%	8.33%	4.76%	4.76%	15.48%
yr.no					4.76%	0.00%

Table 98: South America Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	10.00	13.50	10.50	3.75	2.00
AerisWeather				1.00	0.00	0.00
Foreca/Vaisala	5.00	3.00	2.00	1.00	2.25	1.50
Global Weather Corp	9.67	6.00	6.00	5.50	1.25	3.83
Microsoft						3.50
OpenWeather				2.00	3.00	1.00
Pelmorex	12.67	11.00	7.50	7.00	12.00	10.00
The Weather Channel	34.67	54.00	49.00	40.00	38.25	33.83
Weather News						2.00
Weather Trends					6.50	7.33
Weatherbit				3.00	1.00	1.00
Weerplaza				8.00	3.00	5.00
Wetter					6.00	1.00
World Weather Online	17.00	0.00	6.00	6.00	4.00	12.00
yr.no					3.00	0.00

Table 99: South America Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	11.90%	16.07%	12.50%	4.46%	2.38%
AerisWeather				1.19%	0.00%	0.00%
Foreca/Vaisala	5.95%	3.57%	2.38%	1.19%	2.68%	1.79%
Global Weather Corp	11.51%	7.14%	7.14%	6.55%	1.49%	4.56%
Microsoft						4.17%
OpenWeather				2.38%	3.57%	1.19%
Pelmorex	15.08%	13.10%	8.93%	8.33%	14.29%	11.90%
The Weather Channel	41.27%	64.29%	58.33%	47.62%	45.54%	40.27%
Weather News						2.38%
Weather Trends					7.74%	8.73%
Weatherbit				3.57%	1.19%	1.19%
Weerplaza				9.52%	3.57%	5.95%
Wetter					7.14%	1.19%
World Weather Online	20.24%	0.00%	7.14%	7.14%	4.76%	14.29%
yr.no					3.57%	0.00%

Table 100: South America Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	9.00	9.17	12.00	3.00	1.83
AerisWeather				2.00	1.00	1.00
Foreca/Vaisala	3.00	3.00	7.00	2.00	8.83	2.00
Global Weather Corp	6.00	3.50	5.67	3.50	1.00	4.33
Microsoft						4.00
OpenWeather				2.00	3.00	0.00
Pelmorex	16.00	12.00	9.67	9.50	15.08	8.50
The Weather Channel	37.00	50.50	52.50	40.00	30.25	37.33
Weather News						1.00
Weather Trends					5.00	5.00
Weatherbit				3.00	0.33	1.00
Weerplaza				5.00	4.25	2.00
Wetter					6.00	2.00
World Weather Online	17.00	6.00	0.00	5.00	4.00	13.00
yr.no					2.25	1.00

Table 101: South America Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	10.71%	10.92%	14.29%	3.57%	2.18%
AerisWeather				2.38%	1.19%	1.19%
Foreca/Vaisala	3.57%	3.57%	8.33%	2.38%	10.51%	2.38%
Global Weather Corp	7.14%	4.17%	6.75%	4.17%	1.19%	5.15%
Microsoft						4.76%
OpenWeather				2.38%	3.57%	0.00%
Pelmorex	19.05%	14.29%	11.51%	11.31%	17.95%	10.12%
The Weather Channel	44.05%	60.12%	62.50%	47.62%	36.01%	44.44%
Weather News						1.19%
Weather Trends					5.95%	5.95%
Weatherbit				3.57%	0.39%	1.19%
Weerplaza				5.95%	5.06%	2.38%
Wetter					7.14%	2.38%
World Weather Online	20.24%	7.14%	0.00%	5.95%	4.76%	15.48%
yr.no					2.68%	1.19%

Table 102: South America Nine-Day-Out Forecast First-Place Percentages



## Europe Region Skill Summary

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In Europe, a more evenly distributed slate of providers earning the most first-place points in 2017–2019 was replaced by near-dominance by The Weather Channel with the greatest number of first-place points every year and every day out from 2020–2022 with the exception of one day out in 2022, when Microsoft earned slightly more. From 2017–2019, Global Weather Corporation had the greatest number of first-place finishes in 13 of the 27 combinations of day out/year, while The Weather Channel had nine (six of those in 2019), MeteoGroup had five, and AccuWeather and Pelmorex each had one. Two of those were ties (Pelmorex and The Weather Channel tied for eight days out in 2018 and Global Weather Corporation and The Weather Channel tied for nine days out in 2019). From 2020–2022, The Weather Channel had the greatest in 26 of the 27 day out/year combinations. This shows that The Weather Channel greatly improved from 2017–2022—and in fact in 2017 and 2018, they were generally claiming 10–20% of first-place points, but by 2022, this share increased to around 40% in the long range (five-plus days out). For one through four days out, they generally peaked in 2021 due to Microsoft’s entrance in 2022 and competitive performance in the short range. Global Weather Corporation’s share decreased from around 20–30% in 2017 to 2–10% in 2022.

Due in part to the limited number of metrics forecast by Global Weather Corporation, it had the most combinations of day out/year (31 of the 54) where it finished with the greatest percentage of its individual possible first-place points. These were almost solely in the years 2017–2020. The Weather Channel had the most in 20 such combinations, including 16 of the 18 in the most recent two years (2021–2022). MeteoGroup had two, and Microsoft had one. Note that the BBC, which was found in the previous report, was removed for this report, as it was determined that they did not forecast for all locations ForecastWatch monitors in Europe.

For all six years (2017–2022), The Weather Channel earned a total of 1202.18 points (26.50% of the maximum possible). Global Weather Corporation (which forecasts fewer than half the metrics) was second with 728.51 points (16.06%), and Foreca/Vaisala was third with 561.27 points (12.37%).

The Weather Channel had the greatest number of first-place points for all nine days out, while Global Weather Corporation had the second greatest number for all nine days out. The third greatest number was split between MeteoGroup (one day out), Foreca/Vaisala (two, three, and five through eight days out), AccuWeather (four days out), and Pelmorex (nine days out).

Six providers competed in at least 50% of metrics for Europe: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or

more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: AerisWeather, Global Weather Corporation, Weatherbit, Weerplaza, and OpenWeather.

Table 104 through Table 121 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for Europe.

## Individual Metrics

Table 103 shows the forecast providers with the highest average first-place points for each metric group by year in Europe.

Europe	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	Global Weather Corp.	Meteo-Group	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	Global Weather Corp.	Global Weather Corp.	Global Weather Corp.	Global Weather Corp.	The Weather Channel	The Weather Channel	<b>Global Weather Corp.</b>
<b>Low Temperature</b>	Global Weather Corp.	Global Weather Corp.	Global Weather Corp.	Global Weather Corp.	Global Weather Corp.	The Weather Channel	<b>Global Weather Corp.</b>
<b>Opacity</b>	Pelmorex	Pelmorex	Meteo-Group	The Weather Channel	Wetter-Online	World Weather Online	<b>Wetter-Online</b>
<b>Precipitation</b>	Global Weather Corp.	World Weather Online	The Weather Channel	The Weather Channel	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>POP</b>	Pelmorex	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 103: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Europe

## High Temperature

European high temperatures, dominated by Global Weather Corporation for 2017–2020, saw a change in 2021. Global Weather Corporation still had the most first-place finishes for one day out in 2021, but that was the only day out/year combination they won in those most recent two years. Newcomer Microsoft had the most first-place points in 2022 for one through four days out, but otherwise The Weather Channel dominated high temperature forecasts the last two years, earning the most first-place points in the other 13 day out/year combinations. This gave The Weather Channel 130 total first-place points the last two years in comparison to Global Weather Corporation's 50 points.

Through the six years combined, however, Global Weather Corporation still had the most first-place points with 321.40 (33.07%), with The Weather Channel now second with 208.41 points (21.44%) and AccuWeather third with 139.42 points (14.34%). For the four years of 2017–2020 in the previous report, Global Weather Corporation had 42%, AccuWeather had 19%, and The Weather Channel had 12%, so this represents a large upward jump for The Weather Channel and downward for Global Weather Corporation in high temperature forecasting since 2020.

Global Weather Corporation had the greatest number of first-place points for one, two, four, and six through nine days out, while AccuWeather had the most for three and five days out. The second highest points belonged to Meteogroup for one day out, Global Weather Corporation for three days out, AccuWeather for four days out, and The Weather Channel for two, five, and six through nine days out. The third greatest number of points was earned by AccuWeather for one and two days out, The Weather Channel for three and four days out, Global Weather Corporation for five days out, Meteogroup for six days out, and Pelmorex for seven through nine days out.

## Low Temperature

While Global Weather Corporation also dominated low temperatures in 2017–2020, they were generally able to perform better in 2021 and 2022 than they did for high temperatures. The Weather Channel did earn the most first-place temperatures for European low temperatures for one, two and four days out in both 2021 and 2022, as well as four other day out/year combinations five-plus days out, but Global Weather Corporation managed to finish with the most in nine of the 18 combinations itself. Pelmorex and Weather Trends also finished with the most in one combination each (there were a couple ties including a three-way tie).

With The Weather Channel already performing better for low temperatures in the previous report than high temperatures, they maintained the second overall number of points. Global Weather

Corporation had 383.10 total (39.41%) and The Weather Channel had 240.77 points (24.77%). Pelmorex was third with 99.66 points (10.25%).

Global Weather Corporation claimed the greatest share of first-place points for every day out except two days out, when The Weather Channel claimed the greatest and Global Weather Corporation was second. The Weather Channel also claimed the second most for every other forecast day out except nine days out, when they claimed the third most behind Pelmorex. The third greatest on every other day out went to MeteoGroup for one through five days out and Pelmorex for six through eight days out.

## Opacity

Although WetterOnline had the highest average number of first-place points for opacity in Europe, its limited forecasts (three days out for only two years) meant that it only received 22 total points—only good enough for ninth overall for the total number of first-place points. Instead, Pelmorex had 161 total points (21.30%) for the six years to finish with the most. The Weather Channel was second with 112 points (14.81%) and World Weather Online was third with 101 points (13.36%). As in most regions, opacity was the metric group with the most equally distributed first-place points.

For 2021 and 2022 alone, of the 18 day out/year combinations, World Weather Online received the most first-place points in 11 of them, WetterOnline received the most in three, The Weather Channel received the most in two, and Dark Sky, yr.no and Wetter each received the most in one (with one tie).

The Weather Channel had the most first-place points for one and two days out, while Pelmorex had the most for all other days out (three through nine). The second greatest number of first-place points went to MeteoGroup for one, two, and four days out, The Weather Channel for three, four (tie), and five days out, World Weather Online for six and nine days out, Foreca/Vaisala for seven days out, and AccuWeather for eight days out.

## Precipitation

In the previous report, World Weather Online led precipitation forecasts for the 2017–2020 period, while Foreca/Vaisala had a vast majority of their precipitation-related first-place points in Europe in the POP category. That changed, however, in 2021 and 2022, when Foreca/Vaisala nearly swept precipitation first-place finishes, earning the greatest number of first-place finishes in both years for one through eight days out. The Weather Channel finished with the most for both years and nine days out.

This allowed Foreca/Vaisala to claim the greatest number of first-place finishes for the total 2017–2022 period with 71 (26.30% of the total). The Weather Channel was second with 47 points

(17.41%) and World Weather Online fell to third with 46 points (17.04%) after earning only one first-place finish during those most recent two years combined (one day out in 2022).

Foreca/Vaisala therefore also claimed the greatest number of first-place finishes for European precipitation for one through four, and six through eight days out, with the second greatest for five and nine days out. Global Weather Corporation tied Foreca/Vaisala for the highest for two days out, World Weather Online had the greatest for five days out, and The Weather Channel had the highest for nine days out. The second greatest belonged to World Weather Online for one, three, four, and six days out, The Weather Channel for five (tie), six (tie), seven, and eight days out, and as mentioned, Foreca/Vaisala for nine days out. The third highest belonged to Global Weather Corporation for one day out, World Weather Online for two, seven, and eight days out, Dark Sky and Global Weather Corporation for three days out, and The Weather Channel for four days out. For nine days out, there was a six-way tie for the third highest first-place finishes (AccuWeather, Global Weather Corporation, OpenWeather, Weerplaza, Wetter, and World Weather Online).

## Probability of Precipitation

Pelmorex was another provider in the previous report that had a vast majority of their precipitation-related first-place finishes in the POP category for Europe, and that did not change in 2021 and 2022. Foreca/Vaisala, however, continued their POP dominance, earning the most first-place points for 2021 and 2022 for every single day out (although Weerplaza tied them for nine days out in 2021). This brought the total number of first-place finishes by Foreca/Vaisala to 330 (47.01% of the maximum). Pelmorex was second with 109 points (15.53%), and World Weather Online was third with 68 points (9.69%).

Unsurprisingly then, Foreca/Vaisala had the greatest number of first-place finishes for all nine days out. Pelmorex had the second greatest number for all nine days out, although World Weather Online tied them for the second greatest for three days out and MeteoGroup and World Weather Online also tied them for the second highest for six days out. The third greatest number of first-place finishes went to World Weather Online for one, two, four, and five days out, Dark Sky and The Weather Channel for seven days out, and AccuWeather for eight and nine days out.

## Winds

In perhaps their most dominant showing in any region and metric combination, The Weather Channel accounted for 64% of all first-place finishes for European winds (553 points) for 2017–2022. This is up from 54% from the previous report as The Weather Channel earned 62.5% to 81.3% of possible first-place points in every single day out/year combination in 2021 and 2022. Thus, MeteoGroup's claim of the greatest number for five days out in 2018 and six days out in 2017 and 2018 remain the



only exceptions to The Weather Channel earning the most in all day out/year combination in the six years combined.

After The Weather Channel's 553 points, the second most points earned was only 78 for MeteoGroup (9.03% of the total), while the third most was 60 points (6.94%) by AccuWeather.

The Weather Channel finished with the greatest number of first-place points for all nine days out in extremely easy fashion. The closest any competitor came was six days out, when The Weather Channel earned 52 total points and MeteoGroup earned 21 total points. For every other day out, The Weather Channel earned more than 4.5 times the number of first-place finishes as the next closest competitor. For eight days out, The Weather Channel earned 71 first-place points, while Pelmorex—in second—earned only six. For eight and nine days out combined, The Weather Channel earned 75% of the total possible first-place finishes.

The providers with the second most first-place finishes were MeteoGroup for one through six days out, AccuWeather for one (tie) and seven days out, Pelmorex for eight days out, and World Weather Online for nine days out. Those with the third most were AccuWeather for two through four, eight, and nine days out, World Weather Online for four (tie), five, six, and eight (tie) days out, and Pelmorex for seven days out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	11.33	11.00	8.33	0.00	3.00
AerisWeather				1.00	0.00	0.00
Dark Sky	2.00	2.00	5.00	8.00	1.00	2.00
Foreca/Vaisala	2.00	6.50	5.00	7.50	12.00	16.25
Global Weather Corp	21.00	13.50	11.00	17.33	14.67	2.08
MeteoGroup	15.50	25.33	23.00			
Microsoft						20.50
OpenWeather				1.00	1.00	1.00
Pelmorex	14.00	7.33	5.00	8.33	5.33	4.00
The Weather Channel	18.50	14.00	16.00	22.50	27.33	18.58
Weather News					0.00	1.00
Weather Trends					4.67	1.58
Weatherbit				3.00	2.00	2.00
Weerplaza				1.00	1.00	2.00
Wetter					5.00	3.00
WetterOnline					6.00	1.00
World Weather Online	2.00	4.00	8.00	6.00	3.00	6.00
yr.no					1.00	0.00

Table 104: Europe One-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	13.49%	13.10%	9.92%	0.00%	3.57%
AerisWeather				1.19%	0.00%	0.00%
Dark Sky	2.38%	2.38%	5.95%	9.52%	1.19%	2.38%
Foreca/Vaisala	2.38%	7.74%	5.95%	8.93%	14.29%	19.35%
Global Weather Corp	25.00%	16.07%	13.10%	20.63%	17.46%	2.48%
MeteoGroup	18.45%	30.15%	27.38%			
Microsoft						24.40%
OpenWeather				1.19%	1.19%	1.19%
Pelmorex	16.67%	8.73%	5.95%	9.92%	6.35%	4.76%
The Weather Channel	22.02%	16.67%	19.05%	26.79%	32.54%	22.12%
Weather News					0.00%	1.19%
Weather Trends					5.56%	1.88%
Weatherbit				3.57%	2.38%	2.38%
Weerplaza				1.19%	1.19%	2.38%
Wetter					5.95%	3.57%
WetterOnline					7.14%	1.19%
World Weather Online	2.38%	4.76%	9.52%	7.14%	3.57%	7.14%
yr.no					1.19%	0.00%

Table 105: Europe One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	14.00	14.50	6.50	5.00	0.00	1.00
AerisWeather				1.00	0.00	0.00
Dark Sky	2.00	4.00	4.00	7.00	0.00	2.50
Foreca/Vaisala	2.00	6.50	9.00	8.33	15.20	15.00
Global Weather Corp	19.50	13.83	10.50	15.33	8.70	2.50
MeteoGroup	15.00	16.25	18.00			
Microsoft						18.00
OpenWeather				2.00	1.00	1.00
Pelmorex	12.00	5.33	5.00	7.00	6.00	3.50
The Weather Channel	16.00	19.33	24.00	26.33	32.20	24.50
Weather News					0.00	2.00
Weather Trends					4.70	1.00
Weatherbit				4.00	1.20	1.00
Weerplaza				2.00	0.00	2.00
Wetter					4.00	1.00
WetterOnline					7.00	2.00
World Weather Online	3.50	4.25	7.00	6.00	3.00	6.00
yr.no					1.00	1.00

Table 106: Europe Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	16.67%	17.26%	7.74%	5.95%	0.00%	1.19%
AerisWeather				1.19%	0.00%	0.00%
Dark Sky	2.38%	4.76%	4.76%	8.33%	0.00%	2.98%
Foreca/Vaisala	2.38%	7.74%	10.71%	9.92%	18.10%	17.86%
Global Weather Corp	23.21%	16.46%	12.50%	18.25%	10.36%	2.98%
MeteoGroup	17.86%	19.35%	21.43%			
Microsoft						21.43%
OpenWeather				2.38%	1.19%	1.19%
Pelmorex	14.29%	6.35%	5.95%	8.33%	7.14%	4.17%
The Weather Channel	19.05%	23.01%	28.57%	31.35%	38.33%	29.17%
Weather News					0.00%	2.38%
Weather Trends					5.60%	1.19%
Weatherbit				4.76%	1.43%	1.19%
Weerplaza				2.38%	0.00%	2.38%
Wetter					4.76%	1.19%
WetterOnline					8.33%	2.38%
World Weather Online	4.17%	5.06%	8.33%	7.14%	3.57%	7.14%
yr.no					1.19%	1.19%

Table 107: Europe Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.00	14.00	14.00	6.50	2.00	3.00
AerisWeather				1.00	0.00	0.00
Dark Sky	2.00	4.00	3.00	7.00	0.00	1.00
Foreca/Vaisala	4.00	9.00	13.33	8.00	13.00	14.50
Global Weather Corp	19.00	10.50	8.33	16.50	9.50	7.00
MeteoGroup	17.00	17.00	15.33			
Microsoft						13.50
OpenWeather				3.00	1.00	0.00
Pelmorex	12.00	9.00	4.00	8.00	5.00	5.00
The Weather Channel	14.00	13.50	22.00	23.00	27.00	18.50
Weather News					3.50	1.00
Weather Trends					2.50	2.50
Weatherbit				3.00	2.50	2.00
Weerplaza				1.00	2.00	0.00
Wetter					2.00	1.00
WetterOnline					9.00	6.00
World Weather Online	3.00	7.00	4.00	7.00	4.00	7.00
yr.no					1.00	2.00

Table 108: Europe Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.48%	16.67%	16.67%	7.74%	2.38%	3.57%
AerisWeather				1.19%	0.00%	0.00%
Dark Sky	2.38%	4.76%	3.57%	8.33%	0.00%	1.19%
Foreca/Vaisala	4.76%	10.71%	15.87%	9.52%	15.48%	17.26%
Global Weather Corp	22.62%	12.50%	9.92%	19.64%	11.31%	8.33%
MeteoGroup	20.24%	20.24%	18.25%			
Microsoft						16.07%
OpenWeather				3.57%	1.19%	0.00%
Pelmorex	14.29%	10.71%	4.76%	9.52%	5.95%	5.95%
The Weather Channel	16.67%	16.07%	26.19%	27.38%	32.14%	22.02%
Weather News					4.17%	1.19%
Weather Trends					2.98%	2.98%
Weatherbit				3.57%	2.98%	2.38%
Weerplaza				1.19%	2.38%	0.00%
Wetter					2.38%	1.19%
WetterOnline					10.71%	7.14%
World Weather Online	3.57%	8.33%	4.76%	8.33%	4.76%	8.33%
yr.no					1.19%	2.38%

Table 109: Europe Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	11.00	17.00	15.00	11.00	2.00	2.00
AerisWeather				2.00	1.00	0.00
Dark Sky	3.00	3.00	2.00	6.00	1.00	2.50
Foreca/Vaisala	3.00	6.00	7.00	7.50	17.00	13.00
Global Weather Corp	23.00	9.50	10.50	12.50	8.67	8.50
MeteoGroup	15.00	14.50	14.00			
Microsoft						9.00
OpenWeather				2.00	0.00	1.00
Pelmorex	10.00	12.00	7.00	8.00	6.00	6.00
The Weather Channel	13.00	15.00	21.50	27.00	24.67	25.50
Weather News					2.00	1.00
Weather Trends					2.33	2.50
Weatherbit				3.00	2.00	2.00
Weerplaza				1.00	5.33	1.00
Wetter					6.00	0.00
World Weather Online	6.00	7.00	7.00	4.00	5.00	7.00
yr.no					1.00	3.00

Table 110: Europe Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	13.10%	20.24%	17.86%	13.10%	2.38%	2.38%
AerisWeather				2.38%	1.19%	0.00%
Dark Sky	3.57%	3.57%	2.38%	7.14%	1.19%	2.98%
Foreca/Vaisala	3.57%	7.14%	8.33%	8.93%	20.24%	15.48%
Global Weather Corp	27.38%	11.31%	12.50%	14.88%	10.32%	10.12%
MeteoGroup	17.86%	17.26%	16.67%			
Microsoft						10.71%
OpenWeather				2.38%	0.00%	1.19%
Pelmorex	11.90%	14.29%	8.33%	9.52%	7.14%	7.14%
The Weather Channel	15.48%	17.86%	25.60%	32.14%	29.37%	30.36%
Weather News					2.38%	1.19%
Weather Trends					2.77%	2.98%
Weatherbit				3.57%	2.38%	2.38%
Weerplaza				1.19%	6.35%	1.19%
Wetter					7.14%	0.00%
World Weather Online	7.14%	8.33%	8.33%	4.76%	5.95%	8.33%
yr.no					1.19%	3.57%

Table 111: Europe Four-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.00	12.00	6.00	10.50	1.50	1.75
AerisWeather				0.00	0.00	0.00
Dark Sky	3.00	5.00	2.00	4.00	4.00	0.00
Foreca/Vaisala	6.00	10.50	6.00	9.83	14.50	15.00
Global Weather Corp	16.00	8.00	11.00	14.33	9.50	7.75
MeteoGroup	12.00	23.00	19.50			
Microsoft						3.25
OpenWeather				3.00	0.00	0.00
Pelmorex	12.00	11.50	5.00	11.33	6.00	6.50
The Weather Channel	15.00	7.00	25.50	22.00	27.00	30.75
Weather News					3.00	3.00
Weather Trends					3.00	1.00
Weatherbit				4.00	2.00	1.00
Weerplaza				2.00	6.50	3.00
Wetter					2.00	3.00
World Weather Online	7.00	7.00	9.00	3.00	4.00	7.00
yr.no					1.00	1.00

Table 112: Europe Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.48%	14.29%	7.14%	12.50%	1.79%	2.08%
AerisWeather				0.00%	0.00%	0.00%
Dark Sky	3.57%	5.95%	2.38%	4.76%	4.76%	0.00%
Foreca/Vaisala	7.14%	12.50%	7.14%	11.70%	17.26%	17.86%
Global Weather Corp	19.05%	9.52%	13.10%	17.06%	11.31%	9.23%
MeteoGroup	14.29%	27.38%	23.21%			
Microsoft						3.87%
OpenWeather				3.57%	0.00%	0.00%
Pelmorex	14.29%	13.69%	5.95%	13.49%	7.14%	7.74%
The Weather Channel	17.86%	8.33%	30.36%	26.19%	32.14%	36.61%
Weather News					3.57%	3.57%
Weather Trends					3.57%	1.19%
Weatherbit				4.76%	2.38%	1.19%
Weerplaza				2.38%	7.74%	3.57%
Wetter					2.38%	3.57%
World Weather Online	8.33%	8.33%	10.71%	3.57%	4.76%	8.33%
yr.no					1.19%	1.19%

Table 113: Europe Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	5.00	3.50	3.00	4.00	3.00
AerisWeather				0.00	1.00	0.00
Dark Sky	4.00	2.50	2.00	2.00	2.00	1.00
Foreca/Vaisala	8.00	10.50	9.00	10.00	14.00	10.00
Global Weather Corp	18.83	17.50	18.00	21.00	6.33	6.00
MeteoGroup	14.00	21.00	10.00			
Microsoft						3.00
OpenWeather				5.00	1.00	1.00
Pelmorex	10.00	13.00	10.00	8.00	6.00	7.00
The Weather Channel	12.83	7.50	22.50	25.50	27.33	34.00
Weather News					7.00	3.00
Weather Trends					3.33	2.00
Weatherbit				4.00	2.00	1.00
Weerplaza				1.00	3.00	2.00
Wetter					2.00	3.00
World Weather Online	7.33	7.00	9.00	4.50	4.00	6.00
yr.no					1.00	2.00

Table 114: Europe Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	5.95%	4.17%	3.57%	4.76%	3.57%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	4.76%	2.98%	2.38%	2.38%	2.38%	1.19%
Foreca/Vaisala	9.52%	12.50%	10.71%	11.90%	16.67%	11.90%
Global Weather Corp	22.42%	20.83%	21.43%	25.00%	7.54%	7.14%
MeteoGroup	16.67%	25.00%	11.90%			
Microsoft						3.57%
OpenWeather				5.95%	1.19%	1.19%
Pelmorex	11.90%	15.48%	11.90%	9.52%	7.14%	8.33%
The Weather Channel	15.27%	8.93%	26.79%	30.36%	32.54%	40.48%
Weather News					8.33%	3.57%
Weather Trends					3.96%	2.38%
Weatherbit				4.76%	2.38%	1.19%
Weerplaza				1.19%	3.57%	2.38%
Wetter					2.38%	3.57%
World Weather Online	8.73%	8.33%	10.71%	5.36%	4.76%	7.14%
yr.no					1.19%	2.38%

Table 115: Europe Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.00	5.00	6.00	1.67	4.00	3.00
AerisWeather				1.00	1.00	0.00
Dark Sky	4.00	3.00	3.00	2.67	2.00	2.00
Foreca/Vaisala	10.50	13.00	16.00	12.00	16.00	9.00
Global Weather Corp	23.50	21.50	20.00	16.67	7.00	5.00
Microsoft						4.00
OpenWeather				3.00	0.00	0.00
Pelmorex	15.00	20.00	11.00	7.00	7.00	10.00
The Weather Channel	15.00	16.50	21.00	28.00	31.00	33.50
Weather News						0.00
Weather Trends					4.00	3.00
Weatherbit				6.50	1.00	1.00
Weerplaza				2.00	2.00	1.00
Wetter					4.00	2.00
World Weather Online	4.00	5.00	7.00	3.50	4.00	9.00
yr.no					1.00	1.50

Table 116: Europe Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.29%	5.95%	7.14%	1.99%	4.76%	3.57%
AerisWeather				1.19%	1.19%	0.00%
Dark Sky	4.76%	3.57%	3.57%	3.18%	2.38%	2.38%
Foreca/Vaisala	12.50%	15.48%	19.05%	14.29%	19.05%	10.71%
Global Weather Corp	27.98%	25.60%	23.81%	19.85%	8.33%	5.95%
Microsoft						4.76%
OpenWeather				3.57%	0.00%	0.00%
Pelmorex	17.86%	23.81%	13.10%	8.33%	8.33%	11.90%
The Weather Channel	17.86%	19.64%	25.00%	33.33%	36.90%	39.88%
Weather News						0.00%
Weather Trends					4.76%	3.57%
Weatherbit				7.74%	1.19%	1.19%
Weerplaza				2.38%	2.38%	1.19%
Wetter					4.76%	2.38%
World Weather Online	4.76%	5.95%	8.33%	4.17%	4.76%	10.71%
yr.no					1.19%	1.79%

Table 117: Europe Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.83	10.00	8.00	2.00	5.00	3.00
AerisWeather				1.00	1.00	1.00
Foreca/Vaisala	10.00	16.00	16.00	10.00	14.00	11.00
Global Weather Corp	25.83	18.00	22.50	17.50	8.00	7.50
Microsoft						5.00
OpenWeather				4.00	1.00	0.00
Pelmorex	16.33	17.00	12.00	6.00	9.00	8.00
The Weather Channel	14.00	18.00	20.50	28.50	33.00	31.50
Weather News						4.00
Weather Trends					3.00	2.00
Weatherbit				6.00	1.00	0.00
Weerplaza				3.00	2.00	1.00
Wetter					3.00	2.00
World Weather Online	7.00	5.00	5.00	6.00	2.00	7.00
yr.no					2.00	1.00

Table 118: Europe Eight-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	12.89%	11.90%	9.52%	2.38%	5.95%	3.57%
AerisWeather				1.19%	1.19%	1.19%
Foreca/Vaisala	11.90%	19.05%	19.05%	11.90%	16.67%	13.10%
Global Weather Corp	30.75%	21.43%	26.79%	20.83%	9.52%	8.93%
Microsoft						5.95%
OpenWeather				4.76%	1.19%	0.00%
Pelmorex	19.44%	20.24%	14.29%	7.14%	10.71%	9.52%
The Weather Channel	16.67%	21.43%	24.40%	33.93%	39.29%	37.50%
Weather News						4.76%
Weather Trends					3.57%	2.38%
Weatherbit				7.14%	1.19%	0.00%
Weerplaza				3.57%	2.38%	1.19%
Wetter					3.57%	2.38%
World Weather Online	8.33%	5.95%	5.95%	7.14%	2.38%	8.33%
yr.no					2.38%	1.19%

Table 119: Europe Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.50	12.00	7.00	0.67	4.00	3.00
AerisWeather				3.00	1.00	1.00
Foreca/Vaisala	13.50	13.00	14.00	10.00	6.33	7.00
Global Weather Corp	20.50	13.50	22.33	16.67	6.33	8.50
Microsoft						4.00
OpenWeather				5.00	1.00	1.00
Pelmorex	18.50	14.00	15.33	8.67	9.00	8.50
The Weather Channel	15.00	24.50	21.33	26.00	31.00	33.00
Weather News						4.00
Weather Trends					8.33	0.00
Weatherbit				6.00	0.00	2.00
Weerplaza				3.00	7.00	2.00
Wetter					3.00	2.00
World Weather Online	3.00	7.00	4.00	5.00	3.00	7.00
yr.no					4.00	1.00

Table 120: Europe Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	16.07%	14.29%	8.33%	0.80%	4.76%	3.57%
AerisWeather				3.57%	1.19%	1.19%
Foreca/Vaisala	16.07%	15.48%	16.67%	11.90%	7.54%	8.33%
Global Weather Corp	24.40%	16.07%	26.58%	19.85%	7.54%	10.12%
Microsoft						4.76%
OpenWeather				5.95%	1.19%	1.19%
Pelmorex	22.02%	16.67%	18.25%	10.32%	10.71%	10.12%
The Weather Channel	17.86%	29.17%	25.39%	30.95%	36.90%	39.29%
Weather News						4.76%
Weather Trends					9.92%	0.00%
Weatherbit				7.14%	0.00%	2.38%
Weerplaza				3.57%	8.33%	2.38%
Wetter					3.57%	2.38%
World Weather Online	3.57%	8.33%	4.76%	5.95%	3.57%	8.33%
yr.no					4.76%	1.19%

Table 121: Europe Nine-Day-Out Forecast First-Place Percentages

## Africa Region Skill Summary

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The Weather Channel claimed the greatest number of first-place points in Africa for 2021 and 2022 for all but four day out/year combinations: Microsoft earned the most for one through four days out in 2022. Microsoft also tied The Weather Channel for the most for five days out in 2022. In total, The Weather Channel has now claimed the greatest number in 41 of the 54 day out/year combinations since 2017, including in all years seven through nine days out. MeteoGroup has claimed eight, Microsoft has claimed five, and World Weather Online has claimed three (with three instances of ties).

When it comes to evaluating which forecast providers claimed the greatest number of first-place points relative to the most they could have earned due to differing numbers of metrics in which they competed, the most years/days out combinations belonged to The Weather Channel as well; however, this was much closer, with the Weather Channel claiming 24 of the 54 day out/year combinations. Due to their more limited number of metrics evaluated of 41, Global Weather Corporation claimed the greatest in 19 of those combinations, while MeteoGroup was first in eight and Microsoft in three.

In total for the six years, The Weather Channel earned 1289.36 points (28.43% of the maximum possible), Global Weather Corporation earned 524.39 points (11.56%), and World Weather Online earned 513.70 points (11.32%). It is worth noting that two other competitors were also very close to second and third: Pelmorex with 512.30 points (11.29%), and AccuWeather with 464.82 points (10.25%).

The Weather Channel had the greatest number of first-place points for all nine days out. As would be expected from the closeness of points for the providers that were second through fifth overall, the second and third greatest first-place finishes by day out were distributed among various providers. For the second greatest, it belonged to World Weather Online for one and three days out, Global Weather Corporation for two, six, and nine days out, AccuWeather for four and five days out, and Pelmorex for seven and eight days out. For the third greatest, it belonged to Pelmorex for one and nine days out, World Weather Online for two and eight days out, AccuWeather for three days out, MeteoGroup for four and six days out, and Global Weather Corporation for five and seven days out.

Six providers competed in at least 50% of metrics for Africa: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: AerisWeather, Global Weather Corporation, Weatherbit, Weerplaza, and OpenWeather.

Table 123 through Table 140 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for Africa.

## Individual Metrics

Table 122 shows the forecast providers with the highest average first-place points for each metric group by year in Africa.

Africa	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	The Weather Channel	Meteo-Group	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	Pelmorex	Meteo-Group	Meteo-Group	Accu-Weather	Pelmorex	Microsoft	<b>Meteo-Group</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	Global Weather Corp.	The Weather Channel	Global Weather Corp.	<b>Global Weather Corp.</b>
<b>Opacity</b>	World Weather Online	The Weather Channel	Meteo-Group	World Weather Online	Wetter-Online	World Weather Online	<b>World Weather Online</b>
<b>Precipitation</b>	Meteo-Group	The Weather Channel	The Weather Channel	Dark Sky	Wetter	The Weather Channel	<b>Meteo-Group</b>
<b>POP</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 122: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Africa

### High Temperature

First-place finishes for temperatures in Africa were more evenly distributed than in most other regions in the previous report, and that continued for high temperatures in 2021 and 2022. Although Meteogroup finished with the highest average points for high temperature, because it competed for

only three years and up to six days out, the greatest total number of first-place points went to Global Weather Corporation, as with the previous report (235.26 points, 24.20%). Pelmorex was second with 203.53 points (20.94%), and AccuWeather was third with 157.34 points (16.19%).

For 2021 and 2022, the day out/year combinations with the most first-place points were split among various providers, mostly Pelmorex, Microsoft, and Global Weather Corporation in the short-term (from one through five days out, Microsoft had five of the ten such combinations, Global Weather Corporation three, and Pelmorex two), and The Weather Channel and Global Weather Corporation in the longer range (from six through nine days out, The Weather Channel had six of the eight such combinations, and Global Weather Corporation the other two). So for all days out in 2021 and 2022, The Weather Channel had six, Microsoft and Global Weather Corporation each had five, and Pelmorex had two—nearly a three way tie for the most.

Global Weather Corporation had the most first-place finishes for one, two, and six through eight days out, while Pelmorex had the most for three days out, AccuWeather for four and five days out, and The Weather Channel for nine days out. The second most first-place finishes belonged to Pelmorex for one, two, four, and seven through nine days out, AccuWeather for three days out, Global Weather Corporation for five days out, and The Weather Channel for six days out. Finally, the third most belonged to Meteogroup for one and six days out, AccuWeather for two days out, Global Weather Corporation for three, four, and nine days out, Pelmorex for five days out, and The Weather Channel for seven and eight days out.

## Low Temperature

The greatest numbers of first-place points for African low temperatures were also split among various providers in 2021 and 2022. Global Weather Corporation recorded the most in ten of the 18 day out/year combinations, The Weather Channel earned six (one tied with Global Weather Corporation), WetterOnline recorded two, and Weather News recorded one.

For the six years combined, Global Weather Corporation led all providers with 285.13 points (29.33%), The Weather Channel was second with 237.09 points (24.39%), and Pelmorex was third with 159.77 points (16.44%).

Global Weather Corporation had the greatest number of first-place points for two through six, and nine days out, while The Weather Channel had the most for the other days out, one, seven, and eight. The Weather Channel also had the second greatest number for two, five, six, and nine days out, while Global Weather Corporation had the second most for seven and eight days out. The second greatest for one and four days out went to Pelmorex, while the second greatest for three days out was claimed



by WetterOnline. Pelmorex also had the third highest points for two, three, and five through nine days out. AccuWeather had the third best for one and four days out.

## Opacity

Provider rankings for opacity in Africa did not change significantly since the previous report, with World Weather Online increasing their share of first-place points from 49% in the previous report to 54.23% for the 2017–2022 period (410 points). The Weather Channel came in second as before, with 112 points (14.81%), decreasing their share from 20% in the previous report. MeteoGroup was third with 68 points (8.99%).

World Weather Online had the greatest number of first-place finishes in 2021 and 2022, earning them in 16 of the 18 day out/year combinations. Wetter earned the most three times (twice tying with World Weather Online), and WetterOnline also earned the most three times, also tying World Weather Online twice.

As with the last report, World Weather Online recorded the greatest number of first-place finishes for all nine days out. MeteoGroup also continued to record the second greatest one through six days out, with The Weather Channel earning the most seven through nine days out, days for which MeteoGroup did not forecast. AccuWeather also tied MeteoGroup for the second highest for five days out. The third greatest first-place points went to The Weather Channel for one, two, and four days out, WetterOnline one (tie) and three days out, Dark Sky six and seven days out, Wetter eight days out, and OpenWeather nine days out.

## Precipitation

The Weather Channel earned the greatest number of first-place finishes for African precipitation with 83, or 30.74% of the total. Dark Sky was second with 39 points (14.44%), and World Weather Online was third with 33.5 points (12.41%). MeteoGroup was just behind in fourth with 32 points, and was the leader relative to the highest average points per day out/year given its forecasts for only three years and up to six days out.

With only five individual metrics in the precipitation category, there were many ties in 2021 and 2022 when five different providers received one point each. AccuWeather, AerisWeather, Global Weather Corporation, Pelmorex, and WetterOnline received no first-place points in these two years; every other provider did. The Weather Channel earned slightly more first-place points in these most recent two years than Wetter, and nine other providers received at least one.

The Weather Channel had the greatest number of first-place finishes for one through four, six, eight, and nine days out, and the second greatest for five and seven days out. Dark Sky claimed the most number for five, six (tie), and seven days out. The second highest went to World Weather Online for



one, two, and nine days out, MeteoGroup for two (tie), three, and four days out, and Foreca/Vaisala for eight days out. Wetter also tied World Weather Online for the second best nine days out. The third greatest numbers of first-place finishes were earned by MeteoGroup for one, five, and six days out, Dark Sky three days out, Foreca/Vaisala seven days out, World Weather Online for four and eight days out, and Wetter for eight (tie) days out.

## **Probability of Precipitation**

The Weather Channel had a much larger lead in the POP metric category in Africa than 24-hour precipitation. Its 254.66 total points were 36.28% of the maximum possible and more than twice the nearest competitor, Pelmorex, which had 111 points (15.81%). AccuWeather was third with 82.16 points (11.70%).

The Weather Channel had the most first-place points in 15 of the 18 day out/year combinations for 2021 and 2022. Microsoft had three (tying once with The Weather Channel), and Wetter had two, also tying once with The Weather Channel.

In addition to finishing with the most first-place finishes all six years, The Weather Channel also had the most for all nine days out. Dark Sky had the second most for one day out, AccuWeather had the second most for three and four days out, and Pelmorex had the second most for two, and five through nine days out. The third greatest number of first-place finishes were more split—AccuWeather for one (tie), five, seven (tie), eight, and nine days out, Weatherbit for one (tie) and six days out, Dark Sky for two and seven (tie) days out, Pelmorex for three days out, and Foreca/Vaisala for four days out.

## **Winds**

While not as dominant as in Europe, The Weather Channel's performance with wind forecasts in Africa was again easily its best element. For 2021 and 2022, it finished with the most first-place points 15 times; only Microsoft, with the most in 2022 for one, two, and four days out prevented it from sweeping all 18 day out/year combinations. Going back to 2017, The Weather Channel claimed the most in 51 of the 54 day out/year combinations—all but those three in 2022; however, MeteoGroup did tie them twice in 2019—for four and six days out.

It follows then that The Weather Channel had the greatest number of first-place finishes for all days out, with at least three times as many points as its closest competitor for all nine days out. AccuWeather had the second greatest for one through three and seven through nine days out, while MeteoGroup had the highest for four through six days out. MeteoGroup also had the third best for one through three days out, while AccuWeather had the third greatest for four through six days out. For seven days out, Weerplaza and World Weather Online tied for the third highest; for eight days

out, Weerplaza had the third greatest, and for nine days out, Weerplaza tied AccuWeather for the second best.

In total, The Weather Channel had 485.50 first-place finishes (56.19% of the total, up about 4% from the previous report). AccuWeather was second with 101.50 first-place finishes (11.75%), and MeteoGroup was third with 70 points (8.10%).

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.33	12.50	11.33	11.42	5.17	1.00
AerisWeather				0.25	1.00	0.00
Dark Sky	2.00	2.00	2.00	9.00	2.00	3.00
Foreca/Vaisala	1.00	2.50	5.00	10.00	1.33	3.33
Global Weather Corp	10.33	6.33	1.33	7.00	12.83	8.33
MeteoGroup	8.33	15.50	25.33			
Microsoft						28.00
OpenWeather				2.00	2.00	1.00
Pelmorex	13.00	10.00	7.00	7.33	11.00	5.00
The Weather Channel	21.00	27.17	24.00	20.75	20.00	11.33
Weather News					0.00	0.00
Weather Trends					5.00	1.00
Weatherbit				4.00	2.50	1.00
Weerplaza				5.25	2.17	3.00
Wetter					4.00	2.00
WetterOnline					7.00	0.00
World Weather Online	20.00	8.00	8.00	7.00	8.00	15.00
yr.no					0.00	1.00

Table 123: Africa One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.92%	14.88%	13.49%	13.60%	6.15%	1.19%
AerisWeather				0.30%	1.19%	0.00%
Dark Sky	2.38%	2.38%	2.38%	10.71%	2.38%	3.57%
Foreca/Vaisala	1.19%	2.98%	5.95%	11.90%	1.58%	3.96%
Global Weather Corp	12.30%	7.54%	1.58%	8.33%	15.27%	9.92%
MeteoGroup	9.92%	18.45%	30.15%			
Microsoft						33.33%
OpenWeather				2.38%	2.38%	1.19%
Pelmorex	15.48%	11.90%	8.33%	8.73%	13.10%	5.95%
The Weather Channel	25.00%	32.35%	28.57%	24.70%	23.81%	13.49%
Weather News					0.00%	0.00%
Weather Trends					5.95%	1.19%
Weatherbit				4.76%	2.98%	1.19%
Weerplaza				6.25%	2.58%	3.57%
Wetter					4.76%	2.38%
WetterOnline					8.33%	0.00%
World Weather Online	23.81%	9.52%	9.52%	8.33%	9.52%	17.86%
yr.no					0.00%	1.19%

Table 124: Africa One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.83	8.50	14.00	10.83	3.50	1.00
AerisWeather				0.00	1.00	0.00
Dark Sky	3.50	1.00	2.00	10.00	0.00	2.50
Foreca/Vaisala	0.00	1.00	6.00	5.50	2.33	2.83
Global Weather Corp	13.83	13.00	7.00	15.00	7.33	9.33
MeteoGroup	10.83	14.83	23.50			
Microsoft						25.00
OpenWeather				0.00	2.00	0.00
Pelmorex	14.50	10.33	6.00	5.50	13.00	8.00
The Weather Channel	17.50	28.33	17.50	22.33	30.50	14.83
Weather News					0.00	0.83
Weather Trends					2.83	1.67
Weatherbit				4.33	3.00	1.00
Weerplaza				2.50	1.50	1.00
Wetter					3.00	1.00
WetterOnline					7.00	0.00
World Weather Online	16.00	7.00	8.00	8.00	7.00	15.00
yr.no					0.00	0.00

Table 125: Africa Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.32%	10.12%	16.67%	12.89%	4.17%	1.19%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	4.17%	1.19%	2.38%	11.90%	0.00%	2.98%
Foreca/Vaisala	0.00%	1.19%	7.14%	6.55%	2.77%	3.37%
Global Weather Corp	16.46%	15.48%	8.33%	17.86%	8.73%	11.11%
MeteoGroup	12.89%	17.65%	27.98%			
Microsoft						29.76%
OpenWeather				0.00%	2.38%	0.00%
Pelmorex	17.26%	12.30%	7.14%	6.55%	15.48%	9.52%
The Weather Channel	20.83%	33.73%	20.83%	26.58%	36.31%	17.65%
Weather News					0.00%	0.99%
Weather Trends					3.37%	1.99%
Weatherbit				5.15%	3.57%	1.19%
Weerplaza				2.98%	1.79%	1.19%
Wetter					3.57%	1.19%
WetterOnline					8.33%	0.00%
World Weather Online	19.05%	8.33%	9.52%	9.52%	8.33%	17.86%
yr.no					0.00%	0.00%

Table 126: Africa Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.00	10.00	11.83	16.00	5.00	2.20
AerisWeather				0.83	0.00	0.00
Dark Sky	3.50	0.00	1.33	8.00	5.00	5.50
Foreca/Vaisala	2.00	2.00	4.33	6.00	1.00	0.00
Global Weather Corp	12.00	12.00	7.33	7.00	14.50	3.20
MeteoGroup	4.50	19.50	25.33			
Microsoft						19.00
OpenWeather				1.33	3.00	1.50
Pelmorex	13.00	8.00	8.00	7.00	3.00	9.20
The Weather Channel	18.00	22.50	17.83	19.50	21.00	9.70
Weather News					0.00	0.00
Weather Trends					2.50	4.20
Weatherbit				4.50	2.00	2.00
Weerplaza				5.83	3.00	0.00
Wetter					1.00	0.00
WetterOnline					17.00	13.00
World Weather Online	18.00	10.00	8.00	8.00	6.00	13.50
yr.no					0.00	1.00

Table 127: Africa Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.48%	11.90%	14.08%	19.05%	5.95%	2.62%
AerisWeather				0.99%	0.00%	0.00%
Dark Sky	4.17%	0.00%	1.58%	9.52%	5.95%	6.55%
Foreca/Vaisala	2.38%	2.38%	5.15%	7.14%	1.19%	0.00%
Global Weather Corp	14.29%	14.29%	8.73%	8.33%	17.26%	3.81%
MeteoGroup	5.36%	23.21%	30.15%			
Microsoft						22.62%
OpenWeather				1.58%	3.57%	1.79%
Pelmorex	15.48%	9.52%	9.52%	8.33%	3.57%	10.95%
The Weather Channel	21.43%	26.79%	21.23%	23.21%	25.00%	11.55%
Weather News					0.00%	0.00%
Weather Trends					2.98%	5.00%
Weatherbit				5.36%	2.38%	2.38%
Weerplaza				6.94%	3.57%	0.00%
Wetter					1.19%	0.00%
WetterOnline					20.24%	15.48%
World Weather Online	21.43%	11.90%	9.52%	9.52%	7.14%	16.07%
yr.no					0.00%	1.19%

Table 128: Africa Three-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	16.00	8.25	13.50	17.83	5.50	4.70
AerisWeather				3.00	0.00	0.00
Dark Sky	3.00	1.00	2.00	8.00	2.00	2.00
Foreca/Vaisala	3.00	2.00	6.00	6.50	1.50	2.75
Global Weather Corp	11.50	9.67	5.83	7.00	14.00	11.45
MeteoGroup	9.00	24.42	27.33			
Microsoft						19.70
OpenWeather				0.00	2.00	0.50
Pelmorex	16.50	7.25	5.00	8.00	10.00	8.25
The Weather Channel	8.00	24.42	16.33	20.33	20.00	10.45
Weather News					0.00	0.00
Weather Trends					5.00	2.70
Weatherbit				3.33	4.00	4.00
Weerplaza				3.00	1.50	0.50
Wetter					10.50	2.00
World Weather Online	17.00	7.00	8.00	7.00	6.00	14.00
yr.no					2.00	1.00

Table 129: Africa Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	19.05%	9.82%	16.07%	21.23%	6.55%	5.60%
AerisWeather				3.57%	0.00%	0.00%
Dark Sky	3.57%	1.19%	2.38%	9.52%	2.38%	2.38%
Foreca/Vaisala	3.57%	2.38%	7.14%	7.74%	1.79%	3.27%
Global Weather Corp	13.69%	11.51%	6.94%	8.33%	16.67%	13.63%
MeteoGroup	10.71%	29.07%	32.54%			
Microsoft						23.45%
OpenWeather				0.00%	2.38%	0.60%
Pelmorex	19.64%	8.63%	5.95%	9.52%	11.90%	9.82%
The Weather Channel	9.52%	29.07%	19.44%	24.20%	23.81%	12.44%
Weather News					0.00%	0.00%
Weather Trends					5.95%	3.21%
Weatherbit				3.96%	4.76%	4.76%
Weerplaza				3.57%	1.79%	0.60%
Wetter					12.50%	2.38%
World Weather Online	20.24%	8.33%	9.52%	8.33%	7.14%	16.67%
yr.no					2.38%	1.19%

Table 130: Africa Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	15.67	11.00	15.00	14.00	8.00	5.67
AerisWeather				2.00	1.00	1.00
Dark Sky	4.00	2.00	6.00	7.50	5.00	3.00
Foreca/Vaisala	4.33	2.00	1.00	4.50	0.00	1.67
Global Weather Corp	9.67	9.00	9.00	10.50	11.75	11.17
MeteoGroup	7.83	19.50	24.33			
Microsoft						16.17
OpenWeather				1.00	2.00	3.50
Pelmorex	13.00	12.00	6.33	7.50	8.00	5.00
The Weather Channel	12.50	21.50	14.33	22.00	21.00	16.17
Weather News					0.00	0.00
Weather Trends					8.75	2.67
Weatherbit				5.00	2.00	1.00
Weerplaza				3.00	5.25	0.00
Wetter					4.25	3.00
World Weather Online	17.00	7.00	8.00	7.00	6.00	14.00
yr.no					1.00	0.00

Table 131: Africa Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	18.65%	13.10%	17.86%	16.67%	9.52%	6.75%
AerisWeather				2.38%	1.19%	1.19%
Dark Sky	4.76%	2.38%	7.14%	8.93%	5.95%	3.57%
Foreca/Vaisala	5.15%	2.38%	1.19%	5.36%	0.00%	1.99%
Global Weather Corp	11.51%	10.71%	10.71%	12.50%	13.99%	13.30%
MeteoGroup	9.32%	23.21%	28.96%			
Microsoft						19.25%
OpenWeather				1.19%	2.38%	4.17%
Pelmorex	15.48%	14.29%	7.54%	8.93%	9.52%	5.95%
The Weather Channel	14.88%	25.60%	17.06%	26.19%	25.00%	19.25%
Weather News					0.00%	0.00%
Weather Trends					10.42%	3.18%
Weatherbit				5.95%	2.38%	1.19%
Weerplaza				3.57%	6.25%	0.00%
Wetter					5.06%	3.57%
World Weather Online	20.24%	8.33%	9.52%	8.33%	7.14%	16.67%
yr.no					1.19%	0.00%

Table 132: Africa Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	10.00	4.50	6.83	6.00	2.00	2.45
AerisWeather				1.00	2.00	0.33
Dark Sky	4.00	5.00	2.67	10.00	5.00	1.00
Foreca/Vaisala	4.00	2.00	1.00	2.50	1.00	4.33
Global Weather Corp	13.00	11.75	11.83	12.00	4.50	19.45
MeteoGroup	10.00	24.25	24.67			
Microsoft						1.45
OpenWeather				0.00	2.00	2.33
Pelmorex	12.00	8.25	9.67	8.50	6.00	6.00
The Weather Channel	18.00	21.25	20.33	31.50	30.50	24.45
Weather News					7.00	1.00
Weather Trends					4.00	3.20
Weatherbit				4.50	2.00	1.00
Weerplaza				3.00	5.00	1.00
Wetter					6.00	2.00
World Weather Online	13.00	7.00	7.00	5.00	6.00	14.00
yr.no					1.00	0.00

Table 133: Africa Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	11.90%	5.36%	8.13%	7.14%	2.38%	2.92%
AerisWeather				1.19%	2.38%	0.39%
Dark Sky	4.76%	5.95%	3.18%	11.90%	5.95%	1.19%
Foreca/Vaisala	4.76%	2.38%	1.19%	2.98%	1.19%	5.15%
Global Weather Corp	15.48%	13.99%	14.08%	14.29%	5.36%	23.15%
MeteoGroup	11.90%	28.87%	29.37%			
Microsoft						1.73%
OpenWeather				0.00%	2.38%	2.77%
Pelmorex	14.29%	9.82%	11.51%	10.12%	7.14%	7.14%
The Weather Channel	21.43%	25.30%	24.20%	37.50%	36.31%	29.11%
Weather News					8.33%	1.19%
Weather Trends					4.76%	3.81%
Weatherbit				5.36%	2.38%	1.19%
Weerplaza				3.57%	5.95%	1.19%
Wetter					7.14%	2.38%
World Weather Online	15.48%	8.33%	8.33%	5.95%	7.14%	16.67%
yr.no					1.19%	0.00%

Table 134: Africa Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	9.25	11.50	7.50	5.00	4.50
AerisWeather				0.33	0.33	1.00
Dark Sky	4.00	6.00	10.00	9.00	2.00	2.00
Foreca/Vaisala	1.50	3.67	3.00	2.00	1.33	6.00
Global Weather Corp	7.00	13.25	6.50	14.50	1.33	13.33
Microsoft						3.00
OpenWeather				4.50	3.33	1.00
Pelmorex	19.00	10.25	13.00	11.00	8.00	6.33
The Weather Channel	29.50	33.58	34.00	20.50	39.00	23.17
Weather News						0.33
Weather Trends					3.33	6.33
Weatherbit				4.33	2.00	1.00
Weerplaza				6.33	5.33	1.00
Wetter					6.00	2.00
World Weather Online	14.00	8.00	6.00	4.00	5.00	13.00
yr.no					2.00	0.00

Table 135: Africa Seven-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	11.01%	13.69%	8.93%	5.95%	5.36%
AerisWeather				0.39%	0.39%	1.19%
Dark Sky	4.76%	7.14%	11.90%	10.71%	2.38%	2.38%
Foreca/Vaisala	1.79%	4.37%	3.57%	2.38%	1.58%	7.14%
Global Weather Corp	8.33%	15.77%	7.74%	17.26%	1.58%	15.87%
Microsoft						3.57%
OpenWeather				5.36%	3.96%	1.19%
Pelmorex	22.62%	12.20%	15.48%	13.10%	9.52%	7.54%
The Weather Channel	35.12%	39.98%	40.48%	24.40%	46.43%	27.58%
Weather News						0.39%
Weather Trends					3.96%	7.54%
Weatherbit				5.15%	2.38%	1.19%
Weerplaza				7.54%	6.35%	1.19%
Wetter					7.14%	2.38%
World Weather Online	16.67%	9.52%	7.14%	4.76%	5.95%	15.48%
yr.no					2.38%	0.00%

Table 136: Africa Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	16.25	15.67	8.33	3.83	3.83	2.83
AerisWeather				3.00	0.00	0.00
Foreca/Vaisala	1.00	2.00	5.00	3.00	3.00	6.00
Global Weather Corp	6.25	8.17	9.33	13.83	0.83	7.00
Microsoft						6.00
OpenWeather				2.00	2.25	0.20
Pelmorex	18.75	11.50	11.50	13.33	6.00	6.20
The Weather Channel	24.75	36.67	42.83	27.50	39.00	29.37
Weather News						0.00
Weather Trends					5.33	7.00
Weatherbit				3.50	0.00	0.00
Weerplaza				9.00	5.25	4.20
Wetter					11.25	3.00
World Weather Online	17.00	10.00	7.00	5.00	4.00	12.20
yr.no					3.25	0.00

Table 137: Africa Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	19.35%	18.65%	9.92%	4.56%	4.56%	3.37%
AerisWeather				3.57%	0.00%	0.00%
Foreca/Vaisala	1.19%	2.38%	5.95%	3.57%	3.57%	7.14%
Global Weather Corp	7.44%	9.73%	11.11%	16.46%	0.99%	8.33%
Microsoft						7.14%
OpenWeather				2.38%	2.68%	0.24%
Pelmorex	22.32%	13.69%	13.69%	15.87%	7.14%	7.38%
The Weather Channel	29.46%	43.65%	50.99%	32.74%	46.43%	34.96%
Weather News						0.00%
Weather Trends					6.35%	8.33%
Weatherbit				4.17%	0.00%	0.00%
Weerplaza				10.71%	6.25%	5.00%
Wetter					13.39%	3.57%
World Weather Online	20.24%	11.90%	8.33%	5.95%	4.76%	14.52%
yr.no					3.87%	0.00%

Table 138: Africa Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.33	16.33	8.50	5.33	3.00	1.50
AerisWeather				3.00	0.00	0.00
Foreca/Vaisala	1.00	3.00	5.00	4.00	5.00	3.00
Global Weather Corp	12.50	8.33	18.50	9.33	2.00	11.67
Microsoft						4.00
OpenWeather				3.00	4.00	0.00
Pelmorex	14.33	14.00	11.00	10.00	8.00	4.00
The Weather Channel	29.83	35.33	36.00	29.33	38.50	23.67
Weather News						1.00
Weather Trends					7.00	7.17
Weatherbit				3.00	0.00	0.00
Weerplaza				12.00	1.00	8.00
Wetter					9.00	7.00
World Weather Online	14.00	7.00	5.00	5.00	4.00	13.00
yr.no					2.50	0.00

Table 139: Africa Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.68%	19.44%	10.12%	6.35%	3.57%	1.79%
AerisWeather				3.57%	0.00%	0.00%
Foreca/Vaisala	1.19%	3.57%	5.95%	4.76%	5.95%	3.57%
Global Weather Corp	14.88%	9.92%	22.02%	11.11%	2.38%	13.89%
Microsoft						4.76%
OpenWeather				3.57%	4.76%	0.00%
Pelmorex	17.06%	16.67%	13.10%	11.90%	9.52%	4.76%
The Weather Channel	35.51%	42.06%	42.86%	34.92%	45.83%	28.18%
Weather News						1.19%
Weather Trends					8.33%	8.54%
Weatherbit				3.57%	0.00%	0.00%
Weerplaza				14.29%	1.19%	9.52%
Wetter					10.71%	8.33%
World Weather Online	16.67%	8.33%	5.95%	5.95%	4.76%	15.48%
yr.no					2.98%	0.00%

Table 140: Africa Nine-Day-Out Forecast First-Place Percentages

## Middle East Region Skill Summary

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The Weather Channel continued to dominate forecasting in the Middle East. Other than 2017 for one through three days out, for which Global Weather Corporation had the greatest first-place points, and 2022 for one day out, when Microsoft did, The Weather Channel earned the greatest number of first-place points for all other years/days out combinations in 2017–2022. While Global Weather Corporation faded to earning mostly less than 10% of all points after 2017, The Weather Channel maintained, and in some cases, increased their share, particularly at the longer forecasting range, although Foreca/Vaisala and World Weather Online also began to increase their shares as the years progressed. Also in 2022, newcomer Microsoft ate into some of The Weather Channel’s domination of first-place finishes in the short range, making them peak in 2021 for short-range forecasts.

In total, The Weather Channel earned 39.25% of all first-place points from 2017–2022 for one through nine days out. Pelmorex, in second, earned only 10.65%. Foreca/Vaisala earned 9.91% and World Weather Online earned 9.52%.

Based on The Weather Channel’s dominance in the Middle East, in combination with Global Weather Corporation’s early wins and fewer metrics, it should come as no surprise that based on relative percentages, Global Weather Corporation claimed the greatest percentage of first-place points relative to their individual number of forecasted metrics in five of the 54 day out/year combinations—all in 2017 (for one through five days out). Microsoft also claimed the most in one category, for one day out in 2022. The Weather Channel claimed the most of the other 48 combinations.

The Weather Channel claimed the greatest number of first-place finishes for all nine days out. The second and third greatest numbers went to only three providers: Foreca/Vaisala, Pelmorex, and World Weather Online. Pelmorex earned the second greatest for two, four, five, and seven through nine days out, and the third greatest for one, three, and six days out. Foreca/Vaisala had the second highest for six days out, and the third greatest for seven through nine days out, and World Weather Online had the second best for one and three days out. World Weather Online had the third highest for the remaining days, two, four, and five days out.

Six providers competed in at least 50% of metrics for the Middle East: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: AerisWeather, Global Weather Corporation, Weatherbit, Weerplaza, and OpenWeather.

Table 142 through Table 159 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day in advance for the Middle East.

## Individual Metrics

Table 141 shows the forecast providers with the highest average first-place points for each metric group by year in the Middle East.

Middle East	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Opacity</b>	World Weather Online	The Weather Channel	Meteo-Group	Dark Sky	Wetter-Online	World Weather Online	<b>World Weather Online</b>
<b>Precipitation</b>	Global Weather Corp.	Foreca/Vaisala	Foreca/Vaisala	Weer-plaza	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>POP</b>	Pelmorex	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 141: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Middle East

### High Temperature

As in the previous report, The Weather Channel was dominant for temperature forecasting in the Middle East. For high temperatures, they received 492.83 first-place finishes for all six years (50.70%), including in all day out/year combination from six through nine days out and for three through nine days out in 2018–2022. For 2017, AccuWeather and Global Weather Corporation earned the most between one and five days out, and for 2021 and 2022, Global Weather



Corporation, Microsoft, Pelmorex, and Weather Trends earned all the combinations for one and two days out.

Global Weather Corporation was second overall with 162.23 first-place finishes (16.69%) and Pelmorex was third with 127.33 first-place finishes (13.10%).

The Weather Channel finished with the most first-place points for all nine days out. Global Weather Corporation had the second most for one through six days out, and the third most for seven through nine days out; Pelmorex had the second most for seven through nine days out and the third most for one through six days out.

## Low Temperature

As with high temperatures, The Weather Channel had significantly more first-place finishes for low temperatures in the Middle East than other providers, with a total of 451.96 (46.50%). Pelmorex was second with 139.23 (14.32%) and Global Weather Corporation was third with 137.00 (14.09%). For 2021 and 2022, The Weather Channel had the most points in all day out/year combinations except three—one by Global Weather Corporation (nine days out in 2022) and two by Microsoft (one and three days out in 2022).

The Weather Channel earned the most first-place finishes for all nine days out, as it did with high temperatures. The second most was split between Foreca/Vaisala (one day out), Global Weather Corporation (two, four, five, and nine days out), and Pelmorex (three, and six through eight days out). The third greatest numbers of first-place finishes were also split between multiple providers: MeteoGroup for one and five days out, Pelmorex for two, four, and nine days out, Global Weather Corporation for three, six, and eight days out, and AccuWeather for seven days out.

## Opacity

In the previous report, it was noted that World Weather Online led the Middle East in opacity, but not by much. In 2021 and 2022, World Weather Online established itself as the frontrunner for Middle Eastern opacity forecasts, earning the most points in 15 of the 18 day out/year combinations in 2021 and 2022. WetterOnline won three of them (one through three days out in 2021), and Wetter tied once with World Weather Online. Thus, in those most recent two years, World Weather Online had 157 total first-place finishes to increase their total to 346 for all six years (45.77% of the maximum points). Meanwhile, The Weather Channel, its closest competitor, only had five first-place finishes in those most recent two years, climbing only to 169 total (22.35%). MeteoGroup, in third, had 78 total for the six years (10.32%).

World Weather Online's transition to dominance in Middle East opacity now means they have the most first-place finishes for all nine days out. The Weather Channel has the most for one day out as well as five through nine days out, and the third most for two through four days out. MeteoGroup has the second most for two through four days out and the third most for every other day out it forecasted: one, five, and six days out. The third greatest number of points otherwise belong to Weerplaza seven days out and OpenWeather eight and nine days out. Dark Sky and WetterOnline also tied The Weather Channel for the third highest for three days out.

## Precipitation

Foreca/Vaisala was the winner for 24-hour precipitation forecasts in the Middle East in 2021 and 2022, sweeping all day out/year combinations in those two years through four days out, and earning the most in 12 of 18 overall for all days out. The Weather Channel earned the most points in the second greatest number of combinations with six of the 18 combinations, tying with Foreca/Vaisala once. Weerplaza had the most in one by itself, and five providers including Foreca/Vaisala tied for the most nine days out in 2022.

Overall for all six years, Foreca/Vaisala had 70 total first-place finishes (25.93% of the maximum possible). The Weather Channel was second with 46 (17.04%) and World Weather Online was third with 37 (13.70%).

Foreca/Vaisala had the most first-place finishes for all nine days out, although Global Weather Corporation and The Weather Channel also tied for the most five days out. The second most belonged to World Weather Online one and two days out, The Weather Channel three days out, Global Weather Corporation and World Weather Online four days out, The Weather Channel and World Weather Online six days out, and The Weather Channel by itself seven through nine days out. The third most belonged to Global Weather Corporation and The Weather Channel one day out, Global Weather Corporation two days out, Global Weather Corporation and World Weather Online three days out, World Weather Online seven days out, Weerplaza and World Weather Online eight days out, and Global Weather Corporation and Weerplaza nine days out.

## Probability of Precipitation

Pelmorex led all providers in Middle Eastern POP in the previous report. In 2021 and 2022, however, Foreca/Vaisala and Microsoft earned the greatest number of first-place finishes in all day out/year combinations (Foreca/Vaisala had 16 and Microsoft had four, with two ties) to allow Foreca/Vaisala to surge past Pelmorex for the most for the entire 2017–2022 period.

Foreca/Vaisala had 252.75 total first-place finishes (36.00%) for those six years, while Pelmorex had 184.48 (26.28%). Third was The Weather Channel with 51.23 (7.30%).

For all six years, Foreca/Vaisala had the most first-place finishes for two through four, and six through nine days out, with the second most for one and five days out. Pelmorex had the most for one and five days out and the second most for two through four, and six through nine days out. The third most belonged to The Weather Channel for one, four, five, and seven days out, World Weather Online for two and three days out, Dark Sky for six days out, and AccuWeather for eight and nine days out.

## **Winds**

The Weather Channel once again defeated all other competitors for wind forecasting, earning 569.50 first-place finishes, or 65.91% of the maximum possible. AccuWeather was second with 133.00 first-place finishes (15.39%), and Foreca/Vaisala was third with only 38 first-place finishes (4.40%).

The Weather Channel also swept every day out and year, earning the most first-place finishes in all 54 day out/year combinations between 2017–2022. In 2021, its peak year before Microsoft arrived in 2022, The Weather Channel earned over 77% of the maximum possible first-place points for Middle Eastern winds.

Needless to say, The Weather Channel had the most first-place finishes for every day out. AccuWeather had the second most for all nine days out. The third most belonged to Dark Sky for one through four days out, Foreca/Vaisala for four through eight days out, and Pelmorex for eight and nine days out. Foreca/Vaisala and Pelmorex tied for the third most eight days out, and Weerplaza and World Weather Online also tied Dark Sky and Foreca/Vaisala to create a four-way tie for the third most at four days out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.25	7.00	8.25	4.70	3.50	4.00
AerisWeather				0.00	0.00	0.00
Dark Sky	0.25	3.00	2.50	7.00	4.00	3.00
Foreca/Vaisala	1.00	16.75	9.25	2.00	9.00	6.00
Global Weather Corp	20.00	4.25	0.00	4.50	6.50	2.33
MeteoGroup	9.00	15.25	15.25			
Microsoft						22.00
OpenWeather				3.00	5.00	2.00
Pelmorex	16.25	5.25	7.00	9.20	8.00	4.00
The Weather Channel	19.25	28.50	33.75	38.20	21.00	18.33
Weather News					0.00	0.00
Weather Trends					6.00	2.83
Weatherbit				1.20	0.00	0.50
Weerplaza				5.20	1.00	1.00
Wetter					1.00	1.00
WetterOnline					9.00	1.00
World Weather Online	12.00	4.00	8.00	9.00	8.00	16.00
yr.no					2.00	0.00

Table 142: Middle East One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.44%	8.33%	9.82%	5.60%	4.17%	4.76%
AerisWeather				0.00%	0.00%	0.00%
Dark Sky	0.30%	3.57%	2.98%	8.33%	4.76%	3.57%
Foreca/Vaisala	1.19%	19.94%	11.01%	2.38%	10.71%	7.14%
Global Weather Corp	23.81%	5.06%	0.00%	5.36%	7.74%	2.77%
MeteoGroup	10.71%	18.15%	18.15%			
Microsoft						26.19%
OpenWeather				3.57%	5.95%	2.38%
Pelmorex	19.35%	6.25%	8.33%	10.95%	9.52%	4.76%
The Weather Channel	22.92%	33.93%	40.18%	45.48%	25.00%	21.82%
Weather News					0.00%	0.00%
Weather Trends					7.14%	3.37%
Weatherbit				1.43%	0.00%	0.60%
Weerplaza				6.19%	1.19%	1.19%
Wetter					1.19%	1.19%
WetterOnline					10.71%	1.19%
World Weather Online	14.29%	4.76%	9.52%	10.71%	9.52%	19.05%
yr.no					2.38%	0.00%

Table 143: Middle East One-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.00	7.42	7.33	3.87	4.00	2.00
AerisWeather				0.00	1.00	0.00
Dark Sky	0.50	3.00	2.00	7.00	3.00	3.00
Foreca/Vaisala	2.00	12.25	13.83	5.83	12.00	8.00
Global Weather Corp	22.50	5.83	4.33	2.00	7.50	5.50
MeteoGroup	5.00	11.25	15.00			
Microsoft						15.00
OpenWeather				4.00	2.00	0.00
Pelmorex	17.00	11.67	6.50	9.20	7.00	5.00
The Weather Channel	16.00	28.58	27.00	35.20	22.00	21.50
Weather News					1.00	0.00
Weather Trends					3.00	2.00
Weatherbit				4.20	0.00	1.00
Weerplaza				3.70	1.00	3.00
Wetter					1.00	1.00
WetterOnline					12.00	2.00
World Weather Online	13.00	4.00	8.00	9.00	7.00	15.00
yr.no					0.50	0.00

Table 144: Middle East Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.52%	8.83%	8.73%	4.61%	4.76%	2.38%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	0.60%	3.57%	2.38%	8.33%	3.57%	3.57%
Foreca/Vaisala	2.38%	14.58%	16.46%	6.94%	14.29%	9.52%
Global Weather Corp	26.79%	6.94%	5.15%	2.38%	8.93%	6.55%
MeteoGroup	5.95%	13.39%	17.86%			
Microsoft						17.86%
OpenWeather				4.76%	2.38%	0.00%
Pelmorex	20.24%	13.89%	7.74%	10.95%	8.33%	5.95%
The Weather Channel	19.05%	34.02%	32.14%	41.90%	26.19%	25.60%
Weather News					1.19%	0.00%
Weather Trends					3.57%	2.38%
Weatherbit				5.00%	0.00%	1.19%
Weerplaza				4.40%	1.19%	3.57%
Wetter					1.19%	1.19%
WetterOnline					14.29%	2.38%
World Weather Online	15.48%	4.76%	9.52%	10.71%	8.33%	17.86%
yr.no					0.60%	0.00%

Table 145: Middle East Two-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.00	10.00	6.67	3.20	3.00	3.00
AerisWeather				1.00	0.25	0.00
Dark Sky	1.50	3.00	2.00	8.50	1.00	3.33
Foreca/Vaisala	2.00	9.50	15.67	9.53	8.00	6.00
Global Weather Corp	22.00	7.50	5.00	2.33	5.08	5.33
MeteoGroup	6.50	15.00	14.67			
Microsoft						14.00
OpenWeather				3.00	1.25	0.00
Pelmorex	16.50	8.50	9.00	9.70	7.00	4.00
The Weather Channel	17.50	25.50	24.00	33.53	32.33	24.00
Weather News					1.00	0.00
Weather Trends					2.08	0.33
Weatherbit				4.50	0.00	0.00
Weerplaza				2.70	2.00	3.00
Wetter					1.00	0.00
WetterOnline					11.50	3.00
World Weather Online	12.00	5.00	7.00	6.00	8.00	17.00
yr.no					0.50	1.00

Table 146: Middle East Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.14%	11.90%	7.94%	3.81%	3.57%	3.57%
AerisWeather				1.19%	0.30%	0.00%
Dark Sky	1.79%	3.57%	2.38%	10.12%	1.19%	3.96%
Foreca/Vaisala	2.38%	11.31%	18.65%	11.35%	9.52%	7.14%
Global Weather Corp	26.19%	8.93%	5.95%	2.77%	6.05%	6.35%
MeteoGroup	7.74%	17.86%	17.46%			
Microsoft						16.67%
OpenWeather				3.57%	1.49%	0.00%
Pelmorex	19.64%	10.12%	10.71%	11.55%	8.33%	4.76%
The Weather Channel	20.83%	30.36%	28.57%	39.92%	38.49%	28.57%
Weather News					1.19%	0.00%
Weather Trends					2.48%	0.39%
Weatherbit				5.36%	0.00%	0.00%
Weerplaza				3.21%	2.38%	3.57%
Wetter					1.19%	0.00%
WetterOnline					13.69%	3.57%
World Weather Online	14.29%	5.95%	8.33%	7.14%	9.52%	20.24%
yr.no					0.60%	1.19%

Table 147: Middle East Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	12.00	6.75	8.50	4.50	2.00	4.00
AerisWeather				0.00	0.00	0.00
Dark Sky	0.00	2.00	1.00	8.00	0.00	4.50
Foreca/Vaisala	2.00	9.75	12.00	10.00	6.00	9.00
Global Weather Corp	17.00	11.00	6.00	4.50	3.00	5.50
MeteoGroup	7.00	9.00	13.00			
Microsoft						7.50
OpenWeather				3.00	2.00	1.00
Pelmorex	16.00	6.75	7.00	8.00	9.00	6.00
The Weather Channel	19.00	34.75	30.50	34.50	38.00	25.00
Weather News					0.50	0.00
Weather Trends					2.00	0.50
Weatherbit				1.50	3.00	1.00
Weerplaza				4.00	3.50	3.00
Wetter					6.00	1.00
World Weather Online	11.00	4.00	6.00	6.00	7.00	15.00
yr.no					2.00	1.00

Table 148: Middle East Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	14.29%	8.04%	10.12%	5.36%	2.38%	4.76%
AerisWeather				0.00%	0.00%	0.00%
Dark Sky	0.00%	2.38%	1.19%	9.52%	0.00%	5.36%
Foreca/Vaisala	2.38%	11.61%	14.29%	11.90%	7.14%	10.71%
Global Weather Corp	20.24%	13.10%	7.14%	5.36%	3.57%	6.55%
MeteoGroup	8.33%	10.71%	15.48%			
Microsoft						8.93%
OpenWeather				3.57%	2.38%	1.19%
Pelmorex	19.05%	8.04%	8.33%	9.52%	10.71%	7.14%
The Weather Channel	22.62%	41.37%	36.31%	41.07%	45.24%	29.76%
Weather News					0.60%	0.00%
Weather Trends					2.38%	0.60%
Weatherbit				1.79%	3.57%	1.19%
Weerplaza				4.76%	4.17%	3.57%
Wetter					7.14%	1.19%
World Weather Online	13.10%	4.76%	7.14%	7.14%	8.33%	17.86%
yr.no					2.38%	1.19%

Table 149: Middle East Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	13.33	9.00	9.00	3.33	3.00	1.00
AerisWeather				0.00	1.00	0.00
Dark Sky	1.00	4.00	1.00	5.00	2.00	2.83
Foreca/Vaisala	3.00	9.33	10.00	6.83	6.33	5.00
Global Weather Corp	13.83	11.17	9.00	2.33	1.67	4.00
MeteoGroup	4.50	9.17	16.00			
Microsoft						11.00
OpenWeather				5.00	1.00	0.00
Pelmorex	11.00	6.00	6.00	7.00	10.00	8.33
The Weather Channel	23.33	33.33	27.00	40.50	39.33	30.17
Weather News					0.00	0.00
Weather Trends					3.67	0.33
Weatherbit				2.00	1.00	1.00
Weerplaza				8.00	5.00	4.00
Wetter					3.00	1.33
World Weather Online	14.00	2.00	6.00	4.00	5.00	14.00
yr.no					2.00	1.00

Table 150: Middle East Five-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	15.87%	10.71%	10.71%	3.96%	3.57%	1.19%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	1.19%	4.76%	1.19%	5.95%	2.38%	3.37%
Foreca/Vaisala	3.57%	11.11%	11.90%	8.13%	7.54%	5.95%
Global Weather Corp	16.46%	13.30%	10.71%	2.77%	1.99%	4.76%
MeteoGroup	5.36%	10.92%	19.05%			
Microsoft						13.10%
OpenWeather				5.95%	1.19%	0.00%
Pelmorex	13.10%	7.14%	7.14%	8.33%	11.90%	9.92%
The Weather Channel	27.77%	39.68%	32.14%	48.21%	46.82%	35.92%
Weather News					0.00%	0.00%
Weather Trends					4.37%	0.39%
Weatherbit				2.38%	1.19%	1.19%
Weerplaza				9.52%	5.95%	4.76%
Wetter					3.57%	1.58%
World Weather Online	16.67%	2.38%	7.14%	4.76%	5.95%	16.67%
yr.no					2.38%	1.19%

Table 151: Middle East Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	8.00	6.00	8.00	6.50	4.00	1.50
AerisWeather				0.00	2.00	0.00
Dark Sky	2.00	3.00	4.00	4.00	1.00	2.00
Foreca/Vaisala	2.50	10.00	10.00	10.00	9.00	8.50
Global Weather Corp	8.50	7.00	11.50	2.00	3.00	1.20
MeteoGroup	5.00	3.00	9.00			
Microsoft						5.20
OpenWeather				4.00	2.00	0.00
Pelmorex	12.00	8.00	5.50	8.00	7.00	6.70
The Weather Channel	33.00	45.00	30.00	36.50	36.00	39.20
Weather News					0.00	0.00
Weather Trends					2.00	1.70
Weatherbit				4.00	1.00	0.00
Weerplaza				6.00	6.00	3.00
Wetter					4.00	1.00
World Weather Online	13.00	2.00	6.00	3.00	4.00	14.00
yr.no					3.00	0.00

Table 152: Middle East Six-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	9.52%	7.14%	9.52%	7.74%	4.76%	1.79%
AerisWeather				0.00%	2.38%	0.00%
Dark Sky	2.38%	3.57%	4.76%	4.76%	1.19%	2.38%
Foreca/Vaisala	2.98%	11.90%	11.90%	11.90%	10.71%	10.12%
Global Weather Corp	10.12%	8.33%	13.69%	2.38%	3.57%	1.43%
MeteoGroup	5.95%	3.57%	10.71%			
Microsoft						6.19%
OpenWeather				4.76%	2.38%	0.00%
Pelmorex	14.29%	9.52%	6.55%	9.52%	8.33%	7.98%
The Weather Channel	39.29%	53.57%	35.71%	43.45%	42.86%	46.67%
Weather News					0.00%	0.00%
Weather Trends					2.38%	2.02%
Weatherbit				4.76%	1.19%	0.00%
Weerplaza				7.14%	7.14%	3.57%
Wetter					4.76%	1.19%
World Weather Online	15.48%	2.38%	7.14%	3.57%	4.76%	16.67%
yr.no					3.57%	0.00%

Table 153: Middle East Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	3.33	7.67	9.00	4.00	6.83	2.50
AerisWeather				0.00	1.00	0.00
Dark Sky	1.00	1.00	2.00	7.00	1.00	0.00
Foreca/Vaisala	3.00	12.00	10.00	10.00	8.00	11.00
Global Weather Corp	9.83	2.67	5.00	6.00	0.00	2.33
Microsoft						5.00
OpenWeather				4.00	0.00	0.00
Pelmorex	15.50	11.17	12.00	6.00	9.67	6.00
The Weather Channel	36.33	45.50	41.00	37.50	36.00	38.33
Weather News						0.00
Weather Trends					3.33	1.83
Weatherbit				2.00	0.00	1.00
Weerplaza				4.50	5.67	1.00
Wetter					4.50	1.00
World Weather Online	15.00	4.00	5.00	3.00	5.00	14.00
yr.no					3.00	0.00

Table 154: Middle East Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	3.96%	9.13%	10.71%	4.76%	8.13%	2.98%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	1.19%	1.19%	2.38%	8.33%	1.19%	0.00%
Foreca/Vaisala	3.57%	14.29%	11.90%	11.90%	9.52%	13.10%
Global Weather Corp	11.70%	3.18%	5.95%	7.14%	0.00%	2.77%
Microsoft						5.95%
OpenWeather				4.76%	0.00%	0.00%
Pelmorex	18.45%	13.30%	14.29%	7.14%	11.51%	7.14%
The Weather Channel	43.25%	54.17%	48.81%	44.64%	42.86%	45.63%
Weather News						0.00%
Weather Trends					3.96%	2.18%
Weatherbit				2.38%	0.00%	1.19%
Weerplaza				5.36%	6.75%	1.19%
Wetter					5.36%	1.19%
World Weather Online	17.86%	4.76%	5.95%	3.57%	5.95%	16.67%
yr.no					3.57%	0.00%

Table 155: Middle East Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	9.00	8.00	6.00	4.00	6.25	1.00
AerisWeather				1.00	2.00	0.00
Foreca/Vaisala	3.00	10.00	14.83	5.00	7.00	10.00
Global Weather Corp	6.50	3.00	7.33	4.50	0.58	1.50
Microsoft						5.00
OpenWeather				7.00	1.00	1.00
Pelmorex	12.00	8.00	7.33	6.50	13.00	6.00
The Weather Channel	37.50	51.00	44.50	41.50	33.58	38.00
Weather News						0.00
Weather Trends					4.58	3.00
Weatherbit				5.00	0.00	0.00
Weerplaza				6.50	5.00	4.50
Wetter					4.00	2.00
World Weather Online	16.00	4.00	4.00	3.00	4.00	12.00
yr.no					3.00	0.00

Table 156: Middle East Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	10.71%	9.52%	7.14%	4.76%	7.44%	1.19%
AerisWeather				1.19%	2.38%	0.00%
Foreca/Vaisala	3.57%	11.90%	17.65%	5.95%	8.33%	11.90%
Global Weather Corp	7.74%	3.57%	8.73%	5.36%	0.69%	1.79%
Microsoft						5.95%
OpenWeather				8.33%	1.19%	1.19%
Pelmorex	14.29%	9.52%	8.73%	7.74%	15.48%	7.14%
The Weather Channel	44.64%	60.71%	52.98%	49.40%	39.98%	45.24%
Weather News						0.00%
Weather Trends					5.45%	3.57%
Weatherbit				5.95%	0.00%	0.00%
Weerplaza				7.74%	5.95%	5.36%
Wetter					4.76%	2.38%
World Weather Online	19.05%	4.76%	4.76%	3.57%	4.76%	14.29%
yr.no					3.57%	0.00%

Table 157: Middle East Eight-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.00	6.67	7.00	2.00	5.00	1.00
AerisWeather				0.00	0.00	0.00
Foreca/Vaisala	5.00	8.00	13.50	9.00	13.00	9.50
Global Weather Corp	7.50	5.00	5.00	4.50	3.00	5.33
Microsoft						6.00
OpenWeather				8.00	3.00	1.00
Pelmorex	14.50	10.33	6.50	10.50	10.00	9.00
The Weather Channel	37.00	53.00	48.00	39.00	30.00	31.50
Weather News						1.33
Weather Trends					3.00	3.33
Weatherbit				2.00	1.00	0.00
Weerplaza				5.00	6.00	3.00
Wetter					5.00	2.00
World Weather Online	14.00	1.00	4.00	4.00	5.00	11.00
yr.no					0.00	0.00

Table 158: Middle East Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.14%	7.94%	8.33%	2.38%	5.95%	1.19%
AerisWeather				0.00%	0.00%	0.00%
Foreca/Vaisala	5.95%	9.52%	16.07%	10.71%	15.48%	11.31%
Global Weather Corp	8.93%	5.95%	5.95%	5.36%	3.57%	6.35%
Microsoft						7.14%
OpenWeather				9.52%	3.57%	1.19%
Pelmorex	17.26%	12.30%	7.74%	12.50%	11.90%	10.71%
The Weather Channel	44.05%	63.10%	57.14%	46.43%	35.71%	37.50%
Weather News						1.58%
Weather Trends					3.57%	3.96%
Weatherbit				2.38%	1.19%	0.00%
Weerplaza				5.95%	7.14%	3.57%
Wetter					5.95%	2.38%
World Weather Online	16.67%	1.19%	4.76%	4.76%	5.95%	13.10%
yr.no					0.00%	0.00%

Table 159: Middle East Nine-Day-Out Forecast First-Place Percentages



## Asia/Pacific Region Skill Summary

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In terms of the absolute number of first-place points earned for each day out/year combination from 2017–2022 and one through nine days out, no other regions showcased the dominance of The Weather Channel like Asia/Pacific and the United States. In both cases, The Weather Channel finished with the greatest number of first-place points in all but one combination. For Asia/Pacific, that was two days out in 2017, when Global Weather Corporation edged out The Weather Channel and Pelmorex for the greatest number. Ever since, The Weather Channel has finished with the greatest number of first-place points for all days out in the Asia/Pacific region. The numbers of first-place points for Global Weather Corporation have decreased significantly since a strong year in 2017.

Overall, for the Asia/Pacific region, The Weather Channel finished with 39.87% of all first-place points for all nine days out combined, with Pelmorex in second with only 12.73%. World Weather Online was third with 10.48%.

Relative to the maximum number of possible first-place points for each provider based on their own metrics in which they competed, The Weather Channel had the greatest percentage in 50 of the 54 day out/year combinations. Global Weather Corporation claimed the other four during their strong short-term forecasts in 2017 one through three days out, and one day out in 2018, due to the more limited metrics in which they competed.

All nine days out saw The Weather Channel claim the greatest number of first-place finishes. Pelmorex claimed the second greatest for two through nine days out and the third greatest for one day out, while World Weather Online claimed the most for one day out and the third highest for two through nine days out.

Six providers competed in at least 50% of metrics for the Middle East: AccuWeather, Pelmorex, World Weather Online, The Weather Channel, Foreca/Vaisala, and Dark Sky (all had forecasts for 77% or more of the total of 4536 possible metrics). Five additional providers competed in 45–50% of metrics: AeriWeather, Global Weather Corporation, Weatherbit, Weerplaza, and OpenWeather.

Table 161 through Table 178 show the total number of first-place finishes and percentages of total possible points for each weather forecast provider and forecast day out for the Asia/Pacific region.

## Individual Metrics

Table 160 shows the forecast providers with the highest average first-place points for each metric group by year in the Asia/Pacific region.

Asia/Pacific	2017	2018	2019	2020	2021	2022	Overall
<b>Overall</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>High Temperature</b>	Global Weather Corp.	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Low Temperature</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>
<b>Opacity</b>	World Weather Online	The Weather Channel	World Weather Online	World Weather Online	Wetter-Online	World Weather Online	<b>World Weather Online</b>
<b>Precipitation</b>	Global Weather Corp. and The Weather Channel	The Weather Channel	The Weather Channel	Dark Sky	Foreca/Vaisala	Foreca/Vaisala	<b>The Weather Channel</b>
<b>POP</b>	Pelmorex	Pelmorex	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	Foreca/Vaisala	<b>Foreca/Vaisala</b>
<b>Winds</b>	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	The Weather Channel	<b>The Weather Channel</b>

Table 160: Weather Providers with Highest Average First-Place Points Each Year for Each Metric Group, Asia/Pacific

## High Temperature

Other than for Microsoft for one and two days out in 2022, The Weather Channel finished with the most first-place finishes for all day out/year combinations in 2021 and 2022. For every year, Global Weather Corporation also finished with the most 12 times—tying The Weather Channel once—from 2017–2020, while The Weather Channel finished with the most 41 times.

The Weather Channel was thus able to increase its lead a little for high temperatures for all six years combined, earning a total of 377.05 first-place finishes (38.79%). Global Weather Corporation, in second, racked up 242.15 first-place finishes (24.91%), and Pelmorex in third had 146.58 (15.08%).

The Weather Channel was thus first for nearly every day out, with the exception of three days out when Global Weather Corporation only slightly edged them out for the most. Global Weather Corporation finished with the second greatest number of first-place points on every other day out except two days out, when they were edged out by Pelmorex for the second greatest. The third greatest number of first-place finishes was earned by MeteoGroup for one day out, Global Weather Corporation for two days out, and Pelmorex for three through nine days out.

## Low Temperature

Low temperatures in Asia and the Pacific were dominated by The Weather Channel, just as they were in the previous report. This provider led with the most first-place finishes in every single day out/year combination in the six years from 2017–2022.

It follows then that they also had the most first-place finishes for all nine days out. Pelmorex had the second most for all nine days out. Global Weather Corporation earned the third most points for one through eight days out, while AccuWeather earned the third most for three, eight (tie) and nine days out.

The Weather Channel then had the most first-place finishes of any provider for Asia/Pacific low temperatures with 586.39 (60.33% of the maximum possible). Pelmorex was a distant second with 159.83 (16.44%), while Global Weather Corporation was third with 79.47 (8.18%).

## Opacity

World Weather Online continued to maintain, and in fact increase, its lead when it came to opacity forecasting for the Asia/Pacific region, with the most first-place finishes for 15 of the 18 day out/year combinations in 2021 and 2022. WetterOnline had three and Wetter had two, each tying World Weather Online once.

Overall for the six years, World Weather Online had 375 total first-place finishes, 49.60% of the total, increasing their share from 44% in the previous report. The Weather Channel was second with 13.76% (104 points) and Pelmorex was third with 9.13% (69 points).

World Weather Online finished with the greatest number of first-place points for all nine days out throughout the six years since 2017. MeteoGroup, as in the previous report, had the second greatest for one through three days out, with The Weather Channel again taking over the second greatest for four through nine days out. The third highest belonged to WetterOnline for one through three days out (The Weather Channel also tied for the third greatest for one day out), Wetter for four days out, Pelmorex for five, and seven through nine days out, and Dark Sky for six days out.

## **Precipitation**

Foreca/Vaisala finished with the most first-place points for 24-hour precipitation for one through eight days out in both 2021 and 2022. The Weather Channel had the most for nine days out in both years. This allowed Foreca/Vaisala to climb, having the second highest total points for 2017–2022 (42 points, a 15.56% share). The Weather Channel remained first with 74 points (27.41%). World Weather Online was third with 37 points (13.70%).

The Weather Channel claimed the most first-place finishes for two through nine days out, though two days out was a four-way tie among them, Foreca/Vaisala, Global Weather Corporation, and World Weather Online. Four days out saw a three-way tie for the greatest share of first-place finishes between The Weather Channel, Dark Sky, and Foreca/Vaisala. Global Weather Corporation claimed the most for one day out.

The second most first-place finishes were claimed by Foreca/Vaisala for one, three, and five through eight days out, with World Weather Online tying them for the second most for one and three days out. World Weather Online also tied AccuWeather for the most for nine days out. The third most belonged to World Weather Online for five through eight days out, although Dark Sky tied them for five days out and AccuWeather tied them for eight days out.

## **Probability of Precipitation**

Foreca/Vaisala had the most first-place finishes as well for POP in the Asia/Pacific region in 2021 and 2022 and all days out except one day out in 2021, when WetterOnline earned the most. Pelmorex also tied them for the most in 2021 for nine days out.

Continuing their great performance in the precipitation and POP metrics, Foreca/Vaisala thus had the most first-place finishes for the entire 2017–2022 period with 245 (34.90% of the total). Pelmorex was second with 146 (a 20.80% share), and The Weather Channel was third with 79 (a 11.25% share).

Foreca/Vaisala thus had the most first-place finishes for all days out except nine days out, for which they had the second most and Pelmorex had the most. Pelmorex had the second most for one through eight days out. The third most belonged to The Weather Channel for one through three, five, and six days out, shared in a tie with World Weather Online for two days out, MeteoGroup for four days out, and AccuWeather for seven through nine days out.

## **Winds**

The Weather Channel was about as dominant in wind forecasting for the Asia/Pacific region as in most other regions, earning the most first-place finishes for every day out and every year from 2017–2022. Dark Sky was the sole competitor that tied them once, for one day out in 2020.

This of course means that The Weather Channel finished in first place the most for all six years combined as well as for every day out. It had 588 total first-place finishes, which is a 68.06% share of the maximum possible. In a far distant second place was AccuWeather with 90 points, just 10.42% of the total. Pelmorex was third with 56 first-place finishes (6.48%).

AccuWeather had the second most first-place finishes for every day out except eight and nine days out, for which they had the third most. Pelmorex had the second most for eight and nine days out, and the third most for two through seven days out. Dark Sky had the third most for one day out.

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.50	5.00	6.00	4.50	1.58	1.00
AerisWeather				1.00	0.00	0.00
Dark Sky	0.00	2.00	5.00	15.00	3.25	3.33
Foreca/Vaisala	2.00	6.00	5.00	5.00	6.33	11.00
Global Weather Corp	16.50	12.00	4.00	1.00	2.92	0.33
MeteoGroup	7.00	19.67	11.00			
Microsoft						15.33
OpenWeather				2.00	1.00	1.00
Pelmorex	18.00	7.67	7.00	10.00	6.00	5.00
The Weather Channel	20.00	23.67	38.00	27.50	34.00	22.00
Weather News					2.00	1.00
Weather Trends					1.92	2.00
Weatherbit				2.00	0.00	1.00
Weerplaza				7.00	1.00	2.00
Wetter					3.00	0.00
WetterOnline					11.00	3.00
World Weather Online	13.00	8.00	8.00	9.00	9.00	15.00
yr.no					1.00	1.00

Table 161: Asia/Pacific One-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	8.93%	5.95%	7.14%	5.36%	1.88%	1.19%
AerisWeather				1.19%	0.00%	0.00%
Dark Sky	0.00%	2.38%	5.95%	17.86%	3.87%	3.96%
Foreca/Vaisala	2.38%	7.14%	5.95%	5.95%	7.54%	13.10%
Global Weather Corp	19.64%	14.29%	4.76%	1.19%	3.48%	0.39%
MeteoGroup	8.33%	23.42%	13.10%			
Microsoft						18.25%
OpenWeather				2.38%	1.19%	1.19%
Pelmorex	21.43%	9.13%	8.33%	11.90%	7.14%	5.95%
The Weather Channel	23.81%	28.18%	45.24%	32.74%	40.48%	26.19%
Weather News					2.38%	1.19%
Weather Trends					2.29%	2.38%
Weatherbit				2.38%	0.00%	1.19%
Weerplaza				8.33%	1.19%	2.38%
Wetter					3.57%	0.00%
WetterOnline					13.10%	3.57%
World Weather Online	15.48%	9.52%	9.52%	10.71%	10.71%	17.86%
yr.no					1.19%	1.19%

Table 162: Asia/Pacific One-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	6.00	3.50	6.00	1.50	0.00
AerisWeather				1.00	1.00	0.50
Dark Sky	2.00	1.00	1.33	7.00	1.50	2.00
Foreca/Vaisala	2.00	4.00	6.00	8.00	10.00	11.00
Global Weather Corp	18.50	3.50	1.33	3.50	1.33	2.50
MeteoGroup	8.50	15.50	12.50			
Microsoft						11.50
OpenWeather				0.00	0.00	0.00
Pelmorex	17.00	11.50	12.00	9.00	8.00	9.00
The Weather Channel	17.00	34.50	39.33	29.50	36.83	27.50
Weather News					2.00	1.00
Weather Trends					0.83	1.00
Weatherbit				4.00	0.00	0.50
Weerplaza				7.00	2.00	2.00
Wetter					3.00	0.00
WetterOnline					8.00	2.00
World Weather Online	14.00	8.00	8.00	9.00	7.00	13.00
yr.no					1.00	0.50

Table 163: Asia/Pacific Two-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	7.14%	4.17%	7.14%	1.79%	0.00%
AerisWeather				1.19%	1.19%	0.60%
Dark Sky	2.38%	1.19%	1.58%	8.33%	1.79%	2.38%
Foreca/Vaisala	2.38%	4.76%	7.14%	9.52%	11.90%	13.10%
Global Weather Corp	22.02%	4.17%	1.58%	4.17%	1.58%	2.98%
MeteoGroup	10.12%	18.45%	14.88%			
Microsoft						13.69%
OpenWeather				0.00%	0.00%	0.00%
Pelmorex	20.24%	13.69%	14.29%	10.71%	9.52%	10.71%
The Weather Channel	20.24%	41.07%	46.82%	35.12%	43.85%	32.74%
Weather News					2.38%	1.19%
Weather Trends					0.99%	1.19%
Weatherbit				4.76%	0.00%	0.60%
Weerplaza				8.33%	2.38%	2.38%
Wetter					3.57%	0.00%
WetterOnline					9.52%	2.38%
World Weather Online	16.67%	9.52%	9.52%	10.71%	8.33%	15.48%
yr.no					1.19%	0.60%

Table 164: Asia/Pacific Two-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.33	5.75	6.25	5.50	3.50	0.00
AerisWeather				0.00	1.00	1.00
Dark Sky	3.00	1.00	6.00	7.00	1.00	2.00
Foreca/Vaisala	2.33	4.25	8.75	9.00	8.00	7.00
Global Weather Corp	18.50	9.58	4.50	7.00	3.33	2.50
MeteoGroup	6.00	13.33	7.25			
Microsoft						9.00
OpenWeather				1.00	0.00	0.00
Pelmorex	14.00	9.25	9.00	9.50	7.00	10.00
The Weather Channel	18.83	32.83	35.25	27.00	33.83	27.50
Weather News					1.00	1.00
Weather Trends					4.33	2.00
Weatherbit				4.00	0.00	0.00
Weerplaza				5.00	1.00	3.00
Wetter					1.00	0.00
WetterOnline					12.00	5.00
World Weather Online	15.00	8.00	7.00	9.00	6.00	13.00
yr.no					1.00	1.00

Table 165: Asia/Pacific Three-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.54%	6.85%	7.44%	6.55%	4.17%	0.00%
AerisWeather				0.00%	1.19%	1.19%
Dark Sky	3.57%	1.19%	7.14%	8.33%	1.19%	2.38%
Foreca/Vaisala	2.77%	5.06%	10.42%	10.71%	9.52%	8.33%
Global Weather Corp	22.02%	11.40%	5.36%	8.33%	3.96%	2.98%
MeteoGroup	7.14%	15.87%	8.63%			
Microsoft						10.71%
OpenWeather				1.19%	0.00%	0.00%
Pelmorex	16.67%	11.01%	10.71%	11.31%	8.33%	11.90%
The Weather Channel	22.42%	39.08%	41.96%	32.14%	40.27%	32.74%
Weather News					1.19%	1.19%
Weather Trends					5.15%	2.38%
Weatherbit				4.76%	0.00%	0.00%
Weerplaza				5.95%	1.19%	3.57%
Wetter					1.19%	0.00%
WetterOnline					14.29%	5.95%
World Weather Online	17.86%	9.52%	8.33%	10.71%	7.14%	15.48%
yr.no					1.19%	1.19%

Table 166: Asia/Pacific Three-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.50	5.83	7.00	5.83	5.50	0.00
AerisWeather				0.00	2.00	0.00
Dark Sky	3.00	2.00	4.00	9.00	0.50	1.00
Foreca/Vaisala	1.00	4.00	8.00	9.33	10.00	10.33
Global Weather Corp	12.50	9.83	7.50	4.00	3.50	5.33
MeteoGroup	7.50	6.50	7.00			
Microsoft						5.00
OpenWeather				2.00	1.00	0.00
Pelmorex	14.00	13.50	9.00	7.00	6.00	6.00
The Weather Channel	25.50	34.33	34.50	32.83	33.00	31.50
Weather News					2.50	1.00
Weather Trends					2.00	3.33
Weatherbit				3.00	2.00	2.00
Weerplaza				5.00	1.00	3.50
Wetter					9.00	0.00
World Weather Online	15.00	8.00	7.00	6.00	5.00	13.00
yr.no					1.00	2.00

Table 167: Asia/Pacific Four-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	6.55%	6.94%	8.33%	6.94%	6.55%	0.00%
AerisWeather				0.00%	2.38%	0.00%
Dark Sky	3.57%	2.38%	4.76%	10.71%	0.60%	1.19%
Foreca/Vaisala	1.19%	4.76%	9.52%	11.11%	11.90%	12.30%
Global Weather Corp	14.88%	11.70%	8.93%	4.76%	4.17%	6.35%
MeteoGroup	8.93%	7.74%	8.33%			
Microsoft						5.95%
OpenWeather				2.38%	1.19%	0.00%
Pelmorex	16.67%	16.07%	10.71%	8.33%	7.14%	7.14%
The Weather Channel	30.36%	40.87%	41.07%	39.08%	39.29%	37.50%
Weather News					2.98%	1.19%
Weather Trends					2.38%	3.96%
Weatherbit				3.57%	2.38%	2.38%
Weerplaza				5.95%	1.19%	4.17%
Wetter					10.71%	0.00%
World Weather Online	17.86%	9.52%	8.33%	7.14%	5.95%	15.48%
yr.no					1.19%	2.38%

Table 168: Asia/Pacific Four-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	4.00	7.50	9.33	8.00	2.25	0.00
AerisWeather				0.00	1.00	0.00
Dark Sky	4.00	1.00	3.50	9.50	1.50	2.00
Foreca/Vaisala	1.00	3.00	4.00	6.00	10.00	11.00
Global Weather Corp	11.00	8.50	5.00	3.00	4.25	4.83
MeteoGroup	8.50	9.00	5.33			
Microsoft						5.00
OpenWeather				1.00	1.00	1.00
Pelmorex	14.00	11.00	14.00	10.00	7.00	6.00
The Weather Channel	26.50	38.00	37.83	35.50	34.25	32.83
Weather News					2.00	1.00
Weather Trends					3.75	1.33
Weatherbit				3.00	1.00	1.00
Weerplaza				2.00	3.00	3.00
Wetter					6.00	1.00
World Weather Online	15.00	6.00	5.00	6.00	5.00	12.00
yr.no					2.00	2.00

Table 169: Asia/Pacific Five-Day-Out Forecast First-Place Points



Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	4.76%	8.93%	11.11%	9.52%	2.68%	0.00%
AerisWeather				0.00%	1.19%	0.00%
Dark Sky	4.76%	1.19%	4.17%	11.31%	1.79%	2.38%
Foreca/Vaisala	1.19%	3.57%	4.76%	7.14%	11.90%	13.10%
Global Weather Corp	13.10%	10.12%	5.95%	3.57%	5.06%	5.75%
MeteoGroup	10.12%	10.71%	6.35%			
Microsoft						5.95%
OpenWeather				1.19%	1.19%	1.19%
Pelmorex	16.67%	13.10%	16.67%	11.90%	8.33%	7.14%
The Weather Channel	31.55%	45.24%	45.04%	42.26%	40.77%	39.08%
Weather News					2.38%	1.19%
Weather Trends					4.46%	1.58%
Weatherbit				3.57%	1.19%	1.19%
Weerplaza				2.38%	3.57%	3.57%
Wetter					7.14%	1.19%
World Weather Online	17.86%	7.14%	5.95%	7.14%	5.95%	14.29%
yr.no					2.38%	2.38%

Table 170: Asia/Pacific Five-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	7.00	6.00	5.00	5.00	2.00	2.50
AerisWeather				0.00	0.00	0.00
Dark Sky	4.00	1.50	3.00	9.00	3.00	1.33
Foreca/Vaisala	2.00	3.00	4.00	4.00	11.25	13.00
Global Weather Corp	12.00	6.50	6.00	5.50	5.25	6.00
MeteoGroup	6.00	5.00	10.00			
Microsoft						2.00
OpenWeather				1.00	0.00	1.00
Pelmorex	12.00	13.00	11.00	12.00	7.00	6.00
The Weather Channel	29.00	43.00	40.00	36.50	34.00	34.33
Weather News					0.00	0.00
Weather Trends					6.25	1.00
Weatherbit				2.00	1.00	0.00
Weerplaza				2.00	4.25	2.83
Wetter					3.00	1.00
World Weather Online	12.00	6.00	5.00	7.00	6.00	11.00
yr.no					1.00	2.00

Table 171: Asia/Pacific Six-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	8.33%	7.14%	5.95%	5.95%	2.38%	2.98%
AerisWeather				0.00%	0.00%	0.00%
Dark Sky	4.76%	1.79%	3.57%	10.71%	3.57%	1.58%
Foreca/Vaisala	2.38%	3.57%	4.76%	4.76%	13.39%	15.48%
Global Weather Corp	14.29%	7.74%	7.14%	6.55%	6.25%	7.14%
MeteoGroup	7.14%	5.95%	11.90%			
Microsoft						2.38%
OpenWeather				1.19%	0.00%	1.19%
Pelmorex	14.29%	15.48%	13.10%	14.29%	8.33%	7.14%
The Weather Channel	34.52%	51.19%	47.62%	43.45%	40.48%	40.87%
Weather News					0.00%	0.00%
Weather Trends					7.44%	1.19%
Weatherbit				2.38%	1.19%	0.00%
Weerplaza				2.38%	5.06%	3.37%
Wetter					3.57%	1.19%
World Weather Online	14.29%	7.14%	5.95%	8.33%	7.14%	13.10%
yr.no					1.19%	2.38%

Table 172: Asia/Pacific Six-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	6.50	6.33	7.00	4.00	2.00	2.33
AerisWeather				0.00	0.00	1.00
Dark Sky	2.50	2.50	6.00	4.00	2.00	1.00
Foreca/Vaisala	2.33	6.00	5.50	4.33	12.00	14.00
Global Weather Corp	11.83	6.33	7.50	7.33	4.50	6.33
Microsoft						3.00
OpenWeather				3.33	2.00	0.00
Pelmorex	16.00	10.00	12.00	12.00	8.00	7.00
The Weather Channel	28.33	46.83	40.00	35.33	33.00	31.83
Weather News						0.00
Weather Trends					4.50	1.00
Weatherbit				4.33	0.00	0.00
Weerplaza				2.33	7.00	3.50
Wetter					3.00	0.00
World Weather Online	16.50	6.00	6.00	7.00	5.00	12.00
yr.no					1.00	1.00

Table 173: Asia/Pacific Seven-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	7.74%	7.54%	8.33%	4.76%	2.38%	2.77%
AerisWeather				0.00%	0.00%	1.19%
Dark Sky	2.98%	2.98%	7.14%	4.76%	2.38%	1.19%
Foreca/Vaisala	2.77%	7.14%	6.55%	5.15%	14.29%	16.67%
Global Weather Corp	14.08%	7.54%	8.93%	8.73%	5.36%	7.54%
Microsoft						3.57%
OpenWeather				3.96%	2.38%	0.00%
Pelmorex	19.05%	11.90%	14.29%	14.29%	9.52%	8.33%
The Weather Channel	33.73%	55.75%	47.62%	42.06%	39.29%	37.89%
Weather News						0.00%
Weather Trends					5.36%	1.19%
Weatherbit				5.15%	0.00%	0.00%
Weerplaza				2.77%	8.33%	4.17%
Wetter					3.57%	0.00%
World Weather Online	19.64%	7.14%	7.14%	8.33%	5.95%	14.29%
yr.no					1.19%	1.19%

Table 174: Asia/Pacific Seven-Day-Out Forecast First-Place Percentages

Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	5.00	7.33	5.00	5.00	5.00	2.50
AerisWeather				0.00	1.00	1.00
Foreca/Vaisala	2.00	4.00	6.00	6.00	12.00	12.00
Global Weather Corp	5.00	6.33	6.00	7.00	3.50	8.00
Microsoft						1.00
OpenWeather				5.00	3.00	1.00
Pelmorex	22.00	13.00	15.00	12.00	8.00	7.00
The Weather Channel	35.00	47.33	47.00	33.00	31.00	32.00
Weather News						1.00
Weather Trends					4.50	1.00
Weatherbit				2.00	1.00	0.00
Weerplaza				7.00	5.00	4.50
Wetter					4.00	0.00
World Weather Online	15.00	6.00	5.00	7.00	5.00	11.00
yr.no					1.00	2.00

Table 175: Asia/Pacific Eight-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	5.95%	8.73%	5.95%	5.95%	5.95%	2.98%
AerisWeather				0.00%	1.19%	1.19%
Foreca/Vaisala	2.38%	4.76%	7.14%	7.14%	14.29%	14.29%
Global Weather Corp	5.95%	7.54%	7.14%	8.33%	4.17%	9.52%
Microsoft						1.19%
OpenWeather				5.95%	3.57%	1.19%
Pelmorex	26.19%	15.48%	17.86%	14.29%	9.52%	8.33%
The Weather Channel	41.67%	56.35%	55.95%	39.29%	36.90%	38.10%
Weather News						1.19%
Weather Trends					5.36%	1.19%
Weatherbit				2.38%	1.19%	0.00%
Weerplaza				8.33%	5.95%	5.36%
Wetter					4.76%	0.00%
World Weather Online	17.86%	7.14%	5.95%	8.33%	5.95%	13.10%
yr.no					1.19%	2.38%

Table 176: Asia/Pacific Eight-Day-Out Forecast First-Place Percentages



Provider	2017 Points	2018 Points	2019 Points	2020 Points	2021 Points	2022 Points
AccuWeather	4.00	6.00	11.33	7.00	8.00	3.00
AerisWeather				0.00	3.00	2.00
Foreca/Vaisala	4.00	6.00	5.00	4.00	5.33	4.00
Global Weather Corp	6.00	4.50	6.33	7.00	2.33	6.50
Microsoft						1.00
OpenWeather				4.00	2.00	1.00
Pelmorex	20.00	17.00	13.50	11.00	9.50	7.00
The Weather Channel	36.00	45.50	42.83	37.00	32.00	36.00
Weather News						0.00
Weather Trends					6.83	2.50
Weatherbit				3.00	0.00	3.00
Weerplaza				5.00	5.00	4.00
Wetter					4.00	0.00
World Weather Online	14.00	5.00	5.00	6.00	4.00	11.00
yr.no					2.00	3.00

Table 177: Asia/Pacific Nine-Day-Out Forecast First-Place Points

Provider	2017 Percent	2018 Percent	2019 Percent	2020 Percent	2021 Percent	2022 Percent
AccuWeather	4.76%	7.14%	13.49%	8.33%	9.52%	3.57%
AerisWeather				0.00%	3.57%	2.38%
Foreca/Vaisala	4.76%	7.14%	5.95%	4.76%	6.35%	4.76%
Global Weather Corp	7.14%	5.36%	7.54%	8.33%	2.77%	7.74%
Microsoft						1.19%
OpenWeather				4.76%	2.38%	1.19%
Pelmorex	23.81%	20.24%	16.07%	13.10%	11.31%	8.33%
The Weather Channel	42.86%	54.17%	50.99%	44.05%	38.10%	42.86%
Weather News						0.00%
Weather Trends					8.13%	2.98%
Weatherbit				3.57%	0.00%	3.57%
Weerplaza				5.95%	5.95%	4.76%
Wetter					4.76%	0.00%
World Weather Online	16.67%	5.95%	5.95%	7.14%	4.76%	13.10%
yr.no					2.38%	3.57%

Table 178: Asia/Pacific Nine-Day-Out Forecast First-Place Percentages

## About ForecastWatch.com

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ForecastWatch, a service of Intellovations, LLC, has been the world’s premier weather forecast monitoring and analytics company since 2003. Our passion for data drives us every day. We collect weather forecast data from several thousand locations throughout the U.S. and around the world. This information is added to an ever-growing and unparalleled historical database of more than one billion weather forecasts gathered from dozens of weather forecast providers and systems.

We use this vast collection of data to evaluate and compare weather forecast providers, improve decision-making by governments and business entities affected by weather, improve weather forecasting by meteorologists around the world, and educate customers with unbiased reporting. We strive to improve and expand our offerings to meet the needs of our current and future clients, finding ways to partner with them to help them evaluate their own deliverables, keep their customers safe, or help make business-critical decisions by analyzing weather forecasts to positively affect revenue, operating costs, and risk mitigation costs.

Meteorologists, utilities, and energy companies depend on ForecastWatch’s accurate data and analysis. Agriculture, futures traders, and other companies whose business depends on being right about the weather put their trust in us to help them achieve success. Even consumers benefit from our ForecastAdvisor product. Our data meets the highest standard of scientific inquiry and has been used in several peer-reviewed studies.

## Disclosure and Grant of License

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