North America Aviation Weather Forecasting System Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - Component (Hardware, Software, and Services), Application (Weather Stations, Weather Drones, Weather Balloons, and Others), and Forecast Type (Short Range, Medium Range, Extended Range, and Long Range)

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Report description:

The aviation weather forecasting system market in North America is expected to grow from US$ 258.29 million in 2022 to US$ 377.04 million by 2028; it is estimated to grow at a CAGR of 6.5% from 2022 to 2028.

The introduction and adoption of electronic systems related to weather forecasting are driving the market vendors to develop innovative products and cater to the burgeoning demand. Further, several airports are taking initiatives to install electronic weather monitoring systems across their runways and airport premises to attain safer operations across the facilities. The vendors across the aviation weather forecasting system market are also focusing on developing AI-based software systems to provide better visual and graphical representations for an aviation weather forecasting report. The installation of electronic and automated systems across airports is another major factor demanding the deployment of electronic and digital systems for weather forecasting and analytics to minimize the manual errors. Such factors are propelling the aviation forecasting systems market growth.

Furthermore, the traditional forecast process involved outsourcing metrological forecast services that involved a lot of text-based paperwork that also used numerical weather prediction. This process was typically schedule-driven, product-oriented, and labor-intensive. Since the past decade, weather forecasting has transformed drastically with the implementation of technologies that provide much more accurate data in terms of weather forecasts. Computer technologies, electronic systems, and high-speed disseminating systems (e.g., the internet) are evolving the weather forecasting operations to much better and more accurate results. Further, the electronic systems provide output in user-friendly, digital, and graphical formats that are more feasible and

informative for the reader or analyst. Such factors are catalyzing the adoption of electronic aviation weather forecast systems, thereby catalyzing the aviation weather forecasting system market growth.
North America Aviation Weather Forecasting System Market Revenue and Forecast to 2028 (US$ Million)

North America Aviation Weather Forecasting System Market Segmentation
The North America aviation weather forecasting system market is segmented on the basis of component, application, forecast type, and country. Based on component, the market is segmented into hardware, software, and services. In 2022, the hardware segment held the largest share of the market and is expected to register the highest CAGR during the forecast period. By application, the North America aviation weather forecasting system market is categorized into weather stations, weather drones, weather balloons, and others. The weather stations segment held the largest market share in 2022, and the weather drones segment is expected to register the highest CAGR in the market during the forecast period. In terms of forecast type, the North America aviation weather forecasting system market is segmented into short-range, medium-range, extended-range, and long-range. The short-range segment held the largest market share in 2022 and is expected to register the highest CAGR in the market during the forecast period. From country point of reference, the North America aviation weather forecasting system market is divided into the US, Canada, and Mexico. In 2022, the US held the largest market share and is expected to register the highest CAGR during the forecast period.
Campbell Scientific, Inc.; Collins Aerospace; IBM Corporation; Universal Weather and Aviation, Inc.; Sutron; UBIMET; Vaisala; DTN; and Spire Global are among the leading companies operating in the North America aviation weather forecasting system market.

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