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Global Low-Altitude Meteorological Data Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Low-Altitude Meteorological Data market size was valued at US$ 611 million in 2025 and is forecast to a readjusted size of US$ 2113 million by 2032 with a CAGR of 19.3% during review period.

Low-Altitude Meteorological Data refers to commercially deliverable meteorological observations, analyses, nowcasts, forecasts, and flight-risk datasets covering the airspace from the surface to approximately 1,500 meters above ground level, with the most operationally intensive layer generally located below 500 meters. Core products include basic atmospheric state data, wind and turbulence data, cloud, precipitation and visibility data, hazardous weather phenomena data, vertical atmospheric profiles, and three-dimensional atmospheric fields. These datasets are generated through quality control, multi-source data assimilation, numerical weather prediction, computational fluid dynamics, artificial intelligence, and high-resolution downscaling, and are delivered through APIs, gridded files, map layers, databases, or standardized annual data subscriptions. Key technical parameters include horizontal and vertical resolution, update interval, forecast horizon, supported altitude, latency, data accuracy, and service availability. The research scope focuses on data products supporting drone logistics, infrastructure inspection, public safety, UTM and U-space operations, advanced air mobility, agricultural operations, surveying, and low-altitude tourism. Low-Altitude Meteorological Data occupies the commercial data layer between meteorological observation infrastructure and downstream flight-operation systems, converting atmospheric measurements and forecast outputs into structured information that can be integrated into route planning, flight authorization, fleet scheduling, risk assessment, and automated flight-suitability decisions.

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Key Findings

Three-dimensional atmospheric field data commands premium pricing over basic point-based weather feeds

Drone logistics, infrastructure inspection, public safety and UTM represent the principal commercial demand base

Market Trends

Low-Altitude Meteorological Data is evolving from general weather information toward route-specific, altitude-specific, and aircraft-specific operational datasets. Lightweight drones and eVTOL aircraft are highly sensitive to gusts, turbulence, wind shear, low clouds, precipitation and rapidly changing urban microclimates, creating demand for weather information with substantially higher spatial and temporal resolution than conventional regional forecasts. Product development is increasingly based on the fusion of automatic weather stations, radar, wind lidar, satellites, UAV observations, terrain models and building data, supported by hybrid numerical weather prediction, computational fluid dynamics and artificial intelligence architectures. The output format is also changing from static weather maps toward streaming APIs, three-dimensional atmospheric grids, digital-twin layers and automated flight-risk indices. China has already demonstrated three-dimensional wind-field products with meter-level vertical resolution and minute-level updates, while European U-space rules have formalized weather information as an operational service requiring identifiable sources, suitable data quality and timely updates. The long-term product direction is therefore shifting from presenting atmospheric variables to translating weather conditions into executable decisions covering route selection, altitude adjustment, energy consumption, payload limits, take-off windows and go or no-go recommendations.

Market Dynamics

Drivers

The principal driver is the transition of low-altitude aviation from occasional manually controlled missions to recurring, automated and increasingly beyond-visual-line-of-sight

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operations. Higher flight density increases the economic cost of cancellations, diversions and conservative operating limits, encouraging operators to purchase localized weather data that can improve aircraft utilization and mission completion rates. The expansion of drone logistics, emergency response, infrastructure inspection and urban air mobility is also creating demand for continuous weather coverage along routes rather than isolated observations at airports or take-off points. Regulatory development provides an additional structural driver. European U-space provisions require weather information capable of supporting UAS operational decisions, while Chinese low-altitude demonstration projects are integrating high-frequency meteorological data into flight planning, risk warnings and operating supervision. Official Chinese project results also indicate that precision weather support can extend effective operating windows and improve logistics efficiency, strengthening the commercial case for data subscriptions.

Restraints

Market development is constrained by the limited density of vertical atmospheric observations and the difficulty of forecasting weather around buildings, mountains, coastlines and other complex terrain. High-resolution three-dimensional products require continuous access to local observation networks, terrain and building models, substantial computing resources and frequent model calibration, making deployment costs materially higher than those of conventional weather APIs. The commercial boundary between public meteorological data and value-added private products also remains uneven across countries. Basic observations and forecasts are often available from government sources, which limits pricing power for standardized data feeds and requires suppliers to demonstrate measurable improvements in localization, latency, accuracy or operational relevance. Smaller drone operators may be reluctant to purchase dedicated subscriptions before flight volumes become sufficient to produce a clear return on investment, while public-sector projects can involve lengthy procurement, data-security reviews and localized deployment requirements.

Opportunities

The most attractive opportunities are emerging in city-level low-altitude infrastructure, cross-city flight corridors, vertiport networks and automated fleet-management systems. These applications require persistent weather coverage across points, routes and three-dimensional operating areas, creating recurring demand for standardized data subscriptions rather than one-time forecasting projects. Further opportunities exist in

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aircraft-specific risk models that combine meteorological data with vehicle weight, battery condition, wind tolerance, payload and route geometry. Such products can support dynamic route planning, energy-reserve calculations and automated operating limits, increasing their value relative to generic weather feeds. Meteorological data may also be embedded in low-altitude insurance, operational certification, infrastructure siting and digital-twin services. Shenzhen has already applied localized low-altitude forecasts to weather-related insurance and route risk assessment, indicating that commercial value can extend beyond flight operators to insurers, infrastructure owners and public management platforms.

Challenges

The industry faces long-term challenges in data standardization, quality verification, responsibility allocation and interoperability. Different suppliers may produce materially different wind, turbulence or visibility estimates for the same location, while operators require consistent thresholds that can be directly mapped to aircraft limitations. The lack of globally harmonized requirements for horizontal resolution, vertical resolution, latency, update frequency and forecast validation complicates procurement and cross-border deployment. Suppliers must also establish traceable data provenance and determine responsibility when inaccurate or delayed information contributes to operational disruption. EASA guidance emphasizes trusted or validated weather sources and identification of data provenance, demonstrating that quality governance will become a competitive requirement rather than an optional feature. At the same time, increasing availability of free public data and general-purpose artificial intelligence forecasting models may commoditize basic products, forcing commercial providers to compete through proprietary observations, local calibration, aviation-specific algorithms and integration into operational workflows.

Value Chain Analysis

The upstream value chain consists of national and regional meteorological observations, automatic weather stations, weather radar, wind lidar, satellites, radiosondes, UAV and aircraft measurements, as well as terrain, building and geospatial data. The quality and density of these inputs directly determine the ability to characterize low-level winds, vertical atmospheric structure and localized hazardous weather. Observation gaps in the lower atmosphere remain a major source of forecast uncertainty, encouraging suppliers to deploy proprietary sensors or acquire data from specialized observation networks. Meteomatics, for example, uses weather drones to

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collect vertical profiles of temperature, humidity, pressure and wind, illustrating how differentiated observations can strengthen the value of downstream data products.

The midstream layer performs data cleaning, assimilation, numerical modelling, computational fluid dynamics, artificial intelligence forecasting, downscaling, risk-index development and API packaging. Value is created by converting heterogeneous observations into reliable, high-frequency and operationally relevant datasets. Standardized APIs and reusable gridded products benefit from low incremental distribution costs and support relatively strong gross margins, while customized urban models, proprietary observation deployment, private-cloud implementation and continuous validation increase both contract value and delivery cost. Downstream users include commercial UAS operators, government and public-safety agencies, UTM and U-space service providers, eVTOL manufacturers, vertiport operators, infrastructure companies, agricultural operators, insurers and system integrators. Distribution is increasingly conducted through direct enterprise contracts, cloud APIs, software development kits and bundled integration with flight-management or traffic-management systems. The highest value is captured when meteorological data is embedded directly into authorization, routing, scheduling and aircraft-control workflows rather than delivered as an isolated weather feed.

Segment Insights

By data content, wind and turbulence products generally form the highest-value segment because low-altitude aircraft are particularly sensitive to localized wind fields, gusts, wind shear, building wakes and terrain-induced turbulence. Basic atmospheric state data generates broader usage volume but is more exposed to price competition from public and general-purpose weather feeds. Cloud, precipitation and visibility data remains essential for mission planning and real-time operating decisions, while hazardous weather phenomena data commands higher value in public safety, coastal operations and regions exposed to convection, lightning or icing. Comprehensive packages combining multiple data categories increasingly account for enterprise contracts because operators prefer a single interface and consistent risk methodology.

By spatial data structure, three-dimensional atmospheric field data is expected to record the strongest commercial expansion and generally carries higher unit pricing than point, surface or two-dimensional grid products. Vertical profile data is particularly important for take-off, landing, altitude selection and model calibration. By timeliness, real-time observation and nowcast products generate the highest recurring value because they

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require low latency, frequent updates and continuous service availability. Historical and reanalysis datasets are typically lower-priced but remain important for route design, aircraft testing, insurance modelling and operational-risk assessment. The interaction of content, spatial resolution and timeliness is increasingly important: a minute-level three-dimensional wind field represents a materially different commercial product from a conventional hourly surface forecast, even when both contain wind information.

Downstream Market Opportunities

Drone logistics is a leading commercial opportunity because weather directly influences route availability, battery consumption, payload capability and delivery reliability. Infrastructure inspection and public-safety users represent another important demand group, as their missions frequently occur near power lines, bridges, buildings, mountains or disaster areas where localized conditions differ from regional forecasts. UTM, U-space and advanced air mobility offer the strongest long-term integration opportunity because meteorological data can become a standard input to flight authorization, route allocation, separation management and vertiport operations. Agricultural aviation, surveying and low-altitude tourism provide additional demand but are generally more seasonal and price-sensitive. The market opportunity will increasingly favor suppliers capable of converting raw weather parameters into scenario-specific thresholds and delivering these results directly into existing fleet, dispatch and traffic-management systems. Official Chinese deployment cases have already extended low-altitude meteorological data into logistics, emergency response, agricultural operations and tourism, indicating that downstream adoption is broadening beyond pilot demonstrations.

Regional Insights

Asia-Pacific, led by China and Japan, represents the largest current demand pool in the report’s market model. China’s market is characterized by city-level low-altitude infrastructure construction, meteorological authority participation, government and state-owned enterprise procurement, and integration with local flight-service platforms. Shenzhen, Chengdu, Hangzhou and other cities have implemented high-resolution wind fields, route forecasts or operating-support projects, creating demand for localized data subscriptions and project-based data products. Japan has developed specialized drone-weather offerings for logistics and Level 4 beyond-visual-line-of-sight operations, supported by established private meteorological service providers. Asia-Pacific is also

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expected to remain the fastest-expanding region as low-altitude logistics, public-safety and urban-management applications move toward regular operation.

North America is distinguished by private-sector weather intelligence companies, drone-as-first-responder programs, BVLOS commercialization and advanced air mobility development. Demand is concentrated in API-based services, proprietary sensing, mission-risk analytics and integration with fleet-management systems. Europe is driven more directly by U-space regulation, data-quality requirements, vertiport planning and cross-border interoperability. Its commercial opportunity is closely linked to certified service provision and validated data sources. Regional expansion remains dependent on local observation access, meteorological regulation, data-localization requirements and the ability to calibrate models for specific terrain and urban environments, limiting the effectiveness of a single unmodified global product.

Competitive Landscape Analysis

The competitive landscape remains fragmented and consists of three principal supplier groups. Dedicated low-altitude weather specialists such as TruWeather Solutions and DM-AirTech focus on micro-weather, three-dimensional wind analysis, operational risk and drone or eVTOL workflows. Broader enterprise weather-data providers such as The Weather Company, Tomorrow.io, Meteomatics and Weathernews compete through extensive data coverage, established APIs, modelling capability, global customer channels and aviation experience. Chinese suppliers combine meteorological models, geospatial data, local observation resources and government or city-level project channels, with competition increasingly shifting toward standardized APIs, three-dimensional atmospheric products and scenario-specific risk services. No single competitive advantage is sufficient across all markets. Proprietary observations improve differentiation but raise capital and maintenance costs; global models provide scale but require local calibration; public-sector relationships facilitate infrastructure projects but may lengthen sales cycles; and low-cost APIs expand customer reach but face commoditization. The strongest market positions are likely to be held by suppliers that combine trusted data sources, validated forecast performance, high-resolution modelling, reliable service availability and direct integration into flight-management systems. The market is consequently moving from competition based on the volume of meteorological data toward competition based on operational accuracy, traceability, workflow integration and measurable improvement in aircraft availability.

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Report Scope

This report is a detailed and comprehensive analysis for global Low-Altitude Meteorological Data market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Low-Altitude Meteorological Data market size and forecasts, in consumption value ($ Million), 2021-2032

Global Low-Altitude Meteorological Data market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Low-Altitude Meteorological Data market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Low-Altitude Meteorological Data market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Low-Altitude Meteorological Data

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Low-Altitude Meteorological Data market based on the following parameters - company overview, revenue, gross margin, product

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portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TruWeather Solutions, Inc., DM-AirTech GmbH, The Tomorrow Companies Inc., Meteomatics AG, Vaisala Oyj, Weathernews Inc., The Weather Company LLC, DTN LLC, Spire Global, Inc., Baron Services, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Low-Altitude Meteorological Data market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

Basic Atmospheric State Data

Wind and Turbulence Data

Cloud, Precipitation and Visibility Data

Hazardous Weather Phenomena Data

Market segment by Spatial Data Structure

Point and Surface Data

Vertical Profile Data

Two-Dimensional Gridded Data

Three-Dimensional Atmospheric Field Data

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Market segment by Data Timeliness

Real-Time Observation Data

Nowcast Data

Short-Term Forecast Data

Historical and Reanalysis Data

Market segment by Application

Drone Logistics and Delivery

Infrastructure Inspection And Public Safety

UTM, U-Space and Advanced Air Mobility

Others

Market segment by players, this report covers

TruWeather Solutions, Inc.

DM-AirTech GmbH

The Tomorrow Companies Inc.

Meteomatics AG

Vaisala Oyj

Weathernews Inc.

The Weather Company LLC

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DTN LLC

Spire Global, Inc.

Baron Services, Inc.

Climavision Operating LLC

WindBorne Systems, Inc.

AccuWeather, Inc.

GEOVIS Weitianxin

PIESAT Information Technology Co., Ltd.

Tianji Meteorological Sciences And Technology Inc.

Moji Co., Ltd.

Seniverse

Beijing ColorfulClouds Technology Co., Ltd.

Mlog

QWeather

Huayun Shengda Meteorological Technology

Jiutian Meteorological Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

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Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Low-Altitude Meteorological Data product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Low-Altitude Meteorological Data, with revenue, gross margin, and global market share of Low-Altitude Meteorological Data from 2021 to 2026.

Chapter 3, the Low-Altitude Meteorological Data competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Low-Altitude Meteorological Data market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Low-Altitude Meteorological Data.

Chapter 13, to describe Low-Altitude Meteorological Data research findings and conclusion.

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