

Article: [NVIDIA Launches Earth-2 Family of Open Models](#)

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AI Tool used to create summary: [MyMemo](#)

AI SUMMARY:

NVIDIA has launched the Earth-2 family of open models for AI weather and climate forecasting, marking a significant advancement in making weather AI accessible for various organizations globally. The models utilize generative AI and offer improvements in forecasting speed and accuracy, allowing for substantial savings in computational resources and costs.

KEY POINTS:

Introduction to NVIDIA Earth-2

- Launched at the American Meteorological Society's Annual Meeting on January 26, 2026, NVIDIA Earth-2 offers the first fully open, accelerated weather AI software.

Earth-2 Nowcasting Model

- Utilizes generative AI trained on satellite data to forecast storms, providing insights into cloud and rainfall systems.

Accessibility and Efficiency

- Aims to democratize weather forecasting, enabling various sectors, including scientists and businesses, to develop tailored AI solutions for weather prediction.

Historical Context

- Traditional weather forecasting relies heavily on supercomputers, while NVIDIA Earth-2 leverages AI to dramatically reduce computational costs and time, which broadens its applicability.

Key Models in Earth-2 Family

- Earth-2 Medium Range: Uses the Atlas architecture for up to 15-day predictions across 70+ weather variables, outperforming conventional models.
- Earth-2 Nowcasting: Features StormScope architecture, providing short-term forecasts with high spatial resolution.
- Earth-2 Global Data Assimilation: Employs HealDA for rapid generation of atmospheric conditions, facilitating superior medium-range forecasts.

Existing Models and Collaborations

- Includes models like Earth-2 CorrDiff and Earth-2 FourCastNet3 that enhance forecasting abilities significantly and integrate with models from ECMWF, Microsoft, and Google.

Applications Across Industries

- Various organizations, such as Brightband and the Israel Meteorological Service, are already implementing these models for operational weather forecasting, showcasing reduced computational costs by up to 90%.
- Companies in the energy sector, like TotalEnergies and GCL, utilize Earth-2 models for improved forecasting related to energy management.

Financial Impact with Earth-2

- Financial institutions, including S&P Global Energy and AXA, are employing Earth-2 to derive insights for risk management and scenario modeling in climate-related challenges.

Call to Action

- Developers and scientists are encouraged to explore the Earth-2 models for innovative weather AI applications, available via NVIDIA Earth2Studio, Hugging Face, and GitHub.