

AG2 Global Model Data Extraction

Atmospheric G2

Now Including AIFS
& AIFS Ensemble

MODELS

AIFS- 0.25°

AIFS Ens- 0.25°

GRAF- 4km

ECMWF Op- 1.0°

ECMWF Ens- 1.5°

EC46- 1.5°

EC Seasonal- 1.0°

GFS Op- 1.0°

GFS Ensemble- 0.5°

GEM OP- 0.15°

GEM Ensemble- 0.5°

Our Model Data Extraction System was originally built 12 years ago to support **Bloomberg**. It is an extremely scalable, configurable, and robust system that was built for speed of delivery and reliability. Use the AG2 Model Data Extraction Service to fill your data needs and increase automation. Build your own analytics to grow your business and give you an edge over the rest of the market.

3, 6, or 12-hour resolution

Various Parameters (*see back)

Any Available Models

CSV or Parquet format

File on AG2 FTP server or AWS S3 bucket

DETAILS

Any global location
Available by lat/lon
or Station ID

Real-time forecast hour
or run completion

ENSEMBLES

Individual ensembles or
ensemble mean

FORMAT

CSV or Parquet

Premium Offerings

GRAF

IBM proprietary high-res 4km model

Run to 15 hours hourly

Run to 72 hours at 00z, 06z, 12z and 18z

Data available for any specific set of runs

Data for specific lat/lon points and/or stations

CSV format

Data for all grid points within a defined lat/lon

box or multiple lat/lon boxes, NetCDF format

Various Parameters (*see back)

File on AG2 FTP server or your AWS S3 bucket

Global Models

Hourly resolution for the entire model run
using proprietary interpolation techniques ¹

- 0.5° ECM Ensemble
- 0.125° ECM Op
- 0.5° GFS Ensemble
- 0.25° GFS Op
- 0.5° EC46

Various Parameters (*see back)

CSV or Parquet Format

File on AG2 FTP server or your AWS S3 bucket

AG2 Global Model Data Extraction Details

Weather Parameters*

	GFS Op	GFS Ens	ECM Op	ECM Ens	GRAF	ECM 46 (6hrly Data)	ECM Weekly (Wkly Avgs)	ECM Seasonal (Mo Avgs)	AIFS Op	AIFS Ens
850mb Temp	✓	✓	✓	✓						
2m Temp ¹	✓	✓	✓	✓	✓	✓		✓	✓	✓
Feels Like Temp	✓	✓	✓	✓					✓	✓
2m Temp Anomaly							✓	✓		
Min Temp	✓	✓	✓	✓			✓		✓	✓
Max Temp	✓	✓	✓	✓			✓		✓	✓
Relative Humidity	✓	✓	✓	✓					✓	✓
Dewpoint	✓	✓	✓	✓	✓				✓	✓
Precip ¹	✓	✓	✓	✓	✓	✓		✓	✓	✓
Snowfall	✓	✓	✓	✓	✓	✓		✓	✓	✓
Precipitation Anomaly							✓	✓		
Snowfall Anomaly							✓	✓		
10m Wind Speed ¹	✓	✓	✓	✓	✓	✓		✓	✓	✓
10m Wind Gust					✓					
10m U Wind ¹	✓	✓	✓	✓	✓	✓				
10m V Wind ¹	✓	✓	✓	✓	✓	✓				
10m Wind Direction ¹	✓	✓	✓	✓	✓				✓	✓
60m Wind Speed					✓					
60m Wind Direction					✓					
60m U Wind					✓					
60m V Wind					✓					
80m Wind Speed	✓	✓	✓	✓	✓					
80m Wind Direction	✓	✓	✓	✓	✓					
80m U Wind	✓	✓	✓	✓	✓					
80m V Wind	✓	✓	✓	✓	✓					
100m Wind Speed ¹	✓	✓	✓	✓	✓	✓			✓	✓
100m Wind Direction ¹	✓	✓	✓	✓	✓				✓	✓
100m U Wind ¹	✓	✓	✓	✓	✓	✓				
100m V Wind ¹	✓	✓	✓	✓	✓	✓				
Wind Speed Anomaly							✓	✓		
MSLP ¹	✓	✓	✓	✓	✓				✓	✓
Surface Pressure	✓	✓	✓	✓	✓					
500mb GPH Anom.							✓			
500mb GPH	✓	✓	✓	✓						
Cloud Cover ¹	✓	✓	✓	✓	✓				✓	✓
Sunshine Duration						✓				
Sunshine Duration Anomaly							✓			
GHI ¹	✓	✓	✓	✓	✓				✓	✓
DNI					✓					
Soil Moisture	✓	✓	✓	✓					✓	
Soil Temperature	✓	✓	✓	✓					✓	✓

¹ = Hourly Interpolated Parameters

Data Availability Timing

Standard

Have files set-up and flowing within **same day** as request if all requested stations are already in our master database.

Premium

If stations are not in our master database, will take **1-2 days** to add them and get the files set-up and delivering.

The Proven Solution

Model Data Extraction by AG2 is as easy as picking your model, parameters, locations, and data format. Get started today to give you an edge over the rest of the market.

