

Global Wind Hazard Final Run

TAOS[™] Real Time Operations System
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Abstract

TAOStm WX Global Analysis of wind hazards and economic impact estimates based the 20240503000000 GFS short term integrations, and is the recommended simulation for settlement purposes for impacts for this date. This analysis was run using proc:gfs TAOS Version 25.01:ROCKY9:GCC11:2024:106:1435, and includes wind hazards from tropical cyclones, winter storms, mid latitude cyclones, and other synoptic scale weather systems.

Report generated Sat May 4 05:33:58 AM UTC 2024 on cortex2 using GFS data downloaded on Fri May 3 09:37:58 PM UTC 2024.

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Chapter 1

Impact Summary for 2024-05-03

Table 1.1: Global Economic Impacts for 2024-05-03

<i>scenario</i>	<i>exposures</i>	<i>economic_impact</i>
hindcast_20240503	108102	2.22 Million USD

Table 1.2: Countries with over 100 thousand USD in impacts

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Argentina	67664	.39 Million USD
Iraq	3083	.39 Million USD
United States	5560	1.11 Million USD

GFS Surface Winds for 2024-05-03 00:00.

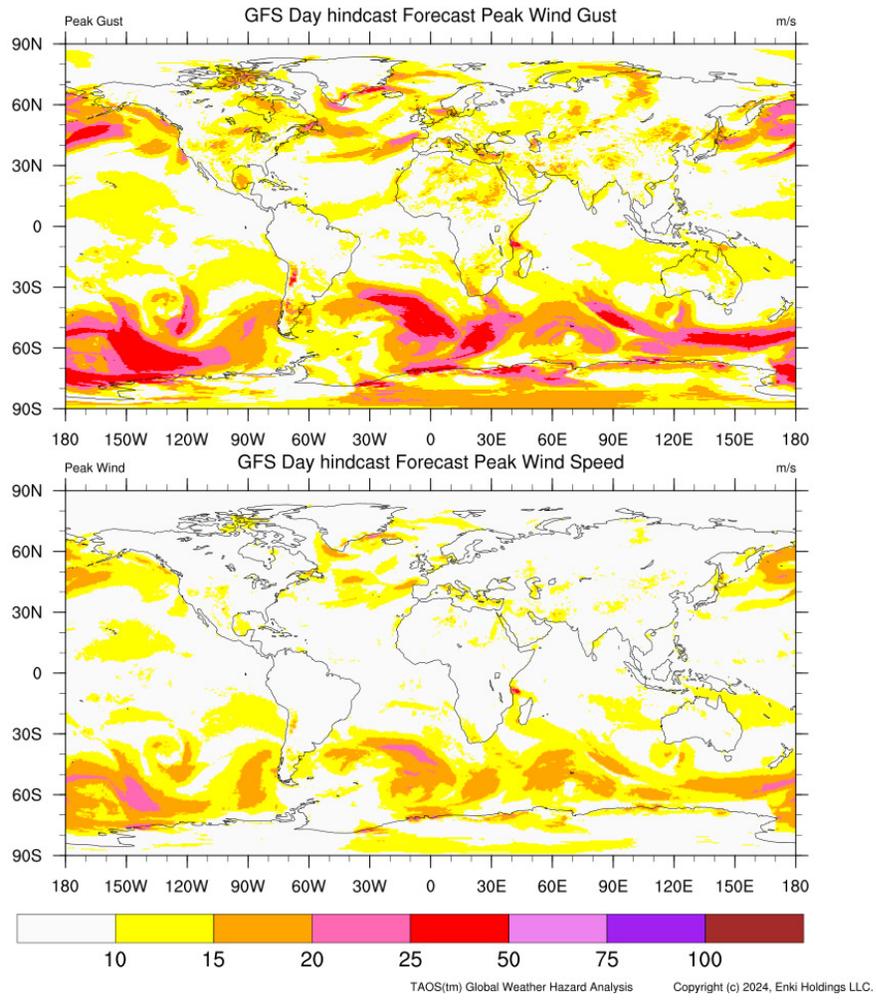


Figure 1.1: GFS Wind Hindcast

Chapter 2

Argentina impact summary for 2024-05-03

Table 2.1: Overall summary for Argentina

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Argentina	67664	.39 Million USD

Table 2.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Catamarca	34307	253,341.69 USD
Jujuy	12217	39,124.57 USD
La Rioja	6684	47,035.10 USD
Neuquén	2805	7,776.89 USD
Salta	11651	41,094.94 USD

Chapter 3

Iraq impact summary for 2024-05-03

Table 3.1: Overall summary for Iraq

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Iraq	3083	.39 Million USD

Table 3.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Al-Qadisiyah	1051	113,870.26 USD
An-Najaf	273	107,159.79 USD
Babil	798	163,034.14 USD
Maysan	927	9,190.58 USD

Chapter 4

United States impact summary for 2024-05-03

Table 4.1: Overall summary for United States

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
United States	5560	1.11 Million USD

Table 4.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Alaska	373	1,281.51 USD
Colorado	421	1,037.42 USD
Nebraska	356	1,431.00 USD
Texas	4313	1,103,110.10 USD

Chapter 5

Comparison of Forecast vs Hindcast Run

This tables shows what the forecast for 2024-05-03 was for the same day (00z forecast for the rest of the day) as well as the forecast from the simulation in each of the previous four days.

Table 5.1: Forecast Comparison with Hindcast Run

<i>scenario</i>	<i>economic_impact</i>
hindcast_20240503	2.22 Million USD
f001_20240503	5.96 Million USD
f002_20240502	2.07 Million USD
f003_20240501	3.27 Million USD
f004_20240430	31.65 Million USD
f005_20240429	27.37 Million USD

Chapter 6

Technical Notes

The TAOStm WX Global Analysis (TAOS/WX) is part of the TAOStm storm hazard modeling system. TAOS/WX ingests global or regional weather models and, using the same graphical processing systems, statistical methodologies, exposure, and damage models as the tropical cyclone (TAOS/TC) and earthquake (TAOS/EQ) packages, generates estimates of weather hazards and the economic impact of weather hazards on those exposures.