

# Global Wind Hazard Final Run

TAOS<sup>™</sup> Real Time Operations System  
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## **Abstract**

TAOS<sup>tm</sup> WX Global Analysis of wind hazards and economic impact estimates based the 20240522000000 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:GCC11:2024:135:1547, and includes wind hazards from tropical cyclones, winter storms, mid latitude cyclones, and other synoptic scale weather systems.

Report generated Thu May 23 05:34:42 AM UTC 2024 on cortex2 using GFS data downloaded on Wed May 22 10:45:30 PM UTC 2024.

# Contents

1	Impact Summary for 2024-05-22	4
2	Argentina impact summary for 2024-05-22	6
3	Chile impact summary for 2024-05-22	7
4	Turkey impact summary for 2024-05-22	8
5	United States impact summary for 2024-05-22	9
6	Comparison of Forecast vs Hindcast Run	10
7	Technical Notes	11

# List of Tables

1.1	Global Economic Impacts for 2024-05-22 . . . . .	4
1.2	Countries with over 100 thousand USD in impacts . . . . .	4
2.1	Overall summary for Argentina . . . . .	6
2.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	6
3.1	Overall summary for Chile . . . . .	7
3.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	7
4.1	Overall summary for Turkey . . . . .	8
4.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	8
5.1	Overall summary for United States . . . . .	9
5.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	9
6.1	Forecast Comparison with Hindcast Run . . . . .	10

# List of Figures

1.1	GFS Wind Hindcast . . . . .	5
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# Chapter 1

## Impact Summary for 2024-05-22

Table 1.1: Global Economic Impacts for 2024-05-22

<i>scenario</i>	<i>exposures</i>	<i>economic_impact</i>
hindcast_20240522	126935	3.90 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	52742	.43 Million USD
Chile	10157	.13 Million USD
Turkey	2479	.11 Million USD
United States	11206	2.99 Million USD

### GFS Surface Winds for 2024-05-22 00:00.

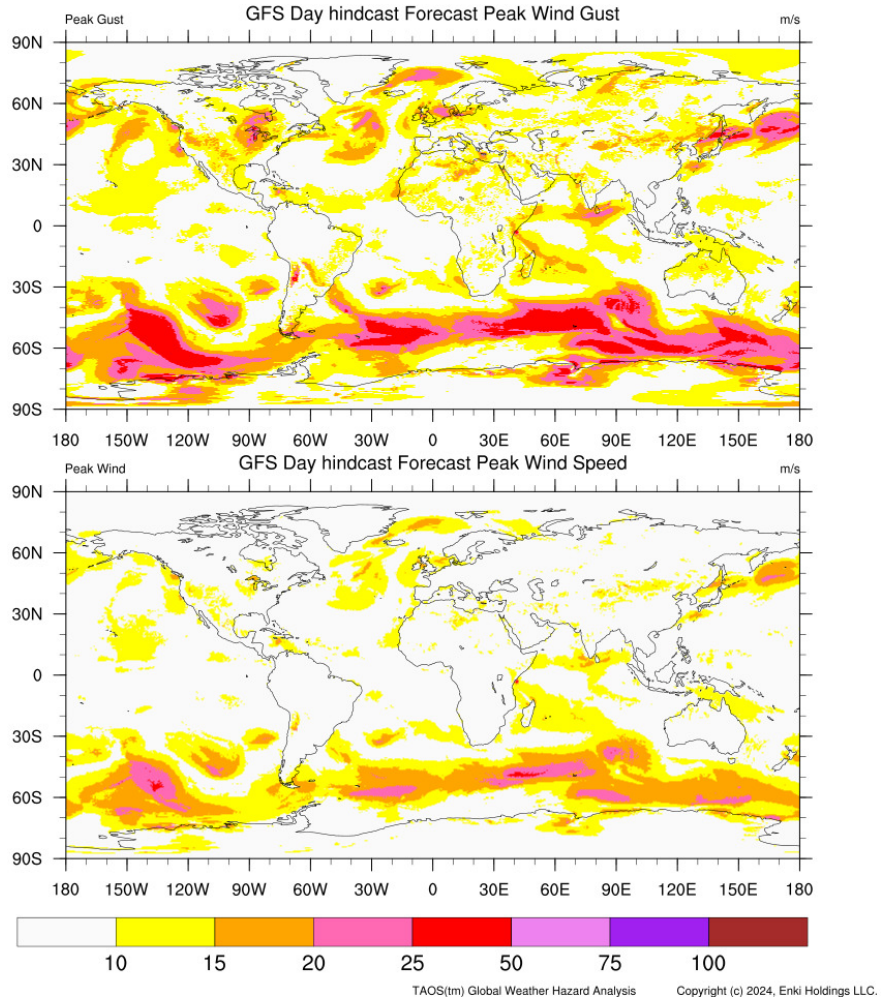


Figure 1.1: GFS Wind Hindcast

## Chapter 2

# Argentina impact summary for 2024-05-22

Table 2.1: Overall summary for Argentina

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Argentina	52742	.43 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	29289	309,259.72 USD
Jujuy	10150	55,476.00 USD
Salta	13303	60,329.00 USD



# Chapter 3

## Chile impact summary for 2024-05-22

Table 3.1: Overall summary for Chile

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Chile	10157	.13 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>
Antofagasta	5619	82,822.07 USD
Atacama	4538	42,235.49 USD

# Chapter 4

## Turkey impact summary for 2024-05-22

Table 4.1: Overall summary for Turkey

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Turkey	2479	.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>
Konya	1291	12,947.31 USD
Mersin	963	96,527.37 USD

# Chapter 5

## United States impact summary for 2024-05-22

Table 5.1: Overall summary for United States

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
United States	11206	2.99 Million USD

Table 5.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Illinois	4340	94,349.28 USD
Nevada	2541	7,229.87 USD
Wisconsin	4187	2,885,582.92 USD

# Chapter 6

## Comparison of Forecast vs Hindcast Run

This tables shows what the forecast for 2024-05-22 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 6.1: Forecast Comparison with Hindcast Run

<i>scenario</i>	<i>economic_impact</i>
hindcast_20240522	3.90 Million USD
f001_20240522	40.25 Million USD
f002_20240521	2.84 Million USD
f003_20240520	1.10 Million USD
f004_20240519	.86 Million USD
f005_20240518	2.27 Million USD

# Chapter 7

## Technical Notes

The TAOS<sup>tm</sup> WX Global Analysis (TAOS/WX) is part of the TAOS<sup>tm</sup> 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.