

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 20240402000000 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 25.0:ROCKY9:GCC11:2024:089:1323, and includes wind hazards from tropical cyclones, winter storms, mid latitude cyclones, and other synoptic scale weather systems.

Report generated Wed Apr 3 05:34:02 AM UTC 2024 on cortex2 using GFS data downloaded on Tue Apr 2 09:34:11 PM UTC 2024.

Contents

1	Impact Summary for 2024-04-02	4
2	Argentina impact summary for 2024-04-02	6
3	Chile impact summary for 2024-04-02	7
4	South Korea impact summary for 2024-04-02	8
5	Spain impact summary for 2024-04-02	9
6	United States impact summary for 2024-04-02	10
7	Comparison of Forecast vs Hindcast Run	11
8	Technical Notes	12

List of Tables

1.1	Global Economic Impacts for 2024-04-02	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 South Korea	8
4.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	8
5.1	Overall summary for Spain	9
5.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	9
6.1	Overall summary for United States	10
6.2	Summary by Level 1 Admin Area with loss over 1000 USD . .	10
7.1	Forecast Comparison with Hindcast Run	11

List of Figures

1.1	GFS Wind Hindcast	5
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Chapter 1

Impact Summary for 2024-04-02

Table 1.1: Global Economic Impacts for 2024-04-02

<i>scenario</i>	<i>exposures</i>	<i>economic_impact</i>
hindcast_20240402	577559	26.81 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	537021	25.73 Million USD
Chile	4402	.27 Million USD
South Korea	1891	.18 Million USD
Spain	312	.14 Million USD
United States	4204	.20 Million USD

GFS Surface Winds for 2024-04-02 00:00.

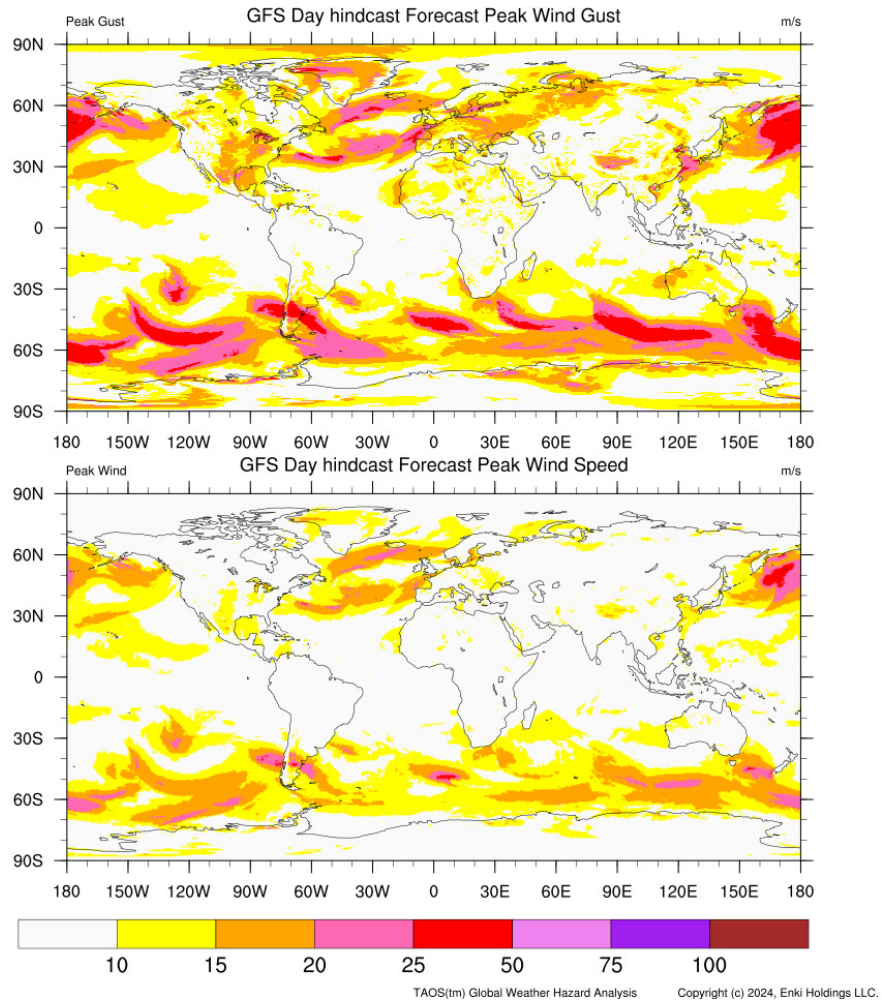


Figure 1.1: GFS Wind Hindcast

Chapter 2

Argentina impact summary for 2024-04-02

Table 2.1: Overall summary for Argentina

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Argentina	537021	25.73 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>
Buenos Aires	1841	9,414.28 USD
Chubut	161432	13,529,517.06 USD
La Pampa	14284	90,791.13 USD
Mendoza	17912	276,275.47 USD
Neuquén	82480	3,989,437.18 USD
Río Negro	259072	7,834,884.31 USD

Chapter 3

Chile impact summary for 2024-04-02

Table 3.1: Overall summary for Chile

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Chile	4402	.27 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>
Araucanía	520	4,349.14 USD
Bío-Bío	119	7,662.63 USD
Los Lagos	3109	253,055.93 USD

Chapter 4

South Korea impact summary for 2024-04-02

Table 4.1: Overall summary for South Korea

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
South Korea	1891	.18 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>
Jeju	468	151,017.65 USD
Jeollanam-do	1423	24,659.75 USD

Chapter 5

Spain impact summary for 2024-04-02

Table 5.1: Overall summary for Spain

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Spain	312	.14 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>
Galicia	312	139,379.37 USD

Chapter 6

United States impact summary for 2024-04-02

Table 6.1: Overall summary for United States

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
United States	4204	.20 Million USD

Table 6.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Alaska	3723	197,918.06 USD
Michigan	313	1,472.64 USD

Chapter 7

Comparison of Forecast vs Hindcast Run

This tables shows what the forecast for 2024-04-02 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 7.1: Forecast Comparison with Hindcast Run

<i>scenario</i>	<i>economic_impact</i>
hindcast_20240402	26.81 Million USD
f001_20240402	13.44 Million USD
f002_20240401	14.27 Million USD
f003_20240331	24.27 Million USD
f004_20240330	27.85 Million USD
f005_20240329	3.19 Million USD

Chapter 8

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.