

# Global Wind Hazard Final Run

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## **Abstract**

TAOS<sup>tm</sup> WX Global Analysis of wind hazards and economic impact estimates based the 20240514000000 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 Wed May 15 05:38:07 AM UTC 2024 on cortex2 using GFS data downloaded on Tue May 14 09:34:44 PM UTC 2024.

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# Chapter 1

## Impact Summary for 2024-05-14

Table 1.1: Global Economic Impacts for 2024-05-14

<i>scenario</i>	<i>exposures</i>	<i>economic_impact</i>
hindcast_20240514	165621	2.65 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	8497	.10 Million USD
Chile	6848	.11 Million USD
China	20273	.70 Million USD
Falkland Islands	10686	.10 Million USD
India	10468	.41 Million USD
Iran	66594	.91 Million USD

### GFS Surface Winds for 2024-05-14 00:00.

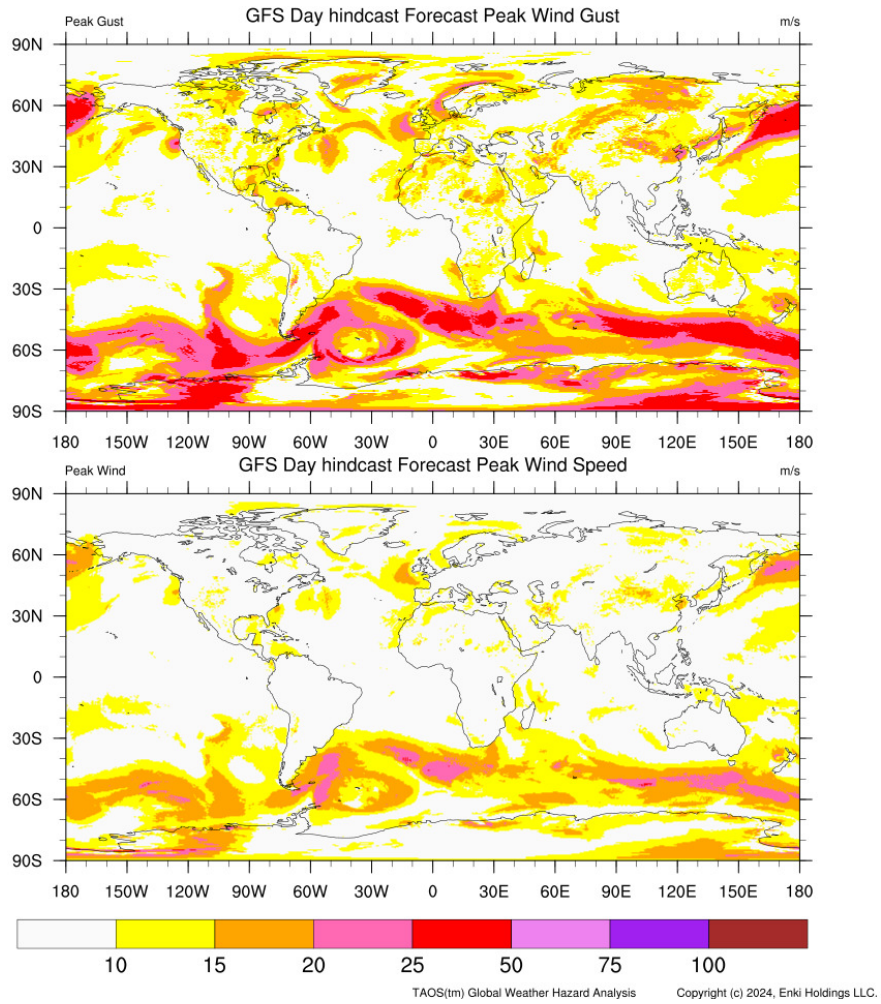


Figure 1.1: GFS Wind Hindcast

## Chapter 2

# Argentina impact summary for 2024-05-14

Table 2.1: Overall summary for Argentina

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Argentina	8497	.10 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	4045	8,287.63 USD
Tierra del Fuego	3885	94,086.30 USD



# Chapter 3

## Chile impact summary for 2024-05-14

Table 3.1: Overall summary for Chile

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Chile	6848	.11 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>
Magallanes y Antártica Chilena	6848	113,434.06 USD

# Chapter 4

## China impact summary for 2024-05-14

Table 4.1: Overall summary for China

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
China	20273	.70 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>
Henan	325	8,695.71 USD
Jiangsu	2395	274,232.80 USD
Nei Mongol	9794	42,553.20 USD
Ningxia Hui	605	4,129.69 USD
Shaanxi	2065	12,958.31 USD
Shandong	3815	341,160.50 USD
Shanxi	755	15,838.46 USD

# Chapter 5

## Falkland Islands impact summary for 2024-05-14

Table 5.1: Overall summary for Falkland Islands

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Falkland Islands	10686	.10 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>
Falkland Islands entire country	10686	102,646.25 USD

# Chapter 6

## India impact summary for 2024-05-14

Table 6.1: Overall summary for India

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
India	10468	.41 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>
Gujarat	764	103,294.48 USD
Madhya Pradesh	3375	101,032.33 USD
Rajasthan	6329	206,521.27 USD

# Chapter 7

## Iran impact summary for 2024-05-14

Table 7.1: Overall summary for Iran

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Iran	66594	.91 Million USD

Table 7.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Chahar Mahall and Bakhtiari	1073	14,062.41 USD
Esfahan	13097	135,410.65 USD
Fars	960	8,615.52 USD
Kerman	7991	64,372.53 USD
Markazi	2304	9,256.24 USD
Qom	403	5,443.76 USD
Razavi Khorasan	6460	165,732.28 USD
Semnan	2016	12,029.54 USD
South Khorasan	1204	7,516.35 USD
Yazd	30746	485,436.70 USD

# Chapter 8

## Comparison of Forecast vs Hindcast Run

This tables shows what the forecast for 2024-05-14 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 8.1: Forecast Comparison with Hindcast Run

<i>scenario</i>	<i>economic_impact</i>
hindcast_20240514	2.65 Million USD
f001_20240514	2.62 Million USD
f002_20240513	3.15 Million USD
f003_20240512	2.81 Million USD
f004_20240511	5.64 Million USD
f005_20240510	2.04 Million USD

# Chapter 9

## 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.