

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 20240610000000 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 Tue Jun 11 05:25:07 UTC 2024 on cortex2 using GFS data downloaded on Mon Jun 10 21:36:28 UTC 2024.

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Chapter 1

Impact Summary for 2024-06-10

Table 1.1: Global Economic Impacts for 2024-06-10

<i>scenario</i>	<i>exposures</i>	<i>economic_impact</i>
hindcast_20240610	136564	6.97 Million USD

Table 1.2: Countries with over 100 thousand USD in impacts

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Australia	4596	.37 Million USD
Belgium	448	.13 Million USD
China	16288	.33 Million USD
Iran	30037	3.26 Million USD
Iraq	7093	.15 Million USD
Kuwait	164	.43 Million USD
Mali	16688	.14 Million USD
Netherlands	2288	.23 Million USD
Pakistan	1351	.22 Million USD
Saudi Arabia	2041	.11 Million USD
United States	8281	1.27 Million USD

GFS Surface Winds for 2024-06-10 00:00.

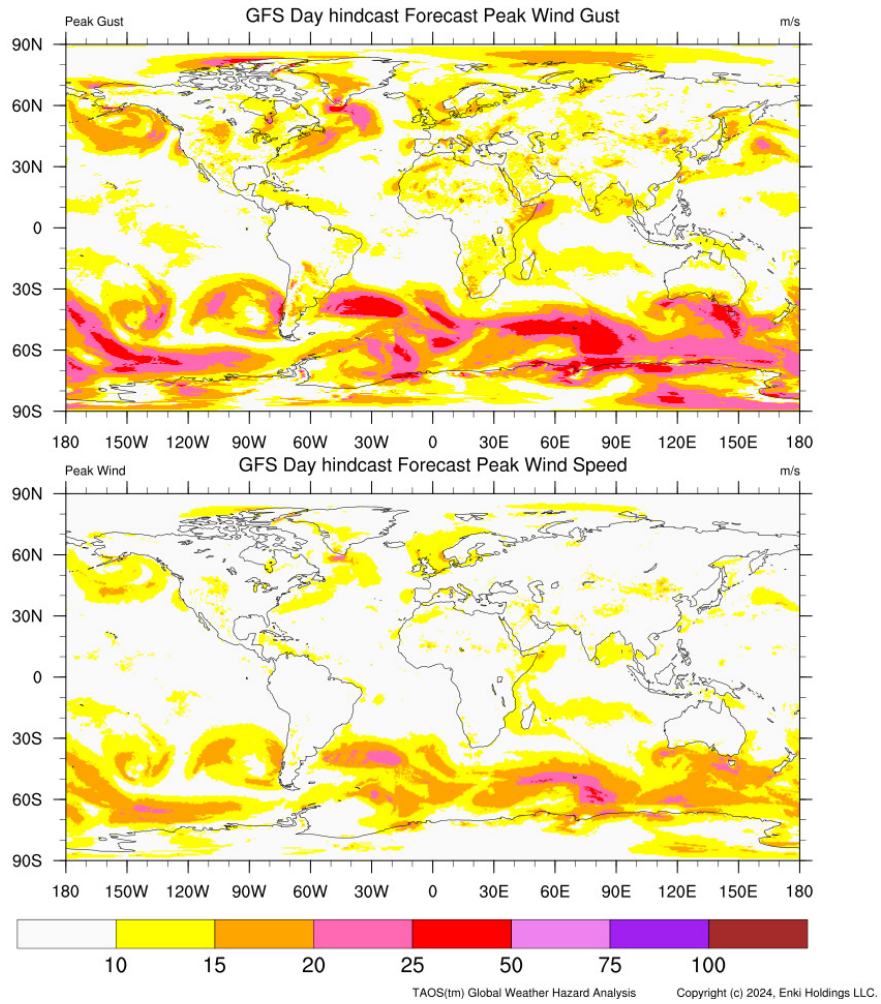


Figure 1.1: GFS Wind Hindcast

Chapter 2

Australia impact summary for 2024-06-10

Table 2.1: Overall summary for Australia

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Australia	4596	.37 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>
South Australia	595	7,971.39 USD
Tasmania	1893	20,392.11 USD
Victoria	1728	337,972.16 USD
Western Australia	380	2,539.16 USD

Chapter 3

Belgium impact summary for 2024-06-10

Table 3.1: Overall summary for Belgium

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Belgium	448	.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>
Vlaanderen	448	128,244.30 USD

Chapter 4

China impact summary for 2024-06-10

Table 4.1: Overall summary for China

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
China	16288	.33 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>
Nei Mongol	14842	322,680.69 USD
Shaanxi	1428	4,276.34 USD

Chapter 5

Iran impact summary for 2024-06-10

Table 5.1: Overall summary for Iran

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Iran	30037	3.26 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>
Alborz	1257	52,161.77 USD
Esfahan	4549	89,077.14 USD
Hamadan	2349	71,169.98 USD
Ilam	2056	228,042.22 USD
Kermanshah	1632	1,550,814.70 USD
Khuzestan	4435	181,827.44 USD
Lorestan	419	38,285.10 USD
Markazi	3262	514,226.12 USD
Qazvin	1290	24,701.88 USD
Qom	4397	109,626.59 USD
Tehran	1600	48,025.46 USD
Zanjan	2580	354,909.79 USD

Chapter 6

Iraq impact summary for 2024-06-10

Table 6.1: Overall summary for Iraq

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Iraq	7093	.15 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>
Al-Basrah	1197	10,111.21 USD
Arbil	549	39,887.13 USD
At-Ta'mim	2178	46,900.19 USD
Dihok	378	14,433.80 USD
Maysan	2783	33,981.70 USD

Chapter 7

Kuwait impact summary for 2024-06-10

Table 7.1: Overall summary for Kuwait

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Kuwait	164	.43 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>
Al Ahmadi	164	429,591.60 USD

Chapter 8

Mali impact summary for 2024-06-10

Table 8.1: Overall summary for Mali

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Mali	16688	.14 Million USD

Table 8.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Gao	7996	82,057.64 USD
Mopti	3913	37,114.34 USD
Timbuktu	4779	16,417.76 USD

Chapter 9

Netherlands impact summary for 2024-06-10

Table 9.1: Overall summary for Netherlands

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Netherlands	2288	.23 Million USD

Table 9.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Noord-Brabant	41	3,644.65 USD
Noord-Holland	816	90,295.17 USD
Zeeland	1098	102,318.86 USD
Zeeuwse meren	167	10,196.06 USD
Zuid-Holland	115	26,836.33 USD

Chapter 10

Pakistan impact summary for 2024-06-10

Table 10.1: Overall summary for Pakistan

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Pakistan	1351	.22 Million USD

Table 10.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Punjab	1350	222,655.34 USD

Chapter 11

Saudi Arabia impact summary for 2024-06-10

Table 11.1: Overall summary for Saudi Arabia

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Saudi Arabia	2041	.11 Million USD

Table 11.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Ash Sharqiyah	2041	111,138.61 USD

Chapter 12

United States impact summary for 2024-06-10

Table 12.1: Overall summary for United States

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
United States	8281	1.27 Million USD

Table 12.2: Summary by Level 1 Admin Area with loss over 1000 USD

<i>name</i>	<i>num_exposures</i>	<i>economic_impact</i>
Alaska	4712	17,106.65 USD
Nebraska	1233	5,416.32 USD
Nevada	126	2,690.59 USD
Texas	1790	1,238,465.46 USD
Wyoming	333	1,806.36 USD

Chapter 13

Comparison of Forecast vs Hindcast Run

This tables shows what the forecast for 2024-06-10 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 13.1: Forecast Comparison with Hindcast Run

<i>scenario</i>	<i>economic_impact</i>
hindcast_20240610	6.97 Million USD
f001_20240610	8.54 Million USD
f002_20240609	2.60 Million USD
f003_20240608	1.32 Million USD
f004_20240607	10.03 Million USD
f005_20240606	5.75 Million USD

Chapter 14

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.