--- 1. Performing Statistical Analysis ---

[1.1] Descriptive Statistics (Core Variables):

[1.2] Top 5 Correlations with Temperature:

[1.3] Seasonal Trends (Monthly Avg Temp):

5.00	23.96
6.00	25.70
7.00	26.02
8.00	25.75
9.00	24.25
10.00	22.02
11.00	19.42
12.00	17.75

--- 2. Identifying Extreme Weather Events ---

Thresholds: Extreme Heat > 40.50°C, Extreme Wind > 37.40 kph

[2.1] Top 5 Extreme Heat Events:

country location_name date ter	mperature_celsius condition_text
: :	
Kuwait Kuwait City 2024-06-19	49.2 Sunny
Iraq Baghdad 2024-07-11	49.1 Sunny
Iraq Baghdad 2024-06-22	49.1 Partly cloudy
Kuwait Kuwait City 2024-06-27	48.9 Sunny
Kuwait Kuwait City 2025-07-28	48.8 Sunny

[2.2] Top 5 Extreme Wind Events:

country	location_name	e date wir	nd_kph condition_text	
:	:	- :	: :	
Burundi	Bujumbura	2024-06-23	2963.2 Partly cloudy	
Ethiopia	Addis Ababa	2024-06-21	272.2 Partly cloudy	
Burundi	Bujumbura	2024-05-21	258.8 Partly cloudy	

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| Saint Kitts and Nevis | Basseterre | 2024-06-28 | 205.9 | Partly cloudy | Fiji Islands | Suva | 2024-05-20 | 172.1 | Partly cloudy |
```

--- 3. Regional Comparative Analysis ---

[3.1] Comparative Metrics for Top 10 Countries:

country Avg_Temp_C Avg_Humidity Max_Wind_KPH Observation_Count									
:	:	:	:	:					
Sudan	31.45	29.11	43.20	1014					
Thailand	30.85	62.85	28.10	1013					
Indonesia	27.79	75.38	32.00	1017					
Vietnam	27.28	69.76	56.20	919					
Madagascar	26.18	44.86	38.90	966					
Iran	22.14	25.48	51.80	1014					
Turkey	20.65	49.21	50.00	1013					
Bulgaria	19.17	49.96	41.80	1090					
Bolivia	17.07	74.39	15.10	1007					
Belgium	14.29	73.55	50.00	995					

--- 4. Generating Visualization Deliverables ---





