

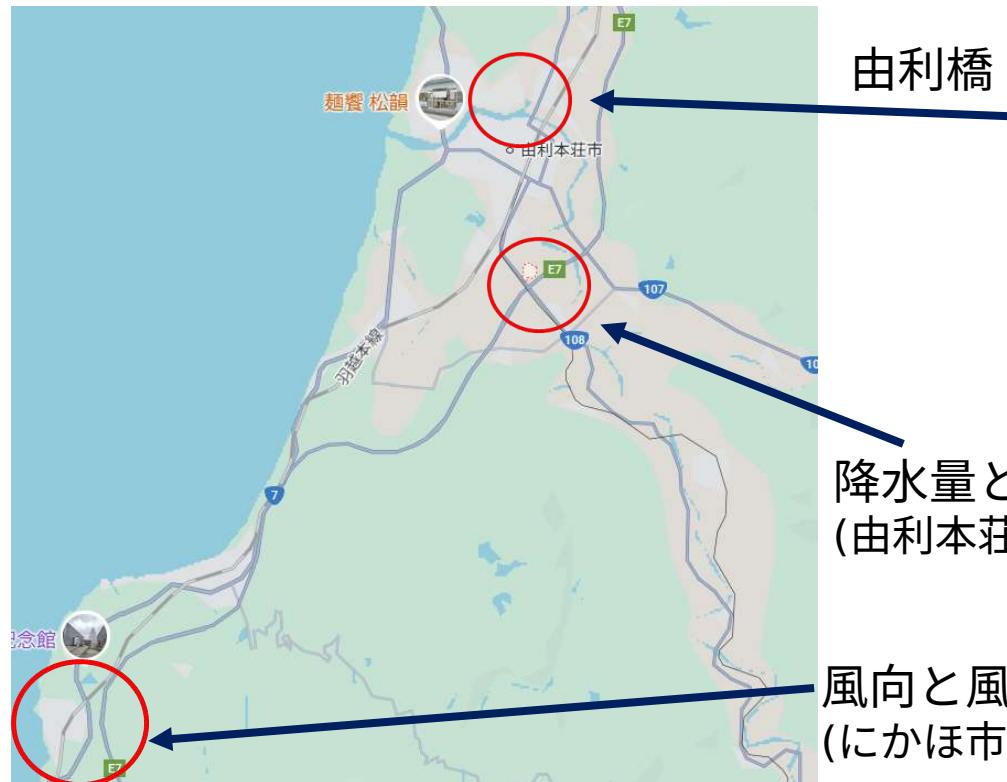
# リスクアセスメント

## (由利橋)

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7022609 真庭大輝

# 観測地点



[https://www.tohokukanko.jp/attractions/detail\\_10076](https://www.tohokukanko.jp/attractions/detail_10076)

- 降水量と気温は由利橋から5km付近にある

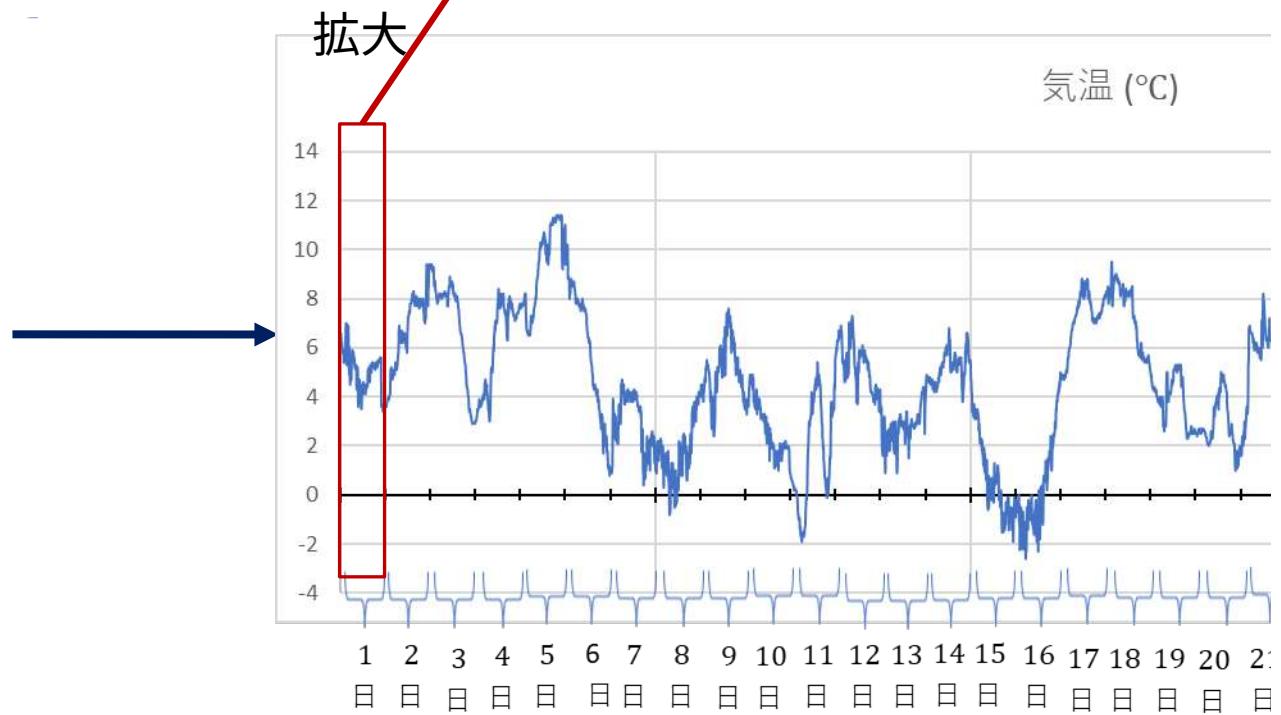
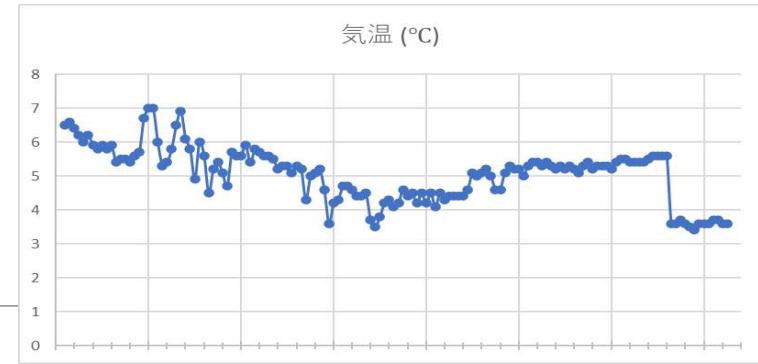
由利本荘市の気象庁データを使用。

- 風向と風速は沿岸部に近いにかほ市の気象庁データを使用(由利橋から約2.4km)。

# データの使用方法

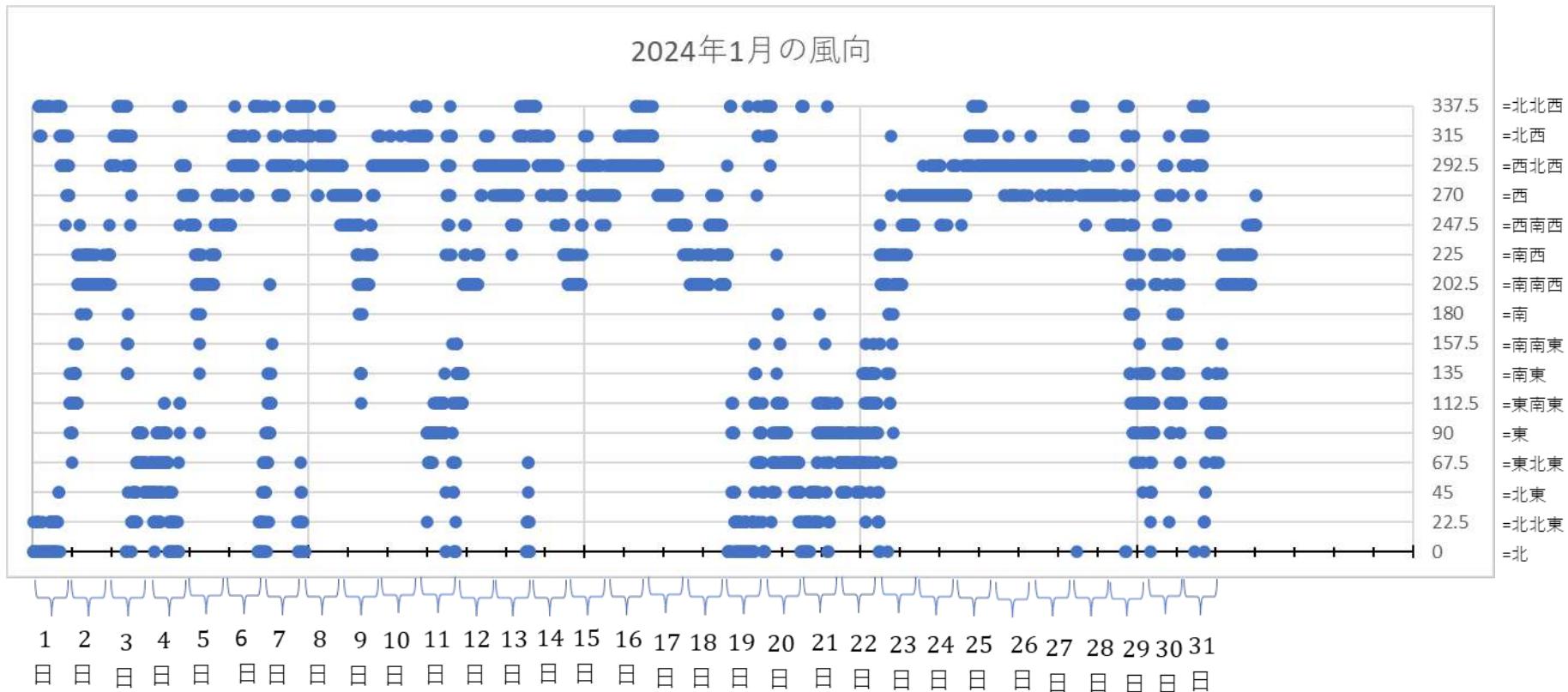
にかほ（秋田県） 2024年1月1日（10分ごとの値）

時分	降水量 (mm)	気温 (°C)	相対湿度 (%)	風向・風速				日照 時間 (min)	
				平均		最大瞬間			
				風速(m/s)	風向	風速(m/s)	風向		
00:10	0.0	6.5	81	4.5	北北東	9.2	北		
00:20	0.0	6.6	80	4.7	北	10.4	北北東		
00:30	0.0	6.4	78	4.8	北	10.2	北		
00:40	0.0	6.2	80	5.0	北	10.7	北北東		
00:50	0.0	6.0	82	4.7	北	11.0	北		
01:00	0.0	6.2	80	4.8	北	10.7	北北西		
01:10	0.0	5.9	82	4.8	北	12.2	北北西		
01:20	0.0	5.8	83	4.7	北	10.2	北北東		
01:30	0.0	5.9	82	5.1	北	10.8	北北東		
01:40	0.0	5.8	83	4.4	北	8.6	北北東		
01:50	0.0	5.9	86	5.5	北	11.9	北北西		
02:00	0.5	5.4	90	5.9	北	13.3	北北西		
02:10	0.0	5.5	87	6.0	北	11.0	北北東		
02:20	0.0	5.5	86	5.1	北	10.4	北北東		



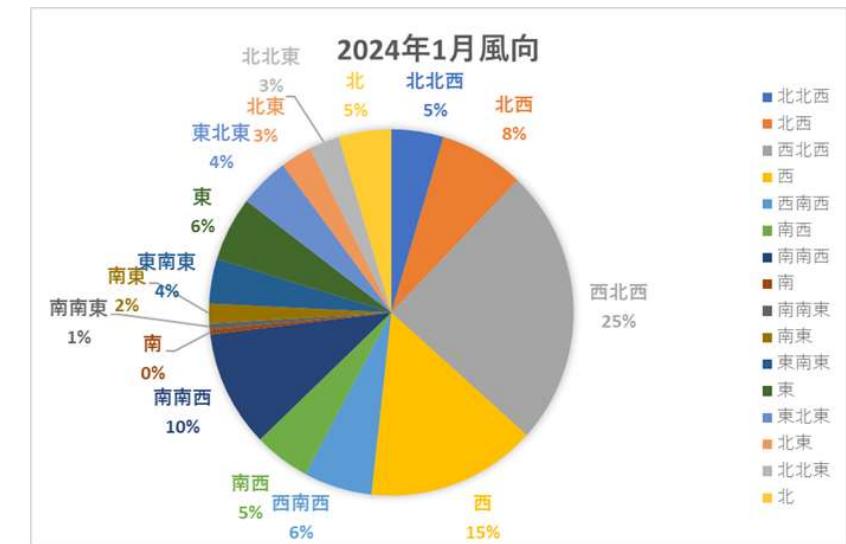
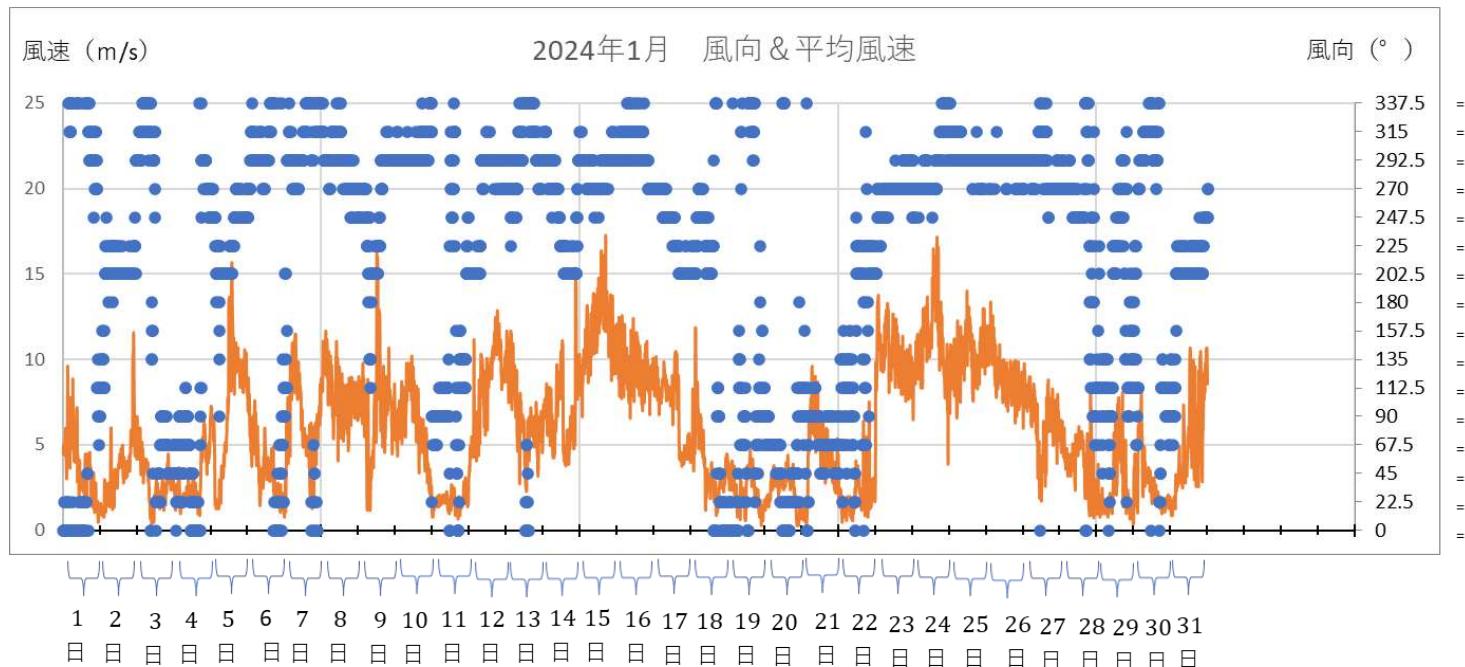
10分ごとの値を使用し、それを基に気温、降水量、平均風速、風向のグラフを作成。  
それぞれのグラフを比較する。

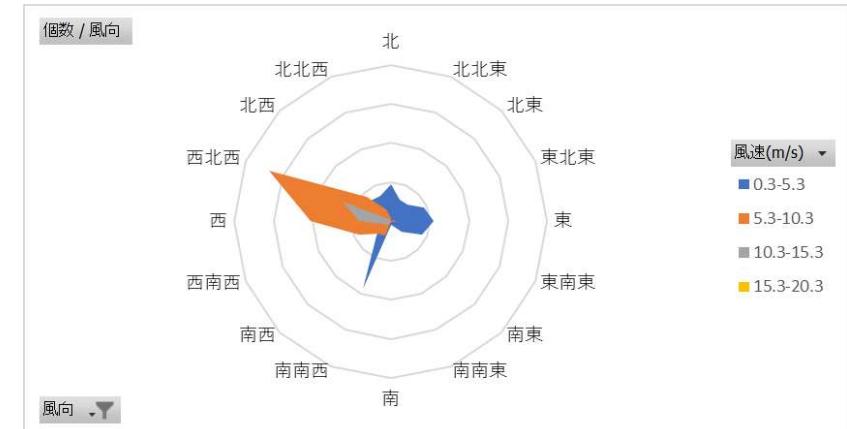
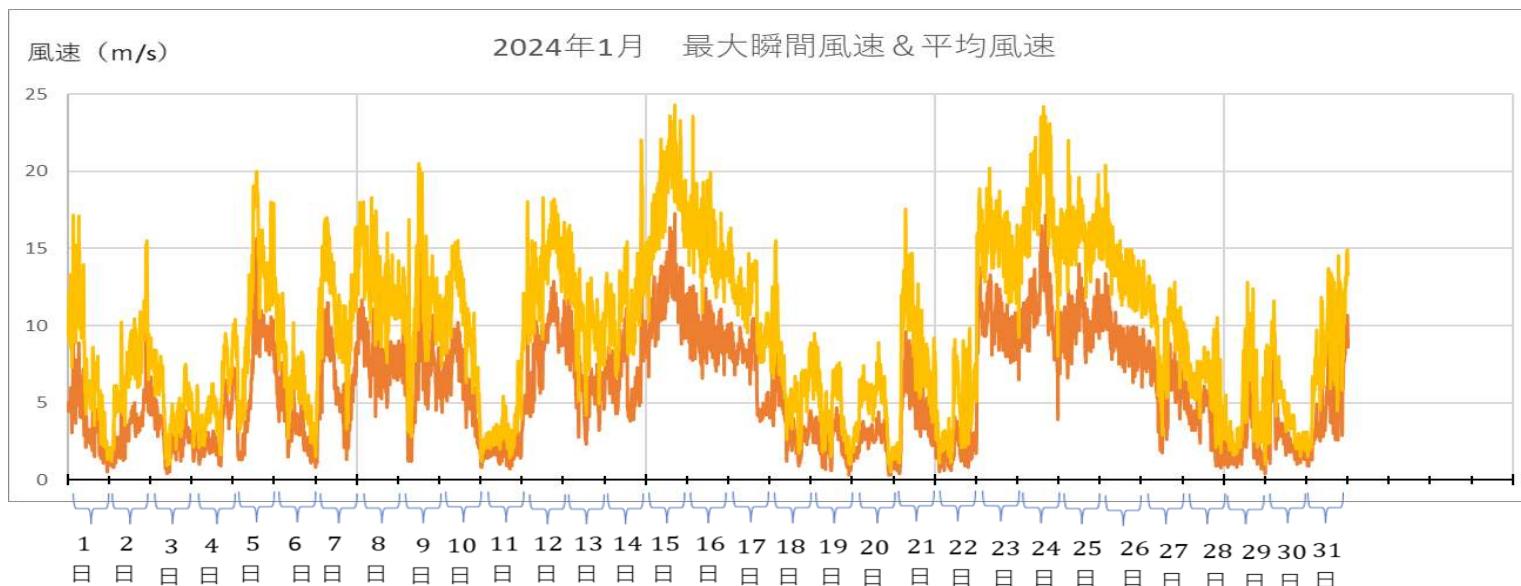
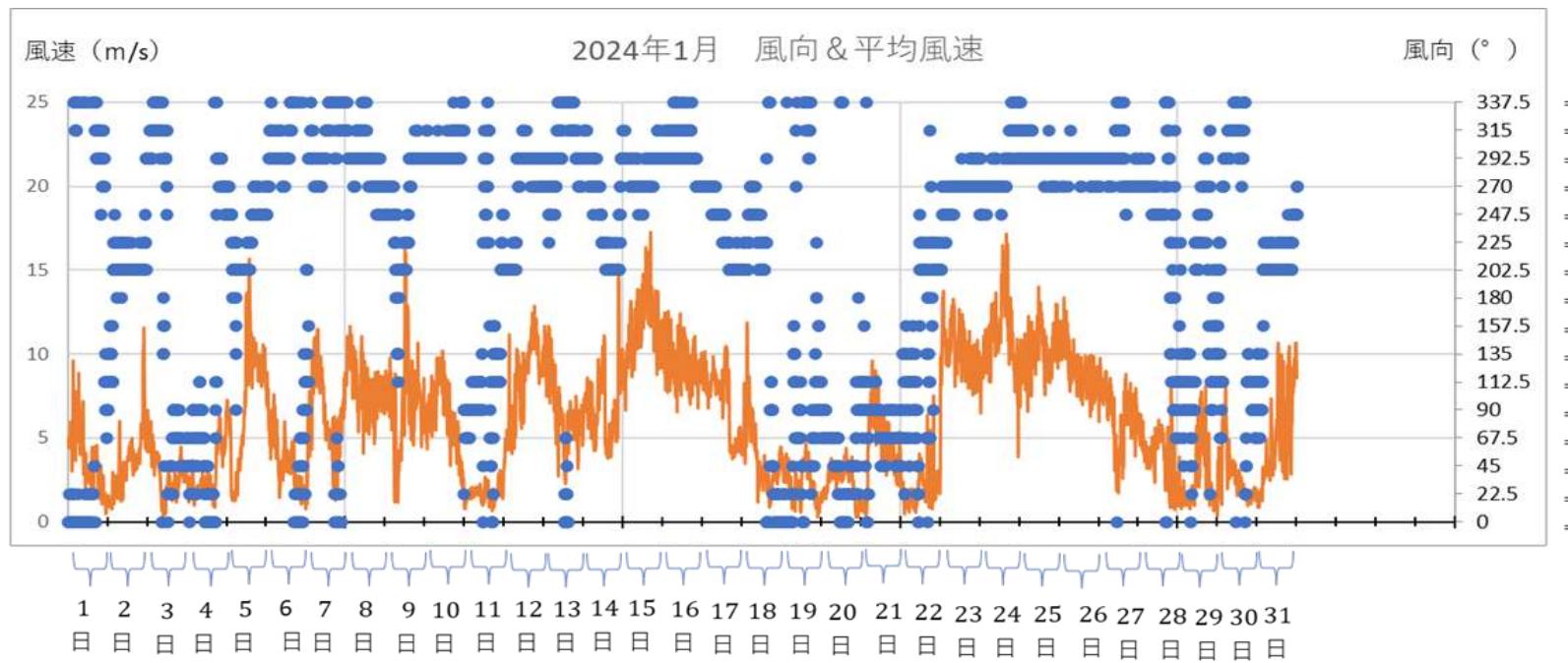
# 風向のグラフについて

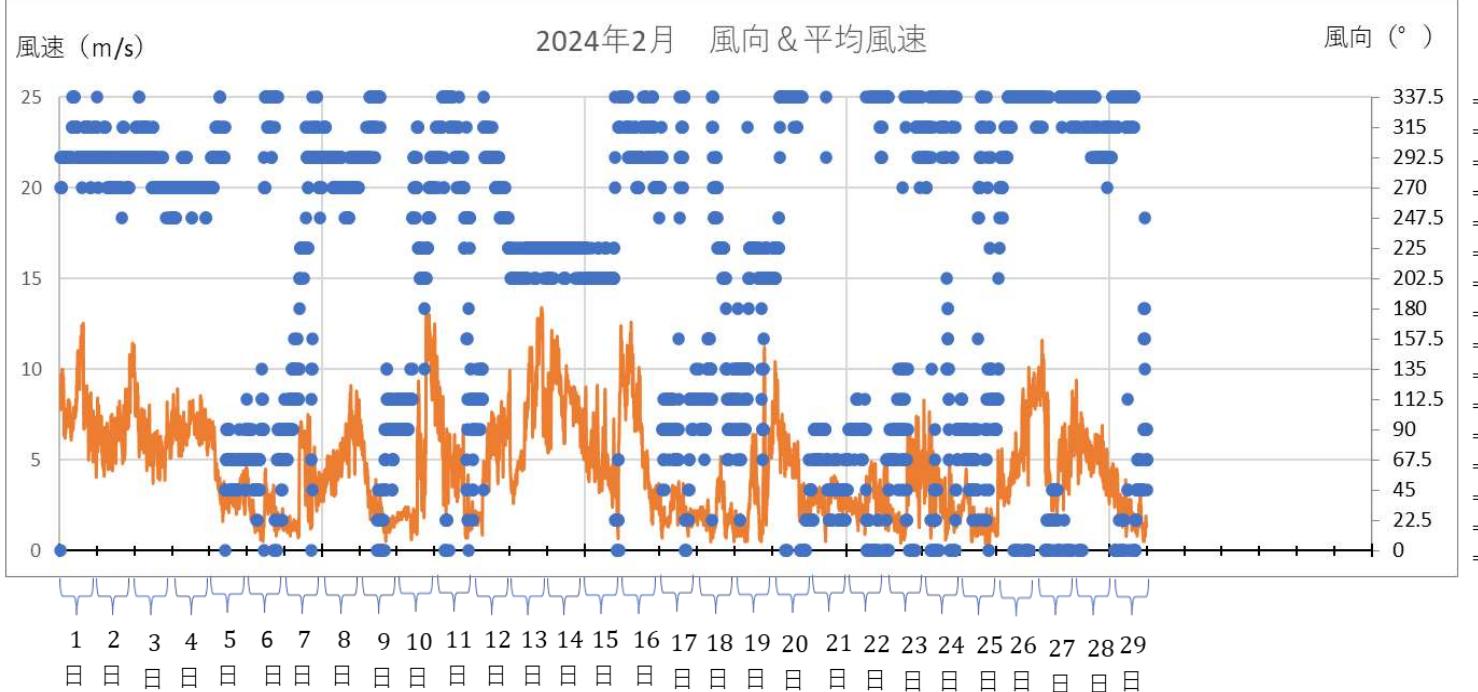


風向の方位を角度に変換し、その結果から散布図のグラフを作成。

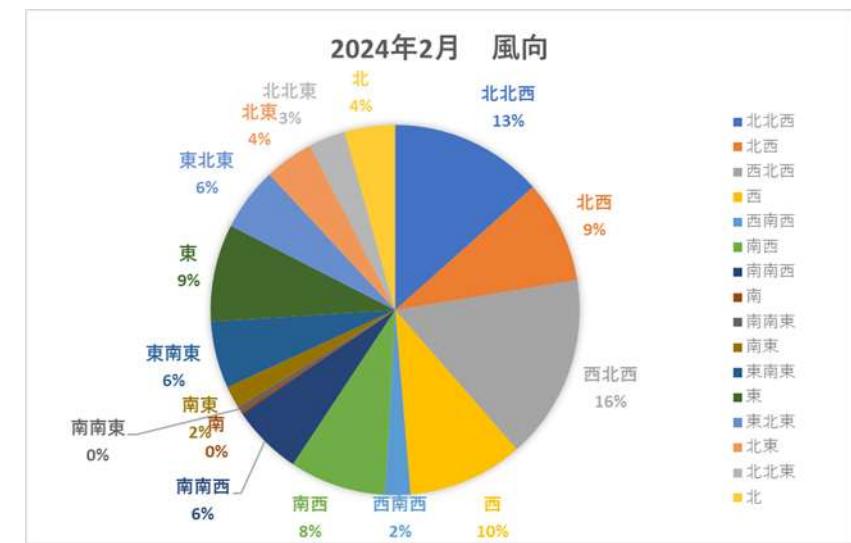
# 2024年1月の結果

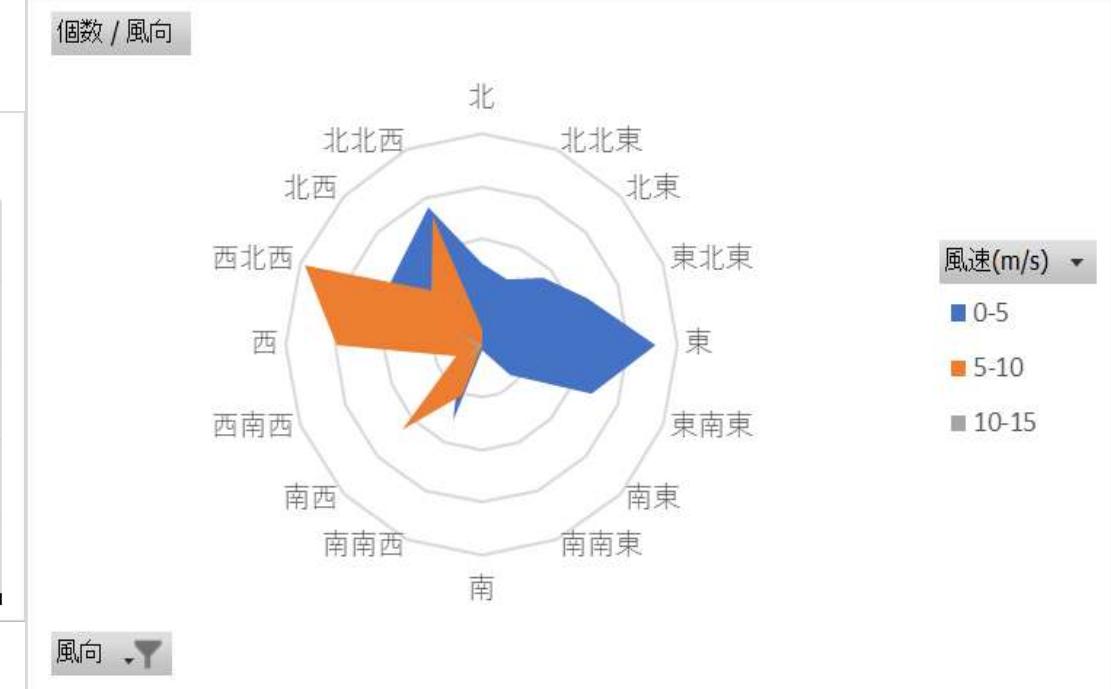
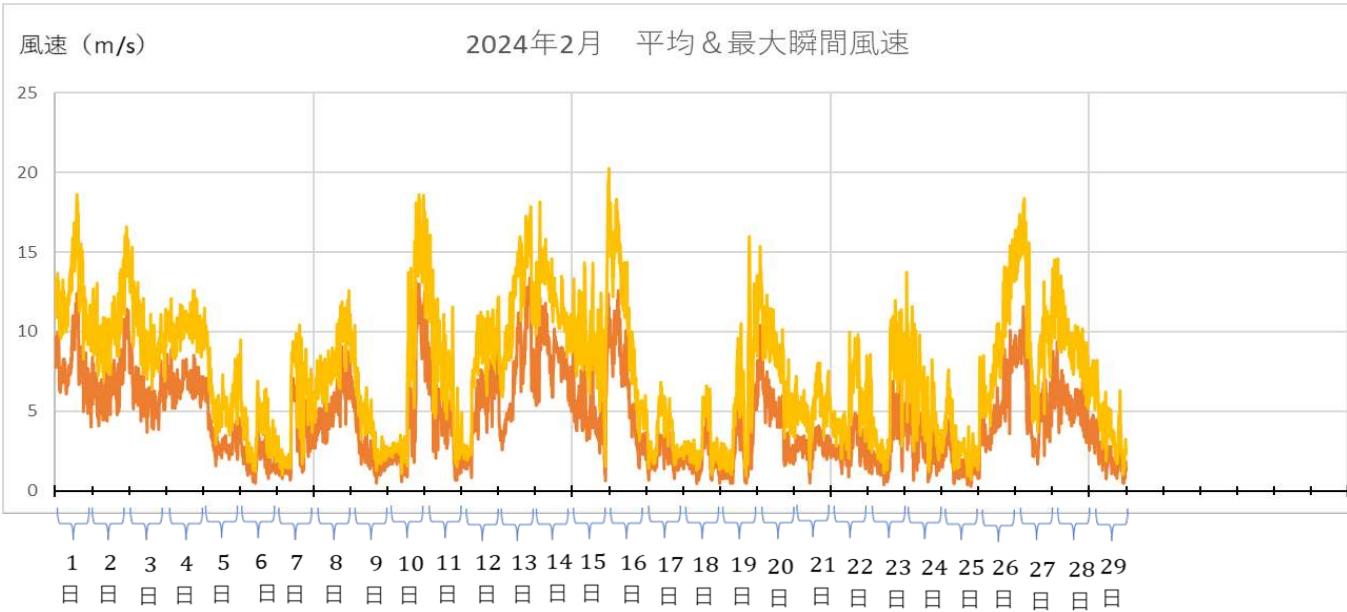
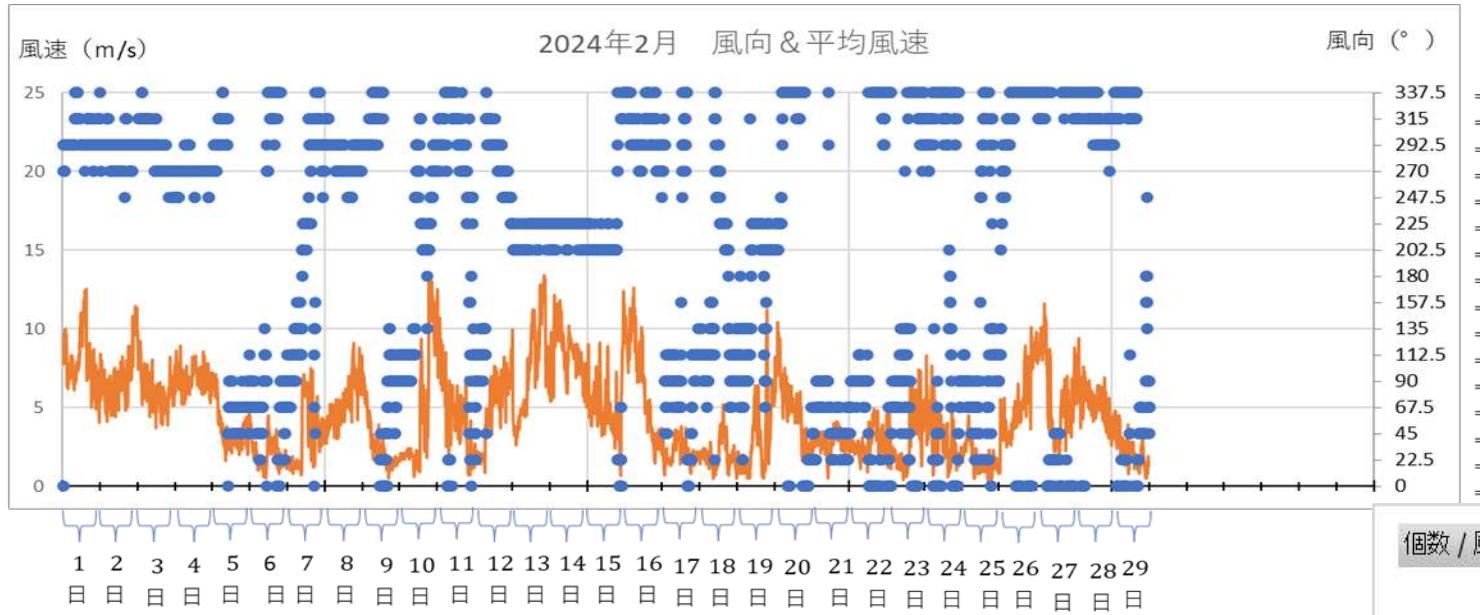




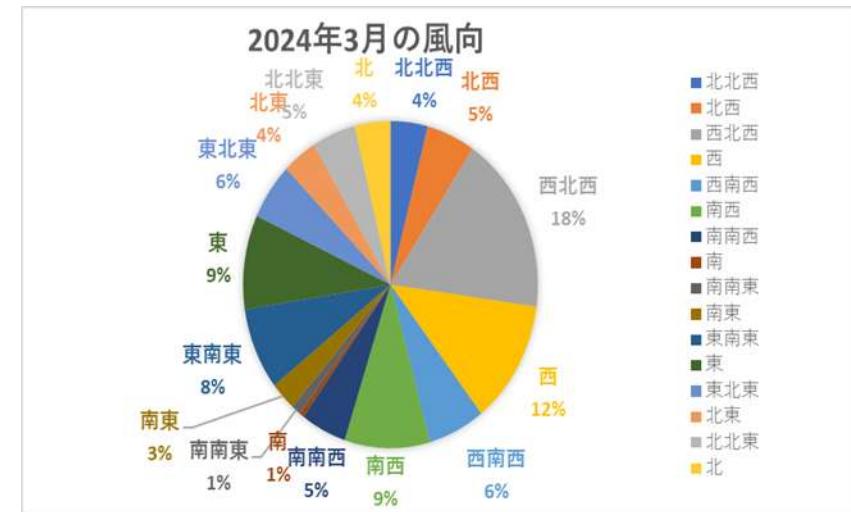
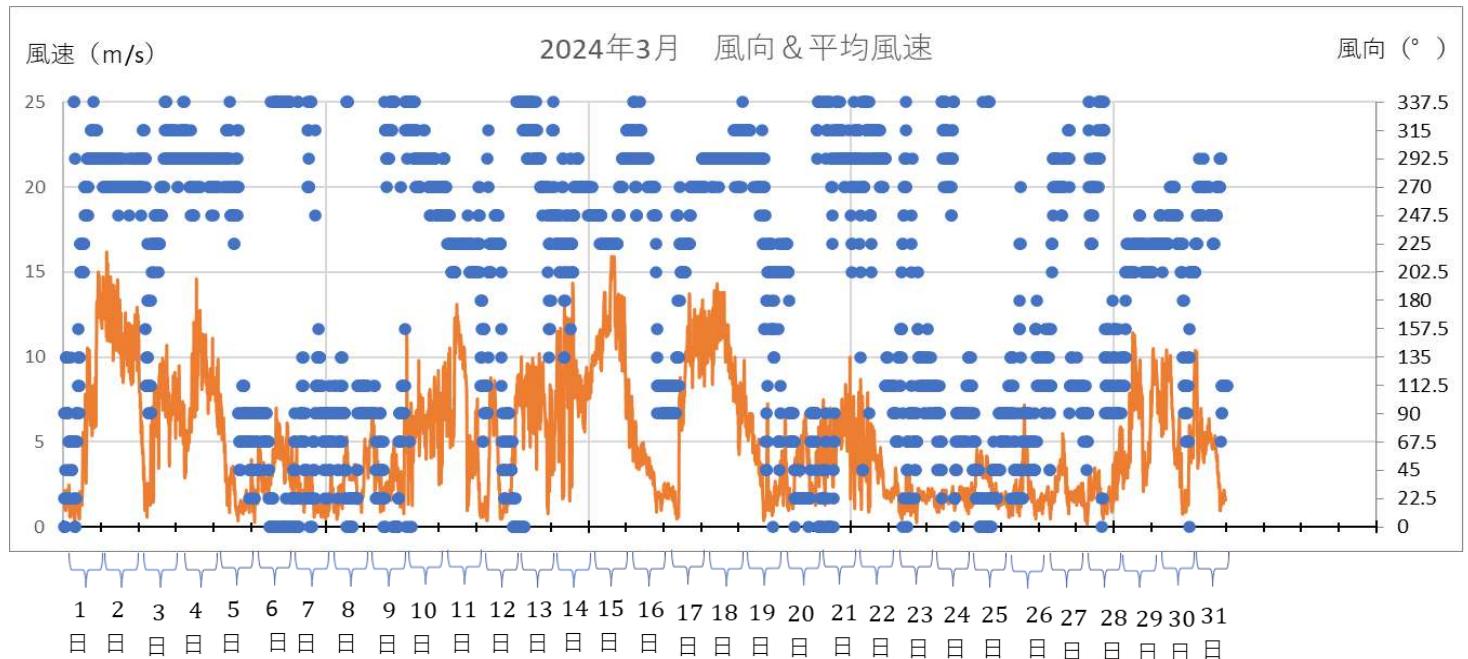


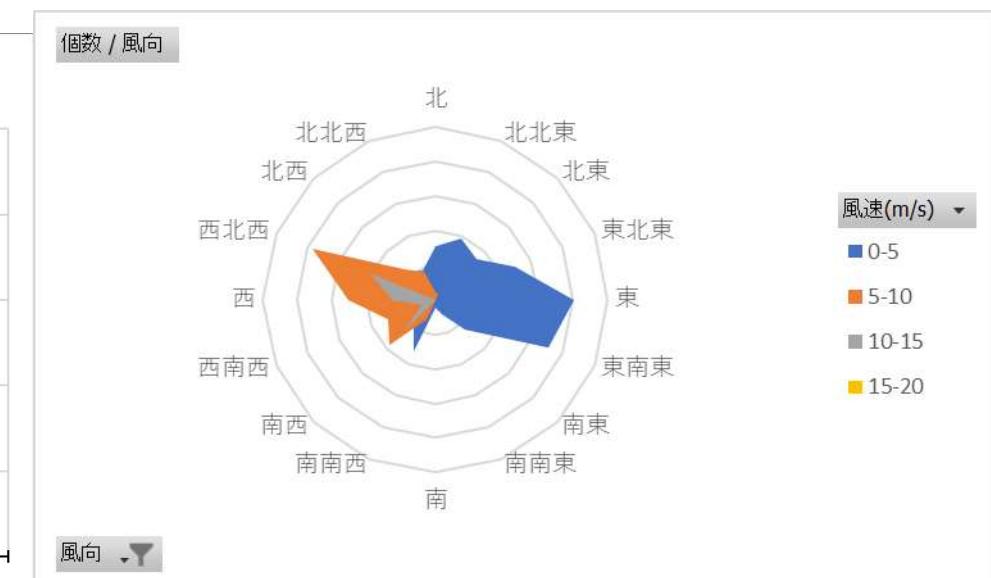
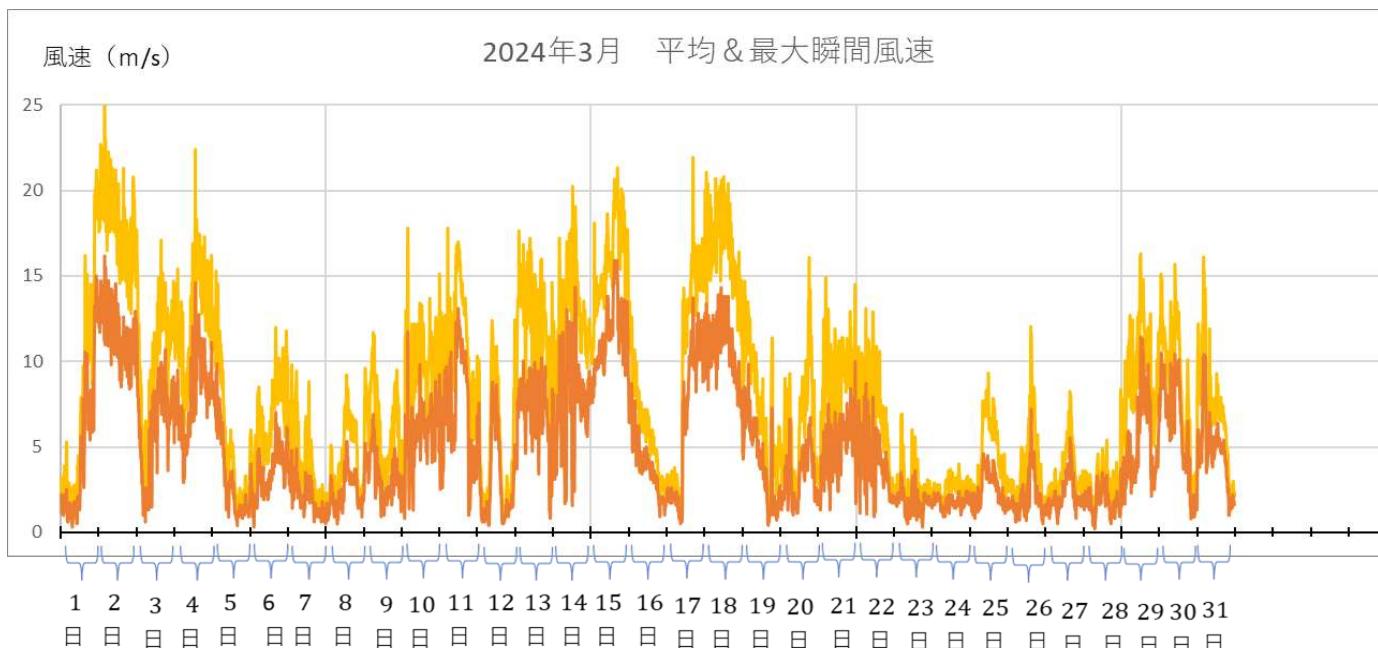
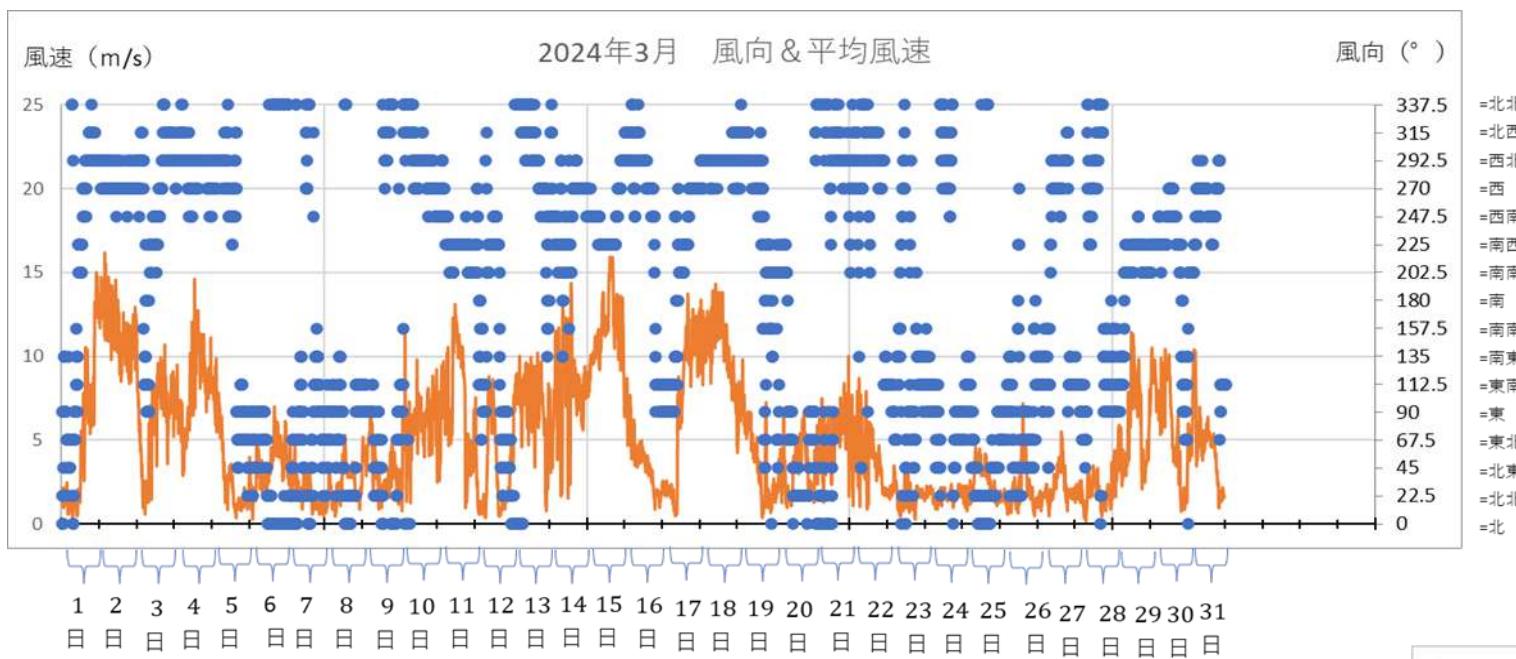
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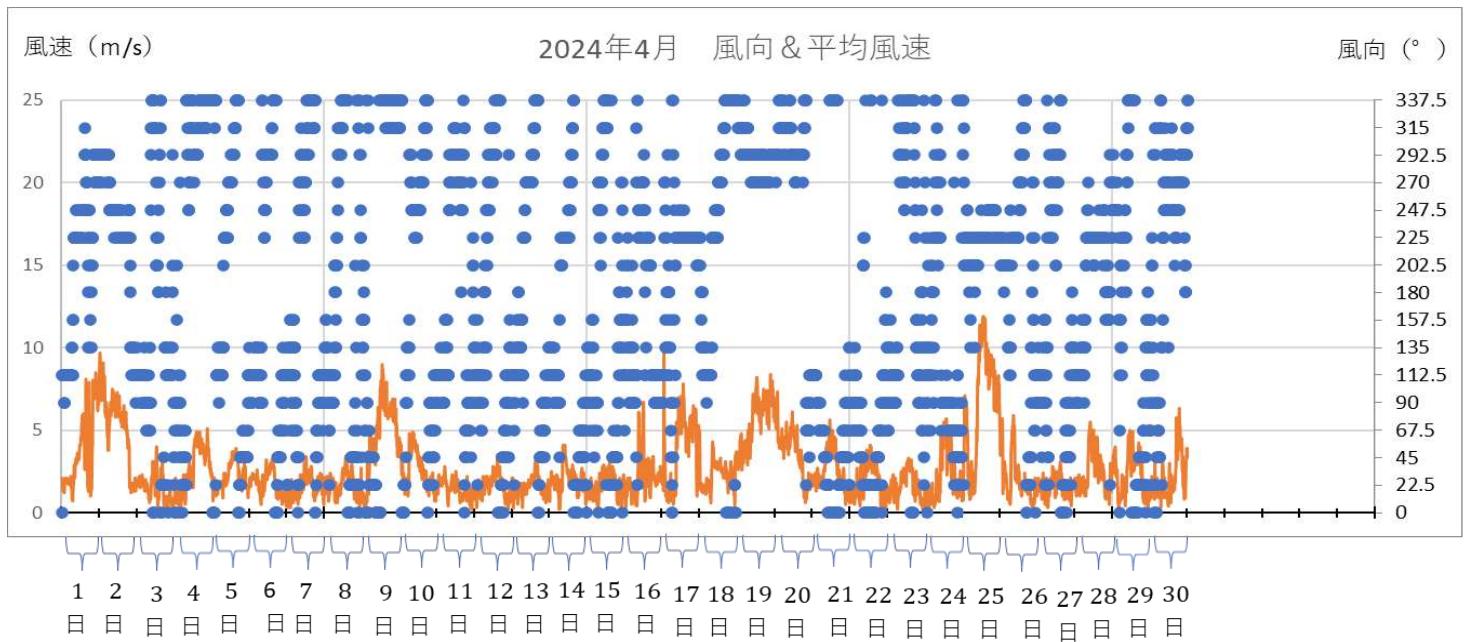




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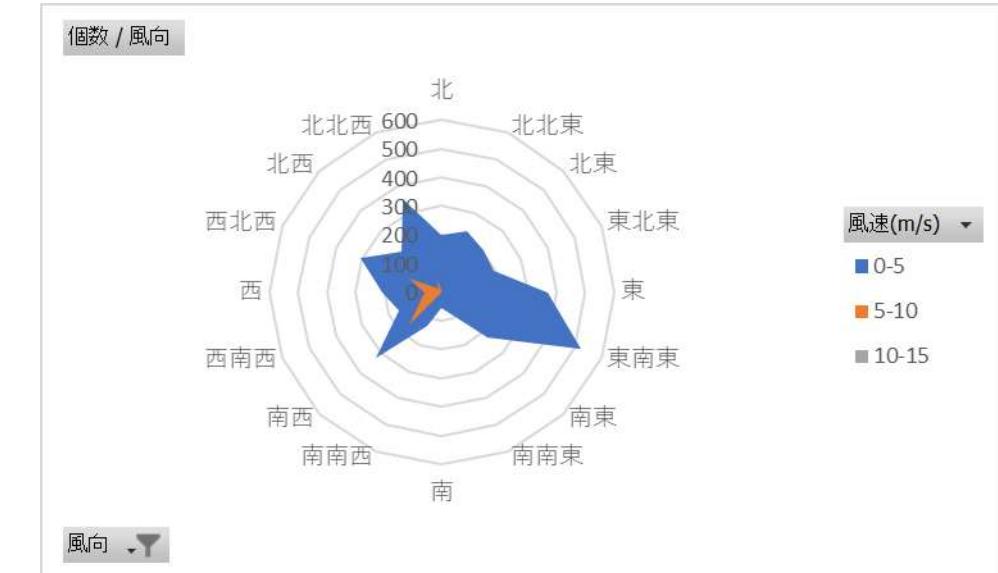
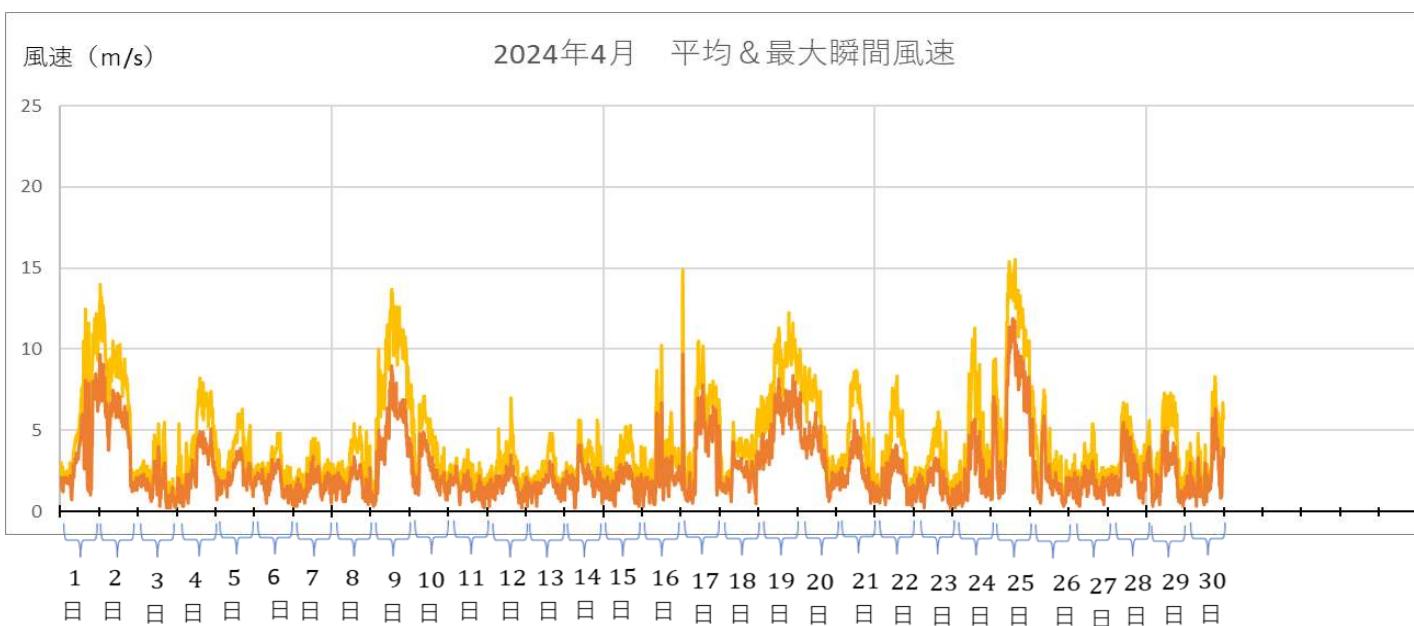
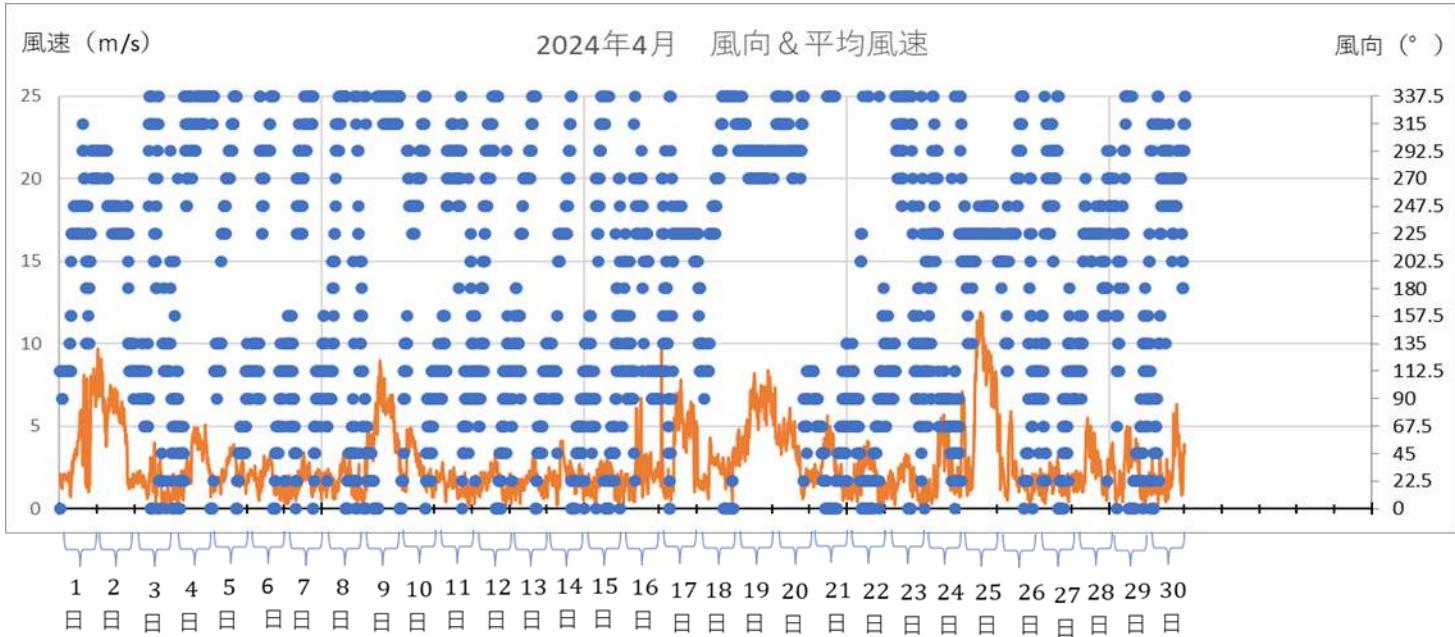


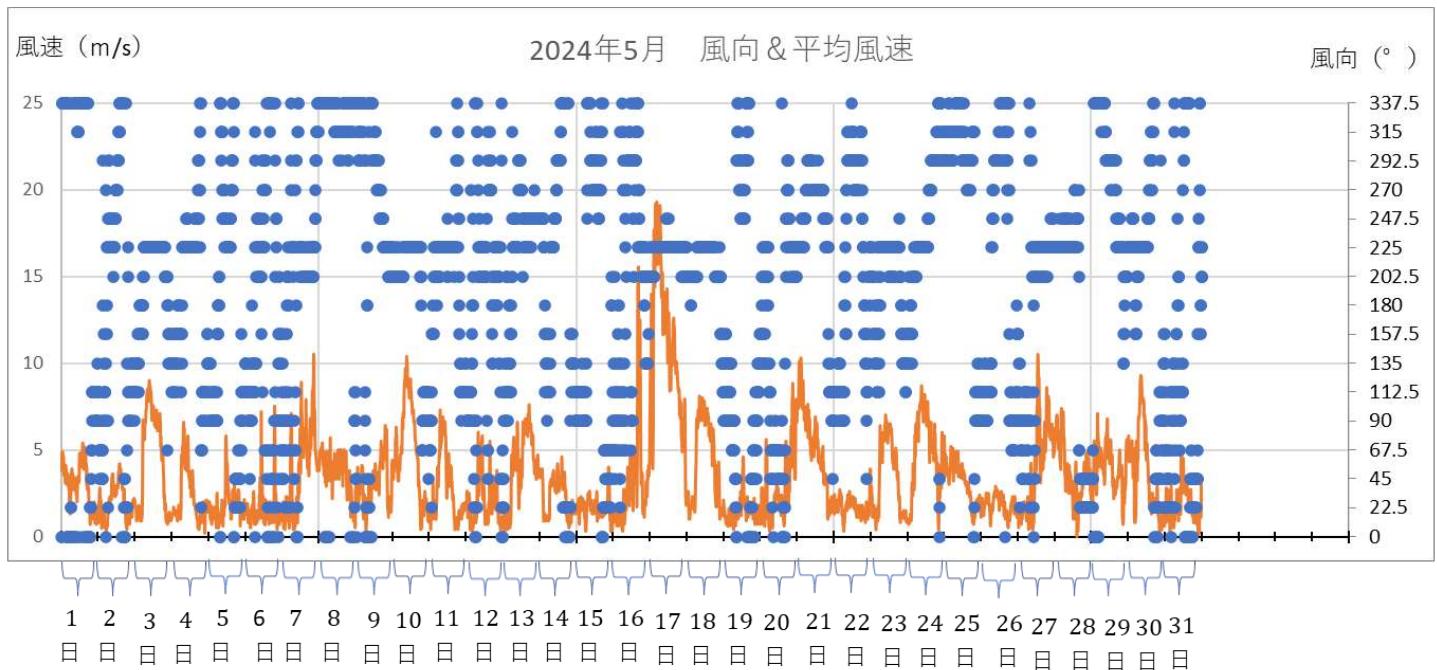




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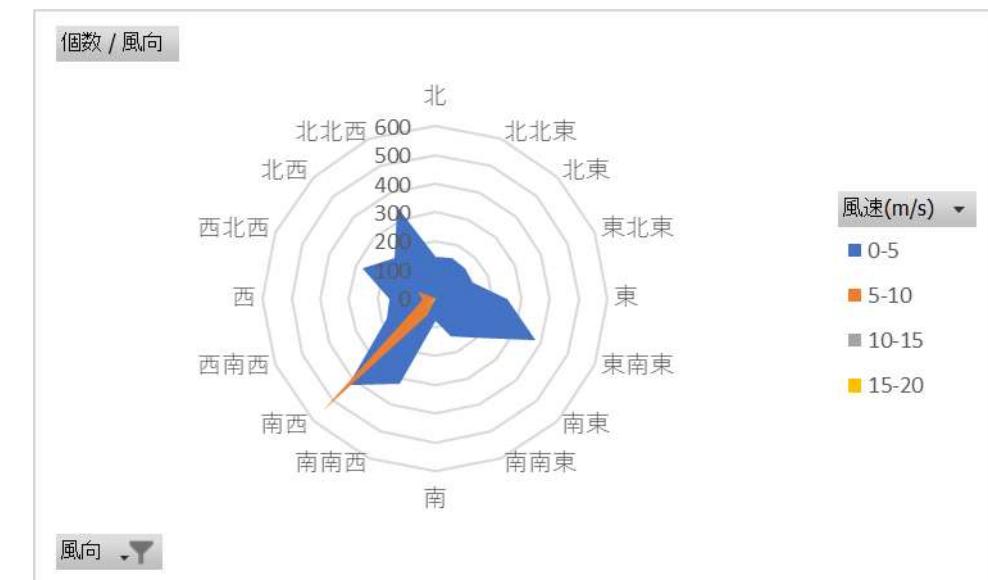
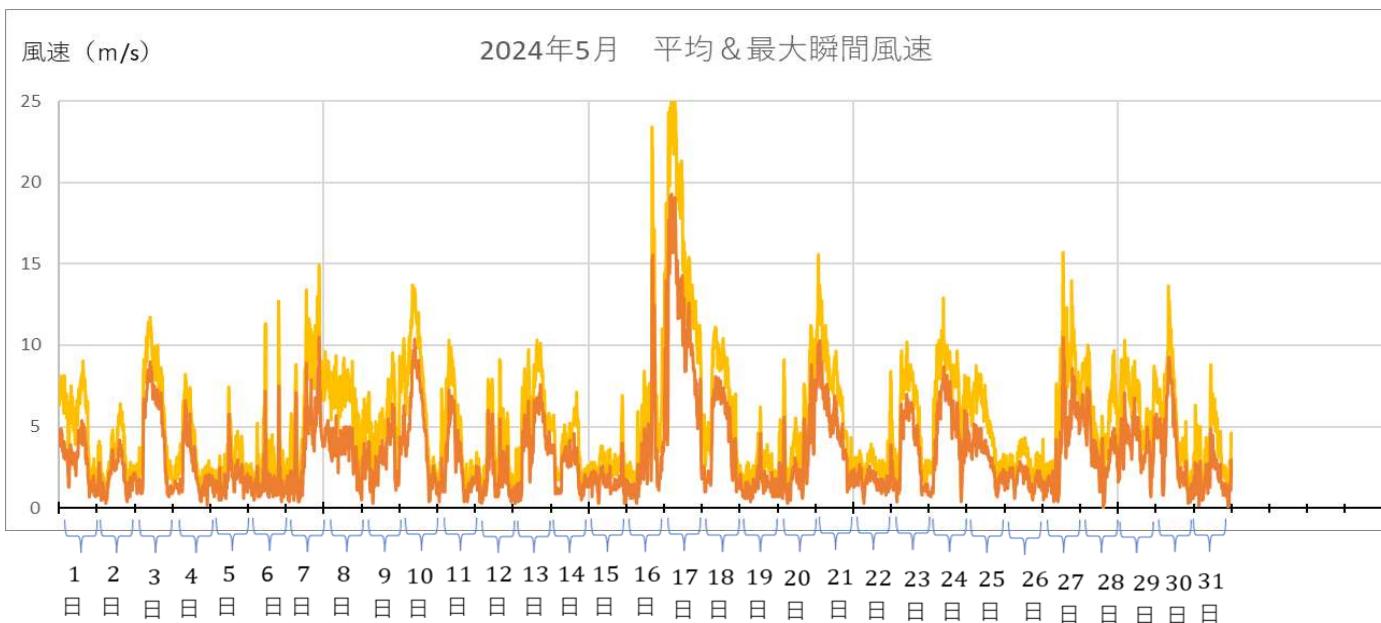
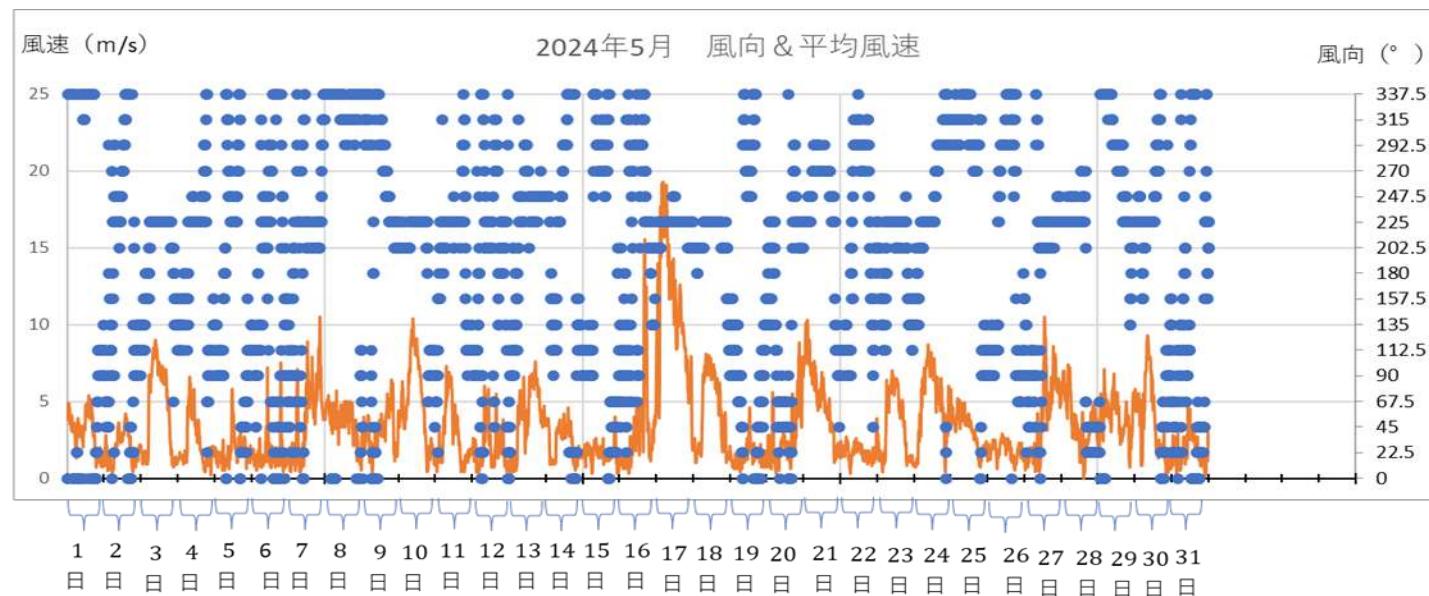


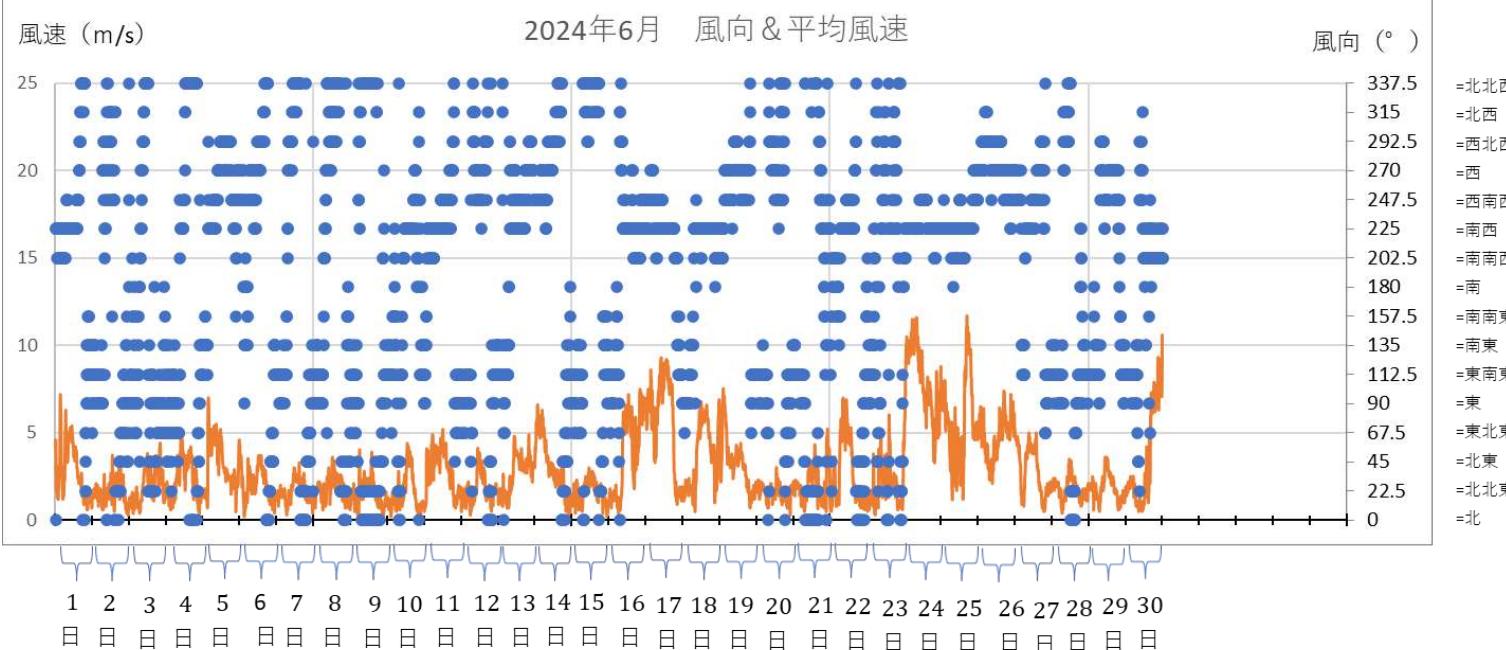




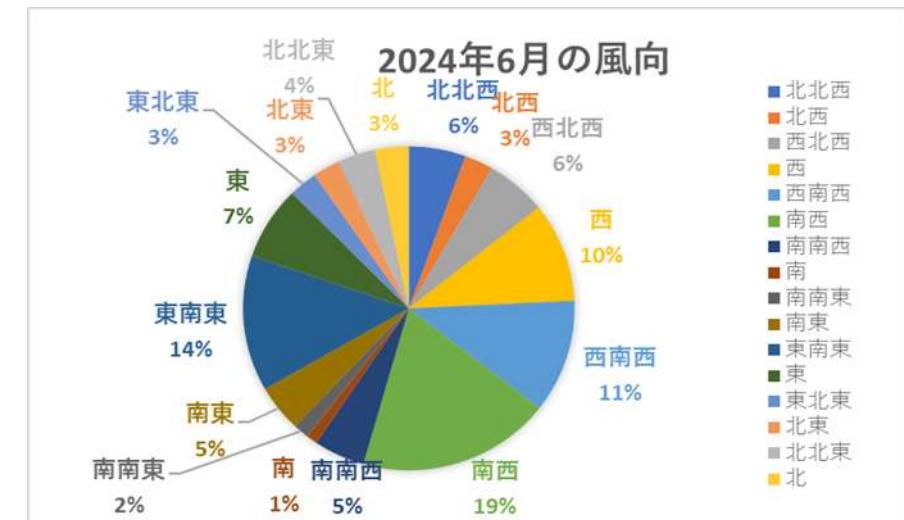
## 2024年5月の結果







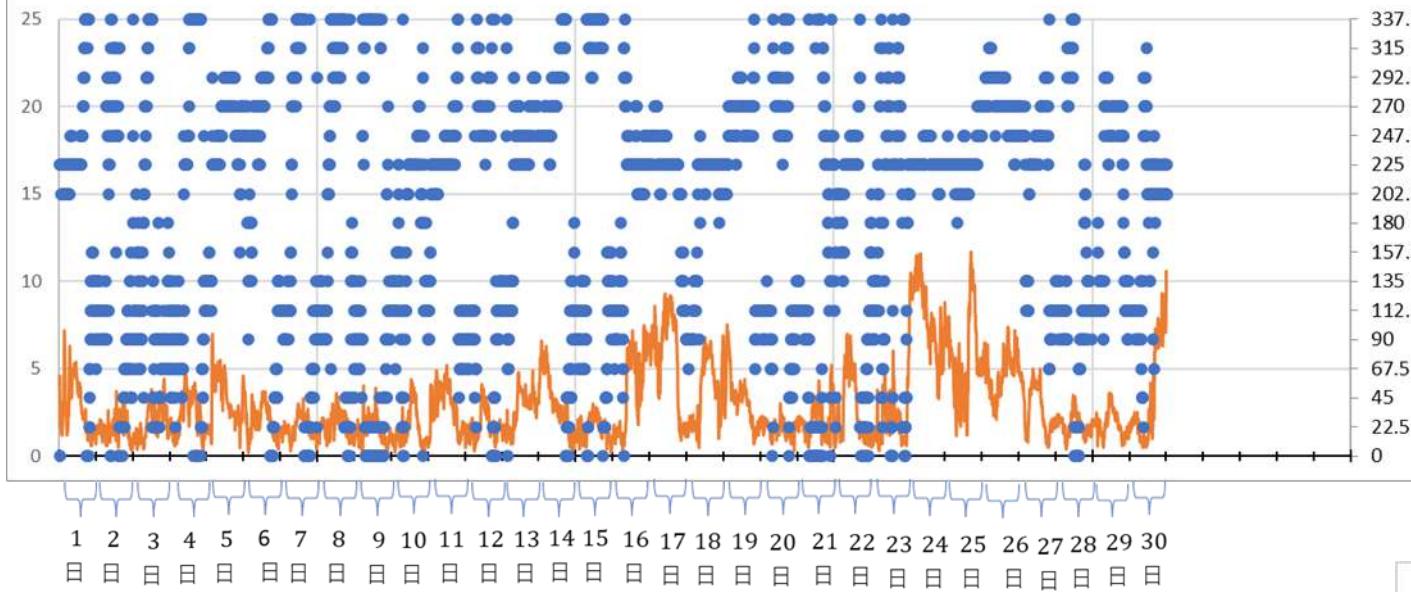
## 2024年6月の結果



風速 (m/s)

## 2024年6月 風向 &amp; 平均風速

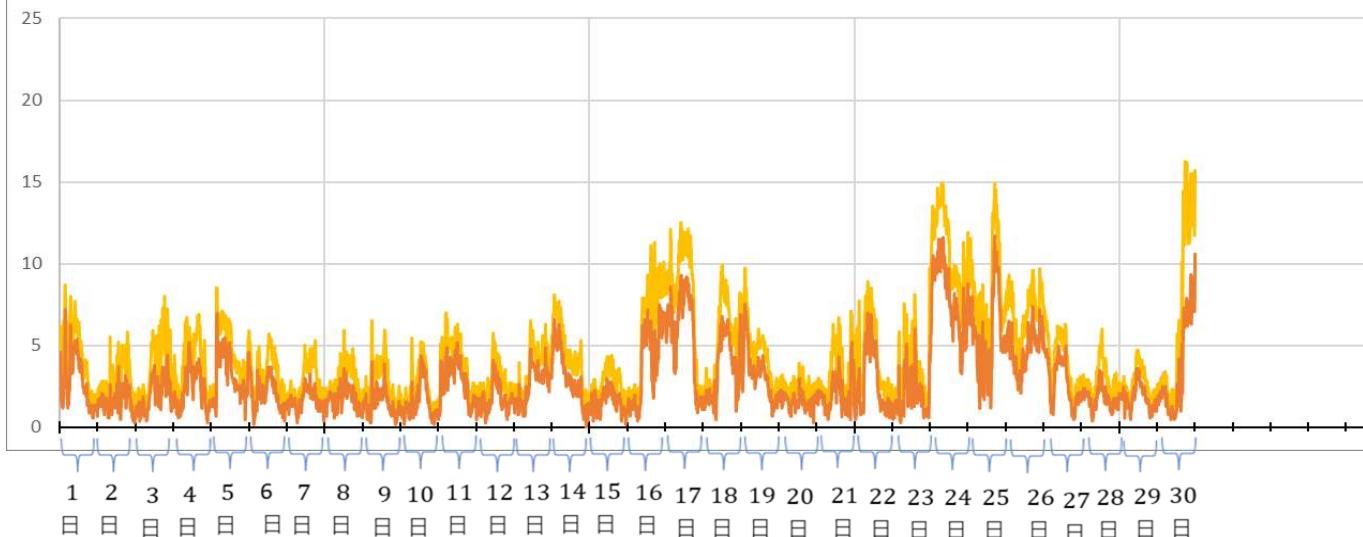
風向 (°)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  
日 日

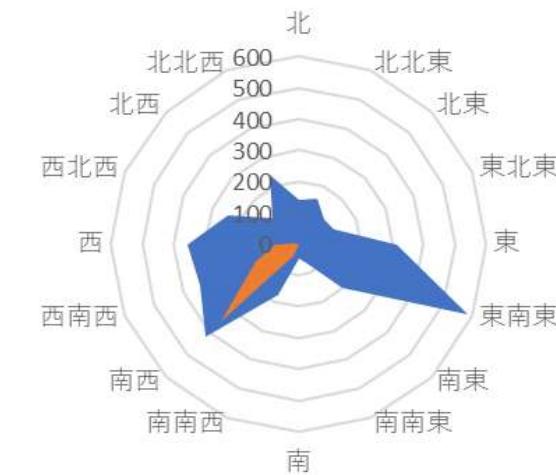
風速 (m/s)

## 2024年6月 平均 &amp; 最大瞬間風速



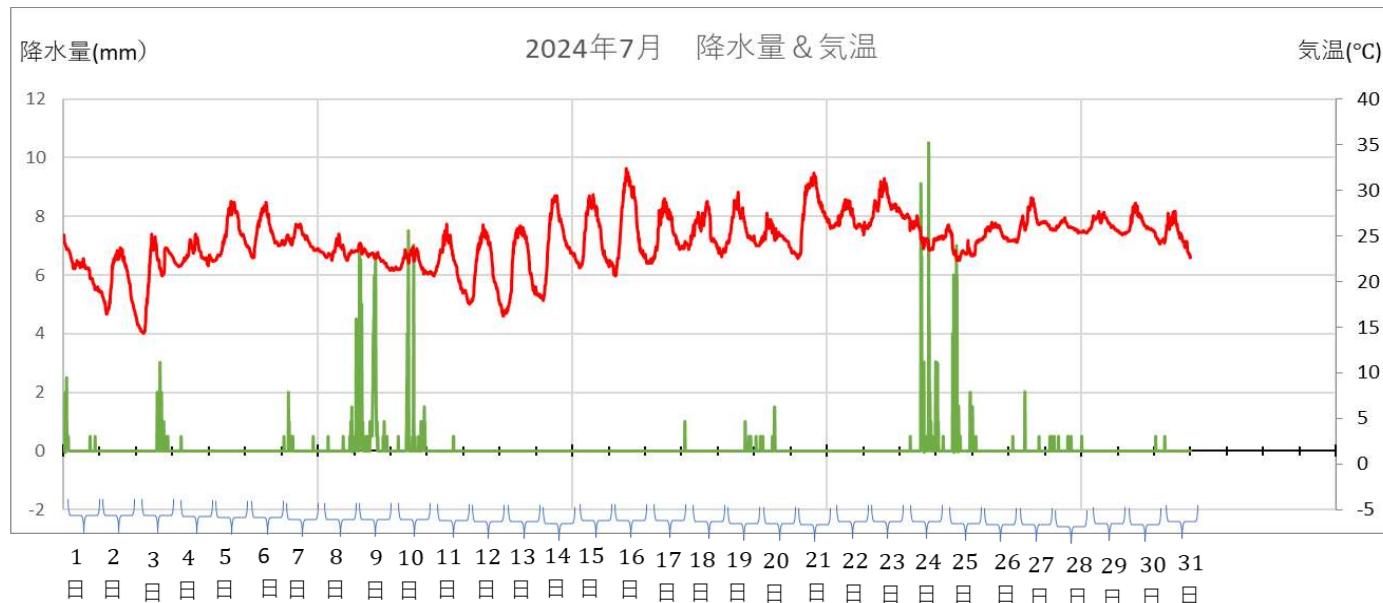
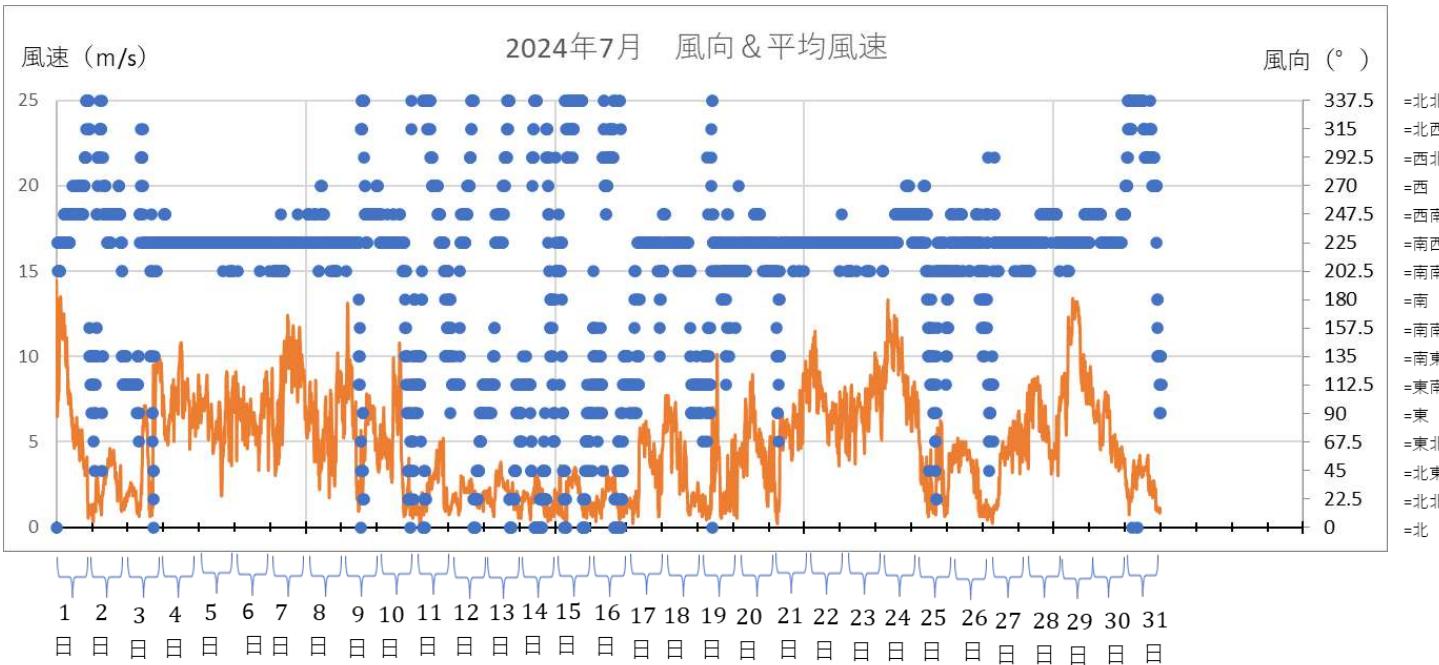
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  
日 日

個數 / 風向

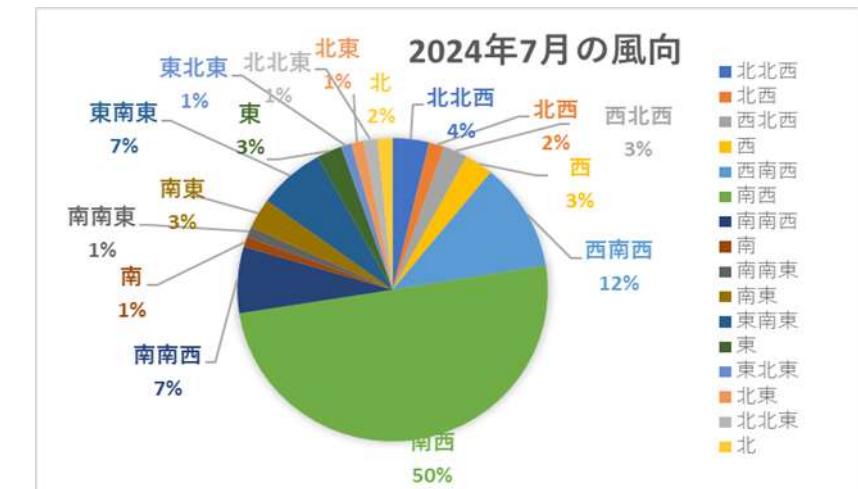


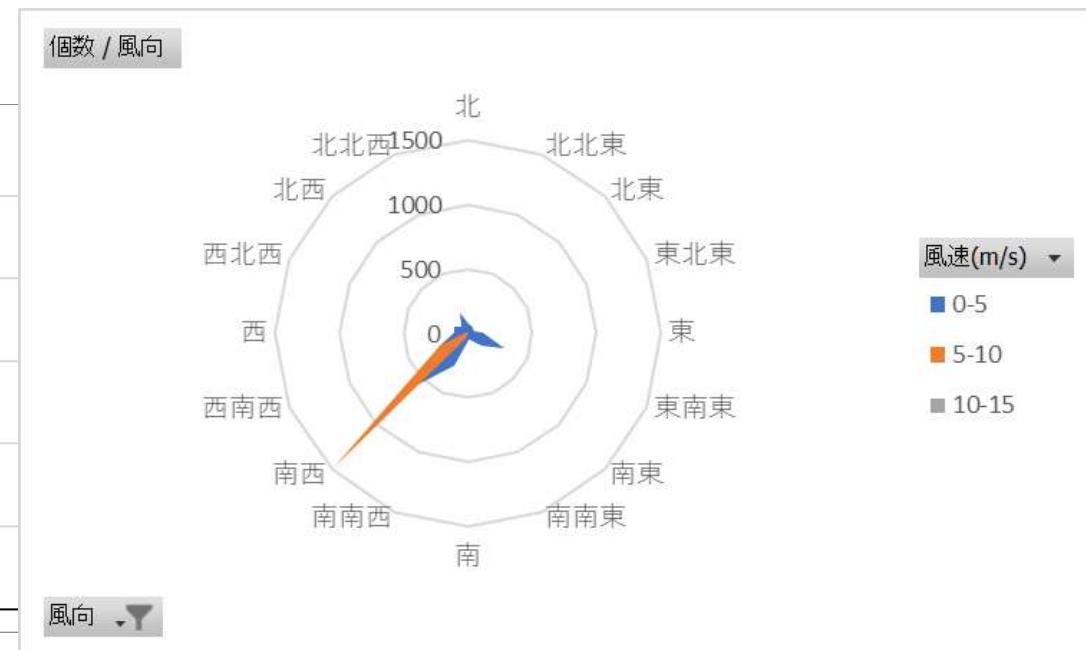
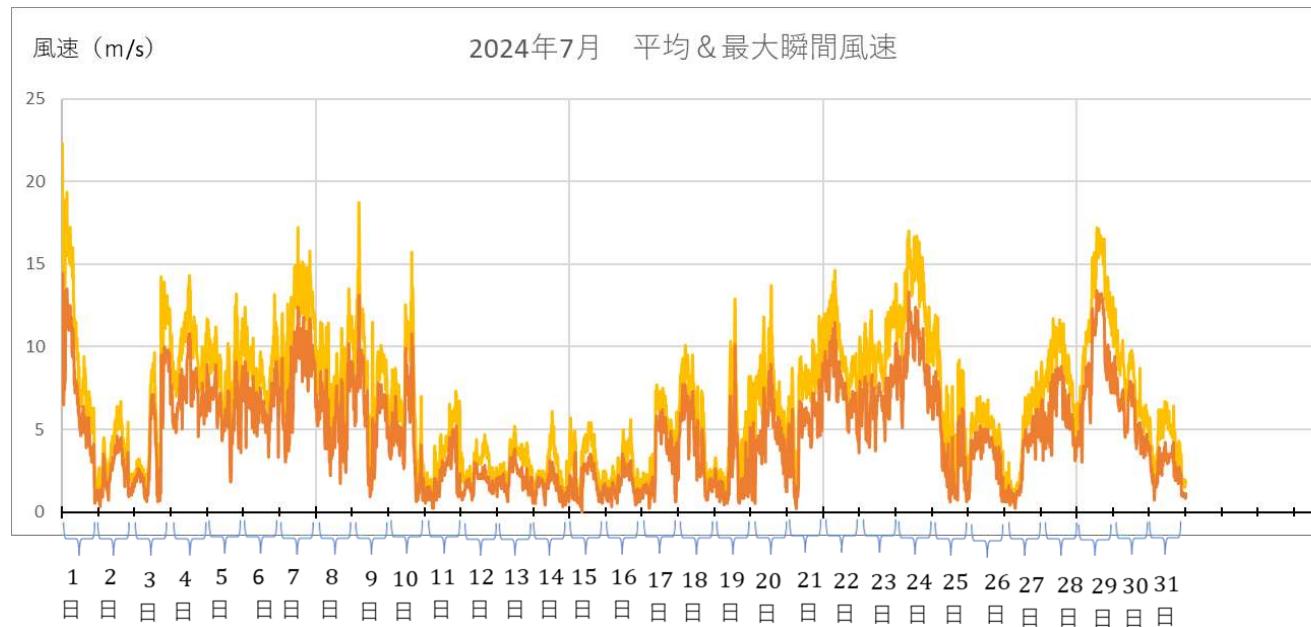
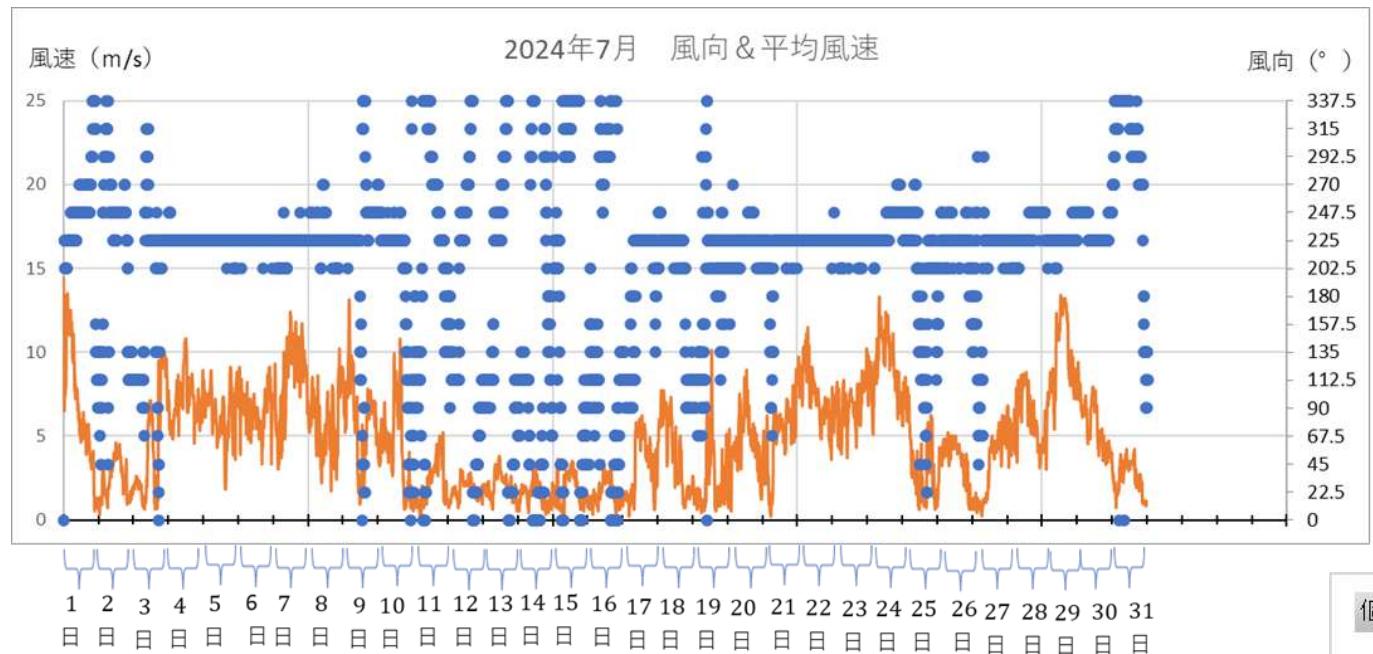
風速(m/s) ▾  
■ 0-5  
■ 5-10  
■ 10-15

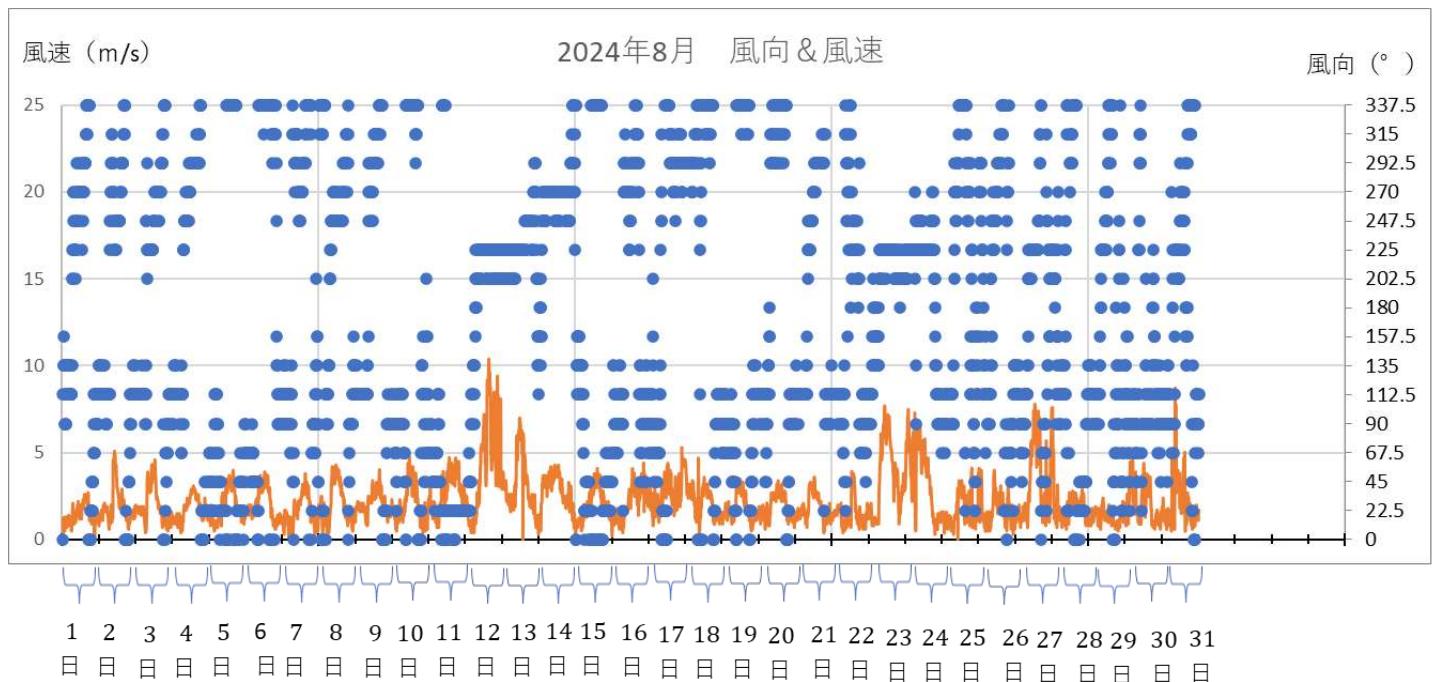
風向 ▾



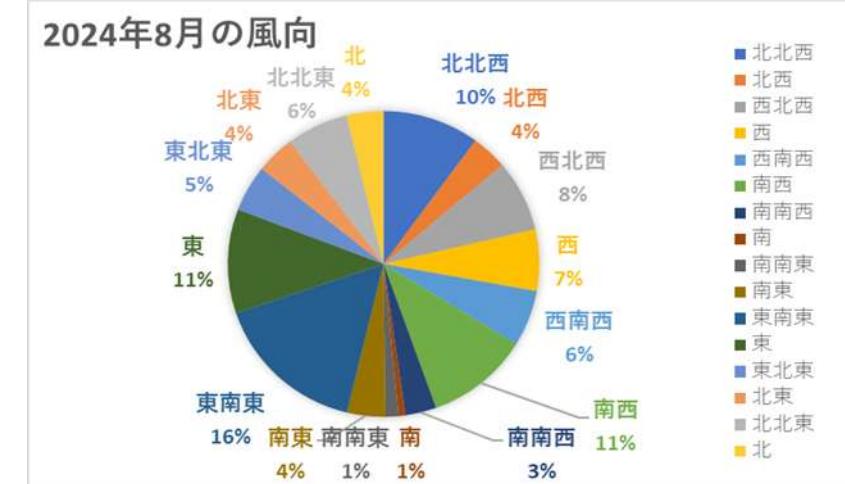
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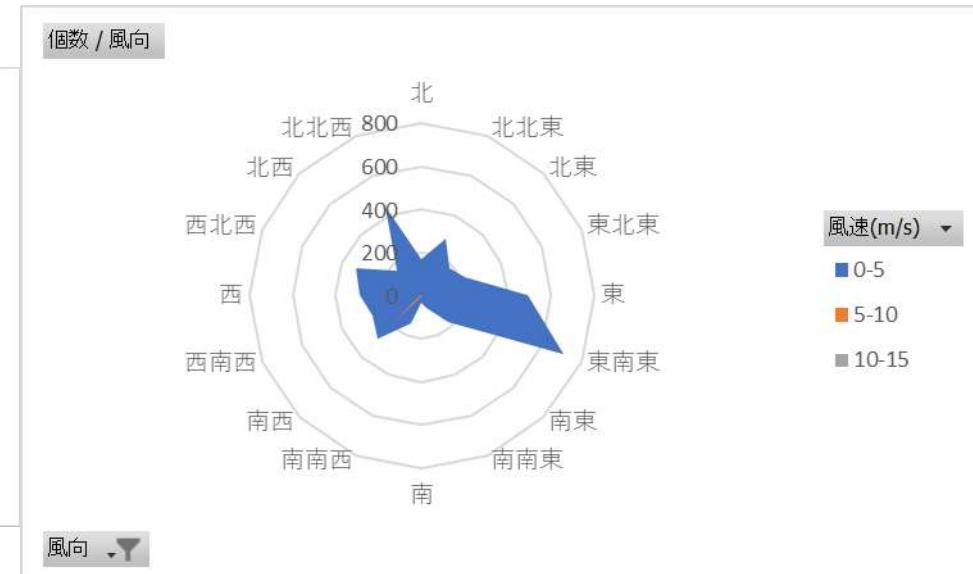
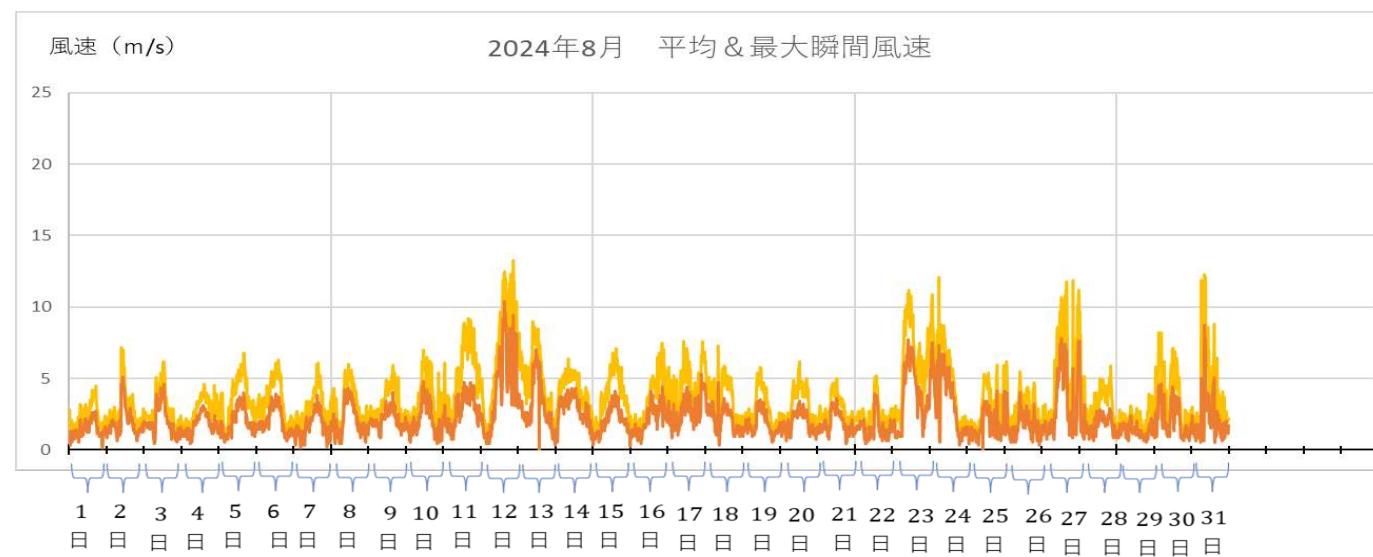
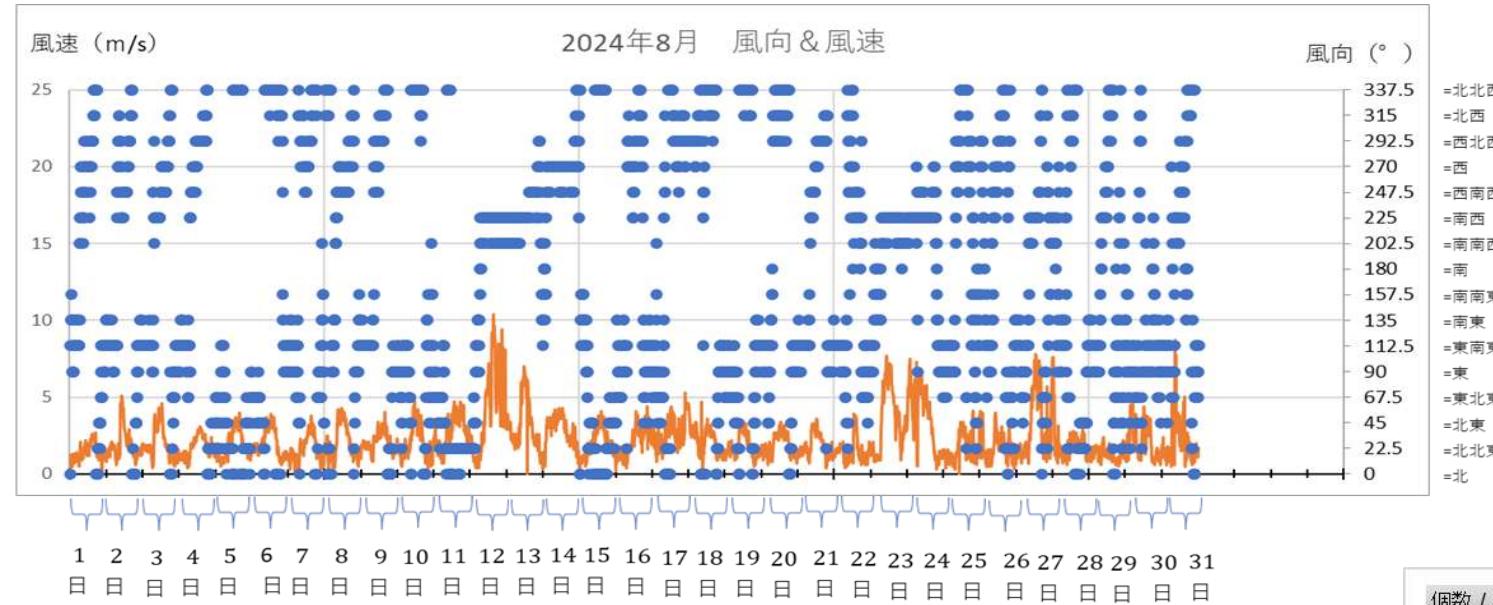


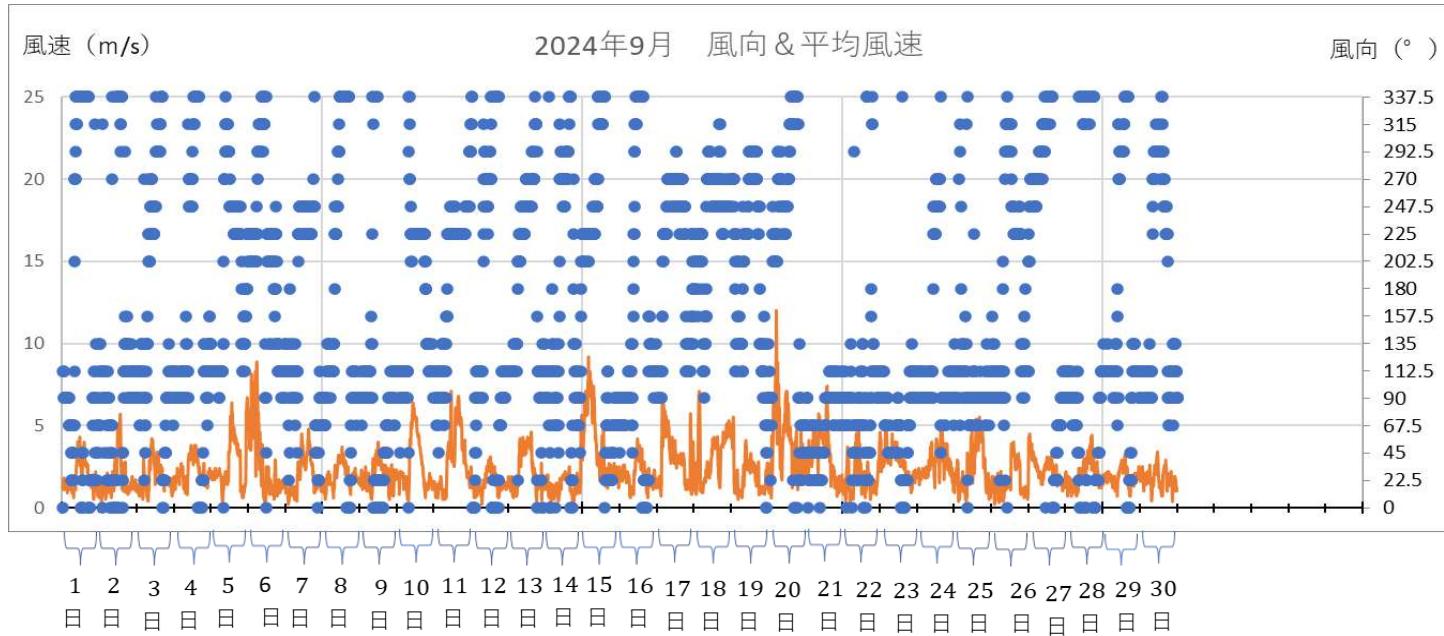




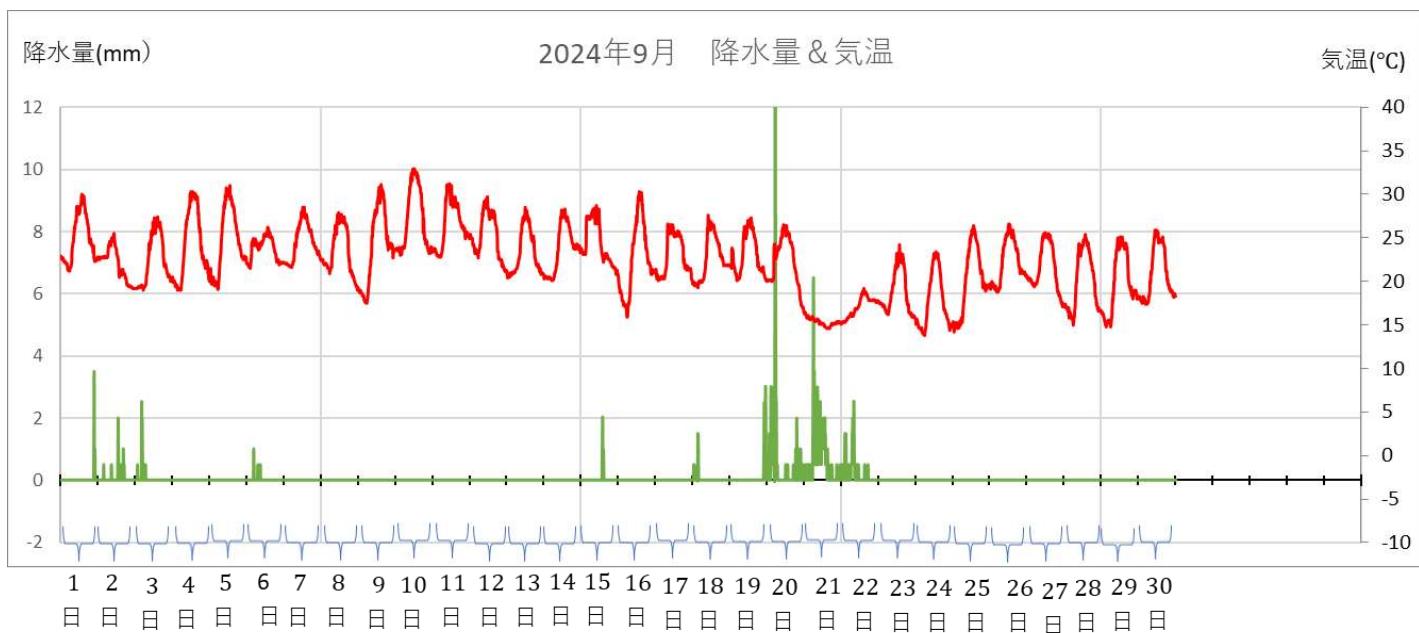
# 2024年8月の結果

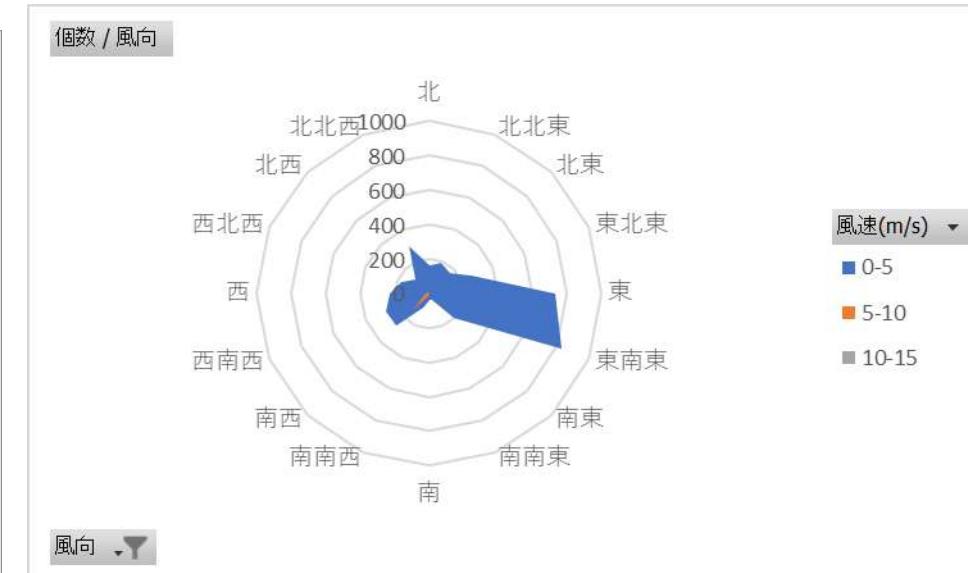
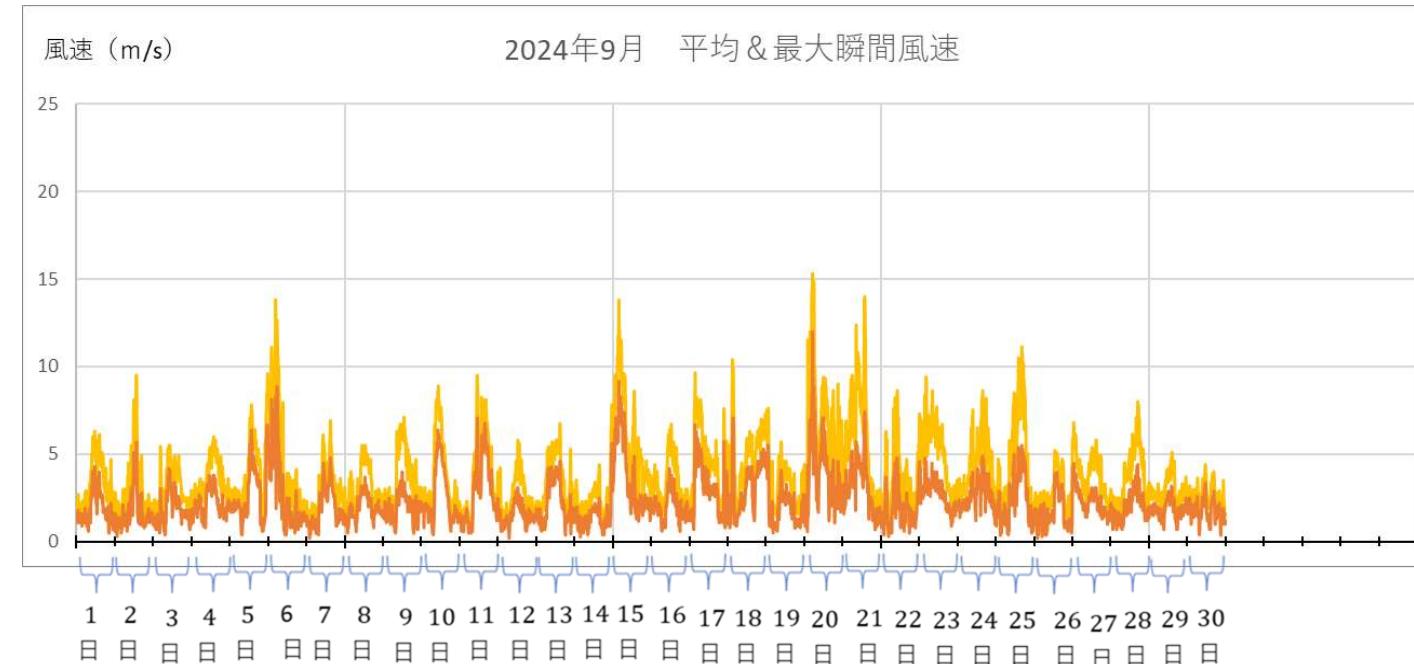
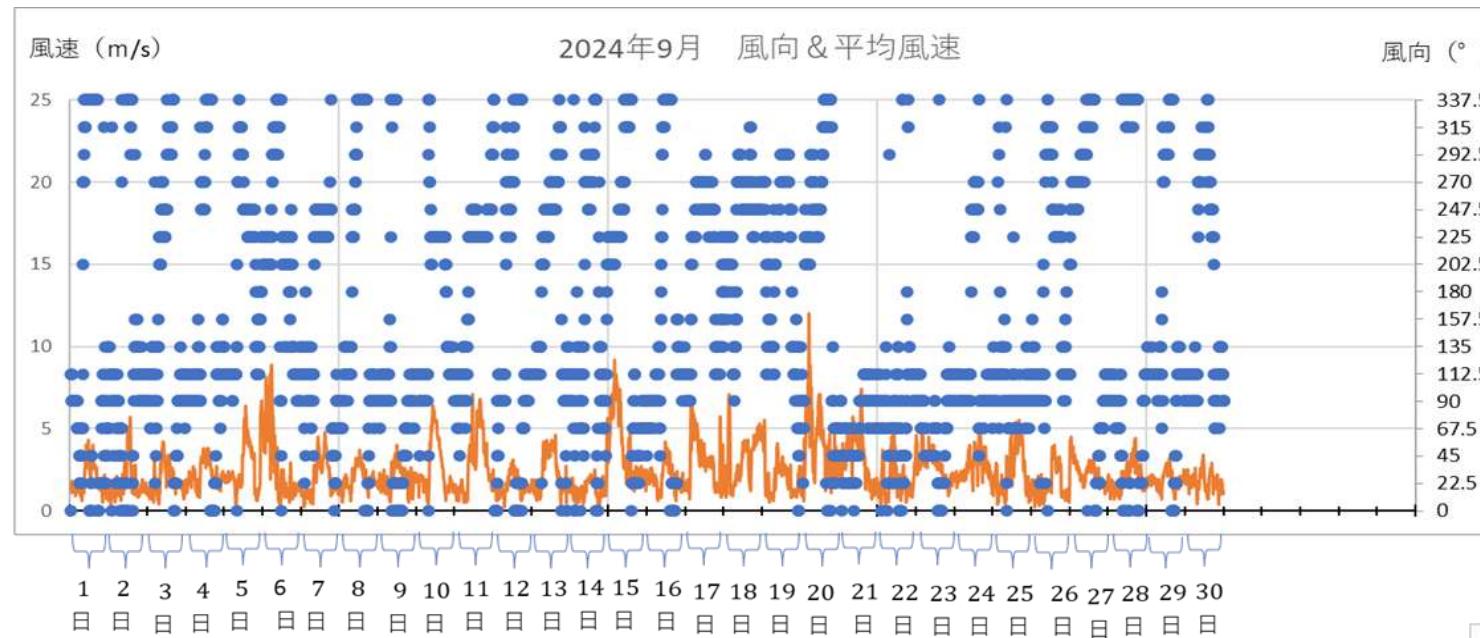


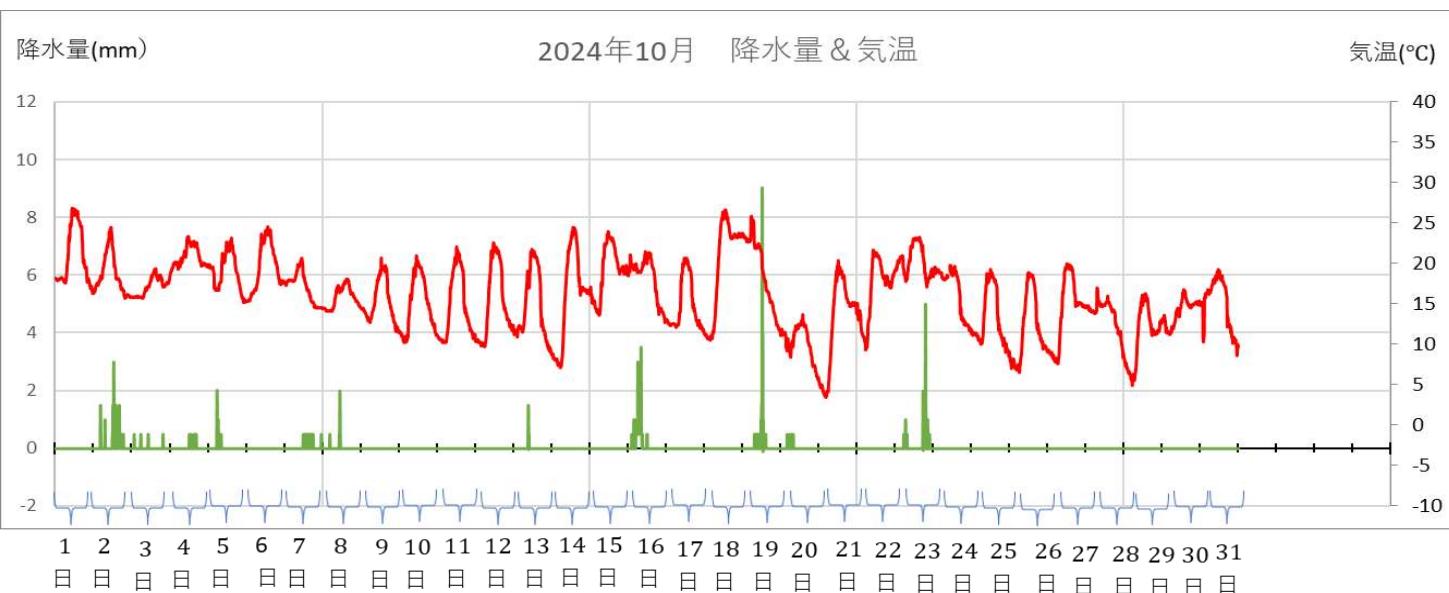
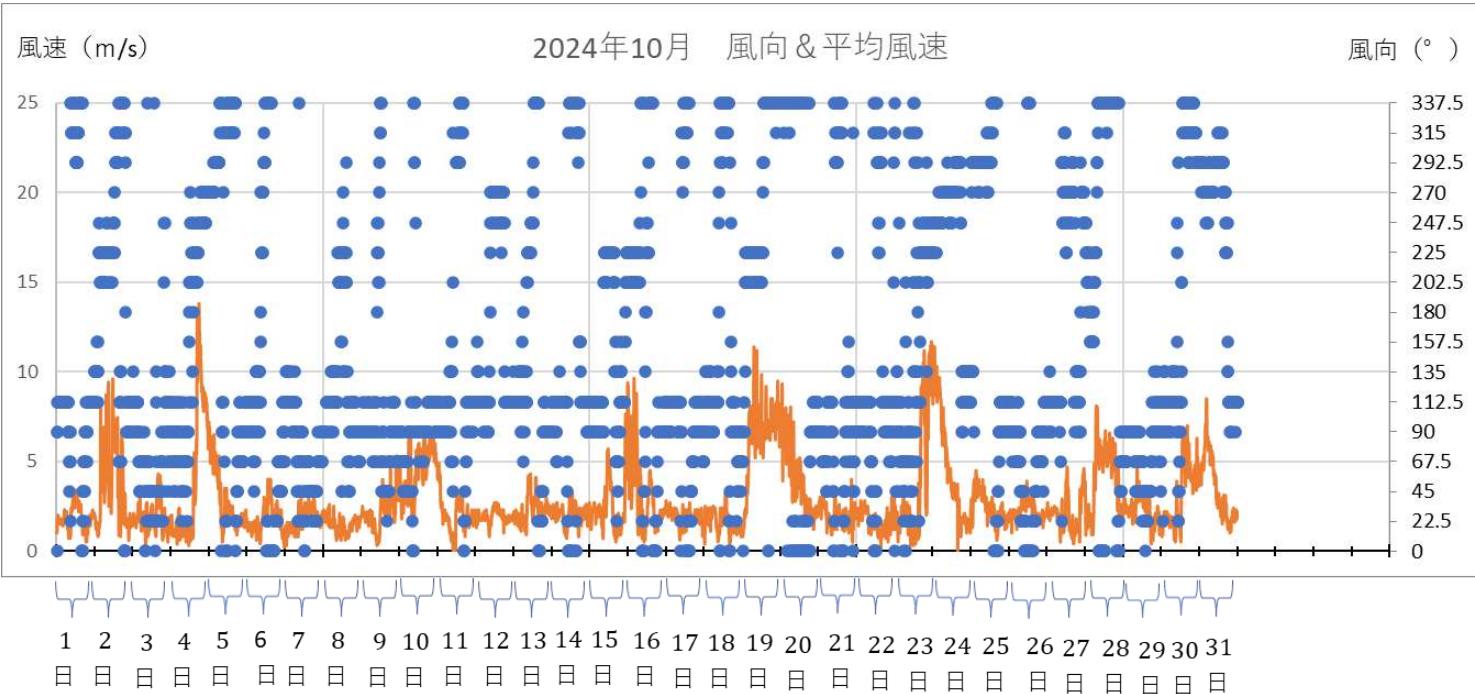




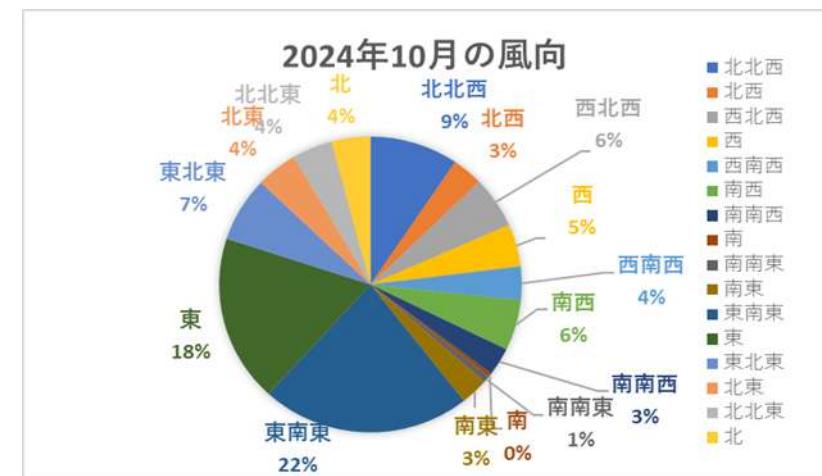
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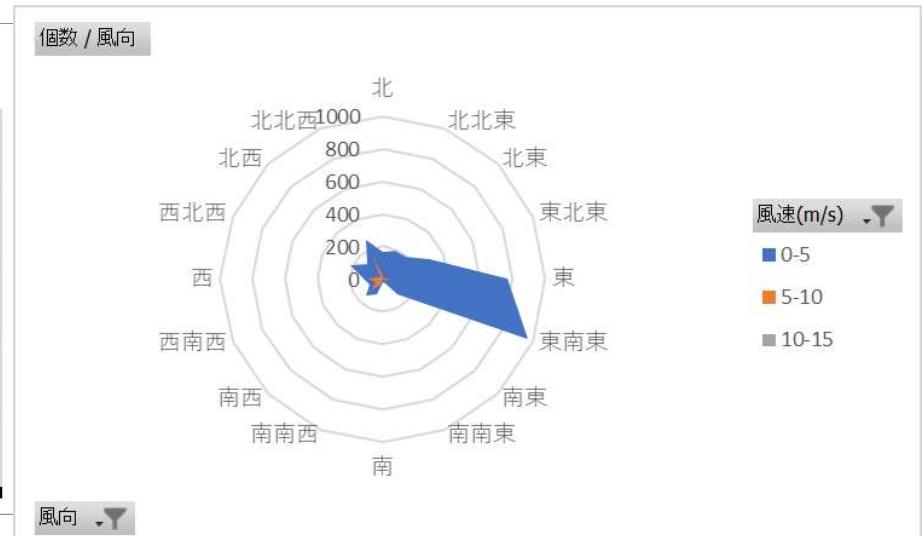
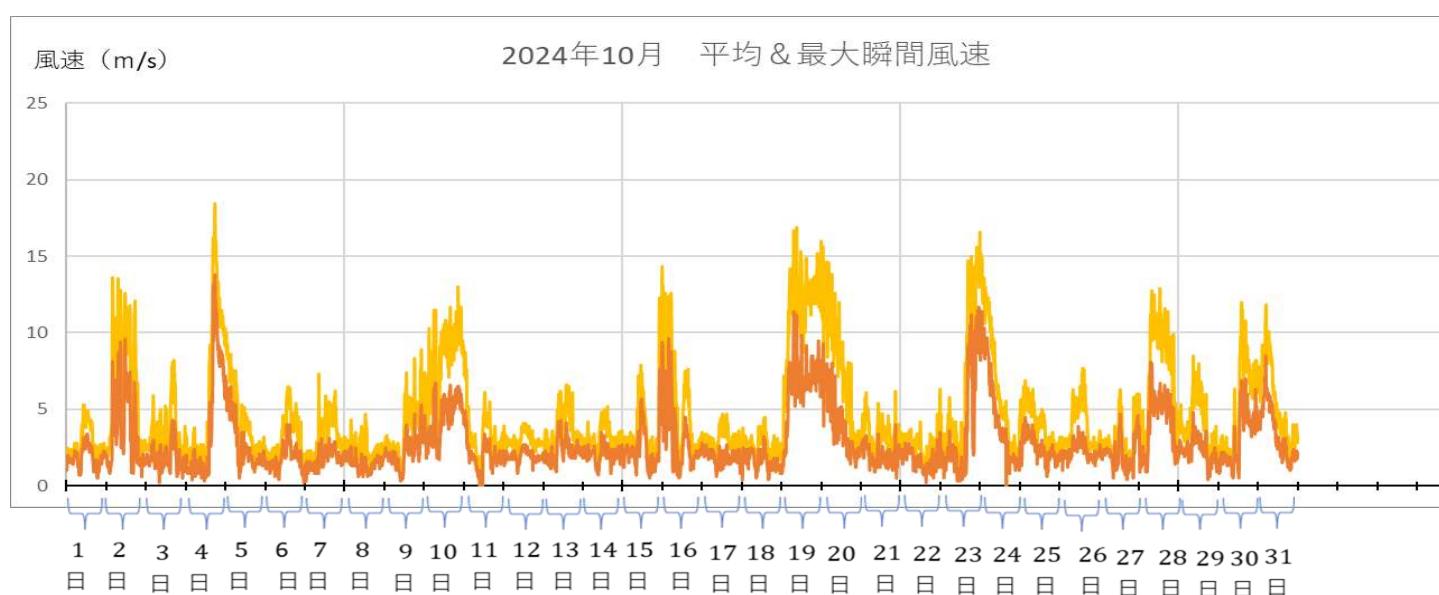
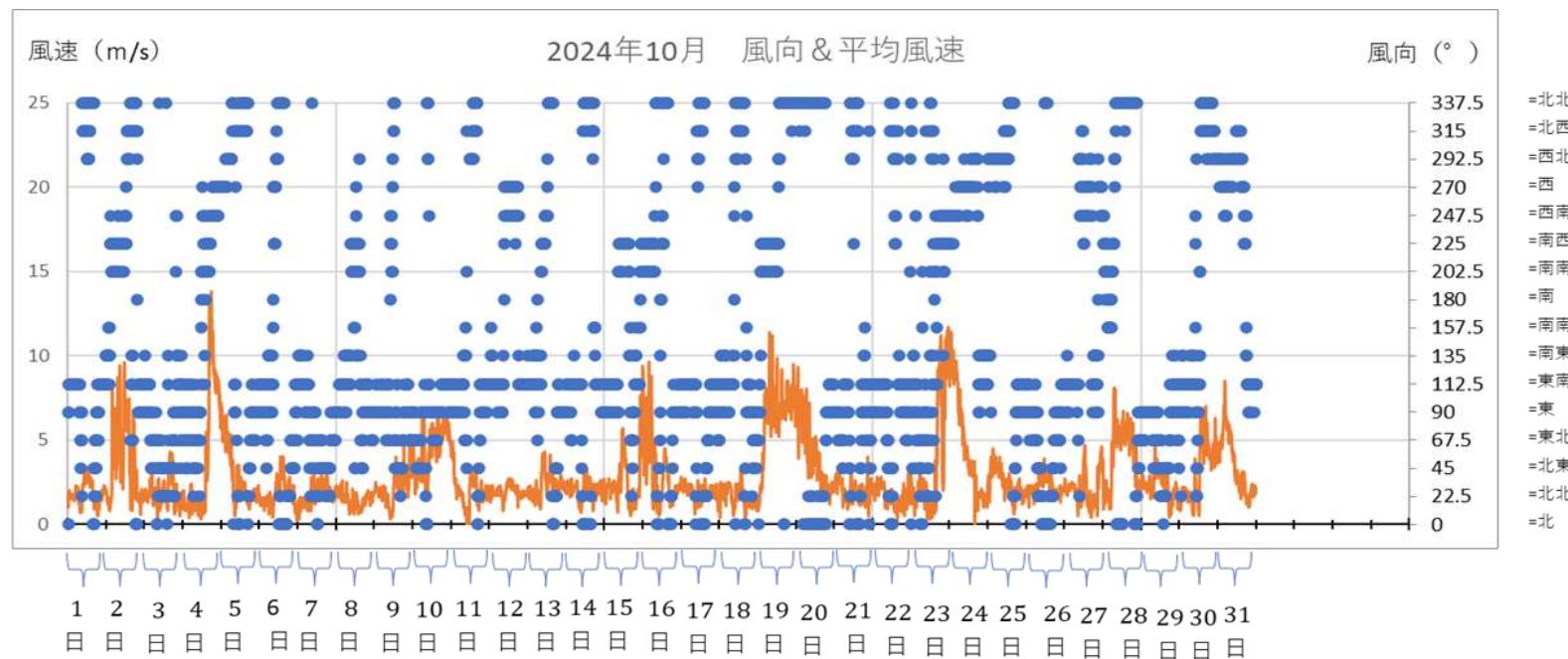


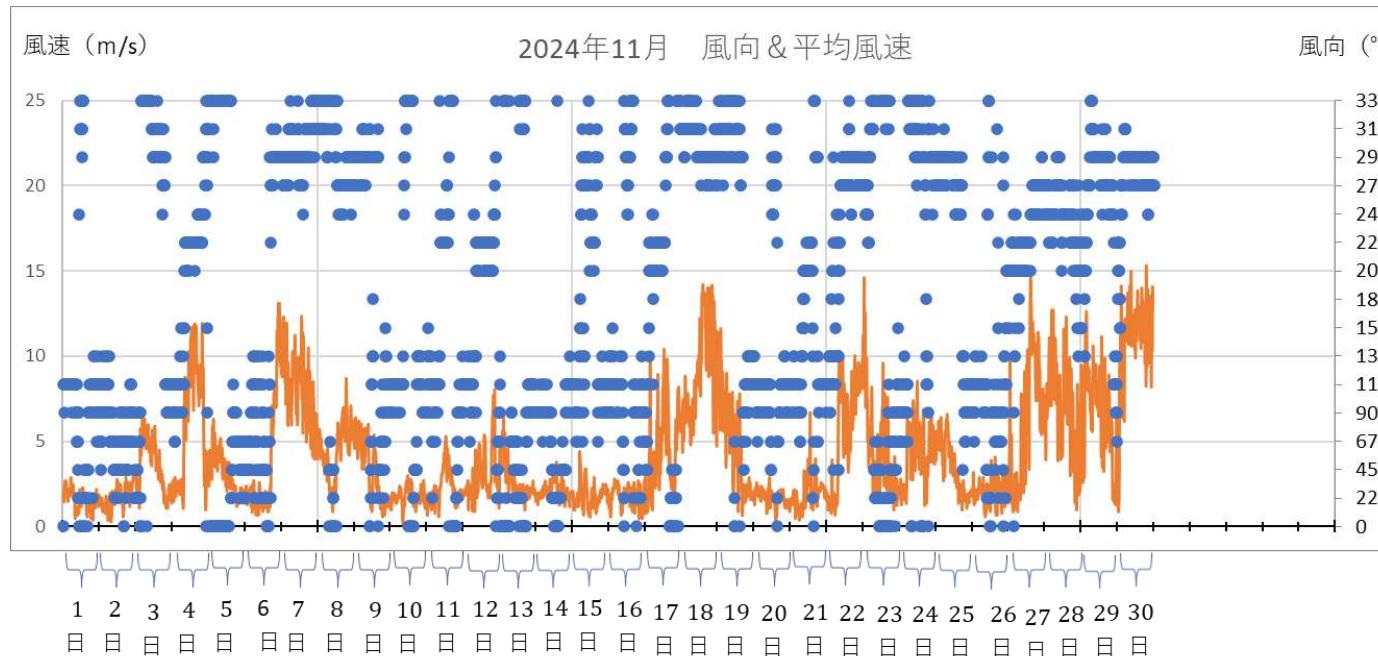




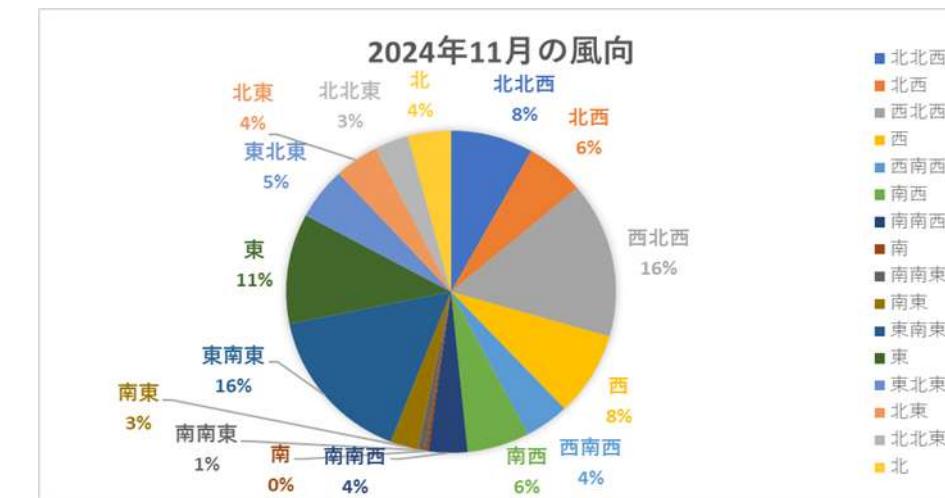
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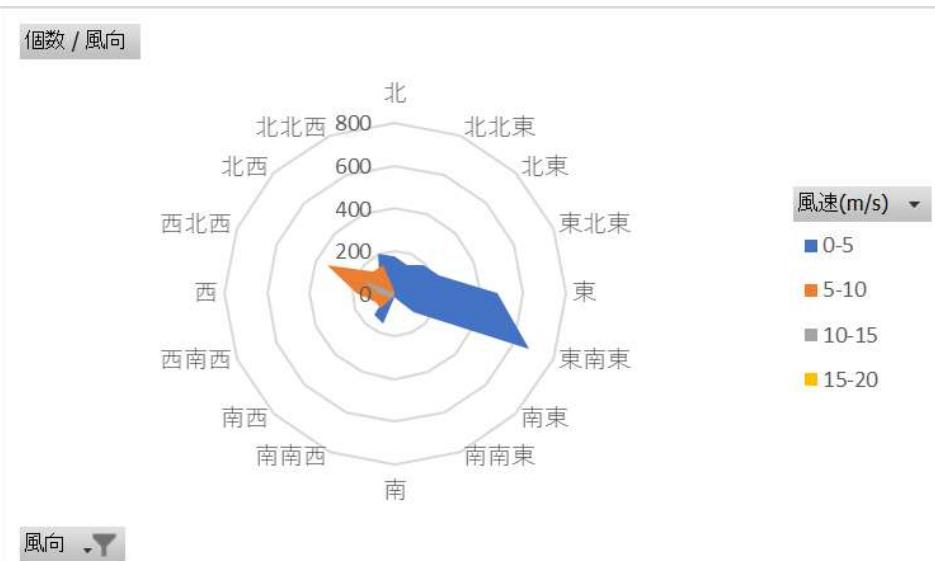
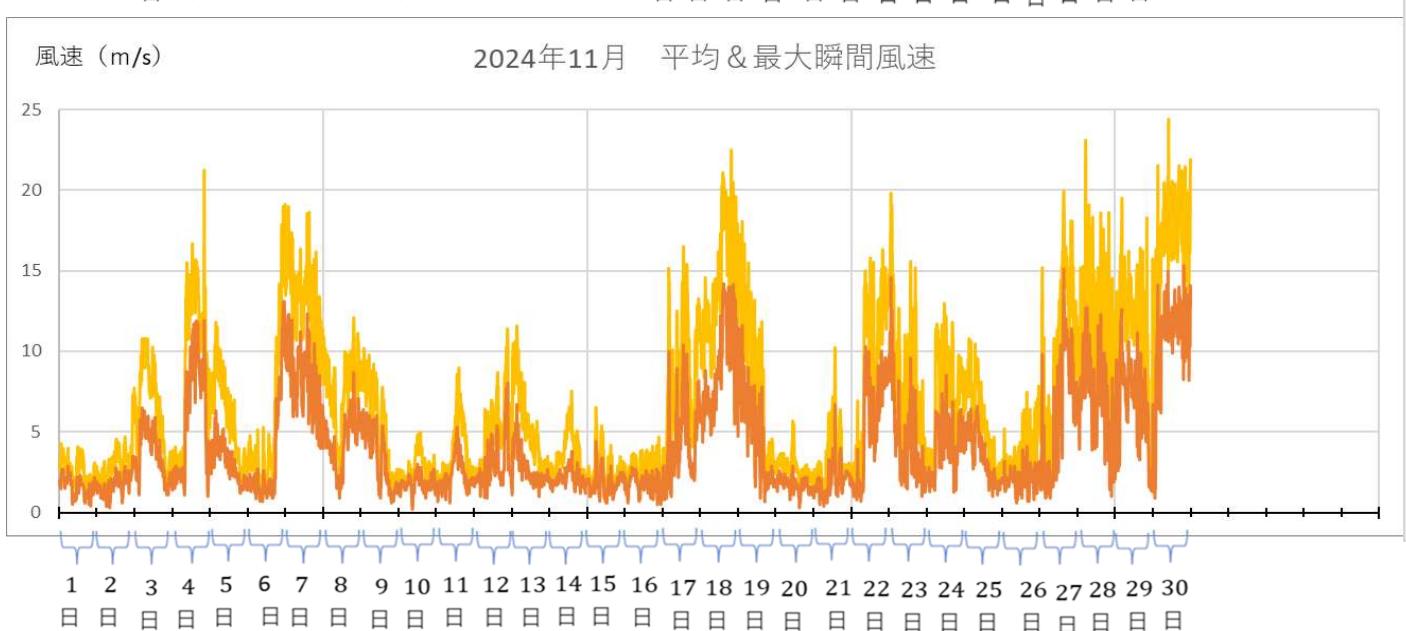
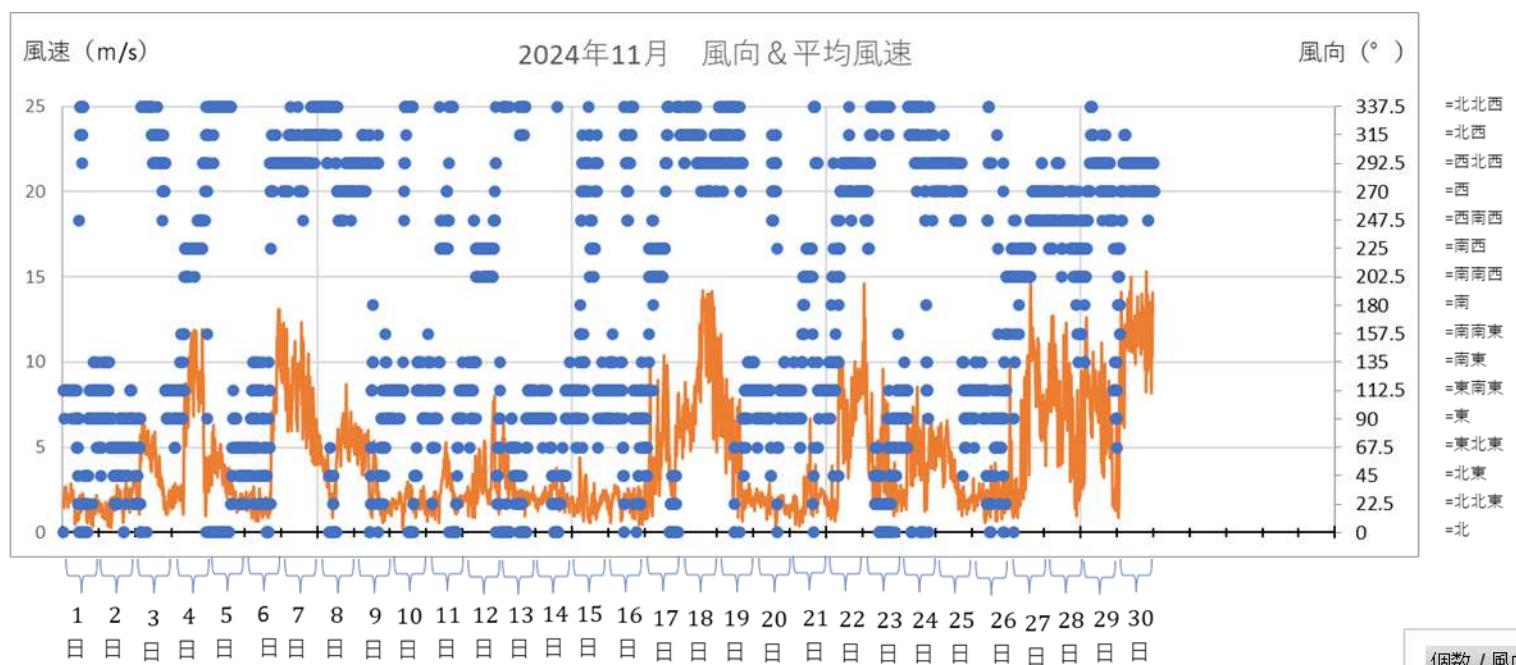


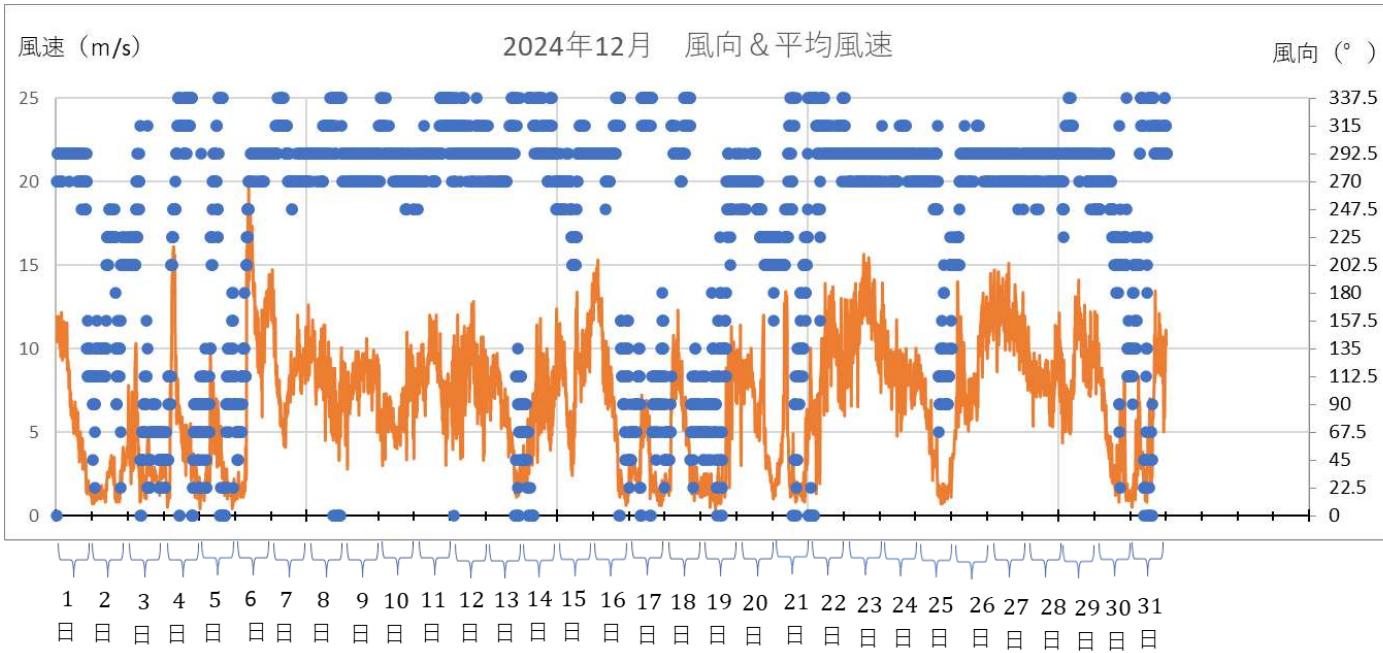




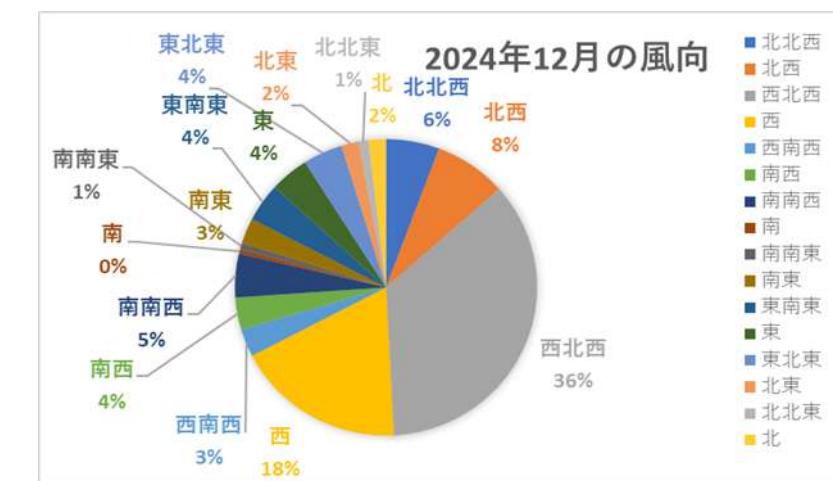
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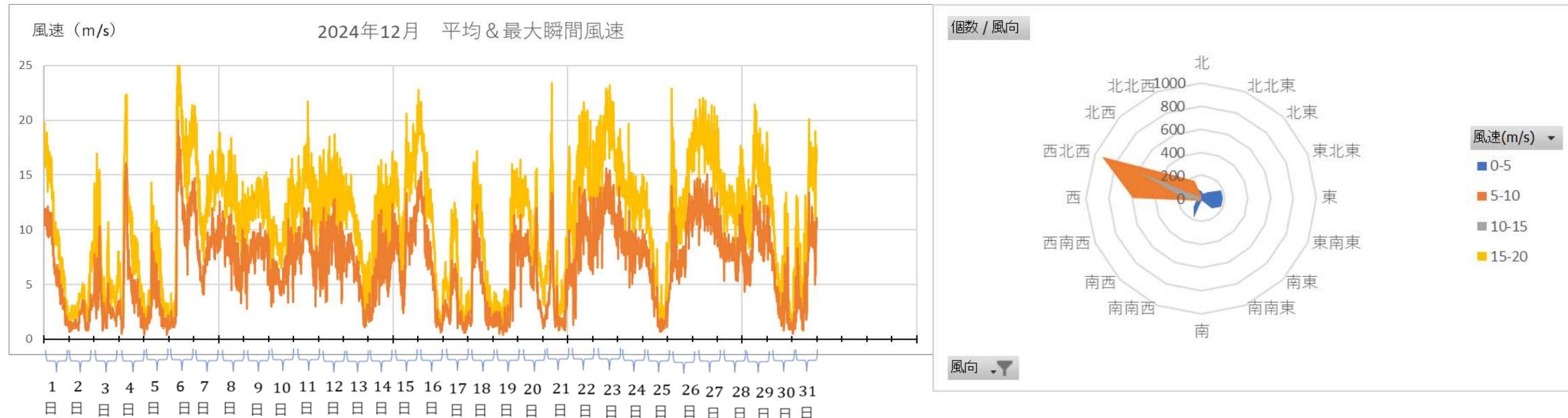
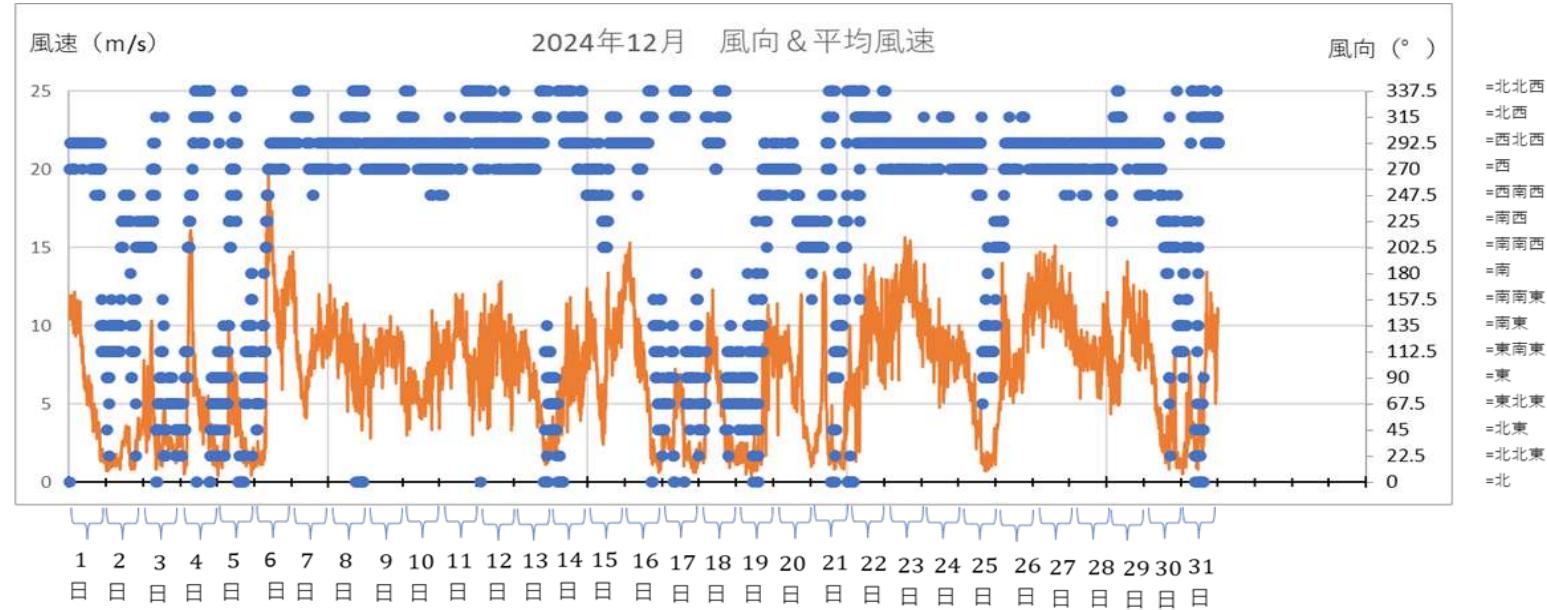




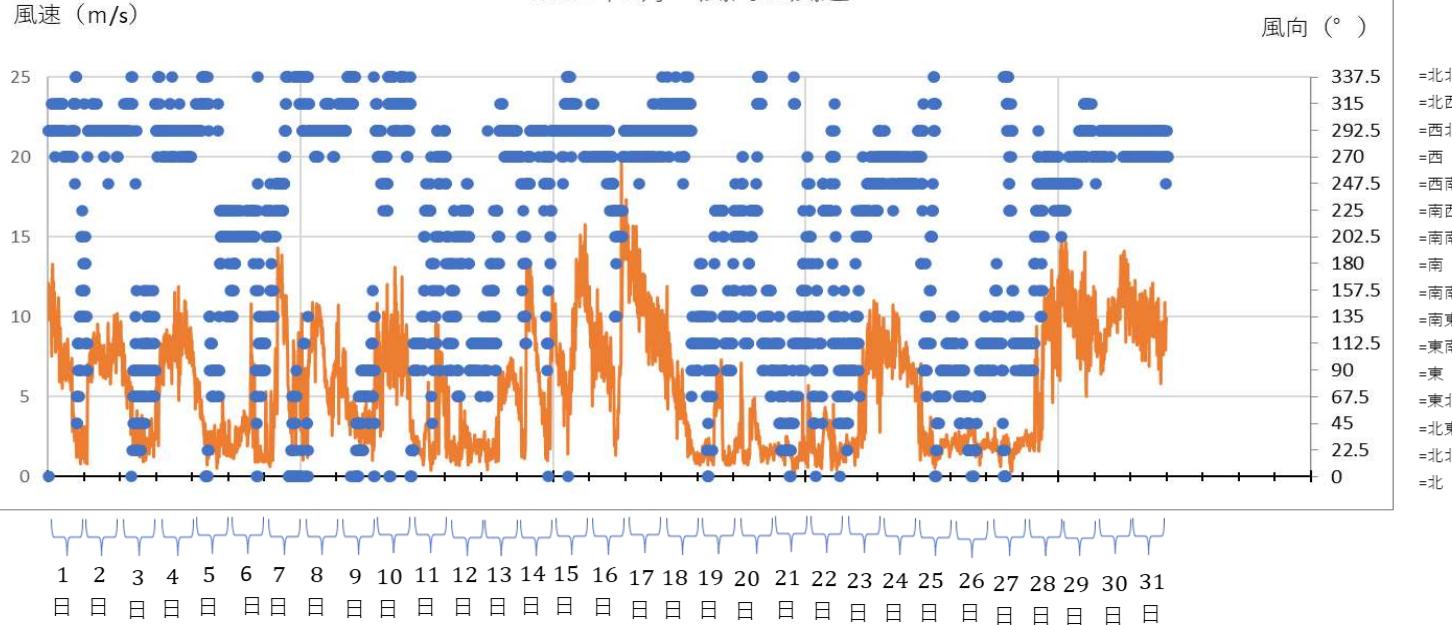


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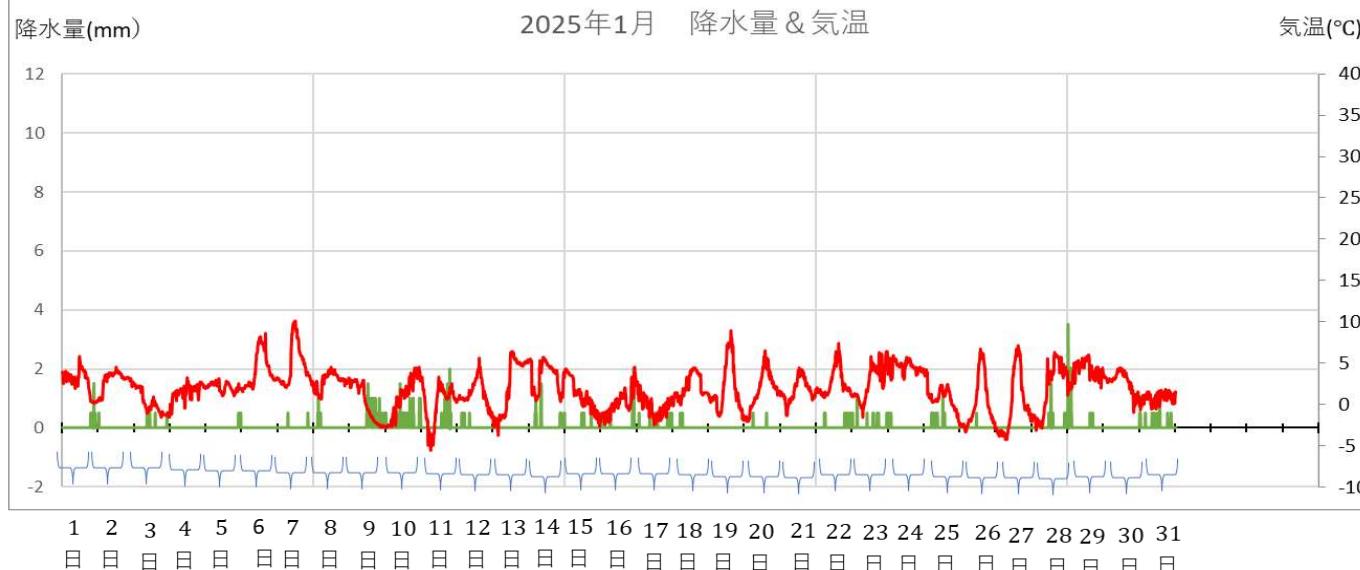
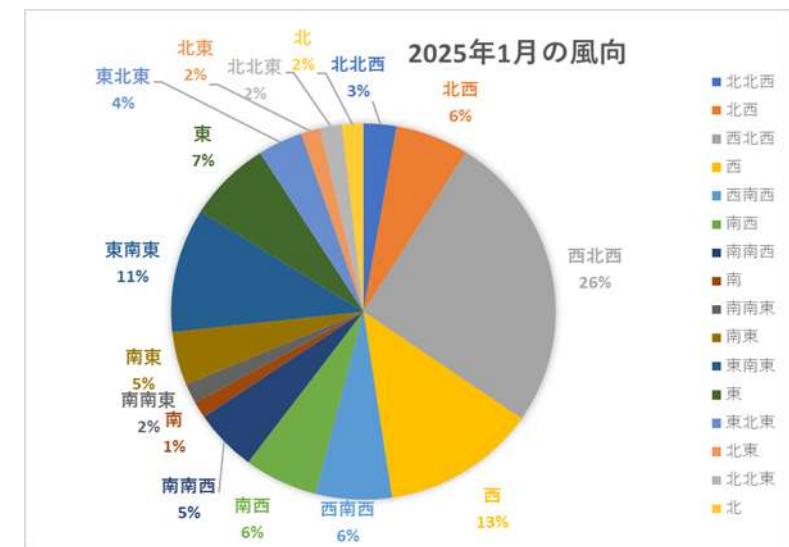


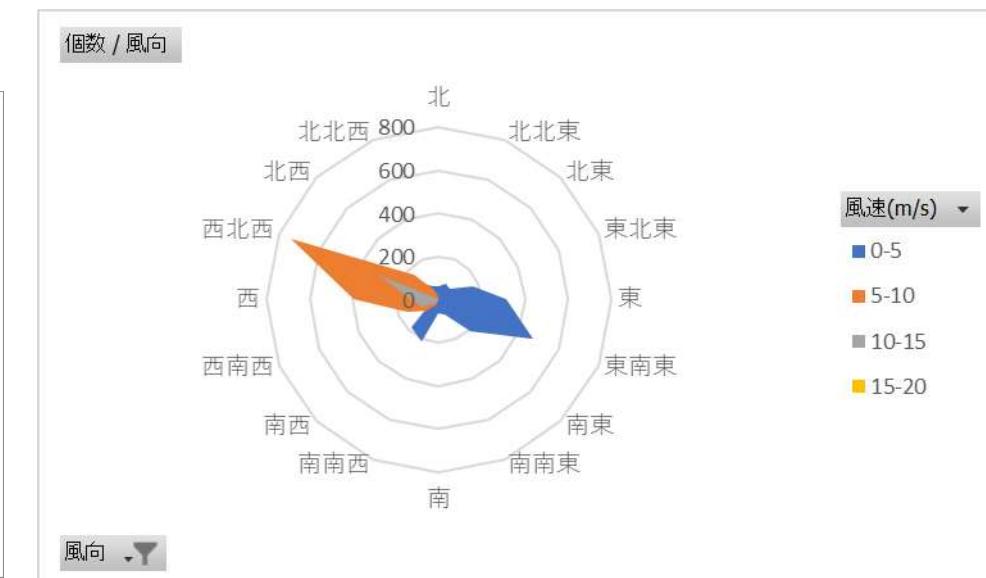
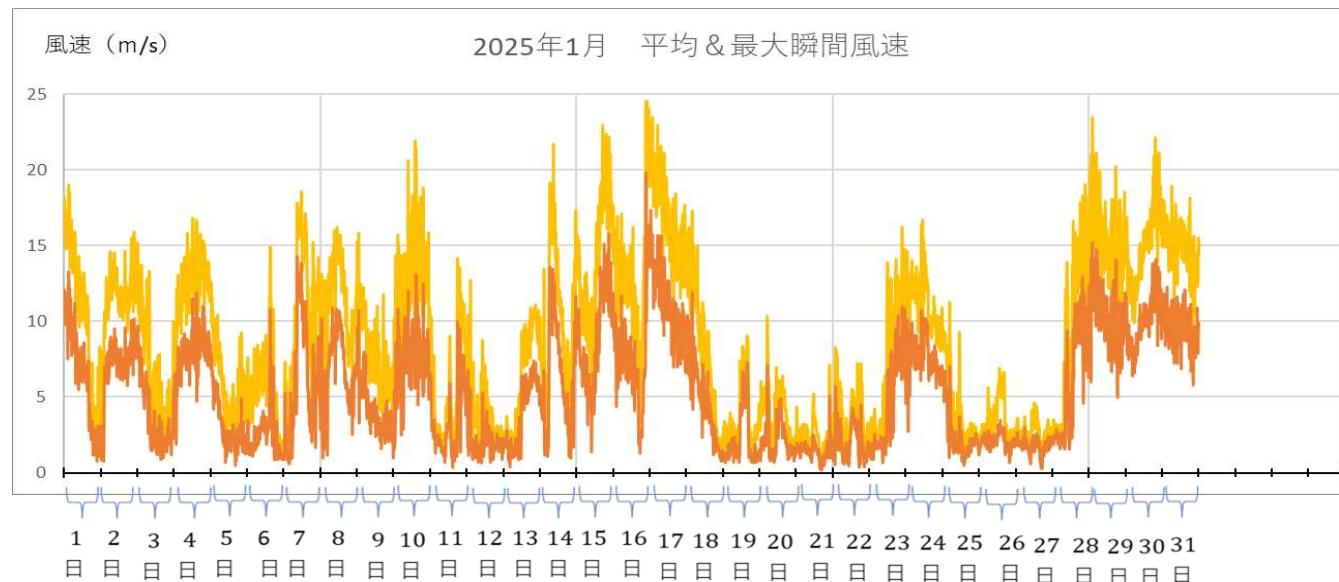
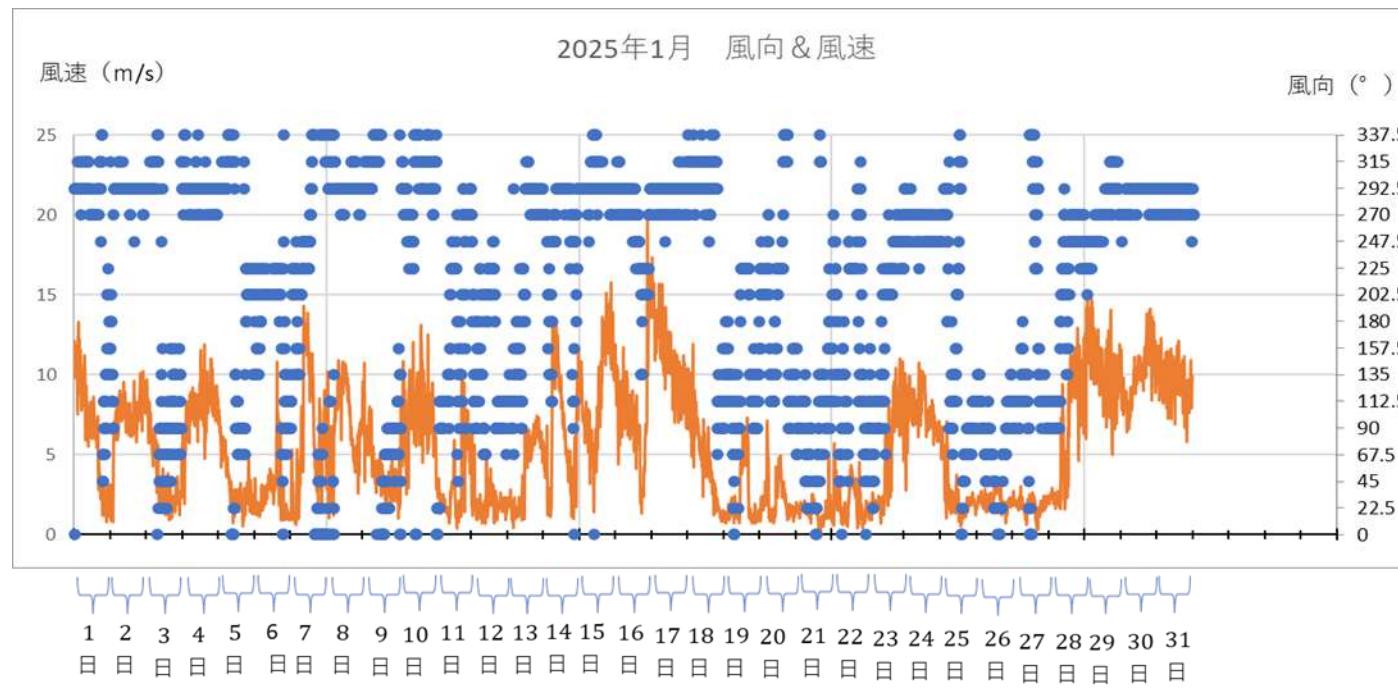


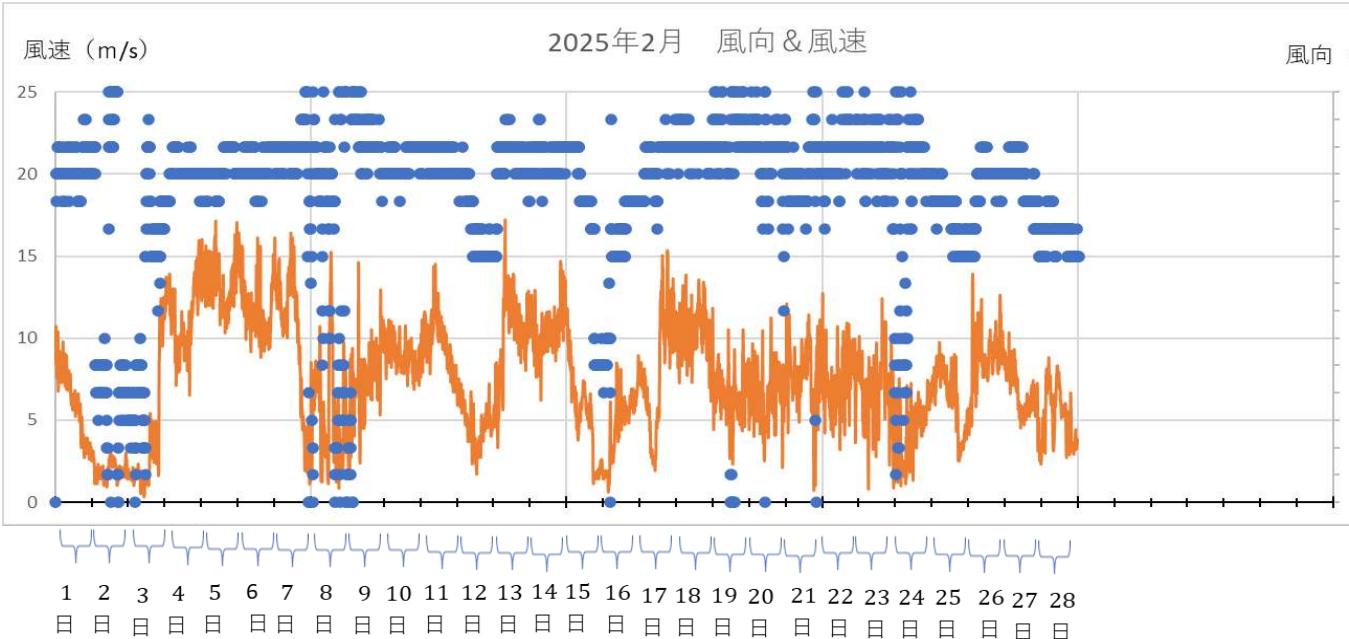
2025年1月 風向 &amp; 風速



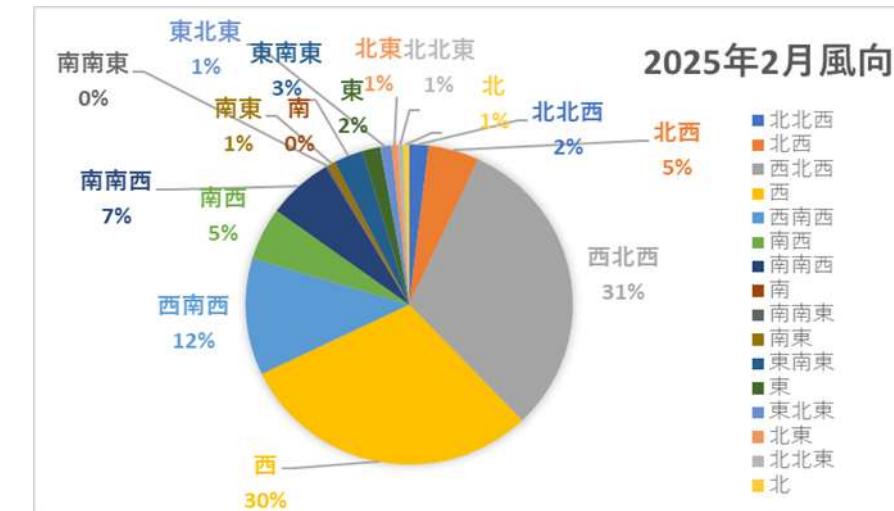
2025年1月の結果

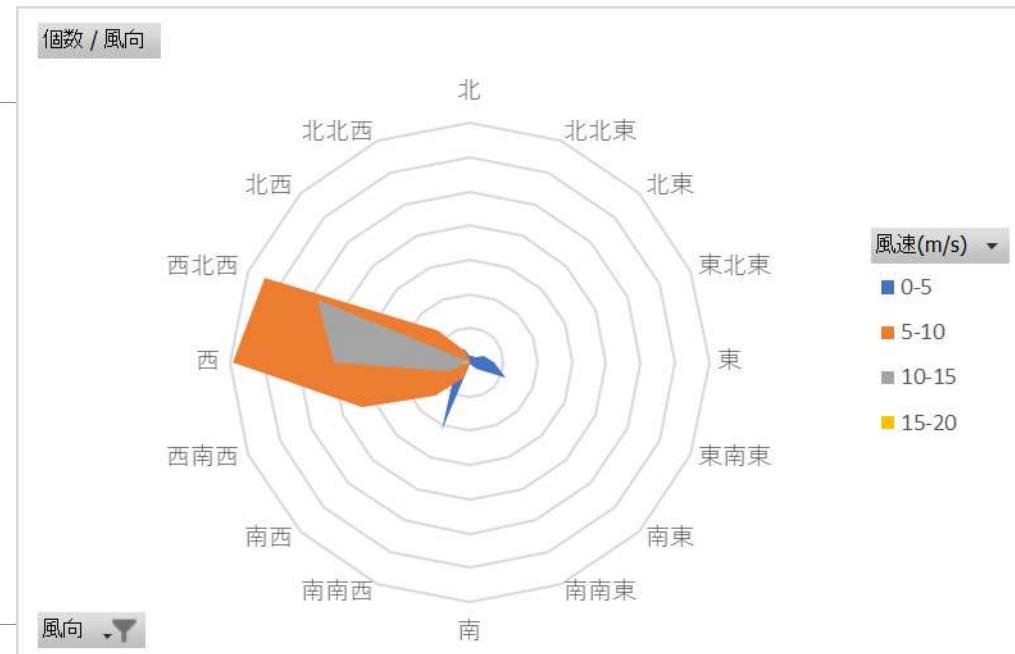
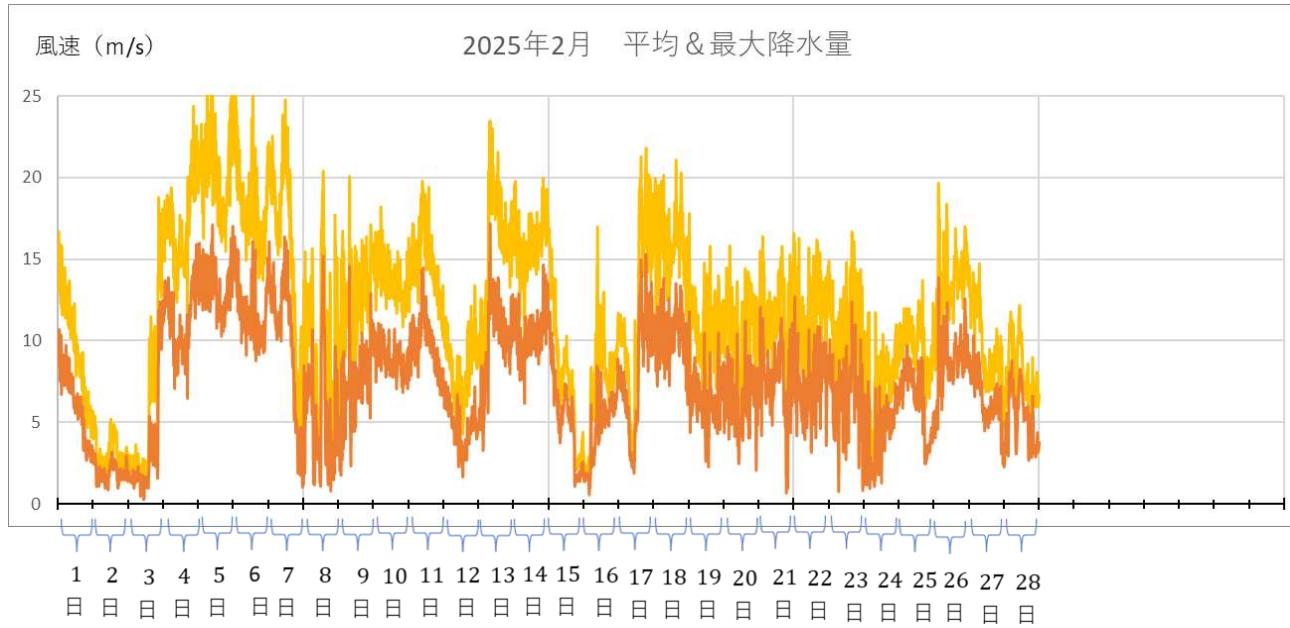
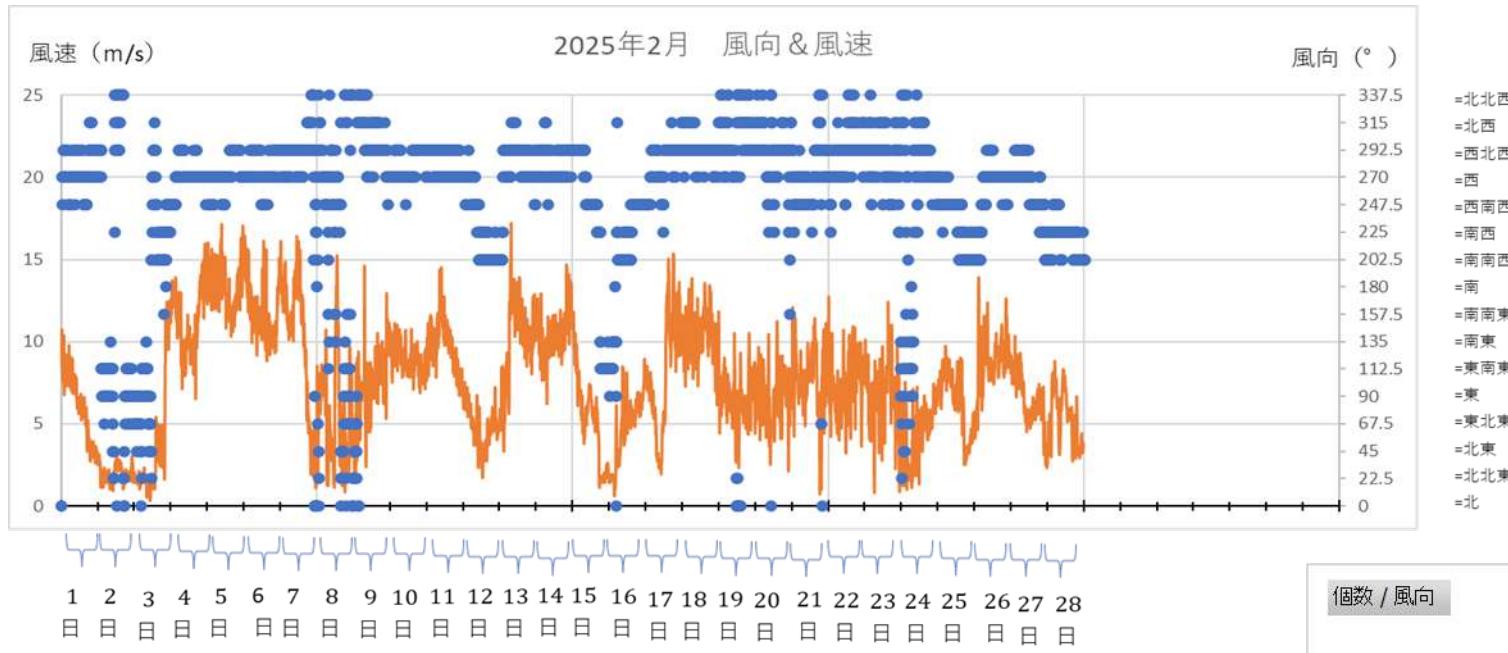






## 2025年2月の結果





# まとめ

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- ・全体を通して日本海側の風が多く、風速が上がると同時に西や西北西の風が吹いている。
- ・気温が上がる8月、9月、10月は東や東南東などの内陸側の風がよく吹いている。
- ・風速が低い時は風向にばらつきがある。