

2022 270 81 I^2 6 I^2 6 II 2022 I^2 I^2

1 2022

AAA	37	2.00~5.48	2.84	79.02		107.61	31	92.48		95.04
AA ⁺	33	2.40~6.90	3.33	125.14	46.13	83.82	33	125.69	33.21	83.77
AA	11	2.80~7.00	3.70	165.02	39.88	70.98	11	163.09	37.40	70.64

1

Wind

4

95%

2 2022

0.003			0.029			
0.001	0.015		0.003	0.025		

1 II 3 2022 4 21 Mann-Whitney U 5%

95%

1

2022 1 I I 1 1 1 1 2022

I II 2022

3 2022

AAA	15	2.23~5.95	3.46	136.68		89.13	14	150.88		76.90
AA ⁺	12	2.80~6.45	4.38	226.13	89.45	70.56	12	226.90	76.02	70.54
AA	4	3.50~6.39	4.95	293.48	67.35	50.37	4	296.34	69.44	49.89

Wind

95% AAA AA⁺ I II

4 2022



I II 2022 3

5 2022

	AAA	66	2.40~5.50	3.33	97.52		65.12	60	102.20		54.25		
3	AA ⁺	30	3.13~4.60	3.71	136.04	38.51	29.31	30	136.32	34.12	29.79		
	AA	8	3.50~5.80	4.17	182.05	46.01	43.05	8	183.26	46.94	42.10		
5	AAA	21	3.13~4.60	3.72	117.97		40.19	21	117.69		39.47		

Wind

AAA AA⁺ AA

95% 3 AAA AA⁺ AAA I

II AA⁺ AA II

6 2022 3

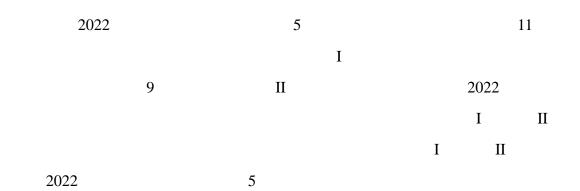
0.000			0.000			
0.002	0.068		0.002	0.049		

2022

I 2022

AA^+	2	3.14~3.22	3.18	75.12	15.87	9.90	2	78.78	17.75	14.00
AA	1	3.60~3.60	3.60	118.38	43.26		1	126.79	48.01	

Wind



10 2022 5

Wind

AA	1	3.28~3.28	3.28	80.55			1				
AA ⁺	4	3.73~4.80	4.02	147.17	66.62	38.73	4	147.93	62.88	40.21	
AA	4	4.60~4.75	4.64	212.39	65.22	8.63	4	210.27	62.34	7.87	
A ⁺	2	5.10~5.10	5.10	256.86	-1	2.31					

2022 13 1 4 1 3 9 3

11 2022



n u n

270

1
3 5
3 5
5 7

3 5

1 " 5+3" 5

2

I

II 3

1 2

II 30