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2019 年港灣環境資訊網
海氣象觀測資料年報
（12 海域風力觀測資料）

交通部運輸研究所

中華民國 110 年 2 月

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著者：蔣敏玲、蘇青和、李俊穎、傅怡釧、
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<tr><td colspan="4">摘要：
本港灣環境資訊網觀測風力資料年報，包括北苗、北端、宜蘭、花蓮、臺東、屏東、高雄、嘉南、中雲、澎湖、金門及馬祖等12個海域，2019年觀測風力資料之觀測記錄表及逐時資料歷線圖。</td></tr>
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ABSTRACT:

This Annual report 2019 of Harbor Environment Information Website(HEIV) covers the observation data of winds near the twelve offshoe regions(Pei-Miao Seas, North Seas, Yi-Lan Seas, Haw-lien Seas, Tai-Tung Seas, Peng-Tung Seas, Kao-Hsiung Seas, Chia-Nan Seas, Chung-Yun Seas, Peng-Hu Seas, Kin-Men Seas and Ma-Tsu Seas) in Taiwan. The contents in this Annual report include the records of observation and the time series of data.

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誌　　謝

2019 年港灣環境資訊網觀測風力資料年報，蒐集之 12 海域風力資料，除本中心自行觀測之外，在淡水氣象站(**測站 E**)、基隆港氣象站(**測站 E**、**F** 及 **M**) 、龍洞氣象站(**測站 J**)、新竹氣象站(**測站 P** 及 **I**) 、新屋氣象站(**測站 H**)、外埔氣象站(**測站 Q**)、蘇澳氣象站(**測站 E** 及 **F**)、花蓮氣象站(**測站 E** 及 **F**)、**測站 Z**(蘭嶼浮標站)、**測站 R**(臺東遠洋浮標站)、高雄氣象站(**測站 E**)、梧棲氣象站(**測站 E**)、澎湖馬公氣象站(**測站 E**)、金門水頭氣象站(**測站 E**)、馬祖氣象站(**測站 E**)、臺中浮標(**測站 V**)、新竹浮標(**測站 Y**)、龍洞浮標(**測站 Y**)、彭佳嶼浮標(**測站 U**)、花蓮浮標(**測站 Y**)、小琉球浮標(**測站 Y**)、馬祖浮標(**測站 Y**)、富貴角浮標(**測站 R**)、七美浮標(**測站 R**) 、宜蘭氣象站(**測站 H**)、蘭嶼氣象站(**測站 B** 及 **M**)、大武氣象站(**測站 C**) 、成功氣象站(**測站 O** 及 **Q**) 、恆春氣象站(**測站 O**)、彭佳嶼氣象站(**測站 I**)、東吉島氣象站(**測站 I**)、七股氣象站(**測站 I**) 、箔子寮氣象站(**測站 M**)、塭港氣象站(**測站 Q**)等觀測風力資料，係交通部 **中央氣象局(CWB)**提供，謹致謝忱。

石梯氣象站(**測站 H**)、綠島氣象站(**測站 E**)、大武氣象站(**測站 I**) 、富岡氣象站(**測站 H**)、彌陀海上浮標站(**測站 Z**)、小港氣象站(**測站 H**)、蟳廣嘴氣象站(**測站 E**)、林邊氣象站(**測站 H**)、永安氣象站(**測站 H**)、四草氣象站(**測站 E**)、外傘頂氣象站(**測站 O**)、麥寮氣象站(**測站 H**、**測站 I**)、金門料羅氣象站(**測站 H**)、金門水頭氣象站(**測站 I**) 、蘇澳海上浮標(**測站 Y**)、臺東海上浮標(**測站 Y**)、七股海上浮標(**測站 Y**)、澎湖海上浮標(**測站 Y**)、金門海上浮標(**測站 Y**) 、鵝鑾鼻海上浮標 (**測站 Z**)、大鵬灣海上浮標(**測站 U**) 等觀測風力資料，係經濟部 **水利署(WRA)** 提供，謹致謝忱。

其他福隆海上浮標(**測站 R**)及金門后江灣海上浮標(**測站 Z**) 觀測風力資料，係 **國立成功大學水文中心(COMC)**裝設；基隆海域附近海上浮標(**測站 Z**)觀測風力資料，係 **國立臺灣海洋大學(NTOC)**裝設；彰濱外海浮標站(**測站 Y**)風力資料，係 **海科中心**(TORI)所設置；龜山島外海浮標站(**測站 Z**)之風速儀屬 **觀光局東北角管理處(TBRC)**所設置; 大鵬灣水質氣象站(**測站 C** 及**測站 I**) ，係交通部 **觀光局(TB)**所設置，；澎湖馬公港區(**測站 H**)觀測風力資料，係 **港務公司(TIPC)**提供；彰濱外海一浮標站(**測站 Z**)及彰濱外海二浮標站(**測站 R**)風速儀屬中興工程所設置，謹致謝忱。

第 O 章　2018 年臺灣 12 海域觀測風力資料蒐集

本年報將彙整包括本所港研中心(IHMT)、氣象局(CWB)、水利署(WRA)、成功大學水文中心(COMC)、國立臺灣海洋大學(NTOC)、海科中心(TORI)、觀光局東北角管理處(TBRC)、台灣中油(CPC)等單位，於臺灣北苗海域、北端海域、宜蘭海域、花蓮海域、臺東海域、屏東海域、高雄海域、嘉南海域、中雲海域、澎湖海域、金門海域及馬祖海域等 12 個海域，海域區分如附圖 A1。臺灣 12 海域觀測風力資料測站統計表如表 W1。

表 W1　臺灣 12 海域觀測風力資料測站統計表

編號	海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他測站	備註
1	北苗海域	8	2	6			
2	北端海域	9	1	7		1	
3	宜蘭海域	7	1	3	1	2	
4	花蓮海域	5	1	3	1		
5	臺東海域	12	1	6	5		
6	屏東海域	10		4	4	2	
7	高雄海域	6	3	2	1		
8	嘉南海域	10	3	3	4		
9	中雲海域	13	6	2	2	3	
10	澎湖海域	7	2	3	1	1	
11	金門海域	8	3	1	3	1	
12	馬祖海域	7	5	2			
	合計	99	28	40	22	9	

註:資料更新時間為 2019 年。

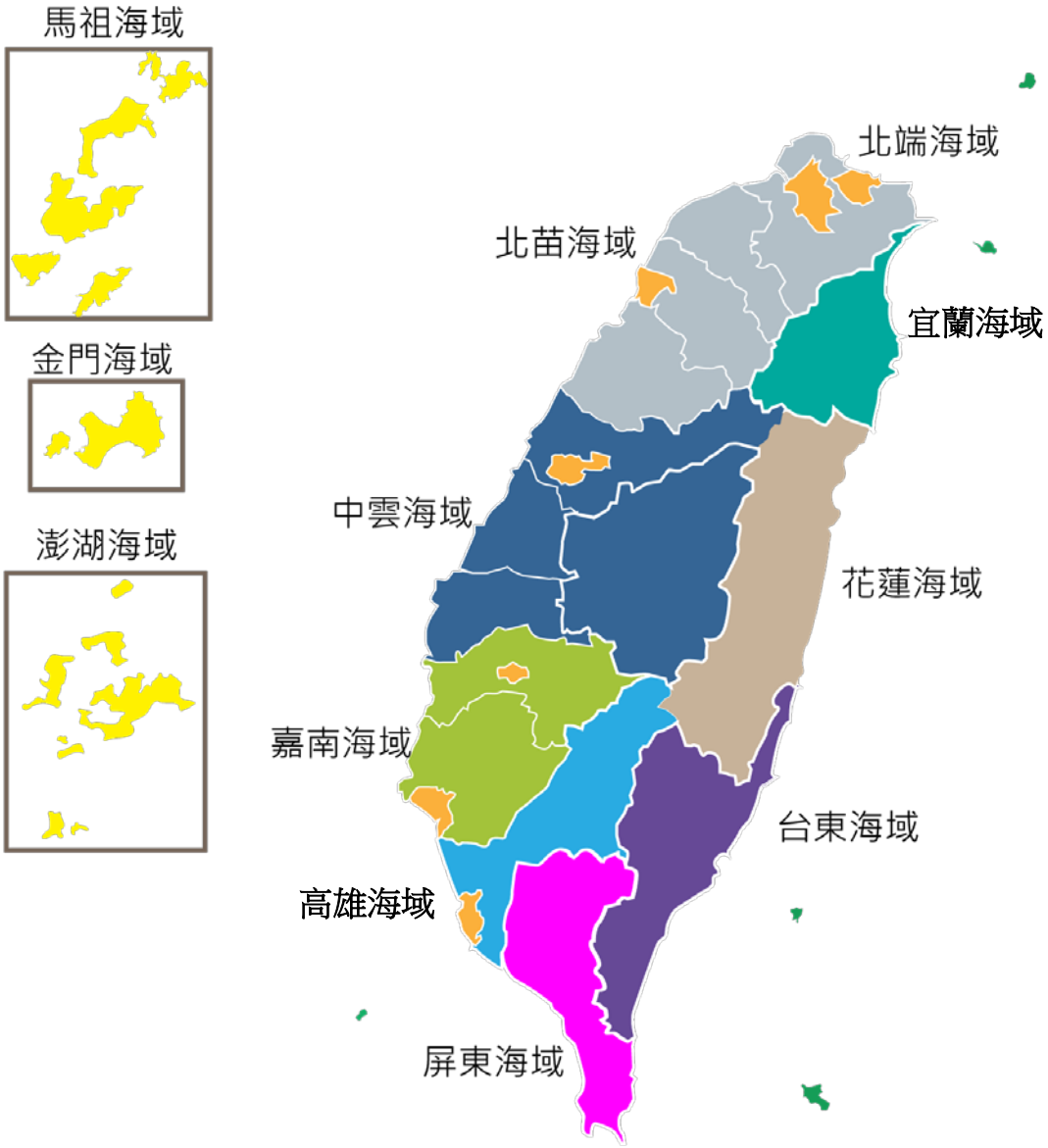

圖 A1 臺灣 12 海域區分示意圖

2019 年北苗海域觀測風力資料

北苗海域(新北~苗栗)風之觀測係 1996 年 10 月本中心**(IHMT)**於臺北港海上觀測樁頂安裝之 Young Brand 風速計(簡稱**測站 X0**)，位置如附圖 WP1。此風速計之觀測範圍為 0～60 米/秒，最大陣風則可測至 80 米/秒。舊觀測樁測站觀測時間至 2004 年 9 月為止，2004 年 12 月以後為新觀測樁測站(稱**測站 X1**)，風速計安裝於觀測樁頂之高度約為海平面上 15 米。 2009 年 8 月於臺北港北防波堤堤頭加安裝 Young Brand 風速計**(測站 W**)。淡水河口(**測站 E**)、新竹(**測站 P、I**)、外埔(**測站 Q**) 、新屋(**測站 H**)及新竹外海浮標站(**測站 Y**)屬中央氣象局**(CWB)**所設置。

本中心兩個測站風速、風向之取樣方法為由每小時觀測 10 分鐘連續風速、風向資料經算術平均而得之平均風速(m/s)及風向(度)。最大風速代表該月每小時平均風速中之最大值，最大風速之風向為當時相對之風向。本中心風力資料以取平均風速及平均風向為主。其他測站風資料由中央氣象局提供，觀測風速、風向資料也是平均風速(m/s)及風向(度)。各測站歷年觀測風資料蒐集概況如表 WP1。

表 WP1 北苗海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	25°10'44"N	121°22'41"E	1996/07-2004/09	港研中心	舊觀測樁
X1	25°10'54"N	121°22'33"E	2005/01-2019/11(觀測中)	港研中心	新觀測樁
W	25°09'24"N	121°22'19"E	2009/08-2019/11(觀測中)	港研中心	臺北港區
E	25°09'50"N	121°26'54"E	2004/01-2019/11(觀測中)	中央氣象局	淡水
Y	24°45'39N	120°50'38"E	1997/06-2019/11(觀測中)	中央氣象局	新竹浮標站
P	24°51'01"N	120°54'44"E	2015/01-2019/11(觀測中)	中央氣象局	新竹
Q	24°39'05"N	120°46'18"E	2015/01-2019/11(觀測中)	中央氣象局	外埔
H	25°00'57"N	121°02'36"E	2014/08-2019/11(觀測中)	中央氣象局	新屋
I	24°49'48"N	121°00'22"E	2013/11-2019/11(觀測中)	中央氣象局	新竹

北苗海域

圖 WP1 北苗海域風力觀測站位置示意圖

2019 年北端海域觀測風力資料

北端海域(富貴角~龍洞)風之觀測係 2002 年 6 月本中心**(IHMT)**安裝 Young Brand 風速計於基隆港(稱**測站 W**) ，其位置如附圖 WK1，2010 年 10 月後更新安裝 Gill 二維超音波式風速計。**測站 E**(基隆) 、**測站 F** (基隆)、**測站 J**(龍洞)及**測站 I**(彭佳嶼)之風速儀屬中央氣象局**(CWB)**所有，**測站 Y**(龍洞外海浮標站)、**測站 R(**富貴角外海浮標站)及**測站 U(**彭佳嶼外海浮標站)之風速儀也屬中央氣象局所有，**測站 Z**(基隆外海浮標站)之風速儀則為國立臺灣海洋大學**(NOTC)**所裝設。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。各測站歷年觀測風資料蒐集概況如表 WK1。

表 WK1 北端海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	25°09'19"N	121°45'09"E	2002/06-2019/11(觀測中)	港研中心	基隆港區
E	25°07'58"N	121°44'26"E	1999/01-2019/11(觀測中)	中央氣象局	基隆
F	25°09'18"N	121°45'05"E	2015/01-2019/11(觀測中)	中央氣象局	基隆
Y	25°05'54"N	121°55'22"E	1998/09-2019/11(觀測中)	中央氣象局	龍洞浮標站
Z	25°09'17"N	121°47'06"E	2012/05-2019/10	臺灣海洋大學	基隆浮標站
R	25°18'15"N	121°32'05"E	2014/12-2019/11(觀測中)	中央氣象局	富貴角浮標
I	25°37'46"N	122°04'17"E	2014/08-2019/11(觀測中)	中央氣象局	彭佳嶼
J	25°05'51"N	121°55'05"E	2015/01-2019/11(觀測中)	中央氣象局	龍洞
U	25°37'31"N	122°04'32"E	2019/07-2019/11(觀測中)	中央氣象局	彭佳嶼浮標

北端海域

圖 WK1 北端海域風力觀測站位置示意圖

2019 年宜蘭海域觀測風力資料

宜蘭海域風之觀測係 2003 年 6 月本所港研中心**(IHMT)**於蘇澳港安裝一具風速風向即時傳送監測系統(稱**測站 W**)，其位置如附圖 WS1，2012 年 10 月更新為 Gill 二維超音波式風速計。**測站 E、測站 F** 及**測站 H** 之風速儀屬中央氣象局所有，**測站 Y**(蘇澳外海浮標站)之風速儀屬水利署**(WRA)**所有，**測站 Z**(龜山島外海浮標站)之風速儀屬觀光局東北角管理處**(TBRC)**所設置。福隆海上浮標(**測站 R**)觀測風力，係國立成功大學水文中心**(COMC)**所裝設。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。各測站歷年觀測風資料蒐集概況如表 WS1。

表 WS1 宜蘭海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	24°35'33"N	121°51'01"E	2003/06-2019/11(觀測中)	港研中心	蘇澳港區
E	24°35'48"N	121°51'26"E	1999/01-2019/11(觀測中)	中央氣象局	蘇澳
Y	24°37'38"N	121°52'36"E	1999/09-2019/11(觀測中)	水利署	蘇澳浮標站
Z	24°50'52"N	121°55'39"E	2002/05-2019/11(觀測中)	觀光局	龜山島浮標站
H	24°45'56"N	121°44'53"E	2013/11-2019/11(觀測中)	中央氣象局	宜蘭
R	22°18'50"N	120°21'50"E	2006/04-2008/02	水文中心	福隆浮標站
F	24°35'33"N	121°51'56"E	2015/04-2019/11(觀測中)	中央氣象局	蘇澳

圖 WS1 宜蘭海域風力觀測站位置示意圖

2019 年花蓮海域觀測風力資料

花蓮海域風之觀測係 2002 年 6 月本中心**(IHMT)**於花蓮港務分公司樓頂安裝 Young Brand 風速計(稱**測站 W**)，2007 年 11 月更新為 Gill 三維超音波式風速計，其位置如附圖 WL1。

花蓮花崗山測站(稱**測站 E**) 及**測站 F** 風速儀屬中央氣象局**(CWB)**所有，**測站 Y**(七星潭外海浮標站)之風速儀也屬中央氣象局所有，**測站 H**(石梯氣象站)之風速儀則屬水利署**(WRA)**所有。各測站歷年觀測風資料蒐集概況如表 WL1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WL1 花蓮海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	23°58'50"N	121°37'12"E	2002/06-2019/11(觀測中)	港研中心	花蓮港
E	23°58'30"N	121°36'47"E	1981/02-2019/11(觀測中)	中央氣象局	花蓮
F	23°58'50"N	121°37'25"E	2015/01-2019/11(觀測中)	中央氣象局	花蓮
Y	24°01'58"	121°37'50"E	1997/07-2019/11(觀測中)	中央氣象局	花蓮浮標站
H	23°29'41"	121°30'22"E	2001/11-2019/11(觀測中)	水利署	石梯氣象站

花蓮海域

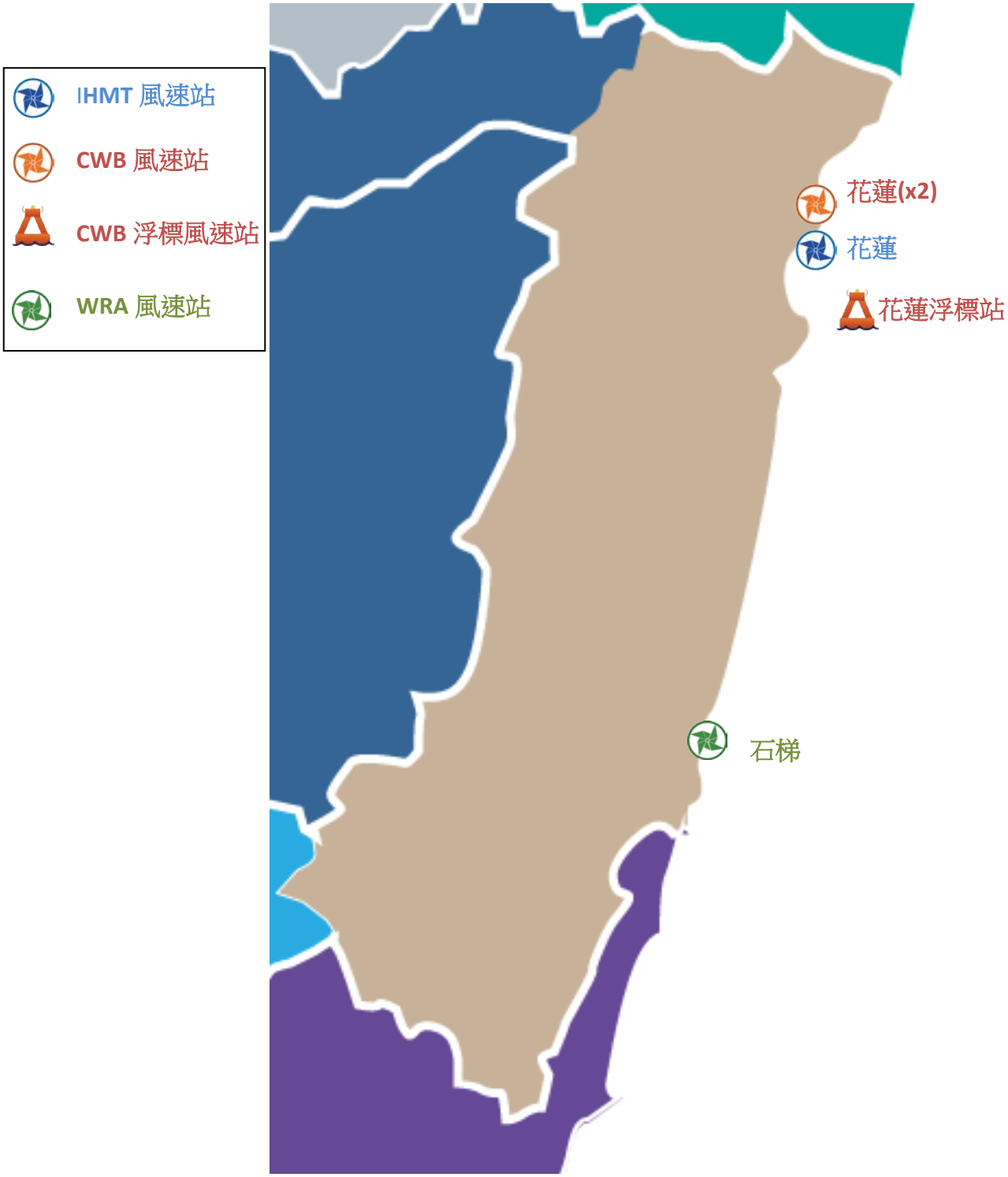

圖 WL1 花蓮海域風力觀測站位置示意圖

2019 年臺東海域觀測風力資料

臺東海域於綠島風之觀測係 2014 年 1 月本中心**(IHMT)**於南寮港南防波堤處(**測站 W**)安裝 Gill 二維超音波式風速計，其位置如附圖 WJ1。**測站 B**(**測站 M**) (蘭嶼氣象站)、**測站 C**(大武氣象站)、**測站 Z**(蘭嶼浮標站)及**測站 R**(臺東遠洋浮標站)之風速儀屬中央氣象局**(CWB)**所有，**測站 E** (綠島氣象站) 、**測站 O**(**測站 Q**) (成功氣象站) 、**測站 I**(大武氣象站)及**測站 H** (富岡氣象站)之風速儀屬水利署**(WRA)**所有，**測站 Y**(台東外海浮標站)之風速儀也皆屬水利署所有。各測站歷年觀測風資料蒐集概況如表 WJ1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WJ1 臺東海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	22°36'54"N	120°17'19"E	2014/01-2019/11(觀測中)	港研中心	南寮港
E	22°39'39"N	121°28'24"E	2001/10-2019/11(觀測中)	水利署	綠島氣象站
Y	22°43'27"N	121°08'40"E	2010/09-2019/11(觀測中)	水利署	台東浮標站
H	22°47'27"N	121°11'32"E	2003/09-2019/11(觀測中)	水利署	富岡氣象站
O	23°05'57"N	121°21'55"E	2013/11-2019/11(觀測中)	水利署	成功氣象站
B	22°02'19"N	121°33'02"E	2014/08-2018/06	中央氣象局	蘭嶼氣象站
M	22°03'35"N	121°29'59"E	2015/01-2019/11(觀測中)	中央氣象局	蘭嶼氣象站
Q	23°05'20"N	121°22'36"E	2015/01-2019/11(觀測中)	中央氣象局	成功氣象站
C	22°21'27"N	120°53'44"E	2013/11-2019/11(觀測中)	中央氣象局	大武氣象站
I	22°20'14"N	120°53'46"E	2005/10-2019/11(觀測中)	水利署	大武氣象站
Z	22°04'18"N	121°34'33"E	2017/09-2019/11(觀測中)	中央氣象局	蘭嶼浮標站
R	21°40'36"N	124°03'48"E	2009/08-2017/11	中央氣象局	遠洋浮標站

臺東海域

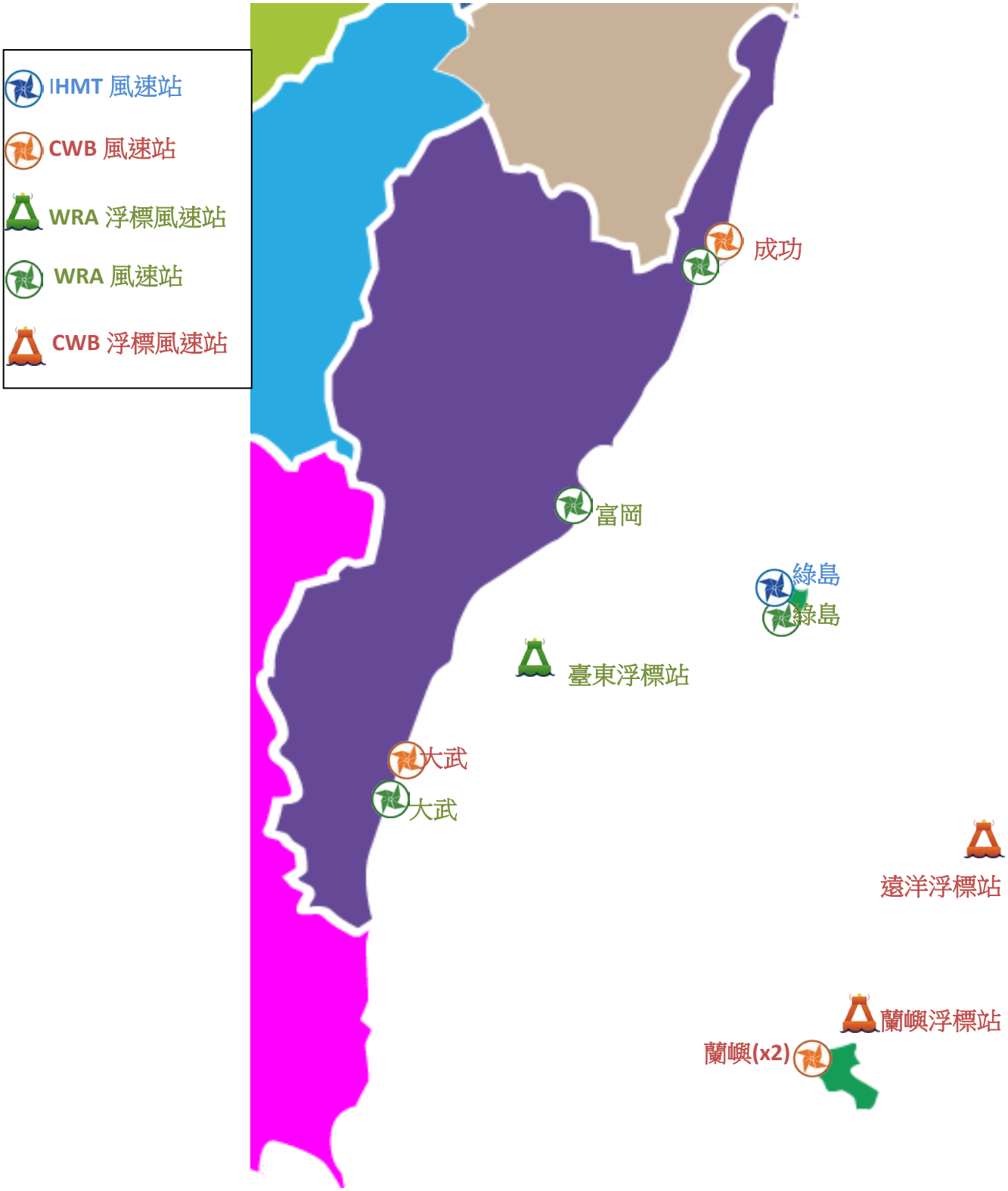

圖 WJ1 臺東海域風力觀測站位置示

2019 年屏東海域觀測風力資料

屏東海域風之觀測恆春氣象站(**測站 O)**、小琉球氣象站(**測站 J)**屬中央氣象局**(CWB)**所有，測站之位置如圖 WD1。東港(**測站 P**)由中央氣象局所設置，**測站 Y**(小琉球浮標站) 之風速儀也屬中央氣象局所有。大鵬灣氣象站風力觀**測站 C**(**測站 I**)為觀光局所設置。

測站 Z(鵝鑾鼻外海浮標站) 、**測站 U**(大鵬灣海上浮標站) 、蟳廣嘴氣象站**測站 E** 及林邊氣象站**測站 H** 之風速儀則屬水利署**(WRA)**所有。各測站歷年觀測風資料蒐集概況如表 WD1。

風資料之蒐集係採取每小時測定之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。風力資料以取平均風速及平均風向為主。

表 WD1 屏東海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
Y	22°18'50"N	120°21'50"E	2003/11-2019/11(觀測中)	中央氣象局	小琉球浮標站
Z	21°54'01"N	120°49'21"E	2000/10-2019/11(觀測中)	水利署	鵝鑾鼻浮標站
E	21°59'9"N	120°42'42"E	2006/12-2019/11(觀測中)	水利署	蟳廣嘴氣象站
H	22°24'53"N	120°31'7"E	2013/09-2019/11(觀測中)	水利署	林邊氣象站
I	22°26'55"N	120°27'9"E	2002/11-2019/11(觀測中)	觀光局	大鵬灣氣象站
O	22°00'20"N	120°44'17"E	2013/11-2019/11(觀測中)	中央氣象局	恆春氣象站
U	22°18'50"N	120°21'50"E	2002/11-2013/08	水利署	大鵬灣浮標
C	22°41'01"N	120°42'30"E	2014/11-2019/11(觀測中)	觀光局	大鵬灣氣象站
J	22°26'55"N	120°27'09"E	2016/03-2019/11(觀測中)	中央氣象局	小琉球氣象站
P	22°27'50"N	120°26'15"	2016/03-2019/11(觀測中)	中央氣象局	東港氣象站

屏東海域

圖 WD1 屏東海域風力觀測站位置示意圖

2019 年高雄海域觀測風力資料

高雄海域風之觀測係 2003 年 6 月本中心**(IHMT)**在高雄港十號碼頭安裝一具風速風向即時傳送監測系統(稱**測站 B0**)，本測站於 2010 年 9 月停止觀測。2010 年 10 月在第二港口南防坡堤堤頭，增設 Gill 二維超音波式風速計(**測站 B1**)，測站之位置如圖 WH1。另於 2007 年 4 月在高雄港二港口北防坡堤頭增設超音波風速風向儀(稱**測站 W 及測站 C**)。

高雄港附近風力觀**測站 E** 風速儀屬中央氣象局**(CWB)**所有，**測站 Z**(彌陀外海浮標站) 及小港氣象站**測站 H** 之風速儀則屬水利署**(WRA)**所有。各測站歷年觀測風資料蒐集概況如表 WH1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WH1 高雄海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
B	22°36'54"N	120°17'19"E	2002/06-2019/11(觀測中)	港研中心	高雄 1 港口
W	22°32'51"N	120°17'55"E	2010/09-2018/06	港研中心	高雄 2 港口
C	22°32'51"N	120°17'55"E	2007/04-2019/11(觀測中)	港研中心	高雄 2 港口
E	22°33'58"N	120°18'57"E	1999/01-2019/11(觀測中)	中央氣象局	高雄
Z	22°45'50"N	120°09'49"E	2012/09-2019/11(觀測中)	水利署	彌陀浮標站
H	23°09'32"N	121°24'12"E	2013/09-2019/11(觀測中)	中央氣象局	小港氣象站

圖 WH1 高雄海域風力觀測站位置示意圖

2019 年嘉南海域觀測風力資料

嘉南海域風之觀測係本中心(IHMT)位於安平港海上觀測樁頂安裝之 Young Brand 風速計(稱測站 X0) ，其位置如附圖 WB1。風速計安裝於觀測樁頂之高度約為海平面上 14 米，觀測資料至觀測樁於 2011 年 8 月拆除為止。2011 年 12 月於南堤增設風速計(高度約為海平面上 23 米) (稱測站 X1) 。2009 年 8 月於 7 號碼頭增加安裝 Young Brand 風速計(稱測站 W) 。2006 年 8 月本中心於布袋港安裝一具風速儀(稱測站 B) 。

七股風力觀測站 I 屬中央氣象局(CWB)所設置，測站 Y(七股外海浮標站) 、測站 H(永安氣象站) 、測站 O (外傘頂氣象站)及測站 E(四草氣象站)之風速儀屬水利署(WRA)所有。曾文浮標站測站 V 之風速儀則屬臺灣中油所設置。各測站歷年觀測風資料蒐集概況如表 WB1。

本中心風資料之蒐集係採取每小時測定十分鐘之數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WB1 嘉南海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	22°56'37"N	120°08'10"E	1999/10-2011/07	港研中心	觀測樁
X1	22°57'22"N	120°08'53"E	2010/12-2019/11(觀測中)	港研中心	安平港南堤
W	22°58'09"N	120°09'54"E	2009/08-2019/11(觀測中)	港研中心	安平港信號臺
B	23°22'48"E	120°08'49"E	2006/08-2019/11(觀測中)	港研中心	布袋港
O	23°28’05"E	120°0052	2000/01-2009/01	水利署	外傘頂氣象站
Y	23°05'55"N	120°00'20"E	2006/06-2019/11(觀測中)	水利署	七股浮標站
H	22°49'8"N	120°11'51"E	2005/10-2019/11(觀測中)	水利署	永安氣象站
E	23°01'25"N	120° 6'42"E	2014/09-2019/11(觀測中)	水利署	四草氣象站
M	23°37'07"N	120°08'15"	2015/01-2019/11(觀測中)	中央氣象局	箔子寮氣象站
Q	23°28'00"N	120°07'21"E	2015/01-2019/11(觀測中)	中央氣象局	塭港氣象站
I	23°0'52"N	120° 04'09"E	2014/08-2016/06	中央氣象局	七股氣象站

圖 WB1 嘉南海域風力觀測站位置示意圖

2019 年中雲海域觀測風力資料

中雲海域(臺中~雲林)風之觀測係 2001 年 6 月，本中心**(IHMT)**於台中港北防風林處(**測站 B**)安裝 Young Brand 風速計，儀器高度約 10m，2009 年 9 月更新為 Gill 二維超音波式風速計，另於 2005 年 9 月在臺中港北防波堤白燈塔頂安裝風速儀(**測站 W**)，2009 年 9 月更新為 Gill 二維超音波式風速計，其位置如附圖 WG1。2017 年於台中港增設**測站 5**、**測站 6**、**測站 8 及測站 9 等測站**。

測站 E 之風速儀屬中央氣象局**(CWB)**設置，**測站 V**(台中港外海浮標站)之風速儀也屬中央氣象局所有。麥寮氣象站**測站 H 及測站 I** 之風速儀則屬水利署所有，**測站 Y**(彰濱外海浮標站)之風速儀屬海科中心**(TORI)**所設置，**測站 Z**(彰濱外海一浮標站)及**測站 R**(彰濱外海二浮標站)之風速儀屬中興工程所設置。各測站歷年觀測風資料蒐集概況如表 WG1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站資料也是平均風速(m/s)及風向(度)。

表 WG1 中雲海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
B	24°18'18"N	120°31'52"E	2001/07-2019/11(觀測中)	港研中心	台中港北防風林
W	24°17'59"N	120°29'12"E	1996/09-1997/11 2005/09-2019/11(觀測中)	港研中心	台中港北堤燈塔
E	24°15'25"N	120°31'23"E	1996/09-2019/11(觀測中)	中央氣象局	梧棲站
Y	24°01'12"N	120°13'59"E	2006/08-2016/12	海科中心	彰濱浮標站
H	24°47'9"N	120°9'39"E	2000/01-2009/06	水利署	麥寮氣象站
I	24°47'9"N	120°9'39"E	2009/01-2019/11(觀測中)	水利署	麥寮氣象站
Z	24°06'24" N	119°41'33" E	2016/09-2017/09	中興工程	彰化外海一浮標
R	24°06'56" N	119°51'08" E	2016/09-2017/09	中興工程	彰化外海二浮標
V	24°12'39" N	120°24'33" E	2019/08-2019/11(觀測中)	中央氣象局	台中港外海浮標
5	24°16'28" N	120°30'59" E	2017/01-2019/11(觀測中)	港研中心	台中港 31 號碼頭
6	24°16'13" N	120°31'45" E	2017/03-2019/11(觀測中)	港研中心	港研中心頂樓
8	24°18'39" N	120°31'35" E	2017/09-2019/11(觀測中)	港研中心	北防沙堤
9	24°14'23" N	120°28'18" E	2019/03-2019/11(觀測中)	港研中心	台中港工專二

圖 WG1 中雲海域風力觀測站位置示意圖

2019 年澎湖海域觀測風力資料

澎湖海域風之觀測係 2009 年 12 月本中心**(IHMT)**安裝 Young Brand 風速計於馬公港區辦事處大樓樓頂澎湖港(**測站 W**) ，位置如圖 WN1。另於 2011 年 12 月於龍門港區安裝 Young Brand 風速計(稱**測站 B**) 。

測站 R(七美資料浮標站)之風速儀屬中央氣象局**(CWB)**所有，**測站 Y**(澎湖外海浮標站)之風速儀屬水利署**(WRA)**所有，姑婆嶼北北西方約 1 公里處，水深 26.6 公尺之浮標上。**測站 E**(馬公港區)及**測站 I**(東吉島)之風速儀屬中央氣象局所有。**測站 H** 之風速儀屬港務公司**(TIPC)**所有，也設置於馬公港區。各觀測站歷年觀測風資料蒐集概況如表 WN1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WN1 澎湖海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	23°33'46"N	119°33'52"E	2009/12-2019/11(觀測中)	港研中心	馬公港區
B	23°33'30"N	119°40'5.5"E	2009/12-2019/11(觀測中)	港研中心	龍門尖山港區
E	23°34'02"N	119°33'19"E	2001/01-2019/11(觀測中)	中央氣象局	馬公港區
Y	23°43'37"N	119°33'07"E	2006/09-2019/11(觀測中)	水利署	澎湖資料浮標
H	23°33'46"N	119°33'52"E	2001/12 -2014/08	港務公司	馬公港區
R	22°45'16"N	119°25'42"E	2015/07-2019/11(觀測中)	中央氣象局	七美資料浮標
I	23°34'02"N	119°33'19"E	2014/08-2018/06	中央氣象局	東吉島

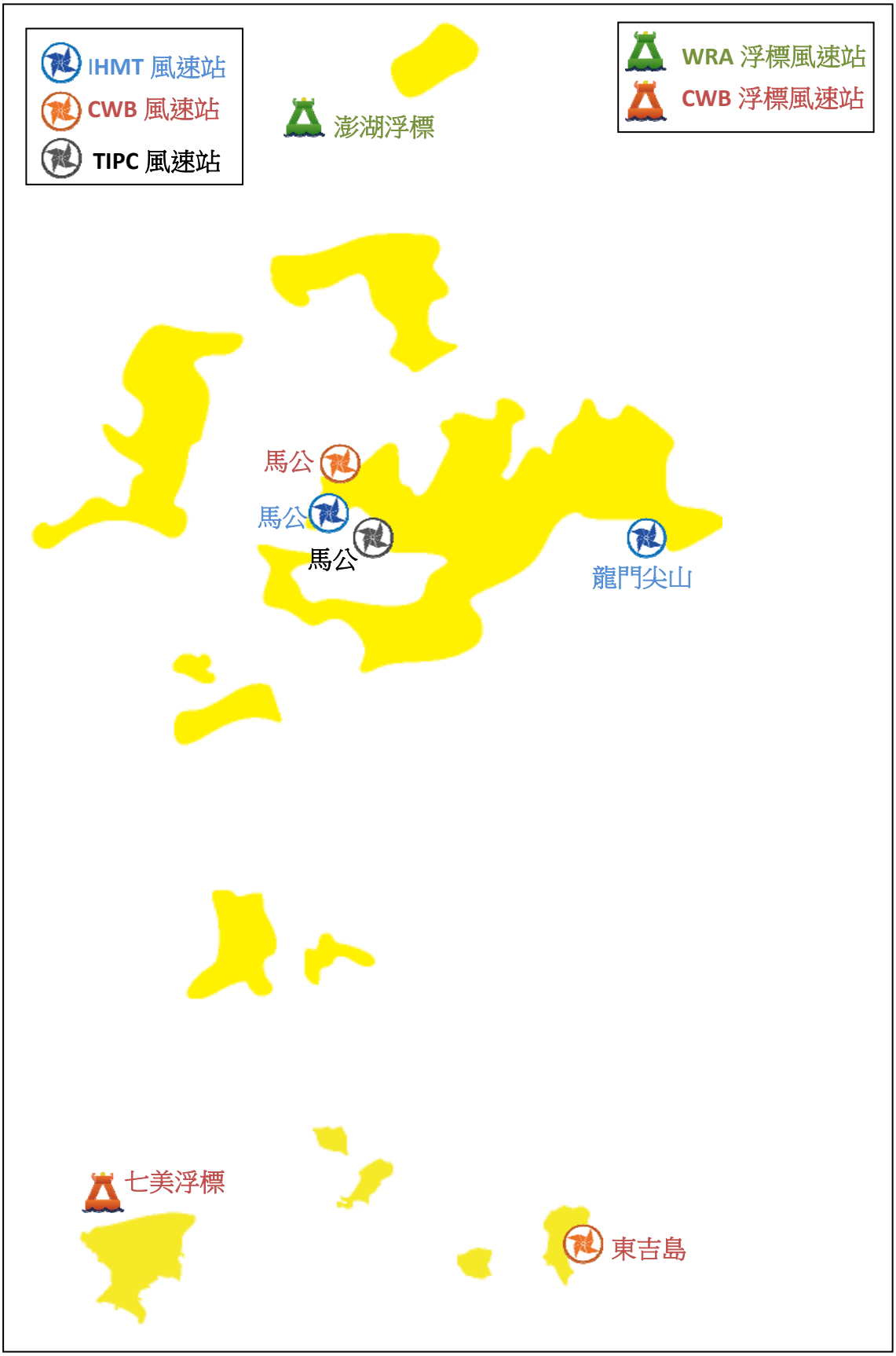

圖 WN1 澎湖海域風力觀測站位置示意圖

2019 年金門海域觀測風力資料

金門海域風力之觀測係 2010 年 12 月本中心**(IHMT)**安裝風速計於金門港水頭港區辦事處大樓樓頂(**測站 W**)，其位置如附圖 WM1。2012 年 8 月本中心另安裝風速計於金門港料羅港區辦事處大樓樓頂(**測站 B**)。2014 年 2 月本中心安裝風速計於金門港九宮港區(**測站 C**) 。

料羅氣象站(**測站 H)**及水頭氣象站(**測站 I)**之風速儀屬**水利署(WRA)**所有。金門料羅港南方海域(**測站 Y)**外海浮標站之風速儀也屬**水利署(WRA)**所有。後江灣小浮標(**測站 Z)**之風速儀屬**近海水文文中心(COMC)**設置。水頭氣象站(**測站 E)**之風速儀屬**中央氣象局(CWB)**所有。各測站歷年觀測風資料蒐集概況如表 WM1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WM1 金門海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	24°24'54"N	118°17'13"E	2010/12-2019/11(觀測中)	港研中心	水頭港區
B	24°24'29"N	118°25'46”E	2012/08-2019/11(觀測中)	港研中心	料羅港區
C	24°25'30"N	118°15'48"E	2014/02-2019/03	港研中心	九宮港區
E	24°24'26"N	118°17'21"E	2004/01-2019/11(觀測中)	中央氣象局	水頭氣象站
Y	24°22'48"N	118°24'41"E	2001/01-2019/11(觀測中)	水利署	金門資料浮標
Z	24°30'27"N	118°22'24"E	2013/01-2014/06	水文中心	后江灣小浮標
H	24°24'32"N	118°25'58"E	2001/01-2019/11(觀測中)	水利署	料羅氣象站
I	24°25'16"N	118°17'21"E	2013/09-2019/11(觀測中)	水利署	水頭氣象站

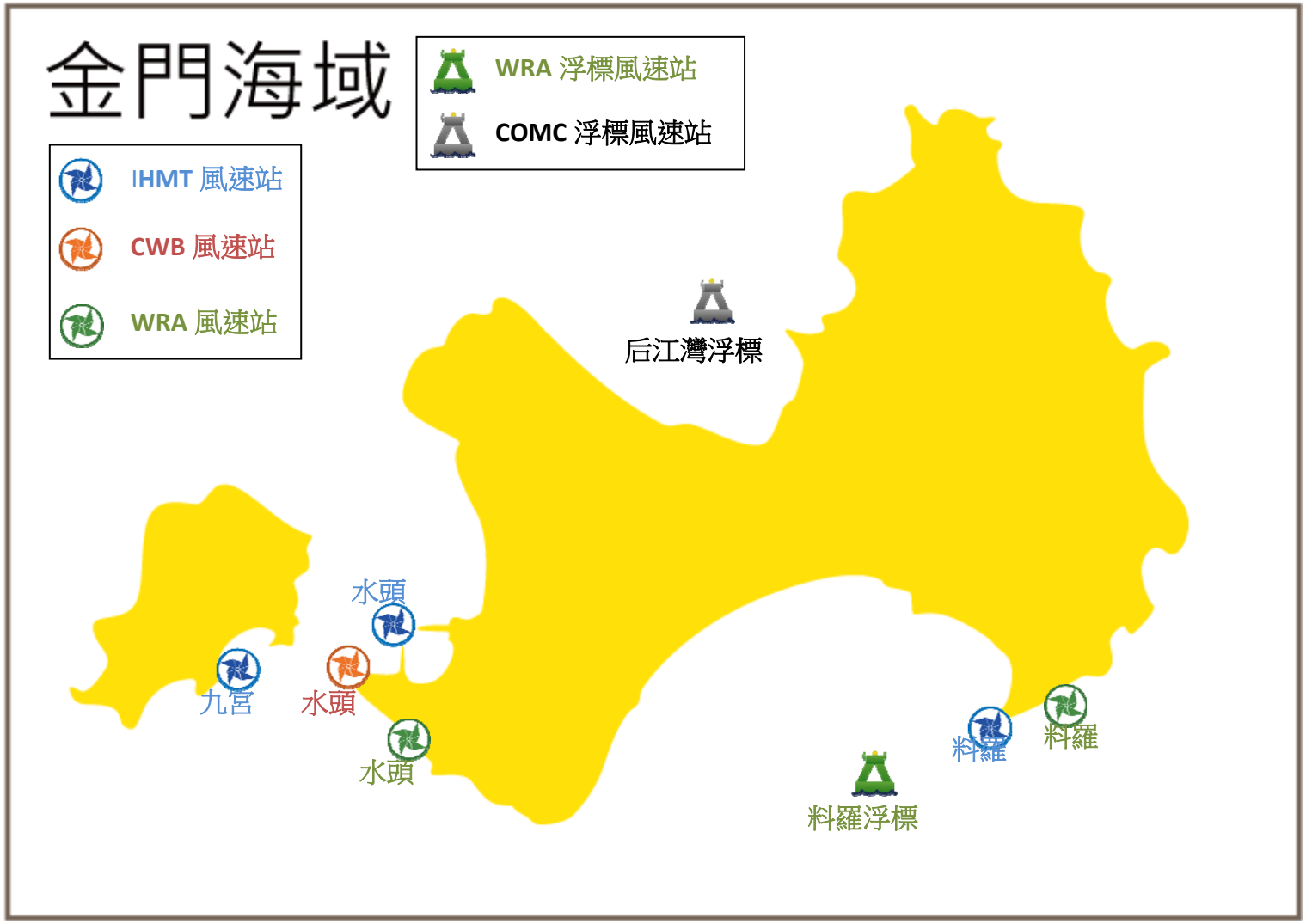

圖 WM1 金門海域風力觀測站位置示意圖

2019 年馬祖海域觀測風力資料

馬祖海域風之觀測係 2012 年 10 月本中心**(IHMT)**安裝 Young Brand 風速計於馬祖**福澳**港辦事處頂樓 (稱**測站 W**) ，其位置如附圖 WU1。2015 年 9 月本中心於北竿、西莒、東引及東莒等 4 處增設風速站(稱**測站 B**、**測站 C**、**測站 D** 及**測站 I**) 。

測站 E 之風速儀屬中央氣象局**(CWB)**所有，**測站 Y(**海域資料浮標)之風速儀也屬屬中央氣象局所有。馬祖海域各測站歷年觀測風資料蒐集概況如表 WU1。

本中心測站風資料之蒐集係採取每小時測定十分鐘之風速、風向數據加以平均，而得出該小時之平均風速、平均風向、最大陣風風速、最大陣風風向、最大陣風之發生時間。本中心之風力資料以取平均風速及平均風向為主。其他測站觀測風速、風向資料也是平均風速(m/s)及風向(度)。

表 WU1 馬祖海域觀測風力資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
W	26°9'36"N	119°56'37"E	2012/10-2019/11(觀測中)	港研中心	福澳港
E	26°10'10"N	119°55'23"E	2004/01-2019/11(觀測中)	中央氣象局	福澳港區
Y	26°22'36"N	120°31'53"E	2010/07-2019/11(觀測中)	中央氣象局	馬祖資料浮標
B	26°12'25"N	119°58'3.5"E	2015/09-2019/11(觀測中)	港研中心	北竿港
C	25°58'11"N	119°55'55"E	2015/09-2019/11(觀測中)	港研中心	西莒港
D	26°9'36"N	119°56'37"E	2015/09-2019/11(觀測中)	港研中心	東引港
I	26°21'49”N	120°29'2.5”E	2015/09-2019/11(觀測中)	港研中心	東莒港

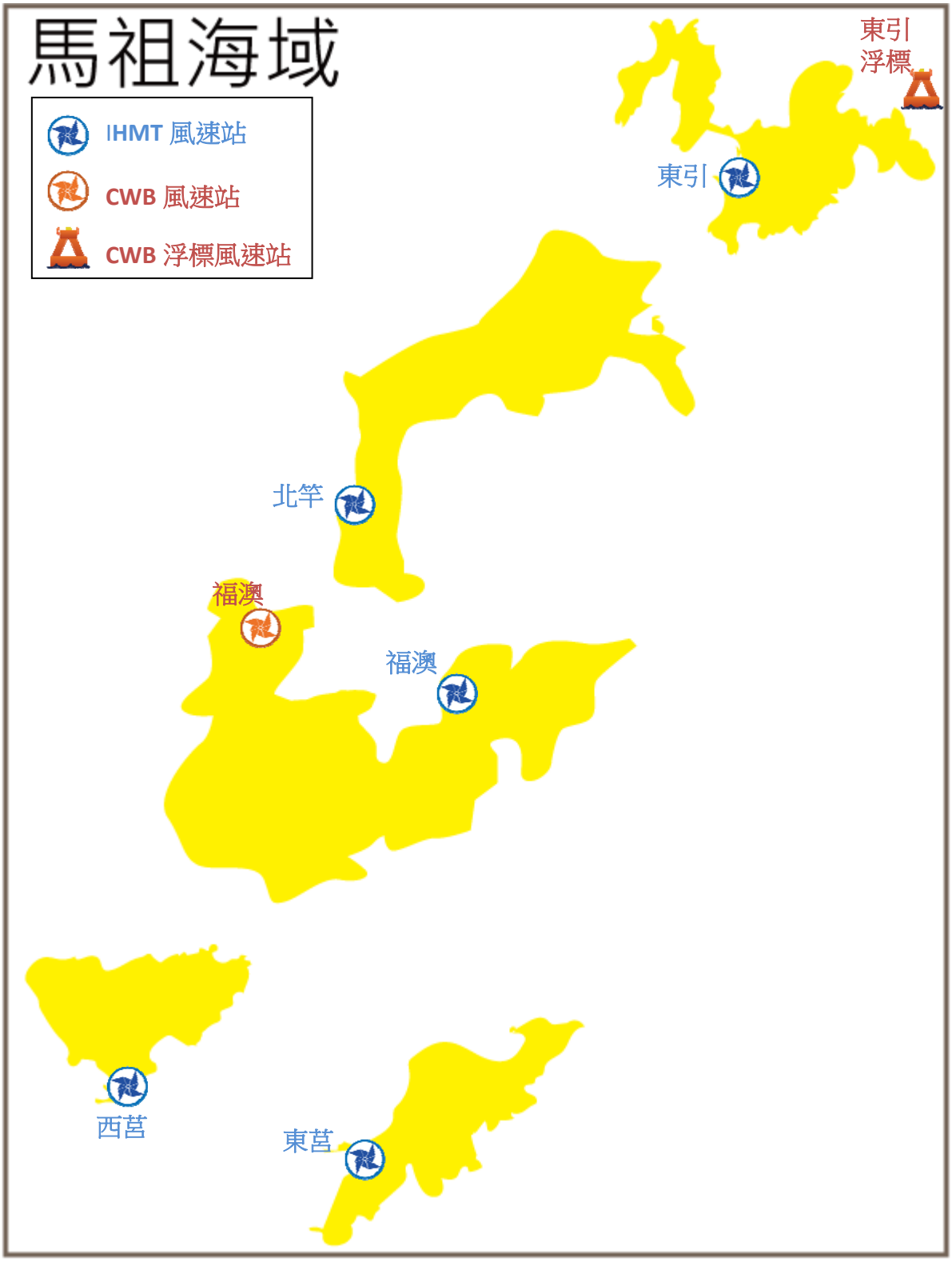

圖 WU1 馬祖海域風力觀測站位置示意圖

第一章　2019 年 12 海域觀測風力資料圖表

北苗海域(新北~苗栗)風力之觀測包括**測站 X、測站 W、測站 E、測站 Y、測站 P、測站 Q、測站 H 及測站 I 等** 8 個測站(測站位置如第 O 章圖 WP1，各測站歷年觀測風資料蒐集概況如表 WP1)。本年報取經檢核及補遺之 **X 站**作為主要測站 1，**Y 站**作為主要測站 2。

北端海域(富貴角~龍洞) 風力之觀測包括**測站 W、測站 Y、測站 E、測站 F、測站 Z、測站 R、測站 J、測站 U 及測站 I 等** 8 個測站(測站位置如第 O 章圖 WK1，各測站歷年觀測風資料蒐集概況如表 WK1)。本年報取經檢核及補遺之 **W 站**作為主要測站 1，**Y 站**作為主要測站 2。

宜蘭海域風之觀測包括**測站 W、測站 Y、測站 E、測站 F、測站 Z 及測站 H 等** 6 個測站(測站位置如第 O 章圖 WS1，各測站歷年觀測風資料蒐集概況如表 WS1)。本年報取經檢核及補遺之 **W 站**資料作為主要測站 1，**Y 站**資料作為主要測站 2。

花蓮海域風之觀測包括**測站 W、測站 Y、測站 E、測站 F 及測站 H 等** 5 個測站(測站位置如第 O 章圖 WL1，各測站歷年觀測風資料蒐集概況如表 WL1)。本年報取經檢核及補遺之 **W 站**資料作為主要測站，**Y 站**資料作為主要測站 2。

臺東海域風之觀測包括**測站 W、測站 Y、測站 E、測站 H、測站 O、測站 M、測站 Q、測站 C、測站 I 及測站 Z 等** 10 個測站(測站位置如第 O 章圖 WJ1，各測站歷年觀測風資料蒐集概況如表 WJ1)。本年報取經檢核及補遺之 **Y 站**資料作為主要測站 1，**W 站**資料作為主要測站 2。

屏東海域風之觀測包括**測站 Y、測站 Z、測站 E、測站 H、測站 O、測站 I、測站 C、測站 J 及測站 P 等** 9 個測站(測站位置如第 O 章圖 WD1，各測站歷年觀測風資料蒐集概況如表 WD1)。本年報取經檢核及補遺之 **Y 站**資料作為主要測站 1，**Z 站**資料作為主要測站 2。

高雄海域風之觀測包括**測站 Z、測站 B、測站 C、測站 E 及測站 H 等** 5 個測站(測站位置如第 O 章圖 WH1，各測站觀測風資料蒐集概況如表 WH1)。本年報取經檢核及補遺之 **W 站**資料作為主要測站 1，**Z 站**資料作為主要測站 2。

嘉南海域風之觀測包括**測站 X、測站 Y、測站 W、測站 B、測站 H、測站 E、測站 M 及測站 Q 等** 8 個測站(測站位置如第 O 章圖 WB1，各測站歷年觀測風資料蒐集概況如表 WB1)。本年報取經檢核及補遺之 **X 站**資料作為主要測站 1，**B 站**資料作為主要測站 2。

中雲海域風之觀測包括**測站 W、測站 I、測站 B、測站 V、測站 5、測站 6、測站 8、測站 9 及測站 E 等** 8 個測站(測站位置如第 O 章圖 WG1，各測站歷年觀測風資料蒐集概況如表 WG1)。本年報取經檢核及補遺之 **W 站**資料作為主要測站 1，**I 站**資料作為主要測站 2。

澎湖海域風之觀測包括**測站 W、測站 Y、測站 B、測站 E、測站 R** 等 5 個測站(測站位置如第 O 章圖 WN1，各測站歷年觀測風資料蒐集概況如表 WN1)。本年報取經檢核及補遺之 **Y 站**資料作為主要測站 1，**W 站**資料作為主要測站 2。

金門海域風之觀測包括**測站 W、測站 Y、測站 B、測站 C、測站 E、測站 H 及測站 I 等** 7 個測站(測站位置如第 O 章圖 WM1，各測站歷年觀測風資料蒐集概況如表 WM1)。本年報取經檢核及補遺之 **Y 站**資料作為主要測站 1，**W 站**資料作為主要測站 2。

馬祖海域風之觀測包括**測站 W、測站 Y、測站 B、測站 E、測站 C、測站 D 及測站 I 等** 7 個測站(測站位置如第 O 章圖 WU1，各測站歷年觀測風資料蒐集概況如表 WU1)。本年報取經檢核及補遺之 **Y 站**資料作為主要測站 1，**W 站**資料作為主要測站 2。

2019 年 12 海域**主要測站 1** 每月風力資料修補前後記錄表，如表 1.1。2019 年 12 海域**主要測站 2** 每月風力資料修補前後記錄表，如表 1.2。

本**風力**年報**資料處理之圖表包括:**

1. 第二章：2019 年 12 海域**主要測站 1** 之每月(季)及整年風速及風向重要統計量統計表。
2. 第三章：2019 年 12 海域**主要測站 1** 修補前後每月風力歷線比較圖。
3. 第四章：2019 年 12 海域**主要測站 1** 修補前後每月風力向量分佈圖。
4. 第五章：2019 年 12 海域**主要測站 1** 修補前後每月風力向量行進圖。
5. 第六章：2019 年 12 海域**主要測站 2** 之每月(季)及整年風速及風向重要統計量統計表。
6. 第七章： 2019 年 12 海域**主要測站 2** 修補前後每月風力歷線比較圖。
7. 第八章：2019 年 12 海域**主要測站 2** 修補前後每月風力向量分佈圖。
8. 第九章：2019 年 12 海域**主要測站 2** 修補前後每月風力向量行進圖。

表1.1a 2019年每月12個海域風力主要觀測1站修補前資料紀錄表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	X	W	W	W	Y	Y	W	X	W	Y	Y	Y
2018/12 月	744(100%)	744(100%)	744(100%)	744(100%)	581(78.1%)	665(89.4%)	*	744(100%)	744(100%)	631(84.8%)	580(78.0%)	578(77.7%)
2019/ 1 月	744(100%)	744(100%)	67(9.0%)	744(100%)	727(97.7%)	730(98.1%)	*	432(58.1%)	744(100%)	720(96.8%)	678(91.1%)	367(49.3%)
2019/ 2 月	672(100%)	672(100%)	40(6.0%)	672(100%)	663(98.7%)	663(98.7%)	*	86(12.8%)	672(100%)	660(98.2%)	654(97.3%)	636(94.6%)
2019/ 3 月	744(100%)	744(100%)	483(64.9%)	744(100%)	740(99.5%)	744(100%)	*	744(100%)	744(100%)	737(99.1%)	639(85.9%)	683(91.8%)
2019/ 4 月	720(100%)	720(100%)	720(100%)	720(100%)	713(99.0%)	720(100%)	*	720(100%)	720(100%)	703(97.6%)	650(90.3%)	701(97.4%)
2019/ 5 月	735(98.8%)	744(100%)	744(100%)	744(100%)	734(98.7%)	738(99.2%)	*	735(98.8%)	744(100%)	707(95.0%)	674(90.6%)	727(97.7%)
2019/ 6 月	720(100%)	720(100%)	720(100%)	720(100%)	656(91.1%)	656(91.1%)	*	634(88.1%)	720(100%)	634(88.1%)	545(75.7%)	655(91.0%)
2019/ 7 月	744(100%)	744(100%)	744(100%)	744(100%)	636(85.5%)	627(84.3%)	*	633(85.1%)	744(100%)	631(84.8%)	483(64.9%)	642(86.3%)
2019/ 8 月	744(100%)	740(99.5%)	744(100%)	744(100%)	690(92.7%)	*	*	675(90.7%)	744(100%)	682(91.7%)	559(75.1%)	705(94.8%)
2019/ 9 月	719(99.9%)	720(100%)	545(75.7%)	720(100%)	563(78.2%)	125(17.4%)	*	688(95.6%)	720(100%)	549(76.3%)	461(64.0%)	567(78.8%)
2019/10 月	683(91.8%)	744(100%)	744(100%)	744(100%)	699(94.0%)	702(94.4%)	*	590(79.3%)	744(100%)	679(91.3%)	581(78.1%)	702(94.4%)
2019/11 月	719(99.9%)	720(100%)	720(100%)	720(100%)	714(99.2%)	720(100%)	*	413(57.4%)	720(100%)	709(98.5%)	563(78.2%)	720(100%)

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表1.1b 2019年每月12個海域風力主要觀測1站修補後資料紀錄表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	X	W	W	W	Y	Y	W	X	W	Y	Y	Y
2018/12 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 1 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 2 月	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)
2019/ 3 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 4 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/ 5 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 6 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/ 7 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 8 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 9 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/10 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/11 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)

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表1.2a 2019年每月12個海域風力主要觀測2站修補前資料紀錄表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	Y	Y	Y	Y	W	Z	Z	B	I	W	W	W
2018/12 月	662(89.0%)	623(83.7%)	664(89.2%)	653(87.8%)	636(85.5%)	661(88.8%)	577(77.6%)	743(99.9%)	617(82.9%)	346(46.5%)	430(57.8%)	286(38.4%)
2019/ 1 月	733(98.5%)	287(38.6%)	715(96.1%)	736(98.9%)	528(71.0%)	717(96.4%)	603(81.0%)	744(100%)	617(82.9%)	*	588(79.0%)	335(45.0%)
2019/ 2 月	594(88.4%)	73(10.9%)	651(96.9%)	664(98.8%)	638(94.9%)	656(97.6%)	517(76.9%)	672(100%)	621(92.4%)	177(26.3%)	540(80.4%)	258(38.4%)
2019/ 3 月	409(55.0%)	204(27.4%)	734(98.7%)	744(100%)	715(96.1%)	738(99.2%)	583(78.4%)	743(99.9%)	716(96.2%)	414(55.6%)	554(74.5%)	421(56.6%)
2019/ 4 月	694(96.4%)	707(98.2%)	715(99.3%)	720(100%)	720(100%)	717(99.6%)	575(79.9%)	720(100%)	705(97.9%)	*	664(92.2%)	552(76.7%)
2019/ 5 月	700(94.1%)	737(99.1%)	730(98.1%)	738(99.2%)	733(98.5%)	727(97.7%)	574(77.2%)	733(98.5%)	721(96.9%)	105(14.1%)	329(44.2%)	633(85.1%)
2019/ 6 月	617(85.7%)	658(91.4%)	653(90.7%)	658(91.4%)	719(99.9%)	649(90.1%)	554(76.9%)	719(99.9%)	643(89.3%)	475(66.0%)	359(49.9%)	545(75.7%)
2019/ 7 月	625(84.0%)	641(86.2%)	630(84.7%)	642(86.3%)	744(100%)	634(85.2%)	450(60.5%)	744(100%)	598(80.4%)	457(61.4%)	700(94.1%)	744(100%)
2019/ 8 月	684(91.9%)	702(94.4%)	684(91.9%)	709(95.3%)	744(100%)	703(94.5%)	501(67.3%)	744(100%)	667(89.7%)	437(58.7%)	744(100%)	743(99.9%)
2019/ 9 月	566(78.6%)	569(79.0%)	497(69.0%)	569(79.0%)	720(100%)	568(78.9%)	416(57.8%)	720(100%)	558(77.5%)	697(96.8%)	720(100%)	720(100%)
2019/10 月	702(94.4%)	701(94.2%)	664(89.2%)	702(94.4%)	721(96.9%)	702(94.4%)	525(70.6%)	726(97.6%)	684(91.9%)	738(99.2%)	744(100%)	38(5.1%)
2019/11 月	720(100%)	720(100%)	713(99.0%)	720(100%)	720(100%)	720(100%)	550(76.4%)	720(100%)	706(98.1%)	711(98.8%)	720(100%)	*

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表1.2b 2019年每月12個海域風力主要觀測2站修補後資料紀表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	Y	Y	Y	Y	W	Z	Z	B	I	W	W	W
2018/12 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 1 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 2 月	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)
2019/ 3 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 4 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/ 5 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 6 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/ 7 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 8 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/ 9 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)
2019/10 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)
2019/11 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)

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第二章 2019 年 12 海域風力主要測站 1 修補前後風力統計量統計表

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

表2.1a 2018年12月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	9.0	7.8/NE	18.8/NE	18.0	20.0	47.6	14.4	71.9	17.3	5.2	5.5	NE /43.5%
2	北端海域(W)	744(100%)	5.2	3.9/NNE	12.9/N	34.3	44.0	21.8	.0	59.1	14.9	9.7	16.3	NNE/28.9%
3	宜蘭海域(W)	744(100%)	3.9	2.2/NW	11.7/NNE	43.1	54.0	2.8	.0	13.3	8.9	14.0	63.8	W /22.0%
4	花蓮海域(W)	744(100%)	4.5	2.3/NE	13.5/ENE	39.2	47.8	12.9	.0	49.9	7.9	19.8	22.4	NE /21.9%
5	臺東海域(Y)	581(78%)	5.9	.7/NE	13.9/SSE	16.0	62.8	20.8	.3	31.0	21.5	22.5	25.0	NE / 9.5%
6	屏東海域(Y)	665(89%)	3.0	2.2/NNW	9.1/SE	58.9	40.6	.5	.0	24.4	4.2	5.0	66.5	NW /25.7%
7	高雄海域(W)													
8	嘉南海域(X)	744(100%)	6.8	6.4/N	13.9/NNE	8.6	57.4	33.9	.1	74.7	.7	.9	23.7	NNE/43.5%
9	中雲海域(W)	744(100%)	13.7	13.3/NNE	26.2/NNE	13.4	9.4	21.6	55.5	88.0	4.7	2.4	4.8	NNE/72.4%
10	澎湖海域(Y)	631(85%)	10.5	9.6/NNE	17.5/N	10.5	15.8	43.7	30.0	82.3	4.3	2.7	10.8	NNE/51.3%
11	金門海域(Y)	580(78%)	7.2	6.7/NE	14.5/NE	22.8	26.9	49.5	.9	83.4	6.0	4.3	6.2	NE /53.3%
12	馬祖海域(Y)	578(78%)	9.9	9.2/NNE	16.6/NNE	5.0	29.1	46.5	19.4	84.9	.5	5.9	8.7	NNE/51.6%

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表2.1b 2018年12月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	9.0	7.8/NE	18.8/NE	18.0	20.0	47.6	14.4	71.9	17.3	5.2	5.5	NE /43.4%
2	北端海域(W)	744(100%)	5.2	3.9/NNE	12.9/N	34.3	44.0	21.8	.0	59.1	14.9	9.7	16.3	NNE/28.9%
3	宜蘭海域(W)	744(100%)	3.9	2.2/NW	11.7/NNE	43.1	54.0	2.8	.0	13.3	8.7	14.1	63.8	W /22.0%
4	花蓮海域(W)	744(100%)	4.5	2.3/NE	13.5/ENE	39.2	47.8	12.9	.0	49.6	7.8	20.0	22.6	NE /21.9%
5	臺東海域(Y)	744(100%)	5.8	1.3/NNE	13.9/SSE	14.0	66.9	18.8	.3	36.3	18.3	18.8	26.6	NNE/11.4%
6	屏東海域(Y)	744(100%)	3.0	2.2/NNW	9.1/SE	61.0	38.6	.4	.0	27.6	3.6	4.6	64.2	NW /23.9%
7	高雄海域(W)	744(100%)	4.5	4.2/N	11.8/NNW	27.4	65.5	7.1	.0	39.7	.4	1.5	58.5	N /40.9%
8	嘉南海域(X)	744(100%)	6.8	6.4/N	13.9/NNE	8.6	57.4	33.9	.1	74.9	.7	.9	23.5	NNE/43.4%
9	中雲海域(W)	744(100%)	13.7	13.3/NNE	26.2/NNE	13.4	9.4	21.6	55.5	88.0	4.7	2.4	4.8	NNE/72.4%
10	澎湖海域(Y)	744(100%)	10.6	9.7/NNE	18.3/NE	9.3	15.5	46.4	28.9	84.5	3.8	2.3	9.4	NNE/49.5%
11	金門海域(Y)	744(100%)	7.1	6.5/NE	14.5/NE	21.6	31.0	46.4	.9	84.9	5.2	4.3	5.5	NE /47.0%
12	馬祖海域(Y)	744(100%)	9.9	9.2/NNE	16.6/NNE	4.6	29.2	49.3	16.9	87.0	.7	5.1	7.3	NNE/48.9%

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表2.1a 2019年 1月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	7.8	6.6/NE	16.0/NNE	17.6	30.0	47.2	5.2	76.1	7.5	8.6	7.8	NE /37.5%
2	北端海域(W)	744(100%)	4.2	3.2/NNE	11.8/N	44.6	46.0	9.4	.0	58.7	16.1	8.9	16.3	NNE/23.5%
3	宜蘭海域(W)	67(9%)	3.7	1.2/ENE	8.2/ENE	47.8	47.8	4.5	.0	38.8	26.9	4.5	29.9	NE /13.4%
4	花蓮海域(W)	744(100%)	4.0	2.1/NNE	11.2/ENE	48.4	45.3	6.3	.0	49.2	5.1	13.8	31.9	NE /24.9%
5	臺東海域(Y)	727(98%)	5.1	.7/ENE	12.1/ESE	16.2	74.6	9.2	.0	31.9	25.4	20.8	21.9	NE / 9.2%
6	屏東海域(Y)	730(98%)	3.1	2.5/NNW	8.4/NNW	57.3	42.2	.5	.0	27.8	4.2	2.9	65.1	NNW/21.6%
7	高雄海域(W)													
8	嘉南海域(X)	432(58%)	6.6	6.3/N	12.0/N	6.5	71.1	22.5	.0	72.0	.0	.0	28.0	NNE/47.0%
9	中雲海域(W)	744(100%)	13.0	12.8/NNE	24.2/NNE	5.0	16.9	28.4	49.7	94.2	1.3	1.2	3.2	NNE/77.6%
10	澎湖海域(Y)	720(97%)	10.4	10.3/NNE	16.3/NNE	2.9	21.4	56.8	18.9	93.1	.0	.3	6.7	NNE/59.3%
11	金門海域(Y)	678(91%)	6.8	6.4/NE	14.5/ENE	15.5	44.0	40.1	.4	90.6	3.2	1.5	4.7	NE /49.1%
12	馬祖海域(Y)	367(49%)	9.0	8.6/NNE	14.4/NE	9.0	21.8	67.6	1.6	89.6	.3	4.4	5.7	NNE/50.4%

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表2.1b 2019年 1月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	7.8	6.6/NE	16.0/NNE	17.6	30.0	47.2	5.2	76.1	7.5	8.6	7.8	NE /37.5%
2	北端海域(W)	744(100%)	4.2	3.2/NNE	11.8/N	44.6	46.0	9.4	.0	58.7	16.1	8.9	16.3	NNE/23.5%
3	宜蘭海域(W)	744(100%)	4.0	1.7/NW	13.8/E	41.8	53.9	4.2	.1	22.0	4.8	25.9	47.2	W /22.4%
4	花蓮海域(W)	744(100%)	4.0	2.1/NNE	11.2/ENE	48.4	45.3	6.3	.0	49.2	5.1	13.7	32.0	NE /24.9%
5	臺東海域(Y)	744(100%)	5.1	.7/ENE	12.1/ESE	16.1	74.6	9.3	.0	31.6	25.1	20.4	22.8	NE / 9.0%
6	屏東海域(Y)	744(100%)	3.2	2.5/NNW	8.4/NNW	56.7	42.7	.5	.0	27.7	4.2	2.8	65.3	NNW/21.8%
7	高雄海域(W)	744(100%)	4.7	4.4/NNW	12.7/NNW	22.6	69.4	8.1	.0	35.5	.3	.0	64.2	N /50.1%
8	嘉南海域(X)	744(100%)	7.2	6.9/N	15.1/N	6.6	59.4	32.4	1.6	66.5	.5	.0	32.9	N /49.1%
9	中雲海域(W)	744(100%)	13.0	12.8/NNE	24.2/NNE	5.0	16.9	28.4	49.7	94.2	1.2	1.5	3.1	NNE/77.6%
10	澎湖海域(Y)	744(100%)	10.4	10.2/NNE	16.3/NNE	2.8	21.8	56.7	18.7	93.1	.0	.3	6.6	NNE/59.3%
11	金門海域(Y)	744(100%)	6.8	6.4/NE	16.7/ENE	15.3	45.6	38.3	.8	90.3	3.4	1.3	5.0	NE /47.6%
12	馬祖海域(Y)	744(100%)	8.4	8.0/NE	14.4/NE	4.8	37.4	57.0	.8	94.0	.1	2.3	3.6	NE /44.1%

DISW4A.BAT 日期: 2019年01月 港灣技術研究中心

表2.1a 2019年 2月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	672(100%)	7.5	6.8/NNE	16.6/NNW	18.9	30.4	47.5	3.3	80.4	5.4	5.1	9.2	NE /44.2%
2	北端海域(W)	672(100%)	3.9	3.1/N	9.7/NNE	42.6	53.1	4.3	.0	54.6	5.8	8.8	30.8	NNE/25.0%
3	宜蘭海域(W)	40(6%)	5.0	3.2/SE	10.4/SSE	25.0	50.0	25.0	.0	27.5	67.5	.0	5.0	SSE/22.5%
4	花蓮海域(W)	672(100%)	3.4	1.2/NNE	9.1/NE	57.3	41.1	1.6	.0	40.3	7.7	17.4	34.5	NE /16.2%
5	臺東海域(Y)	663(99%)	4.7	.9/NE	11.5/NNW	27.1	61.1	11.8	.0	27.9	27.9	19.5	24.7	NE / 8.7%
6	屏東海域(Y)	663(99%)	3.9	1.3/NNW	11.0/SE	41.2	53.4	5.4	.0	24.4	17.3	8.1	50.1	NW /17.2%
7	高雄海域(W)													
8	嘉南海域(X)	86(13%)	6.6	6.1/N	10.6/N	5.8	67.4	26.7	.0	50.0	.0	.0	50.0	N /36.0%
9	中雲海域(W)	672(100%)	9.9	9.4/NNE	22.0/NNE	12.4	21.6	42.7	23.4	87.4	3.1	2.7	6.8	NNE/49.3%
10	澎湖海域(Y)	660(98%)	7.7	7.3/NNE	14.2/N	15.2	31.2	52.9	.8	86.2	3.3	2.0	8.5	NNE/58.2%
11	金門海域(Y)	654(97%)	6.2	5.7/NE	12.9/ENE	22.2	43.1	34.7	.0	84.3	8.3	4.6	2.9	NE /45.7%
12	馬祖海域(Y)	636(95%)	7.7	7.1/NNE	13.4/ENE	15.1	23.3	61.6	.0	85.4	3.6	6.0	5.0	NNE/47.3%

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表2.1b 2019年 2月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	672(100%)	7.5	6.8/NNE	16.6/NNW	18.9	30.4	47.5	3.3	80.4	5.4	5.1	9.2	NE /44.2%
2	北端海域(W)	672(100%)	3.9	3.1/N	9.7/NNE	42.6	53.1	4.3	.0	54.6	5.8	8.8	30.8	NNE/25.0%
3	宜蘭海域(W)	672(100%)	3.2	1.1/NNW	10.4/SSE	59.8	38.5	1.6	.0	32.3	7.7	21.4	38.5	W /20.5%
4	花蓮海域(W)	672(100%)	3.4	1.2/NNE	9.1/NE	57.4	40.9	1.6	.0	40.5	7.7	17.4	34.4	NE /16.2%
5	臺東海域(Y)	672(100%)	4.7	.9/NE	11.5/NNW	26.9	61.3	11.8	.0	28.6	27.5	19.2	24.7	NE / 8.6%
6	屏東海域(Y)	672(100%)	3.9	1.4/NNW	11.0/SE	41.1	53.6	5.4	.0	24.7	17.1	8.0	50.1	NW /17.3%
7	高雄海域(W)	672(100%)	5.1	3.7/NNW	14.1/NNW	22.0	65.0	12.6	.3	26.3	3.6	9.5	60.6	N /34.1%
8	嘉南海域(X)	672(100%)	7.2	6.1/N	14.4/N	9.2	48.2	41.7	.9	57.7	3.7	8.3	30.2	N /46.4%
9	中雲海域(W)	672(100%)	9.9	9.4/NNE	22.0/NNE	12.4	21.6	42.7	23.4	87.4	3.1	2.8	6.7	NNE/49.3%
10	澎湖海域(Y)	672(100%)	7.8	7.4/NNE	15.2/NNE	14.9	30.7	53.1	1.3	86.5	3.3	1.9	8.3	NNE/58.9%
11	金門海域(Y)	672(100%)	6.2	5.7/NE	16.8/E	22.8	42.3	34.8	.1	84.2	8.3	4.5	3.0	NE /44.8%
12	馬祖海域(Y)	672(100%)	7.8	7.1/NNE	13.4/ENE	15.0	23.5	61.5	.0	85.7	3.4	5.8	5.1	NNE/47.9%

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表2.1a 2019年 3月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	6.9	4.1/NE	15.1/NE	20.6	39.8	37.6	2.0	53.5	22.4	13.7	10.3	NE /24.1%
2	北端海域(W)	744(100%)	3.8	2.0/NNE	9.6/N	45.3	50.1	4.6	.0	43.8	18.8	15.3	22.0	NNE/16.9%
3	宜蘭海域(W)	483(65%)	3.7	.6/WNW	11.2/S	51.6	43.5	5.0	.0	19.0	18.4	18.8	43.7	W /17.8%
4	花蓮海域(W)	744(100%)	3.5	.8/N	10.5/S	53.2	43.7	3.1	.0	34.4	7.7	26.2	31.7	NE /15.5%
5	臺東海域(Y)	740(100%)	4.9	.7/E	13.0/N	25.4	62.7	11.9	.0	28.0	31.2	21.8	19.1	ESE/ 9.5%
6	屏東海域(Y)	744(100%)	3.7	1.5/NNW	12.5/ESE	46.4	50.0	3.6	.0	23.8	14.8	9.4	52.0	NW /18.7%
7	高雄海域(W)													
8	嘉南海域(X)	744(100%)	5.3	3.6/N	13.1/N	24.1	59.4	16.5	.0	56.3	7.5	9.4	26.7	NNE/31.7%
9	中雲海域(W)	744(100%)	8.4	6.5/NNE	21.8/NNE	19.5	29.7	34.4	16.4	72.4	4.7	13.7	9.1	NNE/33.1%
10	澎湖海域(Y)	737(99%)	7.4	6.3/NNE	15.0/NNE	13.8	43.1	39.8	3.3	75.6	4.3	9.5	10.6	NNE/47.6%
11	金門海域(Y)	639(86%)	5.6	4.4/NE	12.9/NE	27.1	49.8	23.2	.0	76.4	5.5	11.1	7.0	NE /33.6%
12	馬祖海域(Y)	683(92%)	6.5	5.4/NNE	13.2/NNE	14.3	51.0	34.7	.0	80.2	.3	7.8	11.7	NNE/43.8%

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表2.1b 2019年 3月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	6.9	4.1/NE	15.1/NE	20.6	39.8	37.6	2.0	53.6	22.4	13.7	10.2	NE /23.9%
2	北端海域(W)	744(100%)	3.8	2.0/NNE	9.6/N	45.3	50.1	4.6	.0	43.8	18.8	15.3	22.0	NNE/16.9%
3	宜蘭海域(W)	744(100%)	3.6	.9/WNW	11.3/E	52.7	42.6	4.7	.0	20.6	12.9	24.9	41.7	W /18.7%
4	花蓮海域(W)	744(100%)	3.5	.8/N	10.5/S	53.2	43.7	3.1	.0	34.5	7.7	26.2	31.6	NE /15.5%
5	臺東海域(Y)	744(100%)	4.8	.7/E	13.0/N	25.7	62.5	11.8	.0	28.1	31.0	21.9	19.0	ESE/ 9.4%
6	屏東海域(Y)	744(100%)	3.7	1.5/NNW	12.5/ESE	46.5	49.9	3.6	.0	23.8	14.8	9.4	52.0	NW /18.7%
7	高雄海域(W)	744(100%)	4.6	3.0/NNW	13.2/NNW	34.0	55.2	10.8	.0	37.6	8.1	7.3	47.0	NNW/25.5%
8	嘉南海域(X)	744(100%)	5.3	3.6/N	13.1/N	24.1	59.4	16.5	.0	56.3	7.5	9.4	26.7	NNE/31.7%
9	中雲海域(W)	744(100%)	8.4	6.5/NNE	21.8/NNE	19.5	29.7	34.4	16.4	72.2	4.3	14.4	9.1	NNE/32.9%
10	澎湖海域(Y)	744(100%)	7.4	6.3/NNE	15.0/NNE	13.7	43.4	39.7	3.2	75.3	4.4	9.7	10.6	NNE/47.4%
11	金門海域(Y)	744(100%)	5.5	4.5/NE	12.9/NE	28.2	48.7	23.1	.0	75.7	6.5	10.6	7.3	NE /31.7%
12	馬祖海域(Y)	744(100%)	6.4	5.2/NNE	13.2/NNE	15.2	52.2	32.7	.0	78.1	1.1	8.6	12.2	NNE/41.8%

DISW4A.BAT 日期: 2019年03月 港灣技術研究中心

表2.1a 2019年 4月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	5.2	1.9/NNE	15.3/N	40.3	33.5	25.7	.6	38.1	18.2	23.5	20.3	NE /17.6%
2	北端海域(W)	720(100%)	2.8	1.2/NNE	10.5/NNW	67.4	30.3	2.4	.0	33.6	19.3	20.4	26.7	NE /12.1%
3	宜蘭海域(W)	720(100%)	3.3	.4/W	11.2/S	60.3	35.3	4.4	.0	17.9	22.5	19.4	40.1	W /20.3%
4	花蓮海域(W)	720(100%)	3.2	.6/NNE	10.1/ENE	62.2	35.1	2.6	.0	29.7	17.5	24.6	28.2	W /13.5%
5	臺東海域(Y)	713(99%)	3.9	.8/NE	11.9/WNW	47.8	43.3	8.8	.0	33.2	23.1	21.7	21.9	N / 9.5%
6	屏東海域(Y)	720(100%)	3.4	1.6/NW	9.4/NW	51.5	46.0	2.5	.0	16.1	15.6	14.2	54.2	NW /22.6%
7	高雄海域(W)													
8	嘉南海域(X)	720(100%)	4.7	2.1/N	21.4/WNW	32.4	57.4	10.0	.3	34.3	16.5	21.0	28.2	NNE/19.2%
9	中雲海域(W)	720(100%)	7.5	2.5/NNE	19.2/NNE	14.6	42.1	33.8	9.6	52.1	4.3	35.6	8.1	NNE/28.1%
10	澎湖海域(Y)	703(98%)	5.8	3.3/NNE	13.8/N	21.9	53.3	24.6	.1	52.3	11.9	22.2	13.5	NNE/28.6%
11	金門海域(Y)	650(90%)	4.5	2.2/ENE	12.1/ENE	42.8	40.6	16.6	.0	52.8	13.1	24.9	9.2	NE /26.2%
12	馬祖海域(Y)	701(97%)	5.1	3.2/NNE	12.6/NE	39.8	32.4	27.8	.0	61.5	6.0	22.5	10.0	NNE/30.7%

DISW4A.BAT 日期: 2019年04月 港灣技術研究中心

表2.1b 2019年 4月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	5.2	1.9/NNE	15.3/N	40.3	33.5	25.7	.6	38.1	18.2	23.5	20.3	NE /17.6%
2	北端海域(W)	720(100%)	2.8	1.2/NNE	10.5/NNW	67.4	30.3	2.4	.0	33.6	19.0	20.7	26.7	NE /12.1%
3	宜蘭海域(W)	720(100%)	3.3	.4/W	11.2/S	60.3	35.3	4.4	.0	17.9	22.5	19.0	40.6	W /20.3%
4	花蓮海域(W)	720(100%)	3.2	.6/NNE	10.1/ENE	62.2	35.1	2.6	.0	29.7	17.5	24.6	28.2	W /13.5%
5	臺東海域(Y)	720(100%)	3.9	.8/NE	11.9/WNW	48.1	43.2	8.8	.0	33.1	23.2	22.1	21.7	N / 9.4%
6	屏東海域(Y)	720(100%)	3.4	1.6/NW	9.4/NW	51.9	45.6	2.5	.0	16.0	15.1	14.9	54.0	NW /22.5%
7	高雄海域(W)	720(100%)	4.1	2.6/NNW	13.1/NNW	46.4	46.8	6.8	.0	25.0	6.1	13.8	55.1	NNW/19.9%
8	嘉南海域(X)	720(100%)	4.7	2.1/N	21.4/WNW	32.4	57.4	10.0	.3	34.2	16.7	21.0	28.2	NNE/19.2%
9	中雲海域(W)	720(100%)	7.5	2.5/NNE	19.2/NNE	14.6	42.1	33.8	9.6	52.1	4.3	35.6	8.1	NNE/28.1%
10	澎湖海域(Y)	720(100%)	5.8	3.2/NNE	13.8/N	22.2	53.2	24.4	.1	52.1	11.9	22.8	13.2	NNE/28.3%
11	金門海域(Y)	720(100%)	4.4	2.1/ENE	12.1/ENE	45.1	38.9	16.0	.0	51.9	13.3	26.3	8.5	NE /25.0%
12	馬祖海域(Y)	720(100%)	5.1	3.2/NNE	12.6/NE	39.4	33.3	27.2	.0	61.4	5.8	23.1	9.7	NNE/30.6%

DISW4A.BAT 日期: 2019年04月 港灣技術研究中心

表2.1a 2019年 5月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	735(99%)	5.8	2.6/ENE	14.4/NNE	28.6	41.2	30.1	.1	45.2	27.3	19.5	8.0	NE /21.4%
2	北端海域(W)	744(100%)	3.1	1.2/ENE	10.9/NNE	62.5	34.5	3.0	.0	38.7	30.8	15.9	14.7	SSE/12.6%
3	宜蘭海域(W)	744(100%)	3.2	.9/WNW	11.6/NNE	62.2	35.2	2.6	.0	14.2	16.7	21.9	47.2	W /21.4%
4	花蓮海域(W)	744(100%)	3.1	1.0/N	10.0/NE	63.2	35.3	1.5	.0	34.8	8.2	19.8	37.2	W /15.1%
5	臺東海域(Y)	734(99%)	3.5	.3/ENE	11.8/SW	49.6	47.4	3.0	.0	28.7	28.7	20.6	21.9	ENE/ 8.7%
6	屏東海域(Y)	738(99%)	3.0	.4/NNW	9.5/SSE	62.5	34.6	3.0	.0	25.3	22.6	12.3	39.7	NW /12.5%
7	高雄海域(W)													
8	嘉南海域(X)	735(99%)	3.9	1.4/N	11.3/S	42.9	54.7	2.4	.0	36.9	17.3	20.3	25.6	NNE/21.5%
9	中雲海域(W)	744(100%)	7.0	3.5/NNE	20.7/NNE	28.0	32.4	28.4	11.3	57.0	3.4	28.2	11.4	NNE/26.5%
10	澎湖海域(Y)	707(95%)	6.8	4.3/NNE	14.5/NNE	20.5	43.7	34.1	1.7	61.2	4.5	22.2	12.0	NNE/40.7%
11	金門海域(Y)	674(91%)	4.8	3.3/NE	14.4/ENE	34.9	51.3	13.6	.1	68.2	7.6	17.8	6.4	NE /27.9%
12	馬祖海域(Y)	727(98%)	5.2	4.4/NNE	13.7/NE	29.6	52.1	18.3	.0	79.1	5.0	9.6	6.3	NNE/39.8%

DISW4A.BAT 日期: 2019年05月 港灣技術研究中心

表2.1b 2019年 5月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	5.8	2.6/ENE	14.4/NNE	29.4	40.7	29.7	.1	44.8	27.0	19.5	8.7	NE /21.1%
2	北端海域(W)	744(100%)	3.1	1.2/ENE	10.9/NNE	62.6	34.4	3.0	.0	38.7	30.8	15.9	14.7	SSE/12.8%
3	宜蘭海域(W)	744(100%)	3.2	.9/WNW	11.6/NNE	62.4	35.1	2.6	.0	14.2	16.7	21.9	47.2	W /21.2%
4	花蓮海域(W)	744(100%)	3.1	1.0/N	10.0/NE	63.2	35.3	1.5	.0	34.9	8.2	19.8	37.1	W /15.1%
5	臺東海域(Y)	744(100%)	3.5	.3/ENE	11.8/SW	50.1	46.9	3.0	.0	28.8	28.5	20.3	22.4	ENE/ 8.7%
6	屏東海域(Y)	744(100%)	3.0	.4/NNW	9.5/SSE	62.2	34.8	3.0	.0	25.5	22.2	12.9	39.4	NW /12.2%
7	高雄海域(W)	744(100%)	3.8	2.3/NW	12.2/S	46.2	50.1	3.6	.0	26.2	5.8	16.3	51.7	NNW/18.3%
8	嘉南海域(X)	744(100%)	3.9	1.4/N	11.3/S	43.5	54.0	2.4	.0	36.4	17.1	19.9	26.6	NNE/21.4%
9	中雲海域(W)	744(100%)	7.0	3.5/NNE	20.7/NNE	28.0	32.4	28.4	11.3	56.9	3.2	29.2	10.8	NNE/26.3%
10	澎湖海域(Y)	744(100%)	6.6	4.1/NNE	14.5/NNE	21.4	44.6	32.4	1.6	59.5	6.0	22.7	11.7	NNE/39.8%
11	金門海域(Y)	744(100%)	4.8	3.2/NE	14.4/ENE	36.0	50.7	13.2	.1	67.9	7.8	18.0	6.3	NE /27.3%
12	馬祖海域(Y)	744(100%)	5.2	4.4/NNE	13.7/NE	29.3	52.7	18.0	.0	79.3	5.0	9.5	6.2	NNE/39.8%

DISW4A.BAT 日期: 2019年05月 港灣技術研究中心

表2.1a 2019年 6月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	4.7	1.7/WSW	15.3/SW	44.7	35.8	18.9	.6	21.4	22.4	46.1	10.1	SW /15.7%
2	北端海域(W)	720(100%)	2.3	.3/ENE	7.4/SE	79.0	21.0	.0	.0	27.6	24.0	30.4	17.9	SSW/12.5%
3	宜蘭海域(W)	720(100%)	3.2	.4/S	11.2/SSE	64.3	29.4	6.3	.0	18.2	28.2	12.8	40.8	W /16.5%
4	花蓮海域(W)	720(100%)	2.4	.3/W	7.1/ENE	79.3	20.7	.0	.0	23.6	20.7	30.1	25.6	WSW/14.0%
5	臺東海域(Y)	656(91%)	2.8	.1/N	8.9/N	69.2	30.5	.3	.0	25.8	26.1	22.0	26.2	SE / 7.8%
6	屏東海域(Y)	656(91%)	3.4	.5/SW	9.9/WNW	53.5	44.7	1.8	.0	19.5	30.5	22.4	27.6	WNW/10.8%
7	高雄海域(W)													
8	嘉南海域(X)	634(88%)	4.2	2.1/S	18.6/SW	36.0	59.5	4.3	.3	7.7	44.8	35.6	11.8	ESE/18.1%
9	中雲海域(W)	720(100%)	6.7	4.1/SSW	15.0/NNE	15.4	47.6	36.3	.7	17.5	14.0	65.1	3.3	SSW/30.8%
10	澎湖海域(Y)	634(88%)	4.7	1.9/S	10.4/NNE	25.4	68.0	6.6	.0	22.2	16.4	60.3	1.1	SSW/30.3%
11	金門海域(Y)	545(76%)	5.1	1.6/S	10.0/ENE	17.8	75.2	7.0	.0	32.3	5.7	60.9	1.1	SSW/29.2%
12	馬祖海域(Y)	655(91%)	5.1	.2/NW	12.3/W	28.9	57.6	13.6	.0	47.9	3.7	41.8	6.6	NNE/22.7%

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表2.1b 2019年 6月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	4.7	1.7/WSW	15.3/SW	44.7	35.8	18.9	.6	21.3	22.5	46.1	10.1	SW /15.7%
2	北端海域(W)	720(100%)	2.3	.3/ENE	7.4/SE	79.0	21.0	.0	.0	27.6	24.0	30.4	17.9	SSW/12.5%
3	宜蘭海域(W)	720(100%)	3.2	.4/S	11.2/SSE	64.3	29.4	6.3	.0	18.2	28.2	12.6	41.0	W /16.5%
4	花蓮海域(W)	720(100%)	2.4	.3/W	7.1/ENE	79.3	20.7	.0	.0	23.6	20.7	30.1	25.6	WSW/14.3%
5	臺東海域(Y)	720(100%)	2.7	.2/NNE	8.9/N	71.9	27.8	.3	.0	27.8	24.0	20.0	28.2	NW / 8.9%
6	屏東海域(Y)	720(100%)	3.3	.4/SW	9.9/WNW	54.6	43.6	1.8	.0	21.4	28.1	21.3	29.3	WNW/11.5%
7	高雄海域(W)	720(100%)	3.6	.8/S	12.6/WNW	53.2	41.9	4.9	.0	25.3	27.5	26.3	21.0	S /11.8%
8	嘉南海域(X)	720(100%)	4.1	2.1/S	18.6/SW	39.9	55.7	4.2	.3	7.5	47.5	33.6	11.4	ESE/18.2%
9	中雲海域(W)	720(100%)	6.7	4.1/SSW	15.0/NNE	15.4	47.9	36.0	.7	17.5	14.0	65.0	3.5	SSW/31.0%
10	澎湖海域(Y)	720(100%)	4.7	2.1/S	10.4/NNE	25.3	68.6	6.1	.0	20.0	15.0	63.3	1.7	SSW/33.3%
11	金門海域(Y)	720(100%)	5.1	1.6/S	11.6/E	19.2	72.8	8.1	.0	32.2	5.3	60.7	1.8	SSW/24.9%
12	馬祖海域(Y)	720(100%)	5.3	.4/N	12.3/W	26.3	58.5	15.3	.0	49.3	3.3	40.1	7.2	NNE/24.0%

DISW4A.BAT 日期: 2019年06月 港灣技術研究中心

表2.1a 2019年 7月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	5.5	2.5/SW	16.1/WSW	34.4	38.7	25.4	1.5	12.5	23.5	52.6	11.4	SSW/16.0%
2	北端海域(W)	744(100%)	2.6	.9/SE	10.0/SSE	72.2	26.9	.9	.0	21.0	30.9	35.9	12.2	SSW/14.0%
3	宜蘭海域(W)	744(100%)	4.1	1.7/S	13.1/SSE	50.0	36.7	13.3	.0	12.1	42.1	8.9	37.0	SSE/20.0%
4	花蓮海域(W)	744(100%)	3.0	.7/SSW	13.4/SSW	64.8	32.8	2.4	.0	19.5	23.7	39.9	16.9	WSW/17.1%
5	臺東海域(Y)	636(86%)	3.7	.4/E	14.4/SE	62.6	26.3	10.7	.5	28.5	28.9	19.2	23.4	E / 9.6%
6	屏東海域(Y)	627(84%)	4.4	1.1/SSW	12.7/SSW	38.1	51.8	10.0	.0	22.6	27.0	27.1	23.3	WSW/10.2%
7	高雄海域(W)													
8	嘉南海域(X)	633(85%)	4.9	1.8/SSE	13.9/SSW	24.5	66.5	8.7	.3	8.7	44.4	31.9	15.0	ESE/19.6%
9	中雲海域(W)	744(100%)	7.1	4.7/SSW	19.5/SW	17.6	35.3	44.6	2.4	14.5	10.1	68.1	7.3	SSW/37.4%
10	澎湖海域(Y)	631(85%)	4.7	2.1/S	14.5/NNE	34.4	54.7	10.3	.6	18.2	18.7	54.2	8.9	S /29.0%
11	金門海域(Y)	483(65%)	5.0	3.3/SSW	10.6/SSE	26.5	61.3	12.2	.0	17.0	12.6	66.9	3.5	SSW/38.1%
12	馬祖海域(Y)	642(86%)	6.8	3.7/SSW	12.7/SW	15.3	40.2	44.5	.0	25.5	7.2	64.2	3.1	SW /33.5%

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表2.1b 2019年 7月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	5.5	2.5/SW	16.1/WSW	34.4	38.7	25.4	1.5	12.5	23.5	52.6	11.4	SSW/15.7%
2	北端海域(W)	744(100%)	2.6	.9/SE	10.0/SSE	72.3	26.7	.9	.0	21.0	30.8	35.9	12.4	SSW/14.0%
3	宜蘭海域(W)	744(100%)	4.1	1.7/S	13.1/SSE	50.0	36.7	13.3	.0	12.1	42.1	8.7	37.1	SSE/20.0%
4	花蓮海域(W)	744(100%)	3.0	.7/SSW	13.4/SSW	64.8	32.8	2.4	.0	19.5	23.7	39.9	16.9	WSW/16.8%
5	臺東海域(Y)	744(100%)	3.5	.5/ENE	14.4/SE	64.1	25.9	9.5	.4	32.1	25.9	16.5	25.4	NE / 8.7%
6	屏東海域(Y)	744(100%)	4.2	1.1/SSW	12.7/SSW	41.7	49.5	8.9	.0	22.6	25.7	28.9	22.8	WSW/ 9.8%
7	高雄海域(W)	744(100%)	4.2	.4/SSW	17.1/SSW	46.5	41.9	11.4	.1	31.6	22.2	24.1	22.2	NE /14.0%
8	嘉南海域(X)	744(100%)	4.8	1.8/SSE	13.9/SSW	25.1	66.5	8.1	.3	8.9	48.0	29.3	13.8	ESE/23.8%
9	中雲海域(W)	744(100%)	7.1	4.7/SSW	19.5/SW	17.6	35.3	44.6	2.4	14.5	9.9	68.3	7.3	SSW/37.2%
10	澎湖海域(Y)	744(100%)	4.6	2.3/SSW	14.5/NNE	33.3	57.4	8.7	.5	15.5	17.5	59.4	7.7	SSW/29.4%
11	金門海域(Y)	744(100%)	5.4	3.8/SSW	11.2/SW	22.8	59.0	18.1	.0	13.4	10.5	72.6	3.5	SW /29.0%
12	馬祖海域(Y)	744(100%)	6.8	4.1/SSW	12.7/SW	16.1	38.3	45.6	.0	23.7	6.9	66.1	3.4	SW /34.4%

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表2.1a 2019年 8月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	6.4	.7/SSE	18.6/E	25.5	41.4	28.4	4.7	31.7	26.3	35.8	6.2	SW /19.0%
2	北端海域(W)	740(100%)	3.4	1.1/SE	13.5/NNW	57.4	37.4	5.1	.0	26.8	36.9	25.3	11.1	SE /12.8%
3	宜蘭海域(W)	744(100%)	4.6	1.7/S	18.9/SSE	42.6	41.4	14.4	1.6	9.9	42.2	7.8	40.1	SSE/23.3%
4	花蓮海域(W)	744(100%)	2.8	.2/SW	9.8/S	69.4	30.1	.5	.0	19.5	23.4	41.3	15.9	WSW/17.7%
5	臺東海域(Y)	690(93%)	3.8	.7/NNW	19.2/NNW	54.3	35.9	8.8	.9	23.9	22.2	24.9	29.0	NNW/ 9.9%
6	屏東海域(Y)													
7	高雄海域(W)													
8	嘉南海域(X)	675(91%)	5.3	1.2/SSW	20.7/SSE	28.6	52.9	16.1	2.4	12.0	35.3	28.9	23.9	ESE/15.7%
9	中雲海域(W)	744(100%)	6.1	1.4/S	20.6/SSW	31.9	39.7	19.1	9.4	27.7	19.8	39.9	12.6	SSW/21.6%
10	澎湖海域(Y)	682(92%)	5.4	.3/N	18.9/ESE	30.5	49.3	18.0	2.2	35.3	15.5	32.1	17.0	NNE/17.4%
11	金門海域(Y)	559(75%)	5.6	1.6/E	16.2/NNE	21.6	62.1	14.3	2.0	51.9	11.4	32.7	3.9	ENE/17.9%
12	馬祖海域(Y)	705(95%)	6.6	2.0/NE	14.9/NNW	10.4	62.3	26.5	.9	58.4	9.8	27.4	4.4	NE /23.8%

DISW4A.BAT 日期: 2019年08月 港灣技術研究中心

表2.1b 2019年 8月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	6.4	.7/SSE	18.6/E	25.5	41.4	28.4	4.7	31.7	26.2	35.9	6.2	SW /19.0%
2	北端海域(W)	744(100%)	3.4	1.1/SE	13.5/NNW	57.3	37.6	5.1	.0	27.3	36.7	25.1	10.9	SE /12.8%
3	宜蘭海域(W)	744(100%)	4.6	1.7/S	18.9/SSE	42.6	41.4	14.4	1.6	9.7	42.2	7.9	40.2	SSE/23.3%
4	花蓮海域(W)	744(100%)	2.8	.2/SW	9.8/S	69.4	30.1	.5	.0	19.5	23.4	41.3	15.9	WSW/17.7%
5	臺東海域(Y)	744(100%)	3.7	.7/NNW	19.2/NNW	57.1	33.5	8.5	.9	23.8	21.6	23.4	31.2	NNW/ 9.7%
6	屏東海域(Y)	744(100%)	3.5	.6/WSW	11.1/WSW	55.6	39.8	4.6	.0	30.8	23.5	26.2	19.5	WSW/ 9.5%
7	高雄海域(W)	744(100%)	4.7	.8/W	18.9/NNW	38.0	48.7	12.4	.9	26.2	19.1	25.9	28.8	NW /11.8%
8	嘉南海域(X)	744(100%)	5.4	1.2/SSW	22.5/SSE	29.4	51.5	16.1	3.0	13.2	36.3	27.6	23.0	ESE/15.7%
9	中雲海域(W)	744(100%)	6.1	1.4/S	20.6/SSW	31.9	39.8	19.0	9.4	27.4	19.4	41.5	11.7	SSW/21.6%
10	澎湖海域(Y)	744(100%)	5.5	.2/NNW	18.9/ESE	30.5	49.5	17.7	2.3	33.5	14.4	35.1	17.1	NNE/16.3%
11	金門海域(Y)	744(100%)	5.4	1.0/E	16.2/NNE	23.0	62.2	13.2	1.6	48.4	9.7	38.3	3.6	ENE/16.7%
12	馬祖海域(Y)	744(100%)	6.6	1.6/NE	14.9/NNW	9.9	63.3	25.9	.8	55.4	9.3	31.2	4.2	NE /22.6%

DISW4A.BAT 日期: 2019年08月 港灣技術研究中心

表2.1a 2019年 9月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	719(100%)	6.8	4.7/NE	20.6/NNE	19.9	43.1	34.5	2.5	62.7	20.6	7.5	9.2	NE /22.8%
2	北端海域(W)	720(100%)	4.5	2.5/NNE	16.8/NW	40.0	47.2	12.2	.6	50.4	19.3	13.3	16.9	N /16.5%
3	宜蘭海域(W)	545(76%)	5.1	2.4/NW	18.5/WNW	25.3	59.3	14.7	.7	12.1	13.6	11.2	63.1	NW /25.9%
4	花蓮海域(W)	720(100%)	3.5	.9/NNE	14.2/NNE	57.8	36.0	6.1	.1	34.6	12.9	30.8	21.7	W /14.4%
5	臺東海域(Y)	563(78%)	4.3	.9/N	12.7/SE	39.4	49.6	11.0	.0	29.0	17.6	19.9	33.6	NW /10.1%
6	屏東海域(Y)	125(17%)	3.0	1.5/NW	14.6/NW	65.6	32.0	1.6	.8	20.0	14.4	16.8	48.8	NW /20.0%
7	高雄海域(W)													
8	嘉南海域(X)	688(96%)	4.8	2.5/N	17.4/N	35.5	51.2	11.3	2.0	34.3	16.3	15.7	33.7	NNE/17.9%
9	中雲海域(W)	720(100%)	9.2	8.1/NNE	27.0/NNE	23.1	25.6	23.2	28.2	72.5	6.1	11.9	9.4	NNE/46.0%
10	澎湖海域(Y)	549(76%)	6.7	6.0/NNE	17.9/NNE	35.7	19.3	36.1	8.9	70.5	3.3	11.5	14.8	NNE/50.1%
11	金門海域(Y)	461(64%)	5.9	4.8/NE	12.2/NNE	20.0	56.8	23.2	.0	73.1	11.5	4.6	10.8	NNE/24.9%
12	馬祖海域(Y)	567(79%)	7.4	6.1/NE	15.0/N	6.7	53.3	39.2	.9	80.6	6.9	3.4	9.2	NE /30.0%

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表2.1b 2019年 9月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	6.8	4.7/NE	20.6/NNE	20.0	43.1	34.4	2.5	62.8	20.6	7.5	9.2	NE /22.8%
2	北端海域(W)	720(100%)	4.5	2.5/NNE	16.8/NW	40.0	47.2	12.2	.6	50.6	19.3	13.3	16.8	N /16.5%
3	宜蘭海域(W)	720(100%)	4.7	1.8/WNW	18.5/WNW	32.2	55.7	11.5	.6	10.0	19.0	20.0	51.0	NW /20.3%
4	花蓮海域(W)	720(100%)	3.5	.9/NNE	14.2/NNE	57.8	36.0	6.1	.1	34.6	12.9	30.8	21.7	W /14.3%
5	臺東海域(Y)	720(100%)	4.3	1.5/N	12.7/SE	37.9	53.3	8.8	.0	39.4	13.9	15.7	31.0	N /15.3%
6	屏東海域(Y)	720(100%)	3.5	1.2/WNW	18.1/NNW	55.8	39.6	4.0	.6	27.1	11.8	31.5	29.6	NNE/12.2%
7	高雄海域(W)	720(100%)	3.9	1.8/NW	18.1/NNW	48.6	44.0	5.1	2.2	28.2	7.2	28.5	36.1	NNE/11.0%
8	嘉南海域(X)	720(100%)	4.7	2.4/N	17.4/N	36.1	51.0	11.0	1.9	34.6	17.5	15.1	32.8	NNE/17.5%
9	中雲海域(W)	720(100%)	9.2	8.1/NNE	27.0/NNE	23.1	25.6	23.2	28.2	72.2	6.0	12.4	9.4	NNE/45.7%
10	澎湖海域(Y)	720(100%)	7.0	6.4/NNE	17.9/NNE	29.3	24.4	38.6	7.6	75.6	2.5	9.0	12.9	NNE/45.6%
11	金門海域(Y)	720(100%)	6.1	5.1/NE	12.2/NNE	17.2	57.2	25.6	.0	75.4	12.8	4.2	7.6	NE /26.4%
12	馬祖海域(Y)	720(100%)	7.5	6.5/NE	15.0/N	5.3	51.5	42.4	.8	84.7	5.4	2.6	7.2	NE /37.5%

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表2.1a 2019年10月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值(m/s)	平均風風速/風向(m/s)/(來向)	最疾風風速/風向(m/s)/(來向)	輕風<3.3(%)	和風~7.9(%)	強風~13.8(%)	疾風>13.8(%)	風向N~E(%)	風向E~S(%)	風向S~W(%)	風向W~N(%)	主要風向方向/百分比
1	北苗海域(X)	683(92%)	7.7	6.7/NE	16.5/NW	10.2	41.0	46.6	2.2	87.0	5.4	4.8	2.8	NE /52.0%
2	北端海域(W)	744(100%)	4.4	3.3/NNE	11.4/N	38.7	52.0	9.3	.0	65.2	10.5	11.3	13.0	NNE/25.4%
3	宜蘭海域(W)	744(100%)	3.8	1.8/NW	11.3/S	41.9	55.4	2.7	.0	14.9	11.6	14.5	59.0	W /24.5%
4	花蓮海域(W)	744(100%)	3.7	1.8/NE	12.0/ENE	52.7	40.7	6.6	.0	44.8	7.7	16.9	30.6	ENE/22.6%
5	臺東海域(Y)	699(94%)	5.1	1.2/NNW	14.3/N	22.6	64.1	12.7	.6	24.5	19.0	23.0	33.5	N /10.7%
6	屏東海域(Y)	702(94%)	3.0	1.4/WNW	14.2/NW	63.8	34.3	1.7	.1	15.7	14.7	25.2	44.4	W /13.0%
7	高雄海域(W)													
8	嘉南海域(X)	590(79%)	4.8	3.3/NNW	14.9/N	30.3	58.3	11.0	.3	35.9	6.6	13.4	44.1	N /19.7%
9	中雲海域(W)	744(100%)	11.2	10.4/NNE	23.1/NNE	10.9	19.5	30.9	38.7	86.3	1.7	6.6	5.4	NNE/56.6%
10	澎湖海域(Y)	679(91%)	9.6	8.7/NNE	17.3/NNE	6.5	24.0	59.2	10.3	86.3	1.6	8.5	3.5	NNE/75.6%
11	金門海域(Y)	581(78%)	6.6	5.7/NE	12.8/NE	14.1	52.2	33.7	.0	85.0	8.8	4.3	1.9	NE /30.8%
12	馬祖海域(Y)	702(94%)	7.7	6.6/NE	16.6/NNW	10.7	36.2	51.7	1.4	84.8	9.0	4.7	1.6	NE /40.7%

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表2.1b 2019年10月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	744(100%)	7.5	6.4/NE	16.5/NW	11.7	42.1	44.2	2.0	84.4	7.9	4.7	3.0	NE /48.3%
2	北端海域(W)	744(100%)	4.4	3.3/NNE	11.4/N	38.8	51.9	9.3	.0	65.3	10.5	11.3	12.9	NNE/25.5%
3	宜蘭海域(W)	744(100%)	3.8	1.8/NW	11.3/S	42.3	55.0	2.7	.0	14.8	11.6	14.2	59.4	W /24.5%
4	花蓮海域(W)	744(100%)	3.7	1.8/NE	12.0/ENE	53.0	40.5	6.6	.0	44.8	7.5	17.1	30.6	ENE/22.4%
5	臺東海域(Y)	744(100%)	5.1	1.4/N	14.3/N	22.3	64.7	12.5	.5	28.5	18.0	21.6	31.9	N /12.2%
6	屏東海域(Y)	744(100%)	2.9	1.4/WNW	14.2/NW	66.0	32.3	1.6	.1	16.9	13.8	24.2	45.0	NW /13.2%
7	高雄海域(W)	744(100%)	3.7	2.3/NW	13.9/NNW	49.7	45.8	4.3	.1	21.1	3.0	24.3	51.6	NW /16.7%
8	嘉南海域(X)	744(100%)	4.7	3.2/N	14.9/N	30.9	59.5	9.3	.3	43.1	6.9	11.8	38.2	NNE/23.7%
9	中雲海域(W)	744(100%)	11.2	10.4/NNE	23.1/NNE	10.9	19.6	30.8	38.7	86.2	1.7	7.0	5.1	NNE/56.6%
10	澎湖海域(Y)	744(100%)	9.7	8.8/NNE	17.3/NNE	6.6	22.8	60.5	10.1	86.8	1.5	8.2	3.5	NNE/73.3%
11	金門海域(Y)	744(100%)	6.7	5.9/NE	13.1/NE	13.8	51.3	34.8	.0	85.6	9.0	3.5	1.9	NE /33.7%
12	馬祖海域(Y)	744(100%)	7.8	6.7/NE	16.6/NNW	10.2	34.8	53.6	1.3	85.6	8.5	4.4	1.5	NE /41.4%

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表2.1a 2019年11月12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	719(100%)	9.4	8.7/NE	18.8/NNE	7.6	22.8	58.3	11.3	86.5	11.4	.3	1.8	NE /50.5%
2	北端海域(W)	720(100%)	5.2	4.3/NE	13.3/N	32.8	42.8	24.4	.0	72.2	12.1	6.4	9.3	NNE/28.1%
3	宜蘭海域(W)	720(100%)	3.7	2.4/NW	10.3/E	44.4	53.5	2.1	.0	12.8	5.7	19.4	62.1	WNW/25.1%
4	花蓮海域(W)	720(100%)	4.7	3.0/NE	12.1/ENE	37.4	49.9	12.8	.0	58.1	3.2	13.6	25.1	NE /30.0%
5	臺東海域(Y)	714(99%)	6.4	1.4/NNE	15.6/NNE	7.6	69.0	22.0	1.4	30.0	20.3	21.3	28.4	N /11.2%
6	屏東海域(Y)	720(100%)	3.0	2.1/NW	7.3/WNW	61.8	38.2	.0	.0	25.8	2.4	12.4	59.4	NW /17.8%
7	高雄海域(W)													
8	嘉南海域(X)	413(57%)	5.9	5.2/N	12.8/N	15.0	61.7	23.2	.0	48.7	1.5	3.1	46.7	NNE/30.5%
9	中雲海域(W)	720(100%)	13.9	13.7/NNE	28.1/NNE	10.1	13.2	20.4	56.3	93.3	1.9	1.9	2.8	NNE/74.9%
10	澎湖海域(Y)	709(99%)	12.2	12.2/NNE	19.2/NNE	.3	16.6	41.5	41.6	96.5	.0	.0	3.5	NNE/88.3%
11	金門海域(Y)	563(78%)	7.6	7.3/NE	14.7/NE	11.4	38.0	49.9	.7	93.4	2.7	.5	3.4	NE /41.0%
12	馬祖海域(Y)	720(100%)	9.9	9.6/NNE	15.3/NE	3.5	21.0	70.0	5.6	96.1	1.5	.0	2.4	NNE/53.9%

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表2.1b 2019年11月12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	720(100%)	9.4	8.7/NE	18.8/NNE	7.6	22.8	58.3	11.3	86.5	11.4	.3	1.8	NE /50.6%
2	北端海域(W)	720(100%)	5.2	4.3/NE	13.3/N	32.8	42.8	24.4	.0	71.8	12.1	6.8	9.3	NNE/28.1%
3	宜蘭海域(W)	720(100%)	3.7	2.4/NW	10.3/E	44.6	53.3	2.1	.0	12.8	5.7	19.2	62.4	WNW/25.0%
4	花蓮海域(W)	720(100%)	4.7	3.0/NE	12.1/ENE	37.4	49.9	12.8	.0	58.1	3.2	13.6	25.1	NE /30.0%
5	臺東海域(Y)	720(100%)	6.4	1.4/NNE	15.6/NNE	7.6	68.9	22.1	1.4	30.0	20.4	21.4	28.2	N /11.1%
6	屏東海域(Y)	720(100%)	3.0	2.1/NW	7.3/WNW	61.9	38.1	.0	.0	25.8	2.4	12.4	59.4	NW /17.8%
7	高雄海域(W)	720(100%)	4.2	3.6/NNW	11.9/NNW	35.7	59.2	5.1	.0	36.1	.6	5.7	57.6	N /31.3%
8	嘉南海域(X)	720(100%)	5.9	5.3/N	12.8/N	15.4	64.0	20.6	.0	64.4	.8	1.8	32.9	N /37.4%
9	中雲海域(W)	720(100%)	13.9	13.7/NNE	28.1/NNE	10.1	13.2	20.4	56.3	93.1	1.9	2.2	2.8	NNE/74.9%
10	澎湖海域(Y)	720(100%)	12.3	12.2/NNE	19.2/NNE	.3	16.4	41.7	41.7	96.5	.0	.0	3.5	NNE/88.1%
11	金門海域(Y)	720(100%)	7.6	7.3/NE	14.7/NE	11.0	38.6	49.7	.7	93.8	3.1	.4	2.8	NE /45.1%
12	馬祖海域(Y)	720(100%)	9.9	9.6/NNE	15.3/NE	3.5	21.0	70.0	5.6	96.1	1.5	.0	2.4	NNE/53.9%

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表2.1a 2019年冬季12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2160(100%)	8.1	7.1/NE	18.8/NE	18.1	26.7	47.4	7.8	76.0	10.2	6.3	7.5	NE /41.7%
2	北端海域(W)	2160(100%)	4.5	3.4/NNE	12.9/N	40.4	47.5	12.1	.0	57.6	12.5	9.1	20.8	NNE/25.8%
3	宜蘭海域(W)	851(39%)	3.9	1.7/NW	11.7/NNE	42.7	53.3	4.0	.0	16.0	13.0	12.6	58.4	WNW/19.4%
4	花蓮海域(W)	2160(100%)	4.0	1.9/NE	13.5/ENE	48.0	44.9	7.1	.0	46.7	6.9	17.0	29.4	NE /21.2%
5	臺東海域(Y)	1971(91%)	5.2	.7/NE	13.9/SSE	19.8	66.6	13.5	.1	30.3	25.1	20.9	23.7	NE / 9.1%
6	屏東海域(Y)	2058(95%)	3.3	2.0/NNW	11.0/SE	52.6	45.3	2.1	.0	25.6	8.5	5.2	60.7	NW /21.5%
7	高雄海域(W)													
8	嘉南海域(X)	1262(58%)	6.7	6.3/N	13.9/NNE	7.7	62.8	29.5	.1	72.1	.4	.6	26.9	NNE/43.4%
9	中雲海域(W)	2160(100%)	12.2	11.9/NNE	26.2/NNE	10.2	15.8	30.5	43.5	90.0	3.1	2.1	4.9	NNE/67.0%
10	澎湖海域(Y)	2011(93%)	9.6	9.1/NNE	17.5/N	9.3	22.9	51.4	16.4	87.4	2.4	1.6	8.6	NNE/56.4%
11	金門海域(Y)	1912(89%)	6.7	6.3/NE	14.5/NE	20.0	38.5	41.1	.4	86.2	5.8	3.4	4.6	NE /49.2%
12	馬祖海域(Y)	1581(73%)	8.8	8.2/NNE	16.6/NNE	10.0	25.0	57.5	7.5	86.2	1.7	5.6	6.5	NNE/49.6%

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表2.1b 2019年冬季12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2160(100%)	8.1	7.1/NE	18.8/NE	18.1	26.7	47.4	7.8	76.0	10.2	6.3	7.5	NE /41.6%
2	北端海域(W)	2160(100%)	4.5	3.4/NNE	12.9/N	40.4	47.5	12.1	.0	57.6	12.5	9.1	20.8	NNE/25.8%
3	宜蘭海域(W)	2160(100%)	3.7	1.7/NW	13.8/E	47.9	49.2	2.9	.0	22.2	7.1	20.5	50.2	W /21.7%
4	花蓮海域(W)	2160(100%)	4.0	1.9/NE	13.5/ENE	48.1	44.8	7.1	.0	46.6	6.9	17.0	29.5	NE /21.2%
5	臺東海域(Y)	2160(100%)	5.2	1.0/NE	13.9/SSE	18.8	67.8	13.3	.1	32.3	23.5	19.5	24.7	NNE/ 9.3%
6	屏東海域(Y)	2160(100%)	3.3	2.0/NNW	11.0/SE	53.3	44.7	2.0	.0	26.7	8.0	5.0	60.2	NW /20.9%
7	高雄海域(W)	2160(100%)	4.8	4.1/NNW	14.1/NNW	24.1	66.7	9.2	.1	34.1	1.3	3.5	61.1	N /41.9%
8	嘉南海域(X)	2160(100%)	7.0	6.5/N	15.1/N	8.1	55.2	35.8	.9	66.7	1.6	2.9	28.8	N /43.1%
9	中雲海域(W)	2160(100%)	12.2	11.9/NNE	26.2/NNE	10.2	15.8	30.5	43.5	90.0	3.0	2.2	4.8	NNE/67.0%
10	澎湖海域(Y)	2160(100%)	9.6	9.1/NNE	18.3/NE	8.8	22.4	52.0	16.8	88.1	2.3	1.5	8.1	NNE/55.8%
11	金門海域(Y)	2160(100%)	6.7	6.2/NE	16.8/E	19.8	39.5	40.0	.6	86.6	5.6	3.3	4.5	NE /46.5%
12	馬祖海域(Y)	2160(100%)	8.7	8.1/NNE	16.6/NNE	7.9	30.2	55.7	6.1	89.0	1.3	4.4	5.3	NNE/43.9%

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表2.1a 2019年春季12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2199(100%)	6.0	2.7/NE	15.3/N	29.7	38.2	31.2	.9	45.7	22.7	18.8	12.8	NE /21.1%
2	北端海域(W)	2208(100%)	3.2	1.4/NE	10.9/NNE	58.3	38.4	3.3	.0	38.8	23.0	17.2	21.1	NNE/12.6%
3	宜蘭海域(W)	1947(88%)	3.4	.6/W	11.6/NNE	58.9	37.3	3.9	.0	16.8	19.3	20.2	43.7	W /20.1%
4	花蓮海域(W)	2208(100%)	3.3	.8/N	10.5/S	59.5	38.1	2.4	.0	33.0	11.1	23.5	32.4	W /14.4%
5	臺東海域(Y)	2187(99%)	4.1	.6/ENE	13.0/N	40.8	51.3	7.9	.0	29.9	27.8	21.4	20.9	ENE/ 8.9%
6	屏東海域(Y)	2202(100%)	3.4	1.2/NW	12.5/ESE	53.5	43.5	3.0	.0	21.8	17.7	11.9	48.6	NW /17.9%
7	高雄海域(W)													
8	嘉南海域(X)	2199(100%)	4.6	2.4/N	21.4/WNW	33.1	57.2	9.7	.1	42.6	13.7	16.8	26.8	NNE/24.2%
9	中雲海域(W)	2208(100%)	7.6	4.1/NNE	21.8/NNE	20.7	34.6	32.2	12.5	60.6	4.1	25.7	9.6	NNE/29.2%
10	澎湖海域(Y)	2147(97%)	6.7	4.6/NNE	15.0/NNE	18.7	46.7	32.9	1.7	63.3	6.9	17.8	12.0	NNE/39.1%
11	金門海域(Y)	1963(89%)	4.9	3.3/NE	14.4/ENE	34.9	47.3	17.7	.1	65.8	8.7	18.0	7.5	NE /29.2%
12	馬祖海域(Y)	2111(96%)	5.6	4.3/NNE	13.7/NE	28.0	45.2	26.8	.0	73.6	3.8	13.3	9.3	NNE/38.0%

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表2.1b 2019年春季12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2208(100%)	5.9	2.7/NE	15.3/N	30.0	38.0	31.1	.9	45.6	22.6	18.8	13.0	NE /20.9%
2	北端海域(W)	2208(100%)	3.2	1.4/NE	10.9/NNE	58.3	38.4	3.3	.0	38.8	22.9	17.3	21.1	NNE/12.6%
3	宜蘭海域(W)	2208(100%)	3.4	.7/WNW	11.6/NNE	58.4	37.7	3.9	.0	17.6	17.3	22.0	43.2	W /20.1%
4	花蓮海域(W)	2208(100%)	3.3	.8/N	10.5/S	59.5	38.1	2.4	.0	33.1	11.1	23.5	32.3	W /14.3%
5	臺東海域(Y)	2208(100%)	4.1	.6/ENE	13.0/N	41.2	51.0	7.8	.0	29.9	27.6	21.4	21.0	ENE/ 8.9%
6	屏東海域(Y)	2208(100%)	3.4	1.2/NNW	12.5/ESE	53.6	43.4	3.0	.0	21.8	17.4	12.4	48.4	NW /17.8%
7	高雄海域(W)	2208(100%)	4.2	2.6/NNW	13.2/NNW	42.2	50.8	7.1	.0	29.7	6.7	12.4	51.3	NNW/21.2%
8	嘉南海域(X)	2208(100%)	4.6	2.4/N	21.4/WNW	33.3	56.9	9.6	.1	42.4	13.7	16.7	27.2	NNE/24.1%
9	中雲海域(W)	2208(100%)	7.6	4.1/NNE	21.8/NNE	20.7	34.6	32.2	12.5	60.5	3.9	26.3	9.3	NNE/29.1%
10	澎湖海域(Y)	2208(100%)	6.6	4.5/NNE	15.0/NNE	19.1	47.0	32.2	1.7	62.4	7.4	18.3	11.8	NNE/38.6%
11	金門海域(Y)	2208(100%)	4.9	3.3/NE	14.4/ENE	36.4	46.2	17.4	.0	65.3	9.1	18.2	7.3	NE /28.0%
12	馬祖海域(Y)	2208(100%)	5.6	4.3/NNE	13.7/NE	27.9	46.2	26.0	.0	73.1	3.9	13.6	9.4	NNE/37.5%

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表2.1a 2019年夏季12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2208(100%)	5.5	1.5/SW	18.6/E	34.8	38.7	24.3	2.3	21.9	24.1	44.8	9.2	SW /16.3%
2	北端海域(W)	2204(100%)	2.8	.7/ESE	13.5/NNW	69.5	28.5	2.0	.0	25.1	30.7	30.5	13.7	SSW/11.2%
3	宜蘭海域(W)	2208(100%)	4.0	1.3/S	18.9/SSE	52.2	35.9	11.4	.5	13.4	37.6	9.8	39.3	SSE/18.2%
4	花蓮海域(W)	2208(100%)	2.8	.4/SW	13.4/SSW	71.1	27.9	1.0	.0	20.8	22.6	37.2	19.4	WSW/16.3%
5	臺東海域(Y)	1982(90%)	3.4	.3/NNE	19.2/NNW	61.9	31.0	6.6	.5	26.0	25.6	22.1	26.3	SE / 8.0%
6	屏東海域(Y)	1283(58%)	3.9	.8/SSW	12.7/SSW	46.0	48.2	5.8	.0	21.0	28.8	24.7	25.5	SE / 9.5%
7	高雄海域(W)													
8	嘉南海域(X)	1942(88%)	4.8	1.6/S	20.7/SSE	29.7	59.5	9.8	1.0	9.5	41.3	32.1	17.0	ESE/17.8%
9	中雲海域(W)	2208(100%)	6.6	3.4/SSW	20.6/SSW	21.7	40.8	33.3	4.2	19.9	14.6	57.7	7.8	SSW/29.9%
10	澎湖海域(Y)	1947(88%)	5.0	1.2/S	18.9/ESE	30.1	57.1	11.8	1.0	25.5	16.8	48.4	9.2	SSW/22.7%
11	金門海域(Y)	1587(72%)	5.2	1.5/SSE	16.2/NNE	21.8	66.4	11.2	.7	34.5	9.8	52.8	2.8	SSW/25.3%
12	馬祖海域(Y)	2002(91%)	6.2	.5/SSW	14.9/NNW	18.0	53.6	28.1	.3	44.5	6.9	43.9	4.7	SW /22.7%

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表2.1b 2019年夏季12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2208(100%)	5.5	1.5/SW	18.6/E	34.8	38.7	24.3	2.3	21.8	24.1	44.8	9.2	SW /16.4%
2	北端海域(W)	2208(100%)	2.8	.7/ESE	13.5/NNW	69.4	28.5	2.0	.0	25.3	30.6	30.5	13.7	SSW/11.1%
3	宜蘭海域(W)	2208(100%)	4.0	1.3/S	18.9/SSE	52.2	35.9	11.4	.5	13.3	37.6	9.7	39.4	SSE/18.2%
4	花蓮海域(W)	2208(100%)	2.8	.4/SW	13.4/SSW	71.1	27.9	1.0	.0	20.8	22.6	37.2	19.4	WSW/16.3%
5	臺東海域(Y)	2208(100%)	3.3	.4/NNE	19.2/NNW	64.3	29.1	6.2	.5	27.9	23.9	20.0	28.3	NW / 8.2%
6	屏東海域(Y)	2208(100%)	3.7	.7/SW	12.7/SSW	50.6	44.3	5.1	.0	25.0	25.7	25.5	23.8	WSW/ 8.5%
7	高雄海域(W)	2208(100%)	4.1	.5/SW	18.9/NNW	45.8	44.2	9.6	.4	27.7	22.9	25.4	24.0	NE /11.7%
8	嘉南海域(X)	2208(100%)	4.8	1.6/S	22.5/SSE	31.4	57.9	9.5	1.2	9.9	43.9	30.1	16.1	ESE/19.2%
9	中雲海域(W)	2208(100%)	6.6	3.4/SSW	20.6/SSW	21.7	40.9	33.2	4.2	19.8	14.4	58.2	7.5	SSW/29.9%
10	澎湖海域(Y)	2208(100%)	4.9	1.4/SSW	18.9/ESE	29.8	58.4	10.9	1.0	23.0	15.6	52.5	8.9	SSW/25.7%
11	金門海域(Y)	2208(100%)	5.3	1.6/SSW	16.2/NNE	21.7	64.6	13.2	.5	31.3	8.5	57.2	3.0	SW /21.7%
12	馬祖海域(Y)	2208(100%)	6.3	.8/SSW	14.9/NNW	17.3	53.3	29.1	.3	42.7	6.5	45.9	4.9	SW /23.6%

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表2.1a 2019年秋季12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2121(97%)	8.0	6.7/NE	20.6/NNE	12.6	35.5	46.4	5.4	78.6	12.6	4.2	4.6	NE /41.6%
2	北端海域(W)	2184(100%)	4.7	3.3/NNE	16.8/NW	37.2	47.4	15.2	.2	62.6	13.9	10.3	13.1	NNE/23.1%
3	宜蘭海域(W)	2009(92%)	4.1	2.1/NW	18.5/WNW	38.3	55.7	5.7	.2	13.4	10.0	15.4	61.2	W /22.2%
4	花蓮海域(W)	2184(100%)	4.0	1.9/NE	14.2/NNE	49.3	42.2	8.5	.0	45.8	7.9	20.4	25.9	NE /18.7%
5	臺東海域(Y)	1976(91%)	5.3	1.2/N	15.6/NNE	22.0	61.7	15.6	.7	27.7	19.1	21.5	31.7	N /10.3%
6	屏東海域(Y)	1547(71%)	3.0	1.7/NW	14.6/NW	63.0	35.9	.9	.1	20.7	8.9	18.6	51.8	NW /15.3%
7	高雄海域(W)													
8	嘉南海域(X)	1691(77%)	5.1	3.4/N	17.4/N	28.7	56.2	14.1	.9	38.4	9.3	11.8	40.5	NNE/21.4%
9	中雲海域(W)	2184(100%)	11.4	10.7/NNE	28.1/NNE	14.7	19.4	24.9	41.0	84.1	3.3	6.8	5.9	NNE/59.1%
10	澎湖海域(Y)	1937(89%)	9.7	9.2/NNE	19.2/NNE	12.5	20.0	46.2	21.4	85.5	1.5	6.2	6.7	NNE/73.0%
11	金門海域(Y)	1605(74%)	6.8	6.0/NE	14.7/NE	14.8	48.5	36.4	.2	84.5	7.4	3.1	5.0	NE /31.3%
12	馬祖海域(Y)	1989(91%)	8.4	7.5/NE	16.6/NNW	6.9	35.5	54.8	2.8	87.7	5.7	2.6	4.0	NNE/36.2%

DISW4A.BAT 日期: 2019年秋季 港灣技術研究中心

表2.1b 2019年秋季12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	2184(100%)	7.9	6.6/NE	20.6/NNE	13.1	36.0	45.7	5.2	78.0	13.2	4.2	4.6	NE /40.6%
2	北端海域(W)	2184(100%)	4.7	3.3/NNE	16.8/NW	37.2	47.3	15.2	.2	62.6	13.9	10.5	13.0	NNE/23.2%
3	宜蘭海域(W)	2184(100%)	4.1	2.0/WNW	18.5/WNW	39.7	54.7	5.4	.2	12.5	12.1	17.8	57.6	W /22.0%
4	花蓮海域(W)	2184(100%)	4.0	1.9/NE	14.2/NNE	49.4	42.1	8.5	.0	45.8	7.9	20.5	25.9	NE /18.8%
5	臺東海域(Y)	2184(100%)	5.3	1.4/N	15.6/NNE	22.6	62.3	14.4	.6	32.6	17.4	19.6	30.4	N /12.9%
6	屏東海域(Y)	2184(100%)	3.1	1.5/NW	18.1/NNW	61.3	36.6	1.9	.2	23.2	9.4	22.7	44.7	NW /12.3%
7	高雄海域(W)	2184(100%)	3.9	2.5/NW	18.1/NNW	44.7	49.6	4.9	.8	28.4	3.6	19.6	48.5	NNW/17.2%
8	嘉南海域(X)	2184(100%)	5.1	3.6/N	17.4/N	27.5	58.2	13.6	.7	47.3	8.4	9.6	34.7	N /24.8%
9	中雲海域(W)	2184(100%)	11.4	10.7/NNE	28.1/NNE	14.7	19.5	24.9	41.0	83.8	3.2	7.2	5.8	NNE/59.0%
10	澎湖海域(Y)	2184(100%)	9.7	9.1/NNE	19.2/NNE	12.0	21.2	47.1	19.7	86.3	1.3	5.8	6.6	NNE/69.0%
11	金門海域(Y)	2184(100%)	6.8	6.0/NE	14.7/NE	14.0	49.1	36.7	.2	84.9	8.3	2.7	4.1	NE /35.1%
12	馬祖海域(Y)	2184(100%)	8.4	7.6/NE	16.6/NNW	6.4	35.8	55.3	2.6	88.8	5.2	2.4	3.7	NE /36.4%

DISW4A.BAT 日期: 2019年秋季 港灣技術研究中心

表2.1a 2019年整年12個海域主要測站1修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	8688(99%)	6.9	3.7/NE	20.6/NNE	24.0	34.8	37.2	4.1	55.2	17.5	18.8	8.6	NE /27.8%
2	北端海域(W)	8756(100%)	3.8	2.0/NE	16.8/NW	51.4	40.4	8.1	.0	45.9	20.1	16.8	17.2	NNE/17.0%
3	宜蘭海域(W)	7015(80%)	3.9	.8/W	18.9/SSE	48.9	44.1	6.8	.2	14.6	21.6	14.6	49.1	W /18.6%
4	花蓮海域(W)	8760(100%)	3.5	1.0/NNE	14.2/NNE	57.0	38.2	4.7	.0	36.5	12.2	24.6	26.8	NE /15.0%
5	臺東海域(Y)	8116(93%)	4.5	.6/NNE	19.2/NNW	36.3	52.6	10.8	.3	28.5	24.5	21.5	25.5	N / 8.0%
6	屏東海域(Y)	7090(81%)	3.4	1.2/NW	14.6/NW	53.9	43.2	2.8	.0	22.5	15.1	13.8	48.6	NW /16.4%
7	高雄海域(W)													
8	嘉南海域(X)	7094(81%)	5.2	2.2/N	21.4/WNW	26.6	58.6	14.3	.5	37.8	17.9	16.9	27.4	NNE/20.9%
9	中雲海域(W)	8760(100%)	9.5	5.8/NNE	28.1/NNE	16.9	27.8	30.2	25.2	63.4	6.3	23.2	7.0	NNE/40.8%
10	澎湖海域(Y)	8042(92%)	7.7	5.4/NNE	19.2/NNE	17.6	36.8	35.6	9.9	65.5	6.9	18.4	9.2	NNE/45.6%
11	金門海域(Y)	7067(81%)	5.9	3.8/NE	16.2/NNE	23.4	49.5	26.8	.3	68.6	7.9	18.5	5.1	NE /31.2%
12	馬祖海域(Y)	7683(88%)	7.1	4.7/NNE	16.6/NNE	16.2	40.8	40.7	2.3	72.3	4.7	16.9	6.2	NNE/34.3%

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表2.1b 2019年整年12個海域主要測站1修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(X)	8760(100%)	6.9	3.7/NE	20.6/NNE	24.1	34.9	37.0	4.0	55.2	17.6	18.7	8.6	NE /27.6%
2	北端海域(W)	8760(100%)	3.8	2.0/NE	16.8/NW	51.4	40.4	8.1	.0	45.9	20.0	16.9	17.1	NNE/17.1%
3	宜蘭海域(W)	8760(100%)	3.8	.9/WNW	18.9/SSE	49.6	44.3	5.9	.2	16.4	18.6	17.5	47.6	W /19.4%
4	花蓮海域(W)	8760(100%)	3.5	1.0/NNE	14.2/NNE	57.1	38.2	4.7	.0	36.5	12.1	24.6	26.8	NE /15.0%
5	臺東海域(Y)	8760(100%)	4.5	.8/NNE	19.2/NNW	36.9	52.4	10.4	.3	30.7	23.1	20.1	26.1	N / 9.0%
6	屏東海域(Y)	8760(100%)	3.4	1.1/NW	18.1/NNW	54.7	42.2	3.0	.1	24.2	15.2	16.4	44.2	NW /14.2%
7	高雄海域(W)	8760(100%)	4.3	2.2/NNW	18.9/NNW	39.3	52.8	7.7	.3	29.9	8.7	15.3	46.1	N /18.3%
8	嘉南海域(X)	8760(100%)	5.4	2.7/N	22.5/SSE	25.2	57.1	17.0	.7	41.4	17.0	14.9	26.7	N /21.9%
9	中雲海域(W)	8760(100%)	9.5	5.8/NNE	28.1/NNE	16.9	27.8	30.2	25.2	63.3	6.2	23.6	6.9	NNE/40.8%
10	澎湖海域(Y)	8760(100%)	7.7	5.3/NNE	19.2/NNE	17.5	37.4	35.4	9.7	64.8	6.7	19.7	8.9	NNE/43.9%
11	金門海域(Y)	8760(100%)	5.9	3.5/NE	16.8/E	23.0	49.9	26.7	.4	66.9	7.9	20.5	4.7	NE /30.1%
12	馬祖海域(Y)	8760(100%)	7.2	4.8/NNE	16.6/NNE	14.9	41.4	41.4	2.2	73.3	4.3	16.7	5.8	NNE/33.2%

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第三章 2019 年 12 海域風力主要測站 1 修補前後資料歷線比較圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Twelve Seas Wind Speed at 2018/12

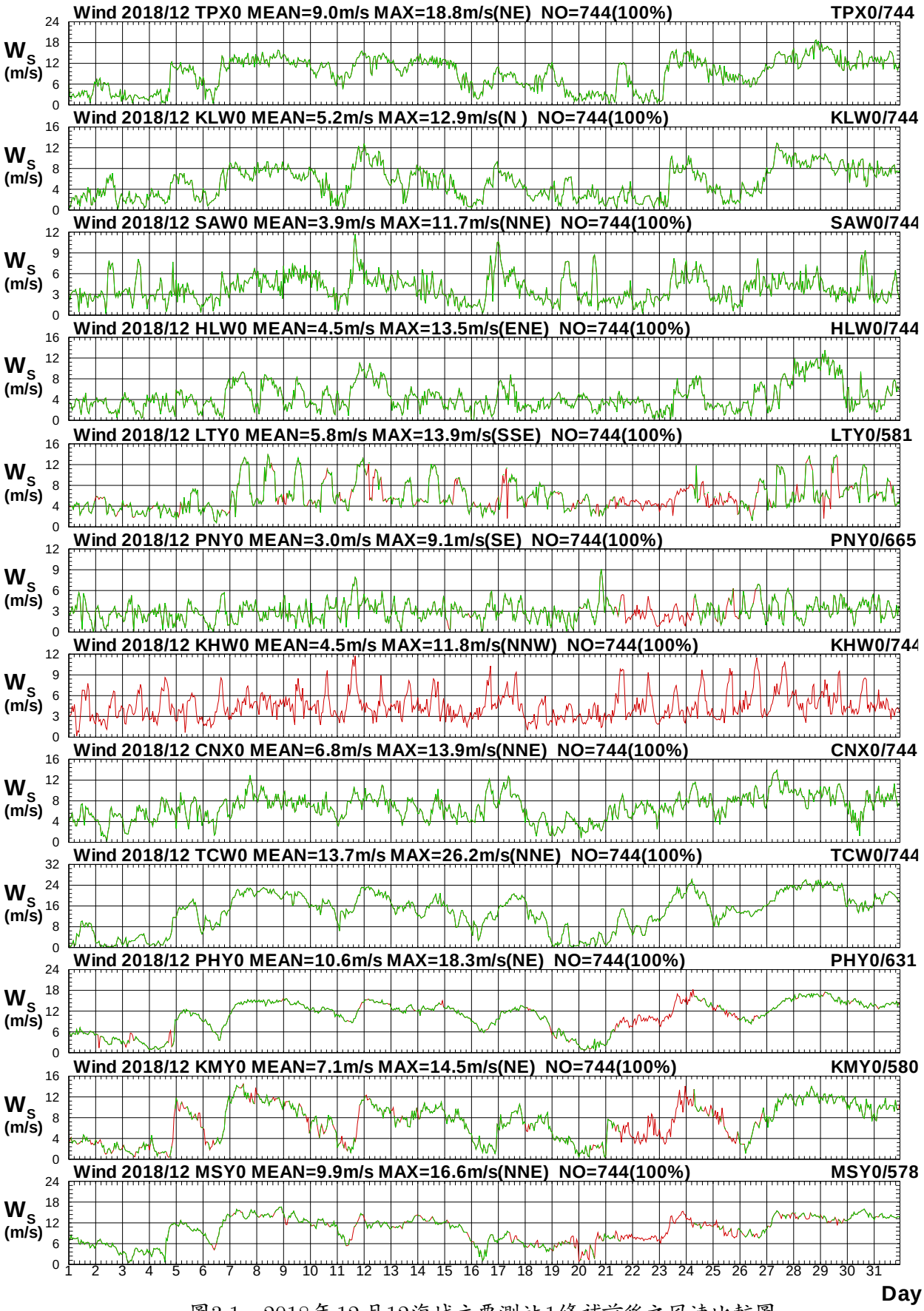

圖3.1　2018年12月12海域主要測站1修補前後之風速比較圖

W18CTPX0.1HA W18CTPX0.1H0 W18CKLW0.1HA W18CKLW0.1H0 W18CSAW0.1HA W18CSAW0.1H0
W18CHLW0.1HA W18CHLW0.1H0 W18CLTY0.1HA W18CLTY0.1H0 W18CPNY0.1HA W18CPNY0.1H0

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Twelve Seas Wind Direction at 2018/12

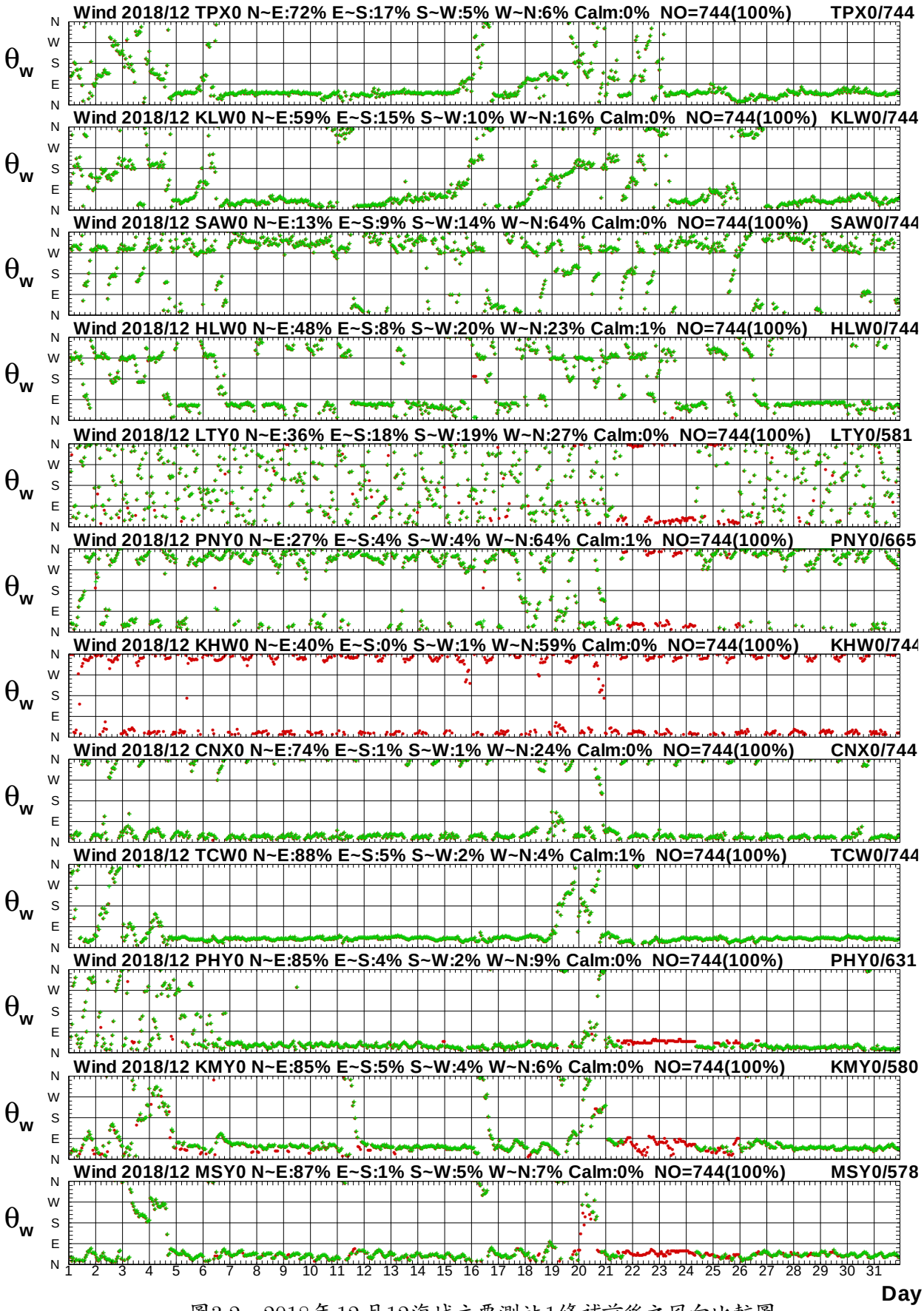

圖3.2　2018年12月12海域主要測站1修補前後之風向比較圖

W18CTPX0.1HA W18CTPX0.1H0 W18CKLW0.1HA W18CKLW0.1H0 W18CSAW0.1HA W18CSAW0.1H0
W18CHLW0.1HA W18CHLW0.1H0 W18CLTY0.1HA W18CLTY0.1H0 W18CPNY0.1HA W18CPNY0.1H0

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Twelve Seas E-component of Wind at 2018/12

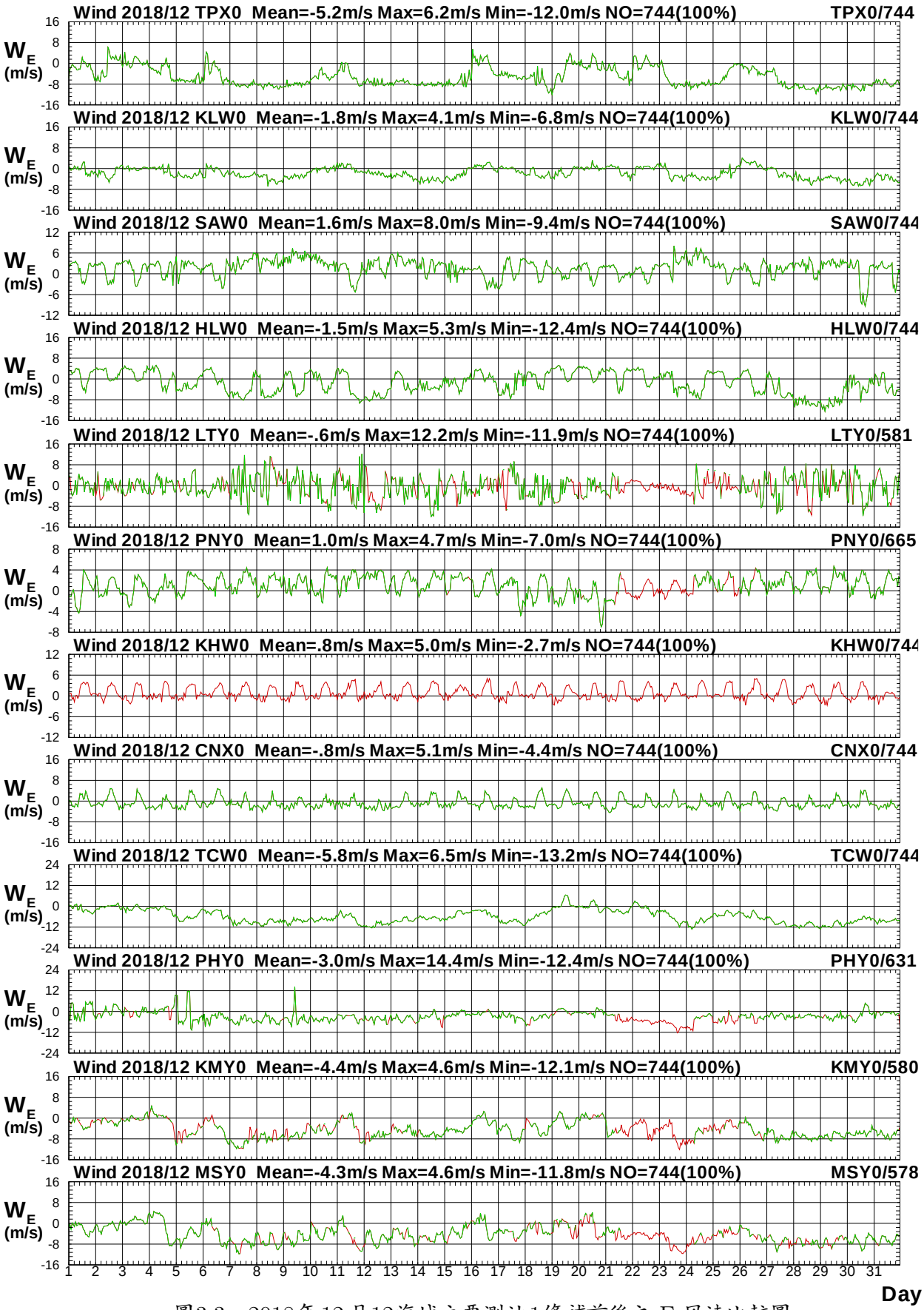

圖3.3　2018年12月12海域主要測站1修補前後之 E-風速比較圖

W18CTPX0.1HA W18CTPX0.1H0 W18CKLW0.1HA W18CKLW0.1H0 W18CSAW0.1HA W18CSAW0.1H0
W18CHLW0.1HA W18CHLW0.1H0 W18CLTY0.1HA W18CLTY0.1H0 W18CPNY0.1HA W18CPNY0.1H0

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Twelve Seas N-component of Wind at 2018/12

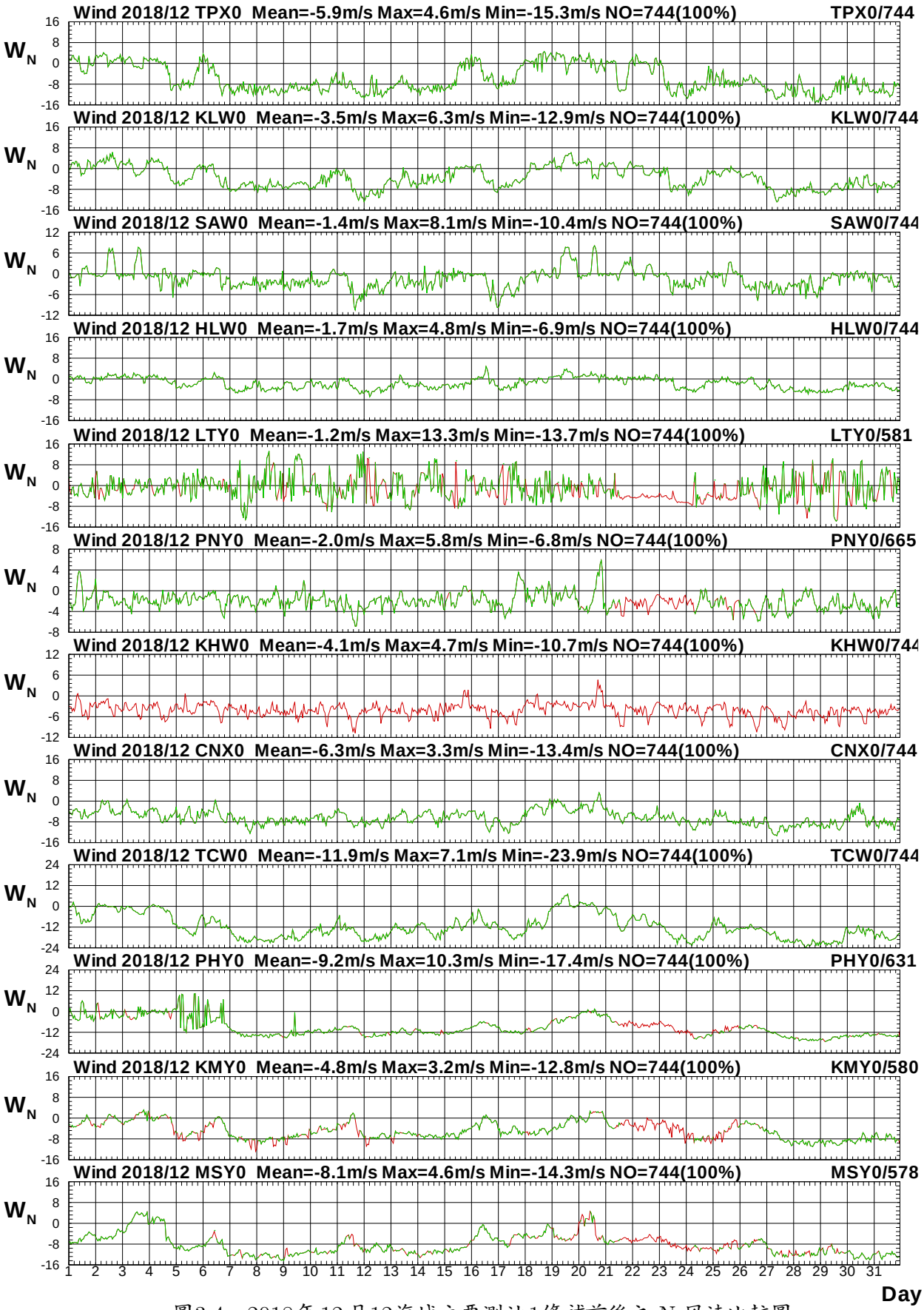

圖3.4　2018年12月12海域主要測站1修補前後之 N-風速比較圖

W18CTPX0.1HA W18CTPX0.1H0 W18CKLW0.1HA W18CKLW0.1H0 W18CSAW0.1HA W18CSAW0.1H0
W18CHLW0.1HA W18CHLW0.1H0 W18CLTY0.1HA W18CLTY0.1H0 W18CPNY0.1HA W18CPNY0.1H0

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Twelve Seas Wind Speed at 2019/01

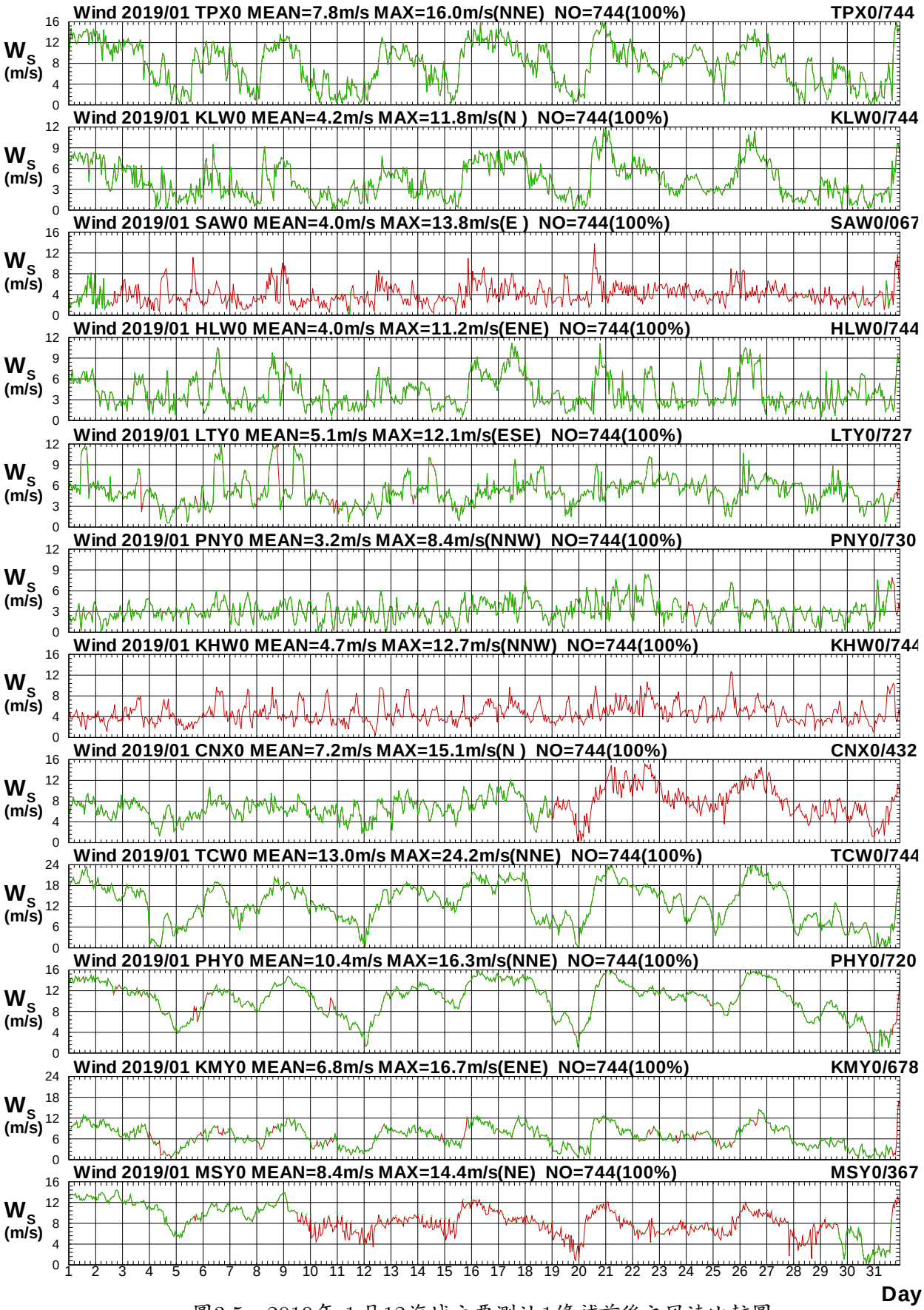

圖3.5　2019年 1月12海域主要測站1修補前後之風速比較圖

W191TPX0.1HA W191TPX0.1H0 W191KLW0.1HA W191KLW0.1H0 W191SAW0.1HA W191SAW0.1H0
W191HLW0.1HA W191HLW0.1H0 W191LTY0.1HA W191LTY0.1H0 W191PNY0.1HA W191PNY0.1H0

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Twelve Seas Wind Direction at 2019/01

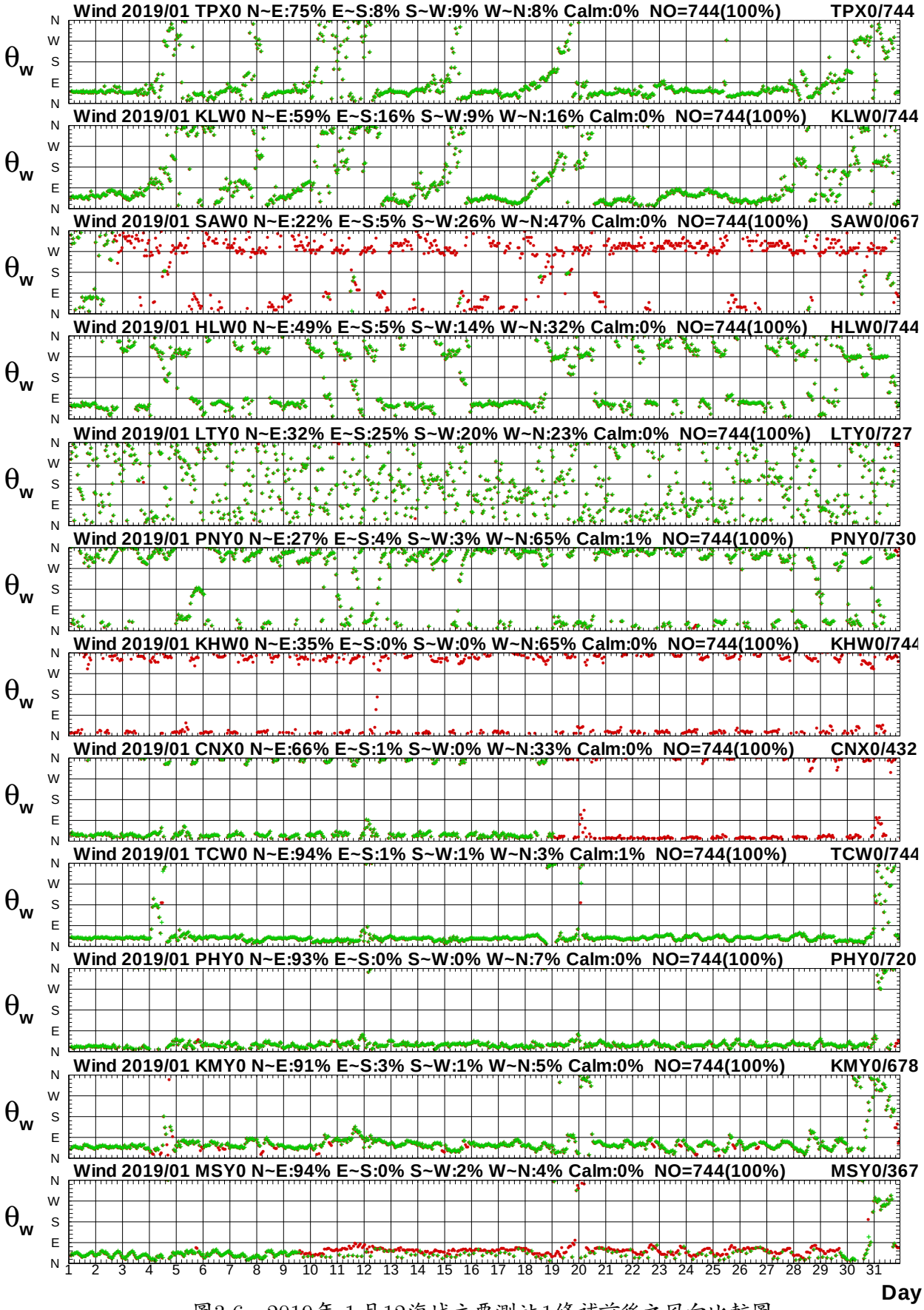

圖3.6　2019年 1月12海域主要測站1修補前後之風向比較圖

W191TPX0.1HA W191TPX0.1H0 W191KLW0.1HA W191KLW0.1H0 W191SAW0.1HA W191SAW0.1H0
W191HLW0.1HA W191HLW0.1H0 W191LTY0.1HA W191LTY0.1H0 W191PNY0.1HA W191PNY0.1H0

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Twelve Seas E-component of Wind at 2019/01

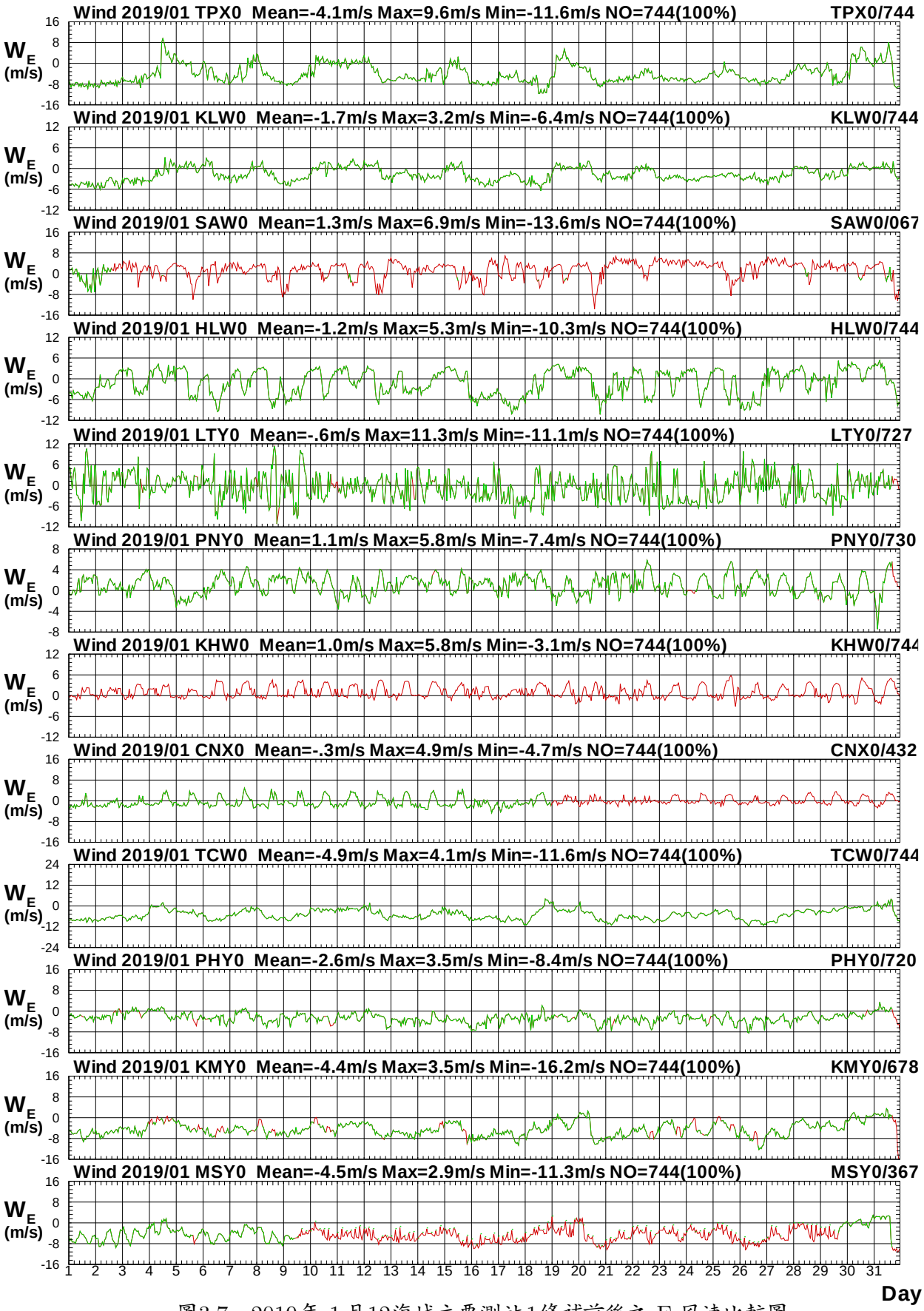

圖3.7　2019年 1月12海域主要測站1修補前後之 E-風速比較圖

W191TPX0.1HA W191TPX0.1H0 W191KLW0.1HA W191KLW0.1H0 W191SAW0.1HA W191SAW0.1H0
W191HLW0.1HA W191HLW0.1H0 W191LTY0.1HA W191LTY0.1H0 W191PNY0.1HA W191PNY0.1H0

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Twelve Seas N-component of Wind at 2019/01

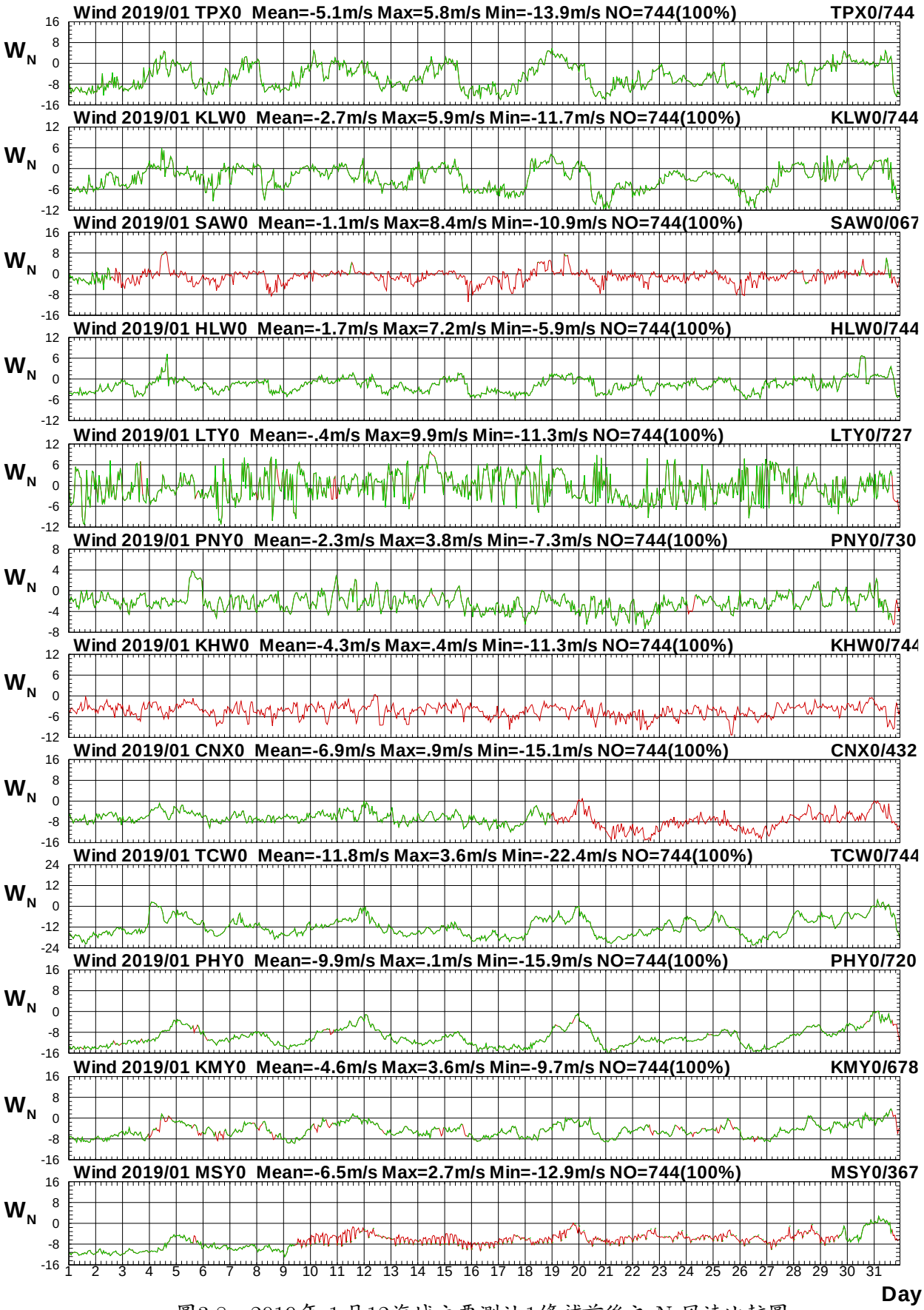

圖3.8　2019年 1月12海域主要測站1修補前後之 N-風速比較圖

W191TPX0.1HA W191TPX0.1H0 W191KLW0.1HA W191KLW0.1H0 W191SAW0.1HA W191SAW0.1H0
W191HLW0.1HA W191HLW0.1H0 W191LTY0.1HA W191LTY0.1H0 W191PNY0.1HA W191PNY0.1H0

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Twelve Seas Wind Speed at 2019/02

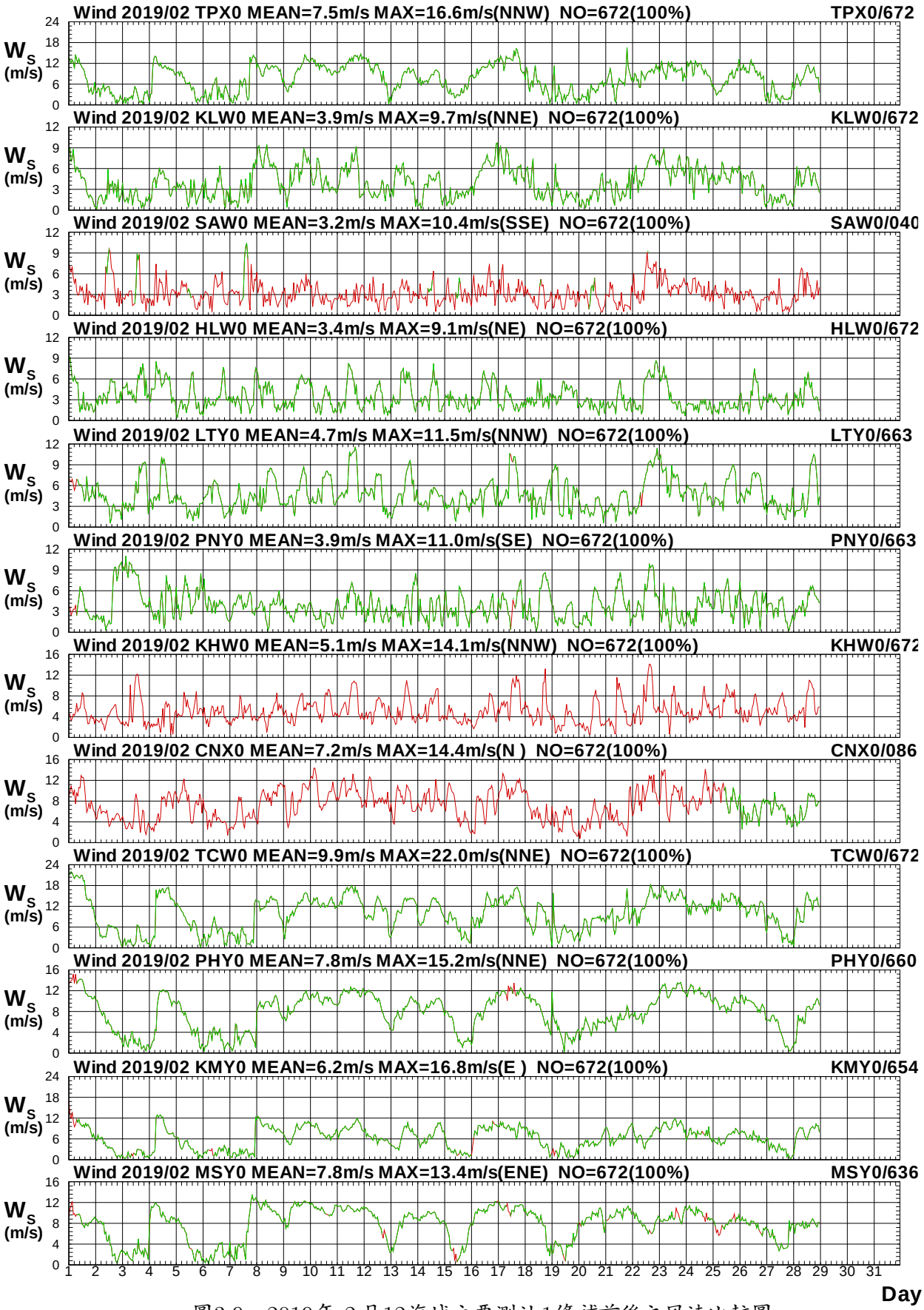

圖3.9　2019年 2月12海域主要測站1修補前後之風速比較圖

W192TPX0.1HA W192TPX0.1H0 W192KLW0.1HA W192KLW0.1H0 W192SAW0.1HA W192SAW0.1H0
W192HLW0.1HA W192HLW0.1H0 W192LTY0.1HA W192LTY0.1H0 W192PNY0.1HA W192PNY0.1H0

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Twelve Seas Wind Direction at 2019/02

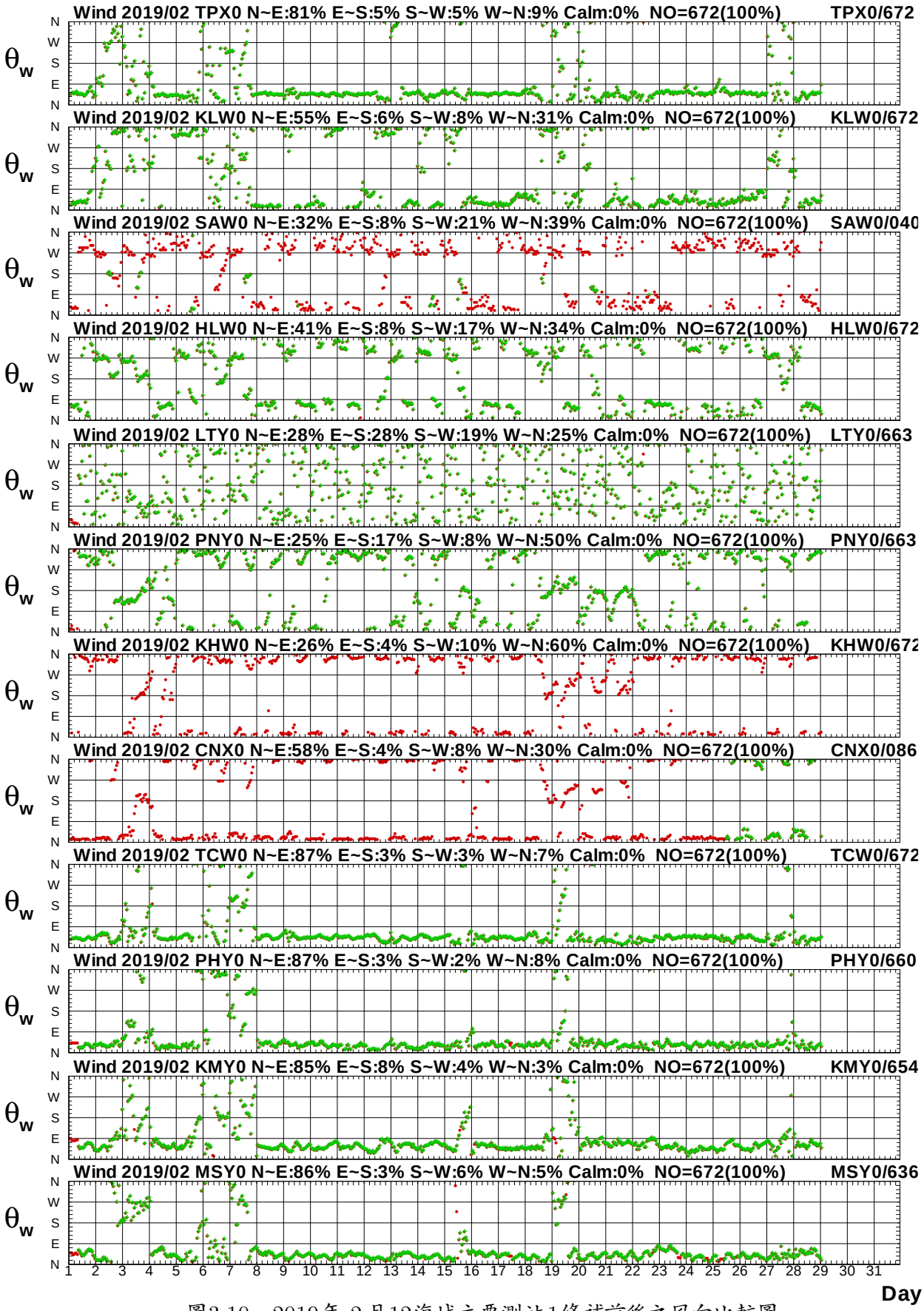

圖3.10　2019年 2月12海域主要測站1修補前後之風向比較圖

W192TPX0.1HA W192TPX0.1H0 W192KLW0.1HA W192KLW0.1H0 W192SAW0.1HA W192SAW0.1H0
W192HLW0.1HA W192HLW0.1H0 W192LTY0.1HA W192LTY0.1H0 W192PNY0.1HA W192PNY0.1H0

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Twelve Seas E-component of Wind at 2019/02

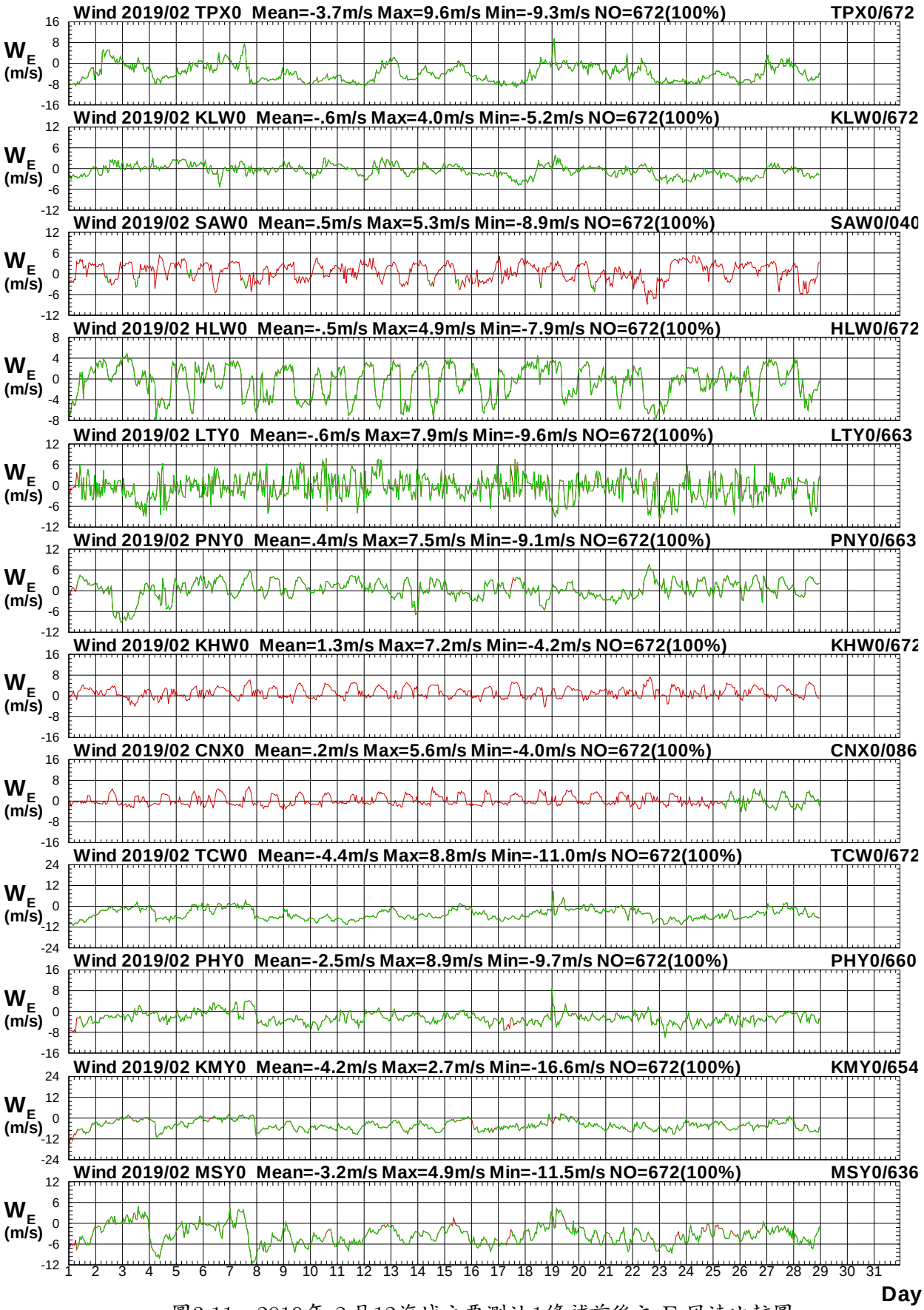

圖3.11　2019年 2月12海域主要測站1修補前後之 E-風速比較圖

W192TPX0.1HA W192TPX0.1H0 W192KLW0.1HA W192KLW0.1H0 W192SAW0.1HA W192SAW0.1H0
W192HLW0.1HA W192HLW0.1H0 W192LTY0.1HA W192LTY0.1H0 W192PNY0.1HA W192PNY0.1H0

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Twelve Seas N-component of Wind at 2019/02

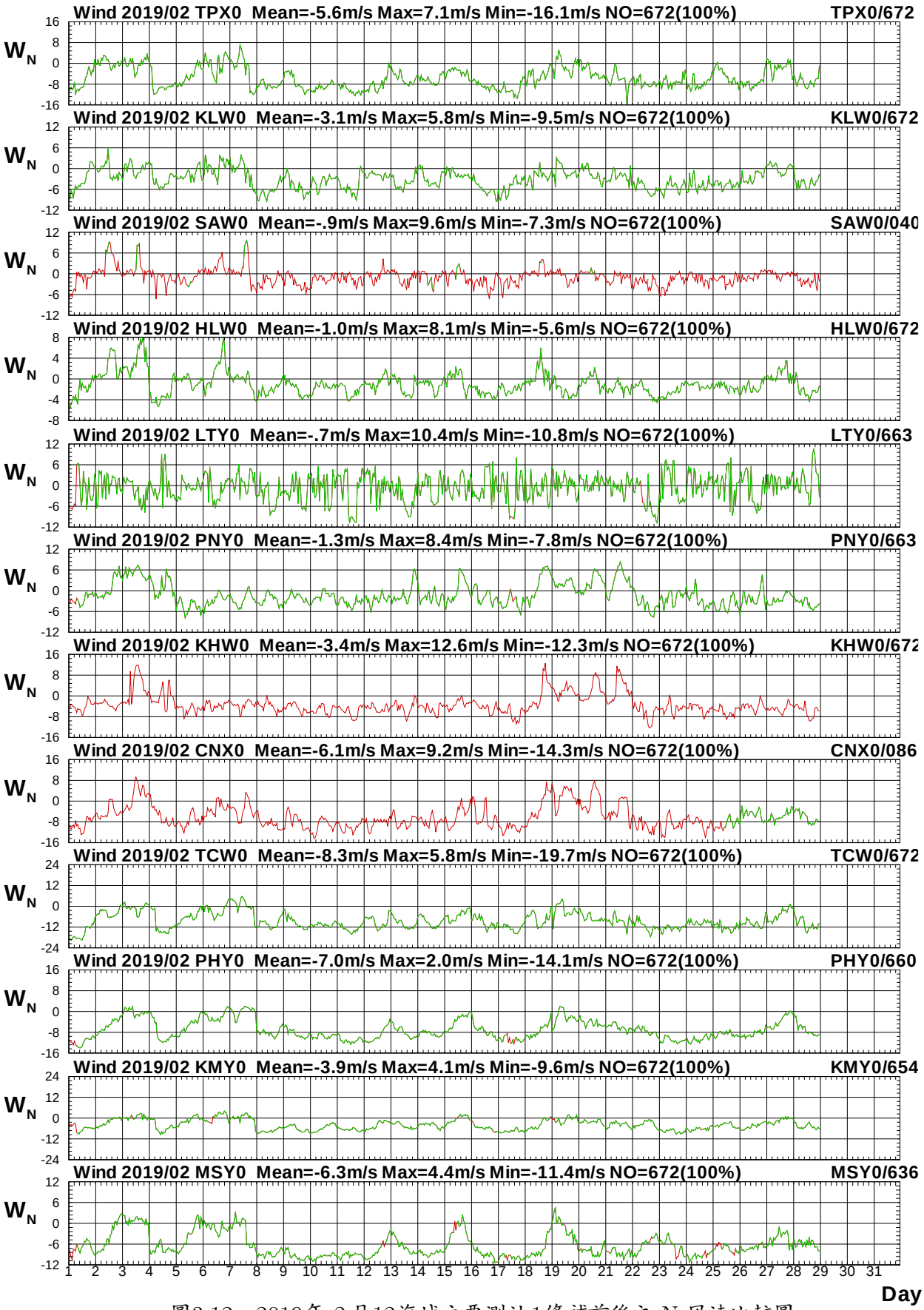

圖3.12　2019年 2月12海域主要測站1修補前後之 N-風速比較圖

W192TPX0.1HA W192TPX0.1H0 W192KLW0.1HA W192KLW0.1H0 W192SAW0.1HA W192SAW0.1H0
W192HLW0.1HA W192HLW0.1H0 W192LTY0.1HA W192LTY0.1H0 W192PNY0.1HA W192PNY0.1H0

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Twelve Seas Wind Speed at 2019/03

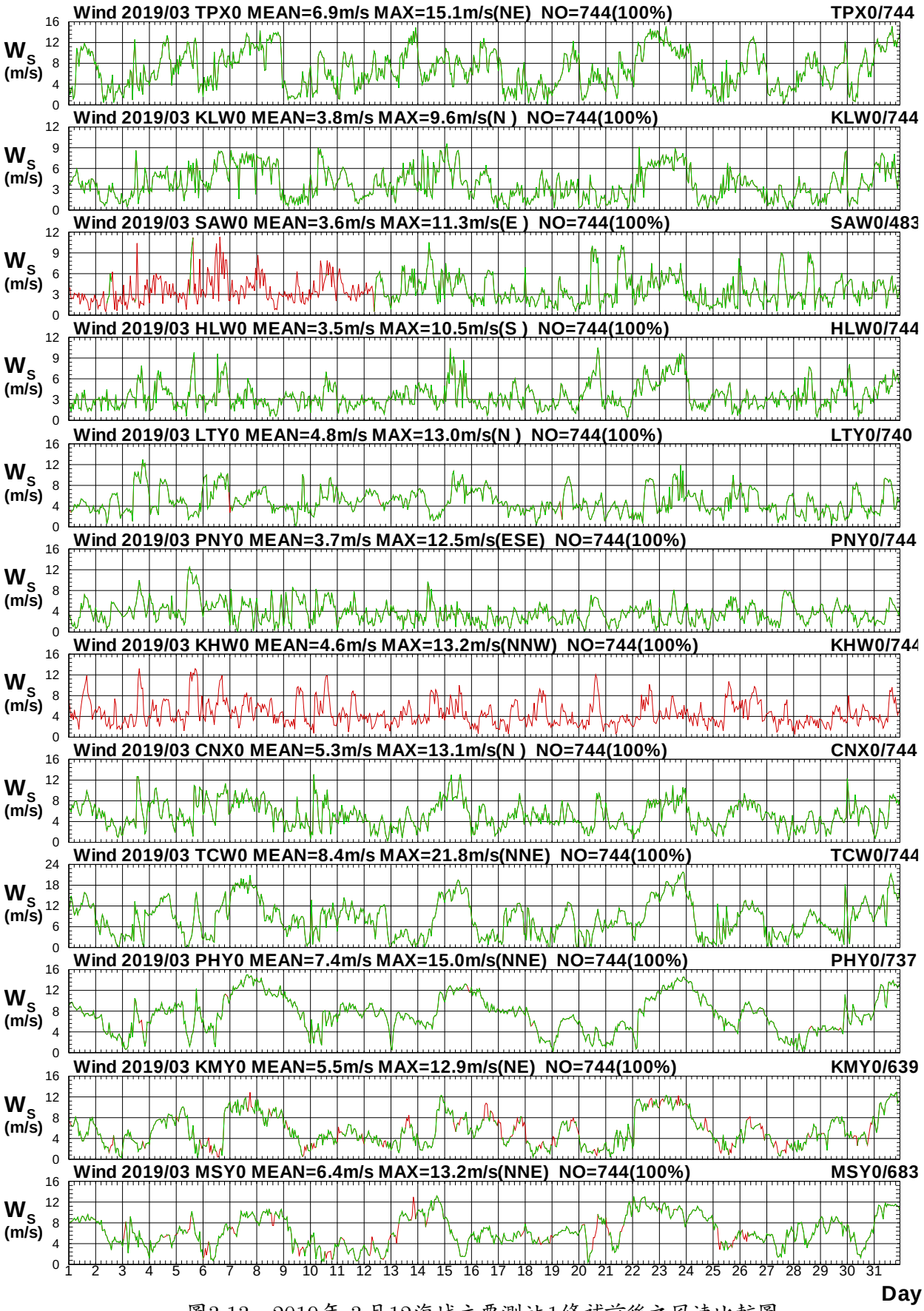

圖3.13　2019年 3月12海域主要測站1修補前後之風速比較圖

W193TPX0.1HA W193TPX0.1H0 W193KLW0.1HA W193KLW0.1H0 W193SAW0.1HA W193SAW0.1H0
W193HLW0.1HA W193HLW0.1H0 W193LTY0.1HA W193LTY0.1H0 W193PNY0.1HA W193PNY0.1H0

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Twelve Seas Wind Direction at 2019/03

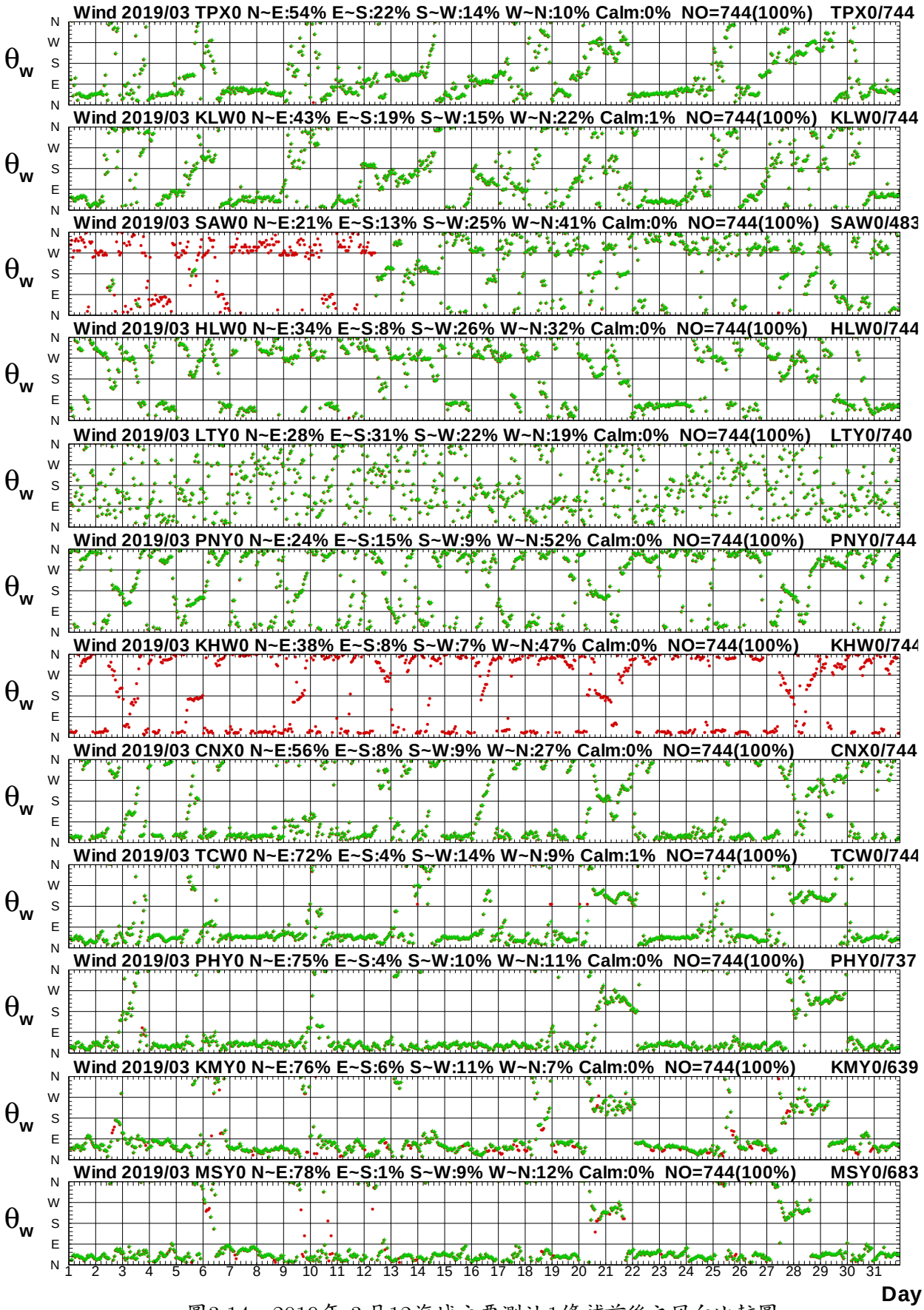

圖3.14　2019年 3月12海域主要測站1修補前後之風向比較圖

W193TPX0.1HA W193TPX0.1H0 W193KLW0.1HA W193KLW0.1H0 W193SAW0.1HA W193SAW0.1H0
W193HLW0.1HA W193HLW0.1H0 W193LTY0.1HA W193LTY0.1H0 W193PNY0.1HA W193PNY0.1H0

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Twelve Seas E-component of Wind at 2019/03

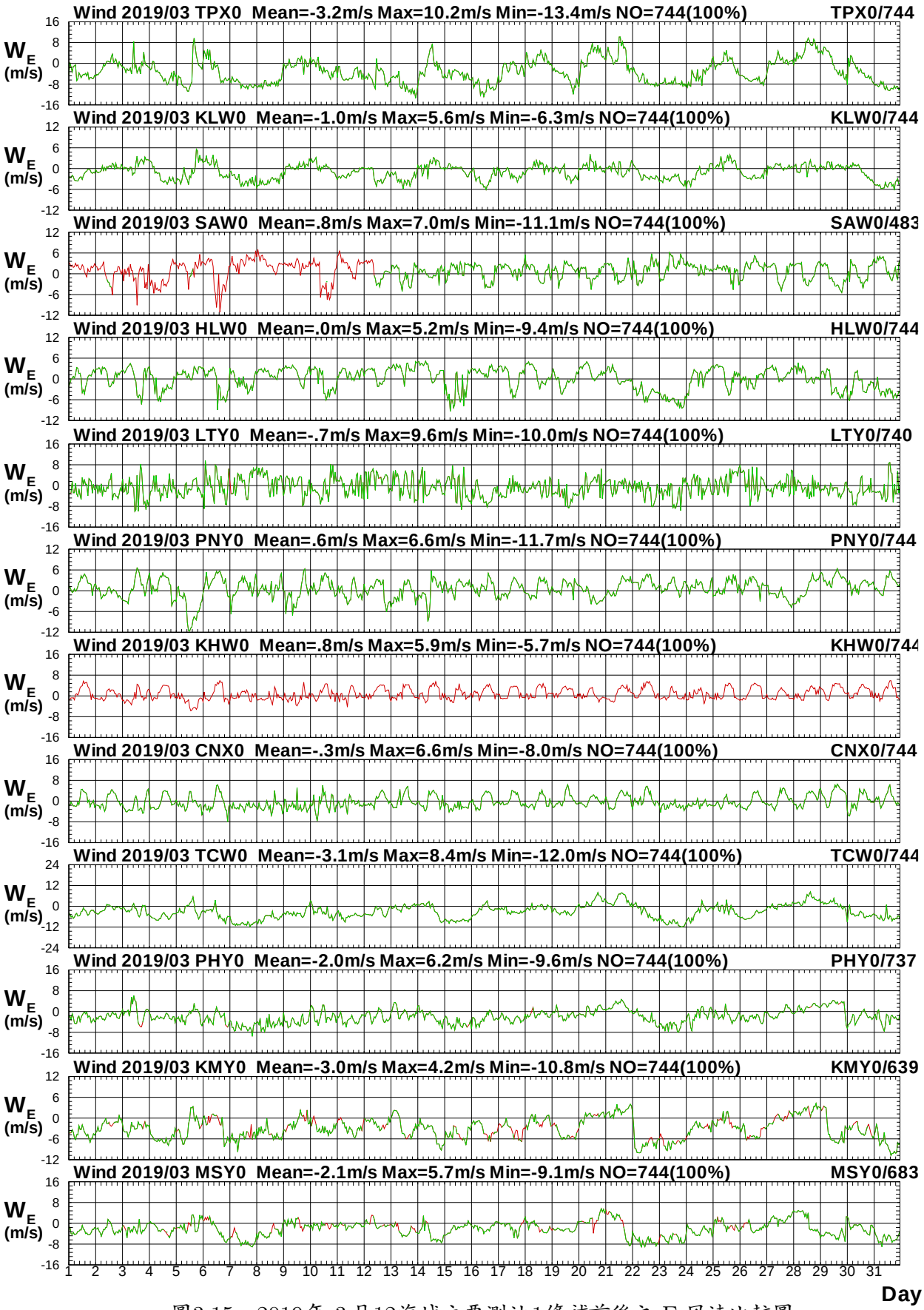

圖3.15　2019年 3月12海域主要測站1修補前後之 E-風速比較圖

W193TPX0.1HA W193TPX0.1H0 W193KLW0.1HA W193KLW0.1H0 W193SAW0.1HA W193SAW0.1H0
W193HLW0.1HA W193HLW0.1H0 W193LTY0.1HA W193LTY0.1H0 W193PNY0.1HA W193PNY0.1H0

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Twelve Seas N-component of Wind at 2019/03

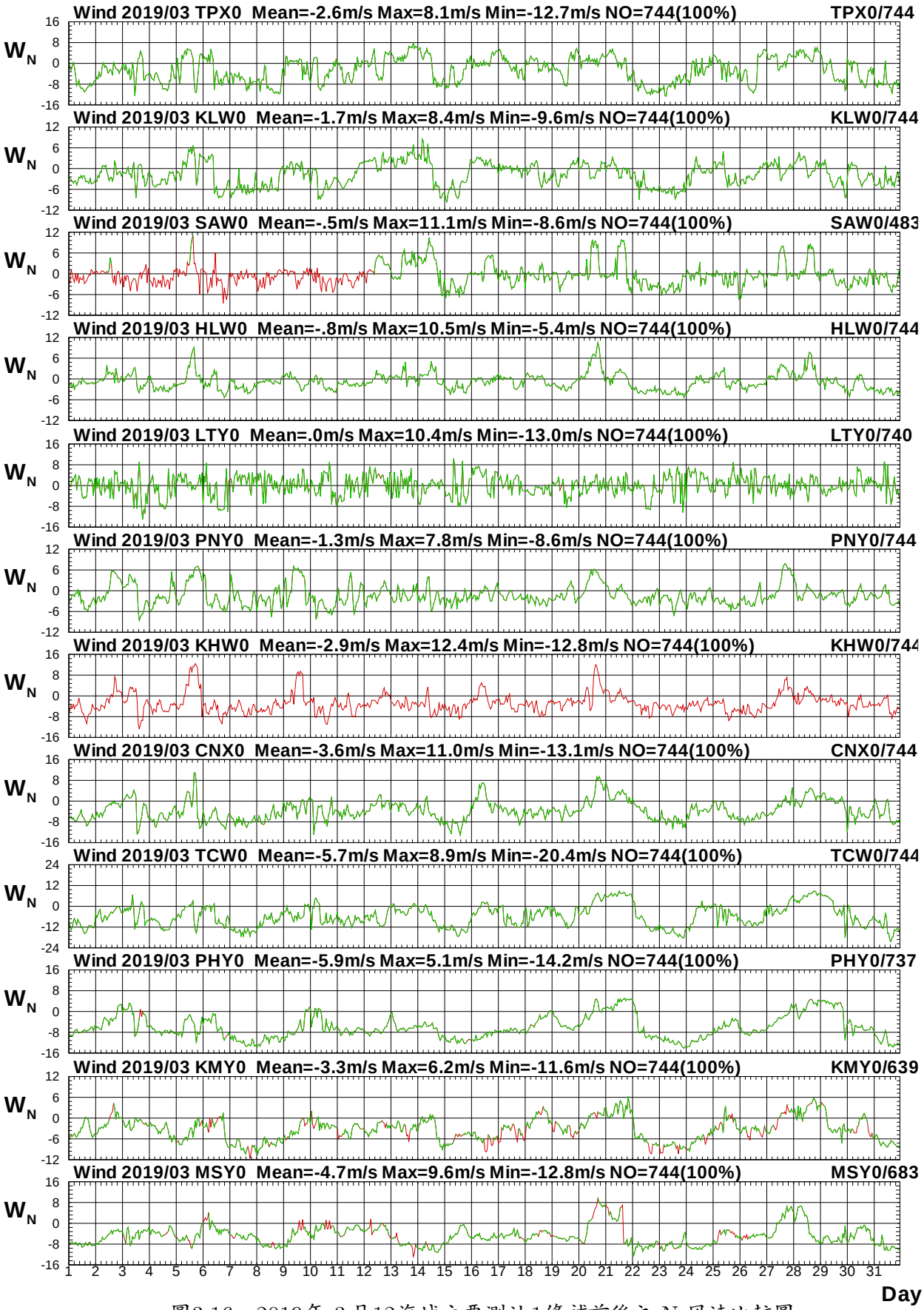

圖3.16　2019年 3月12海域主要測站1修補前後之 N-風速比較圖

W193TPX0.1HA W193TPX0.1H0 W193KLW0.1HA W193KLW0.1H0 W193SAW0.1HA W193SAW0.1H0
W193HLW0.1HA W193HLW0.1H0 W193LTY0.1HA W193LTY0.1H0 W193PNY0.1HA W193PNY0.1H0

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Twelve Seas Wind Speed at 2019/04

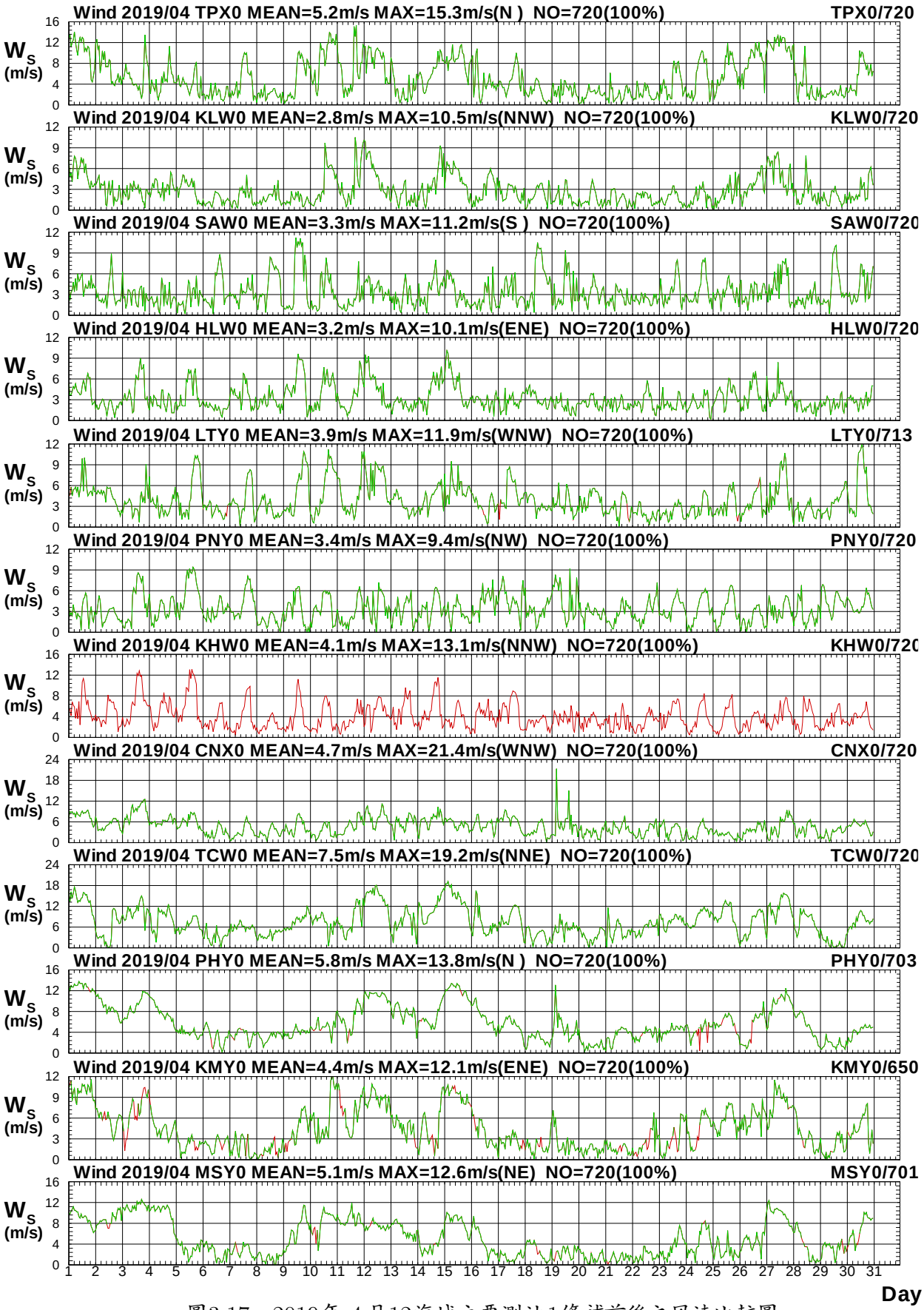

圖3.17　2019年 4月12海域主要測站1修補前後之風速比較圖

W194TPX0.1HA W194TPX0.1H0 W194KLW0.1HA W194KLW0.1H0 W194SAW0.1HA W194SAW0.1H0
W194HLW0.1HA W194HLW0.1H0 W194LTY0.1HA W194LTY0.1H0 W194PNY0.1HA W194PNY0.1H0

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Twelve Seas Wind Direction at 2019/04

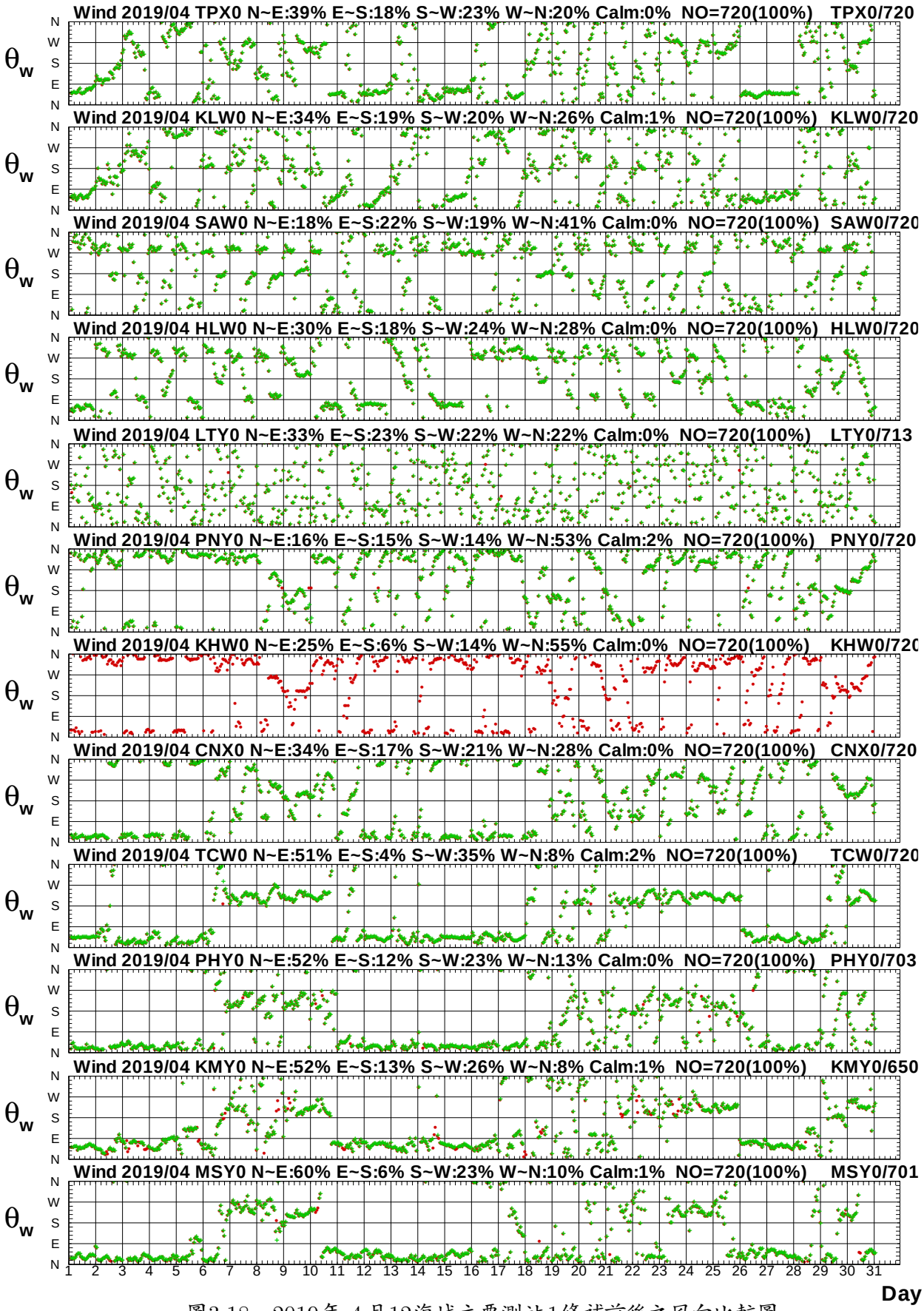

圖3.18　2019年 4月12海域主要測站1修補前後之風向比較圖

W194TPX0.1HA W194TPX0.1H0 W194KLW0.1HA W194KLW0.1H0 W194SAW0.1HA W194SAW0.1H0
W194HLW0.1HA W194HLW0.1H0 W194LTY0.1HA W194LTY0.1H0 W194PNY0.1HA W194PNY0.1H0

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Twelve Seas E-component of Wind at 2019/04

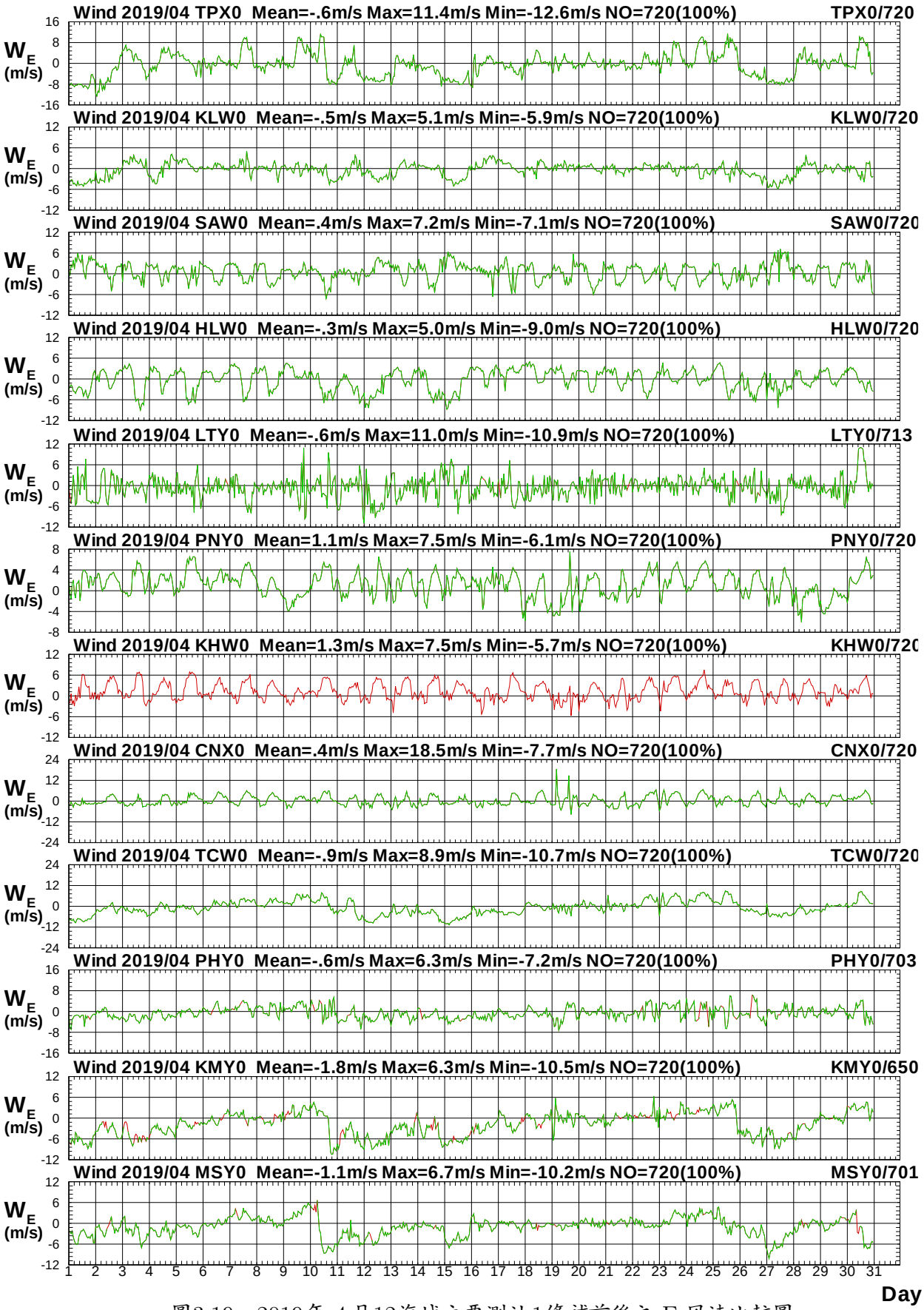

圖3.19　2019年 4月12海域主要測站1修補前後之 E-風速比較圖

W194TPX0.1HA W194TPX0.1H0 W194KLW0.1HA W194KLW0.1H0 W194SAW0.1HA W194SAW0.1H0
W194HLW0.1HA W194HLW0.1H0 W194LTY0.1HA W194LTY0.1H0 W194PNY0.1HA W194PNY0.1H0

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Twelve Seas N-component of Wind at 2019/04

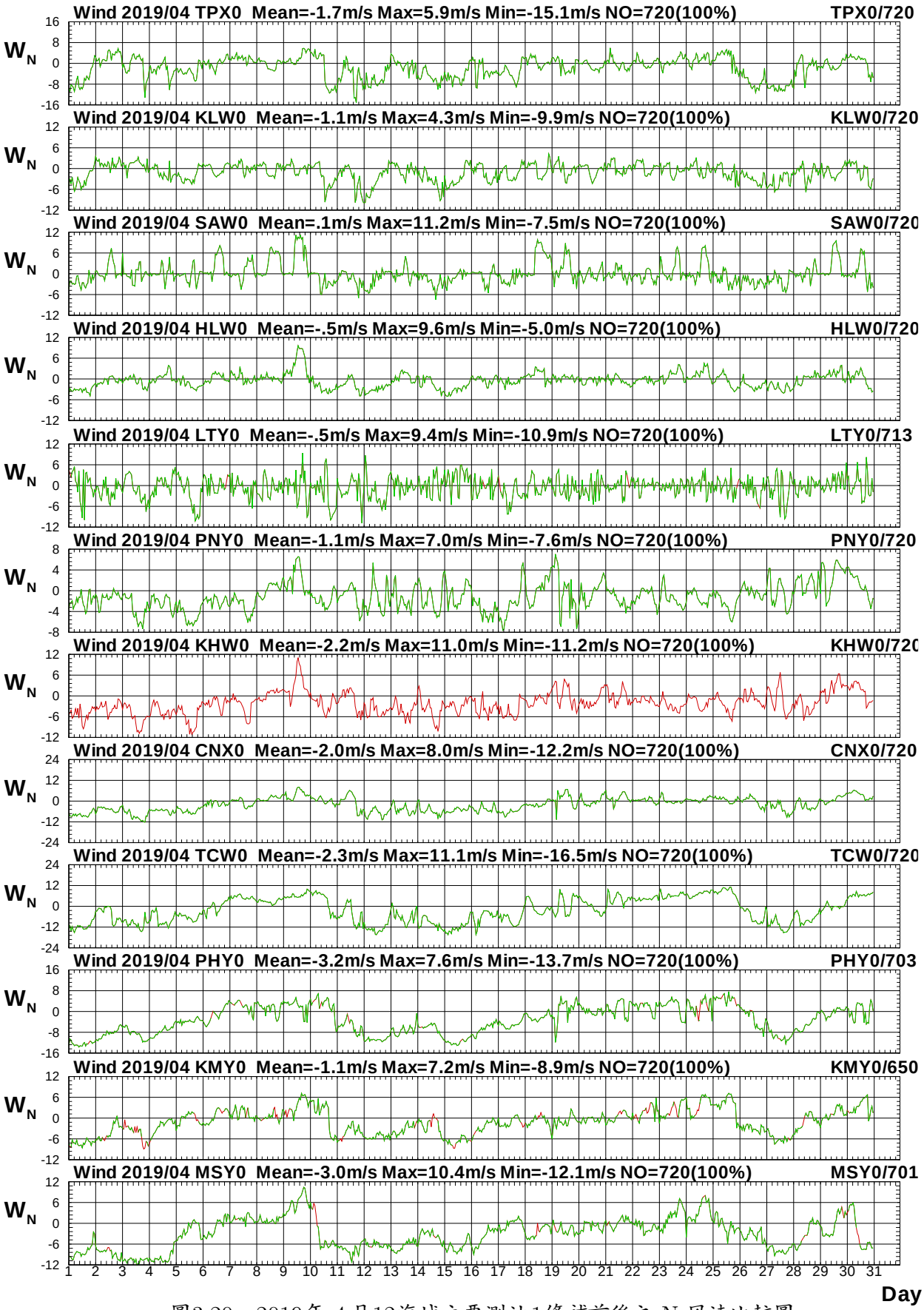

圖3.20　2019年 4月12海域主要測站1修補前後之 N-風速比較圖

W194TPX0.1HA W194TPX0.1H0 W194KLW0.1HA W194KLW0.1H0 W194SAW0.1HA W194SAW0.1H0
W194HLW0.1HA W194HLW0.1H0 W194LTY0.1HA W194LTY0.1H0 W194PNY0.1HA W194PNY0.1H0

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Twelve Seas Wind Speed at 2019/05

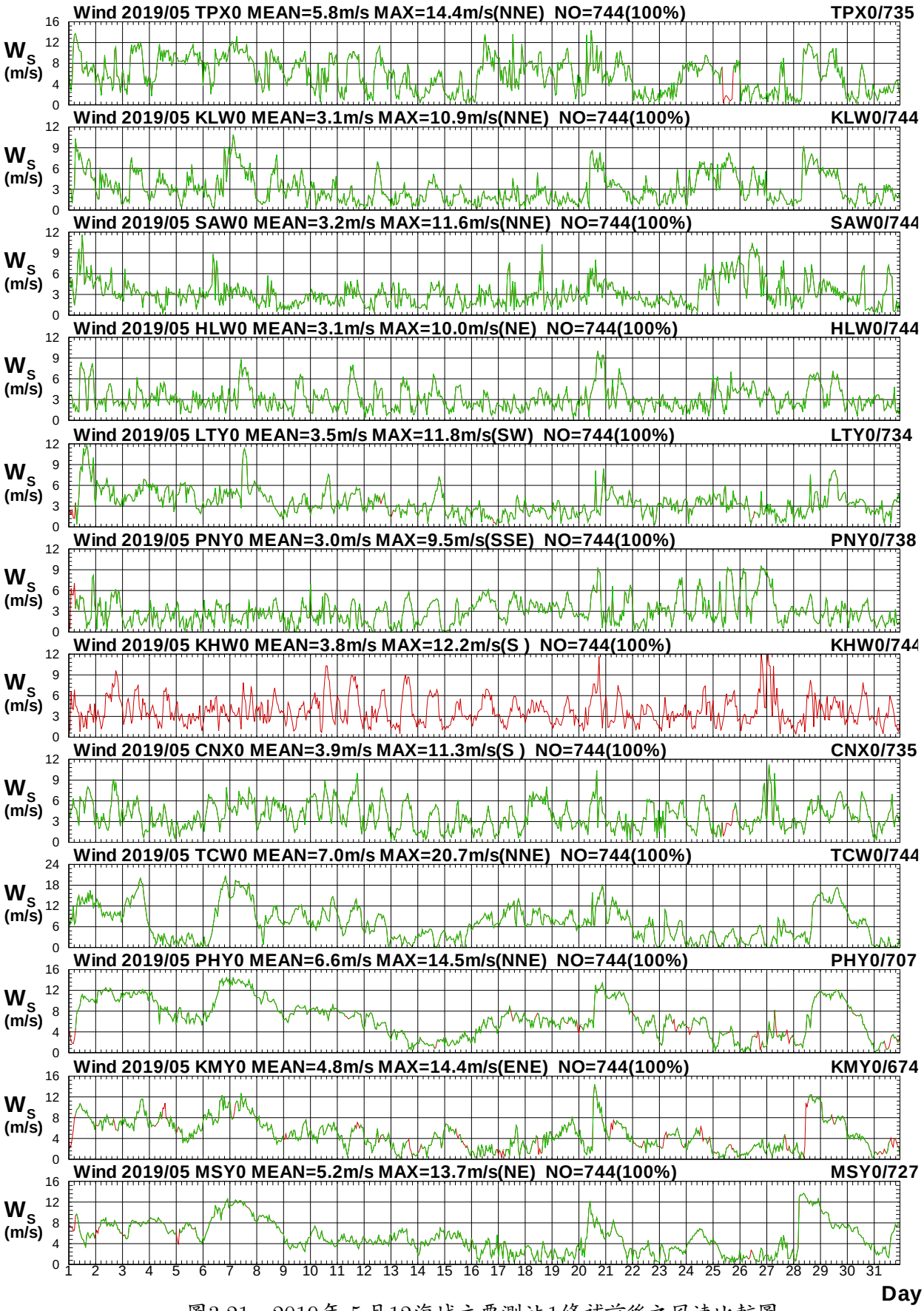

圖3.21　2019年 5月12海域主要測站1修補前後之風速比較圖

W195TPX0.1HA W195TPX0.1H0 W195KLW0.1HA W195KLW0.1H0 W195SAW0.1HA W195SAW0.1H0
W195HLW0.1HA W195HLW0.1H0 W195LTY0.1HA W195LTY0.1H0 W195PNY0.1HA W195PNY0.1H0

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Twelve Seas Wind Direction at 2019/05

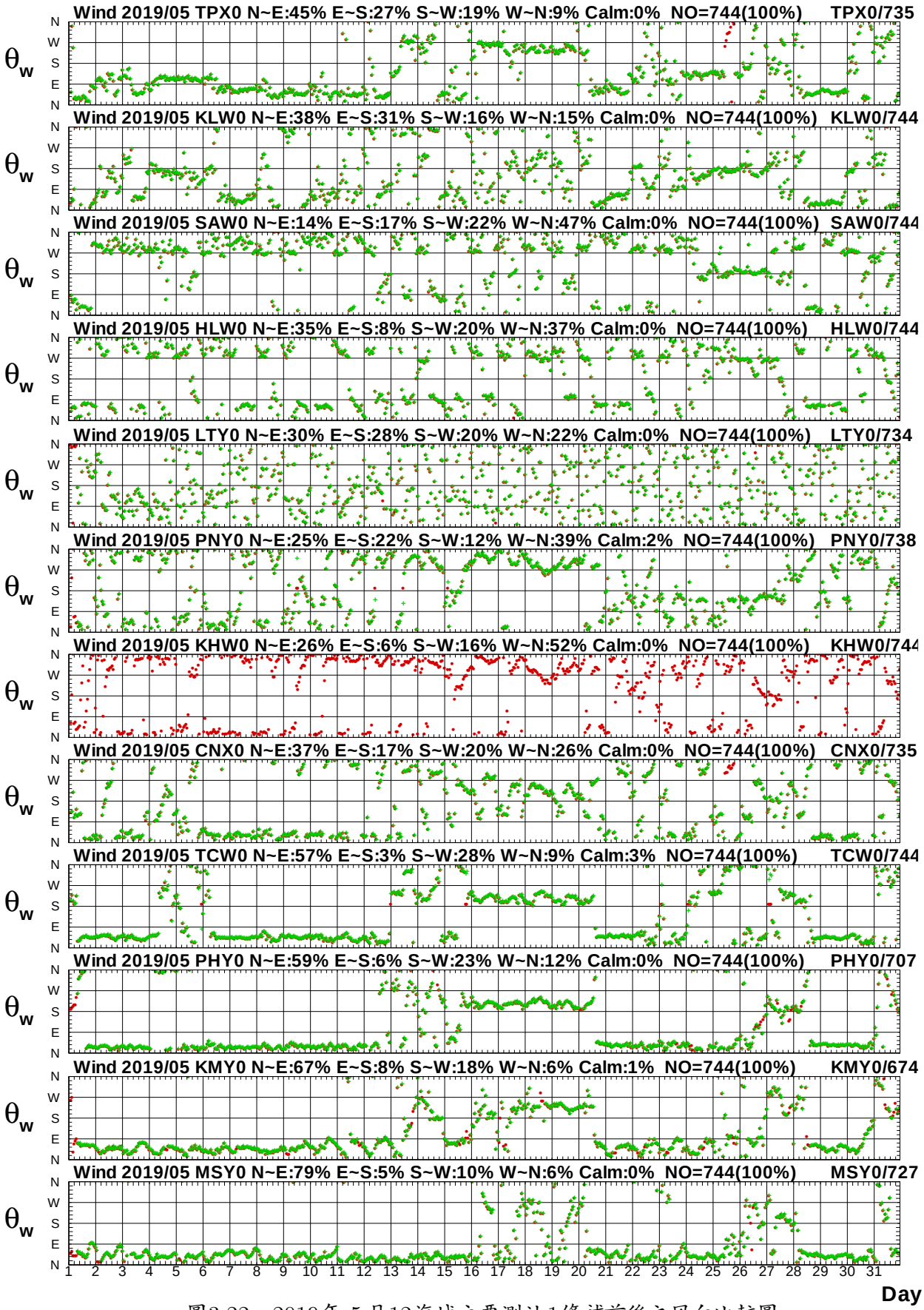

圖3.22　2019年 5月12海域主要測站1修補前後之風向比較圖

W195TPX0.1HA W195TPX0.1H0 W195KLW0.1HA W195KLW0.1H0 W195SAW0.1HA W195SAW0.1H0
W195HLW0.1HA W195HLW0.1H0 W195LTY0.1HA W195LTY0.1H0 W195PNY0.1HA W195PNY0.1H0

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Twelve Seas E-component of Wind at 2019/05

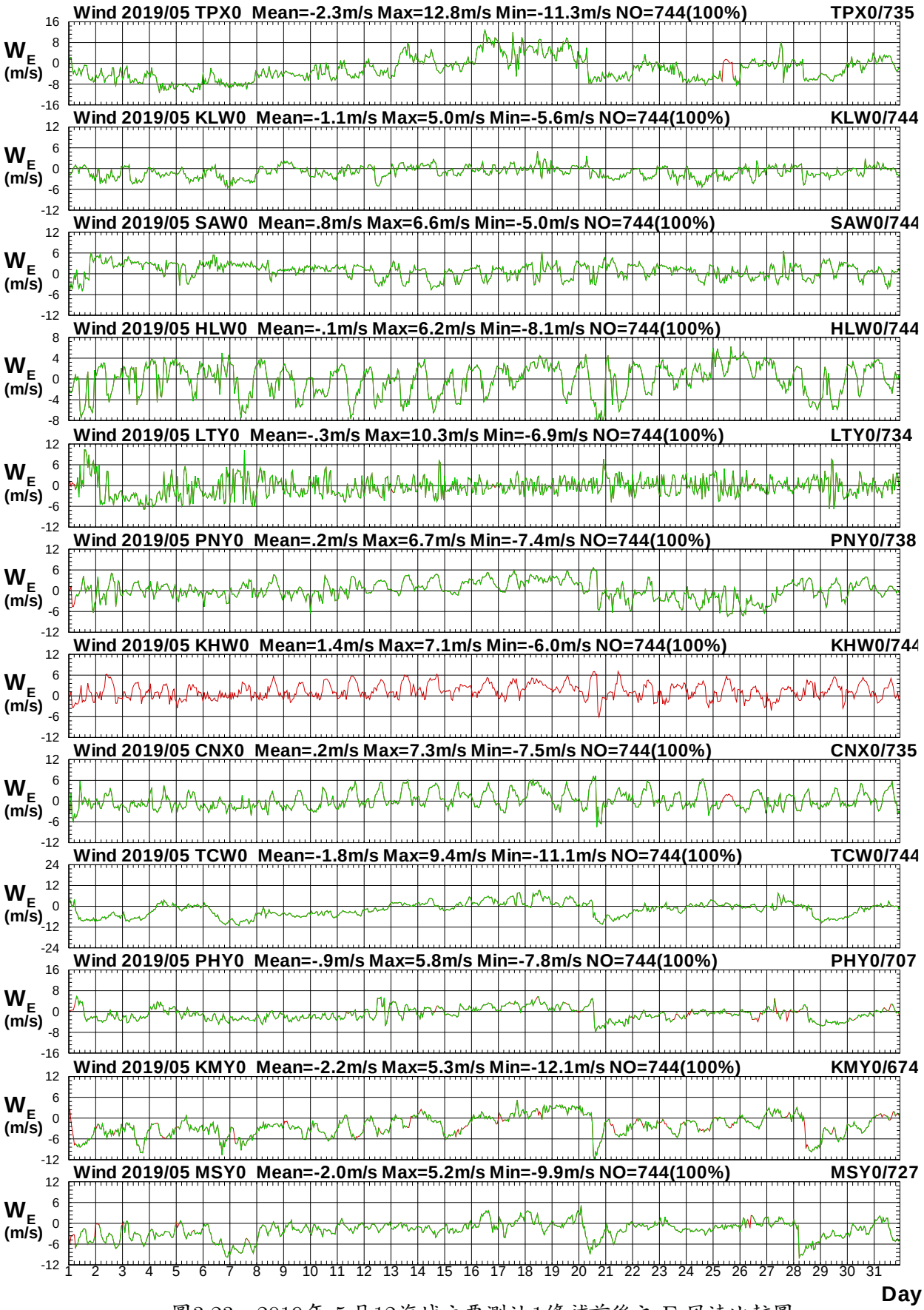

圖3.23　2019年 5月12海域主要測站1修補前後之 E-風速比較圖

W195TPX0.1HA W195TPX0.1H0 W195KLW0.1HA W195KLW0.1H0 W195SAW0.1HA W195SAW0.1H0
W195HLW0.1HA W195HLW0.1H0 W195LTY0.1HA W195LTY0.1H0 W195PNY0.1HA W195PNY0.1H0

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Twelve Seas N-component of Wind at 2019/05

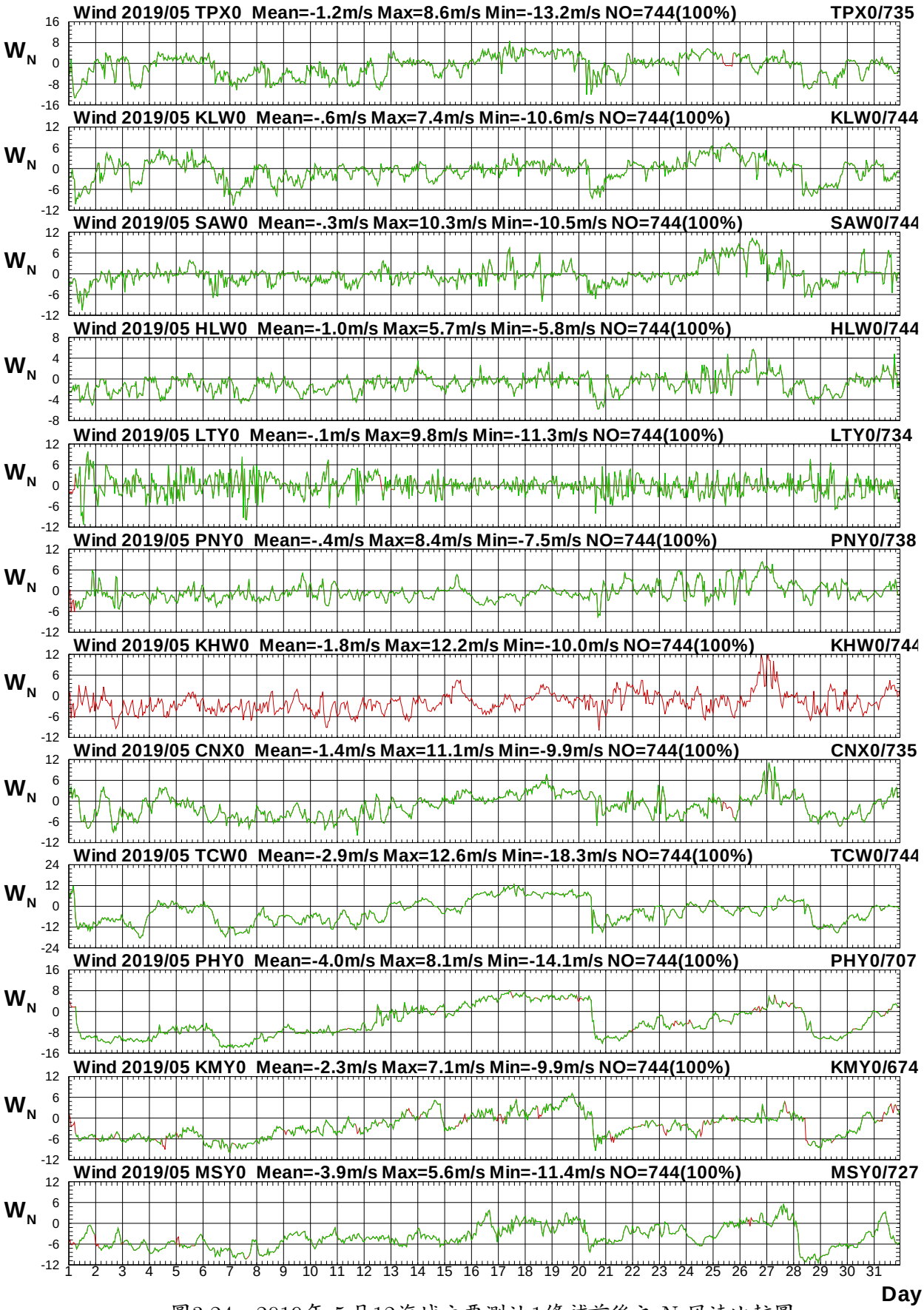

圖3.24　2019年 5月12海域主要測站1修補前後之 N-風速比較圖

W195TPX0.1HA W195TPX0.1H0 W195KLW0.1HA W195KLW0.1H0 W195SAW0.1HA W195SAW0.1H0
W195HLW0.1HA W195HLW0.1H0 W195LTY0.1HA W195LTY0.1H0 W195PNY0.1HA W195PNY0.1H0

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Twelve Seas Wind Speed at 2019/06

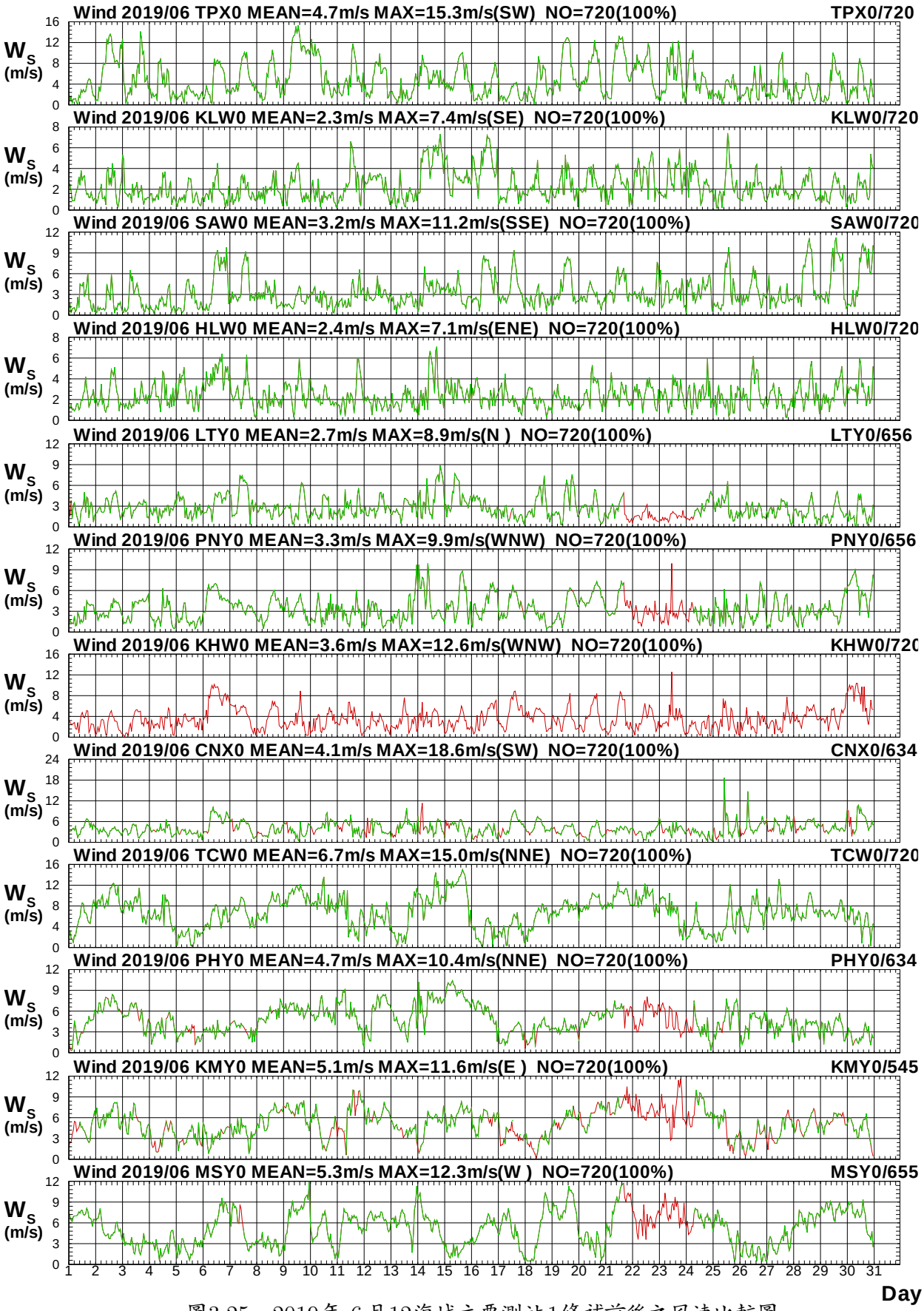

圖3.25　2019年 6月12海域主要測站1修補前後之風速比較圖

W196TPX0.1HA W196TPX0.1H0 W196KLW0.1HA W196KLW0.1H0 W196SAW0.1HA W196SAW0.1H0
W196HLW0.1HA W196HLW0.1H0 W196LTY0.1HA W196LTY0.1H0 W196PNY0.1HA W196PNY0.1H0

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Twelve Seas Wind Direction at 2019/06

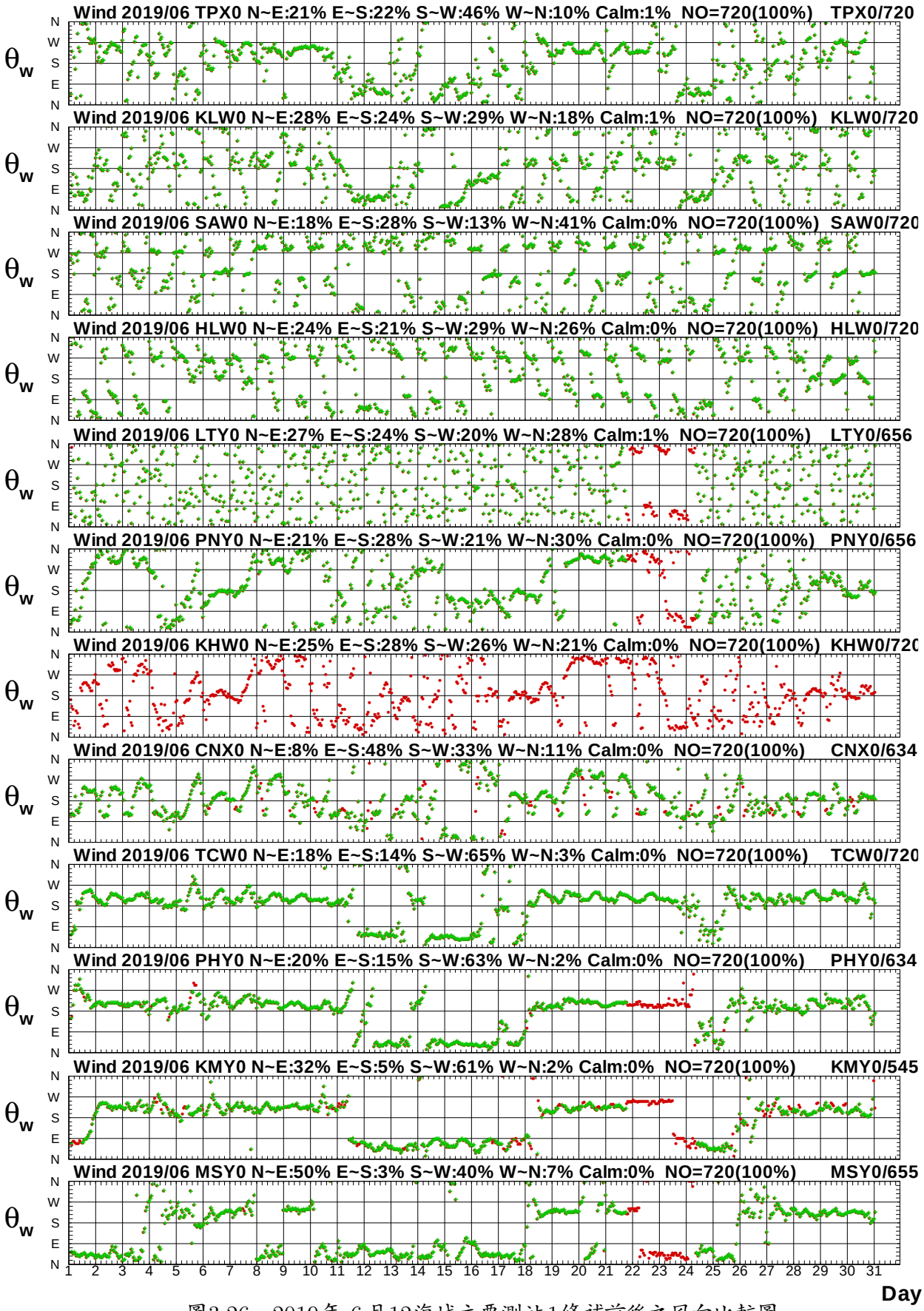

圖3.26　2019年 6月12海域主要測站1修補前後之風向比較圖

W196TPX0.1HA W196TPX0.1H0 W196KLW0.1HA W196KLW0.1H0 W196SAW0.1HA W196SAW0.1H0
W196HLW0.1HA W196HLW0.1H0 W196LTY0.1HA W196LTY0.1H0 W196PNY0.1HA W196PNY0.1H0

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Twelve Seas E-component of Wind at 2019/06

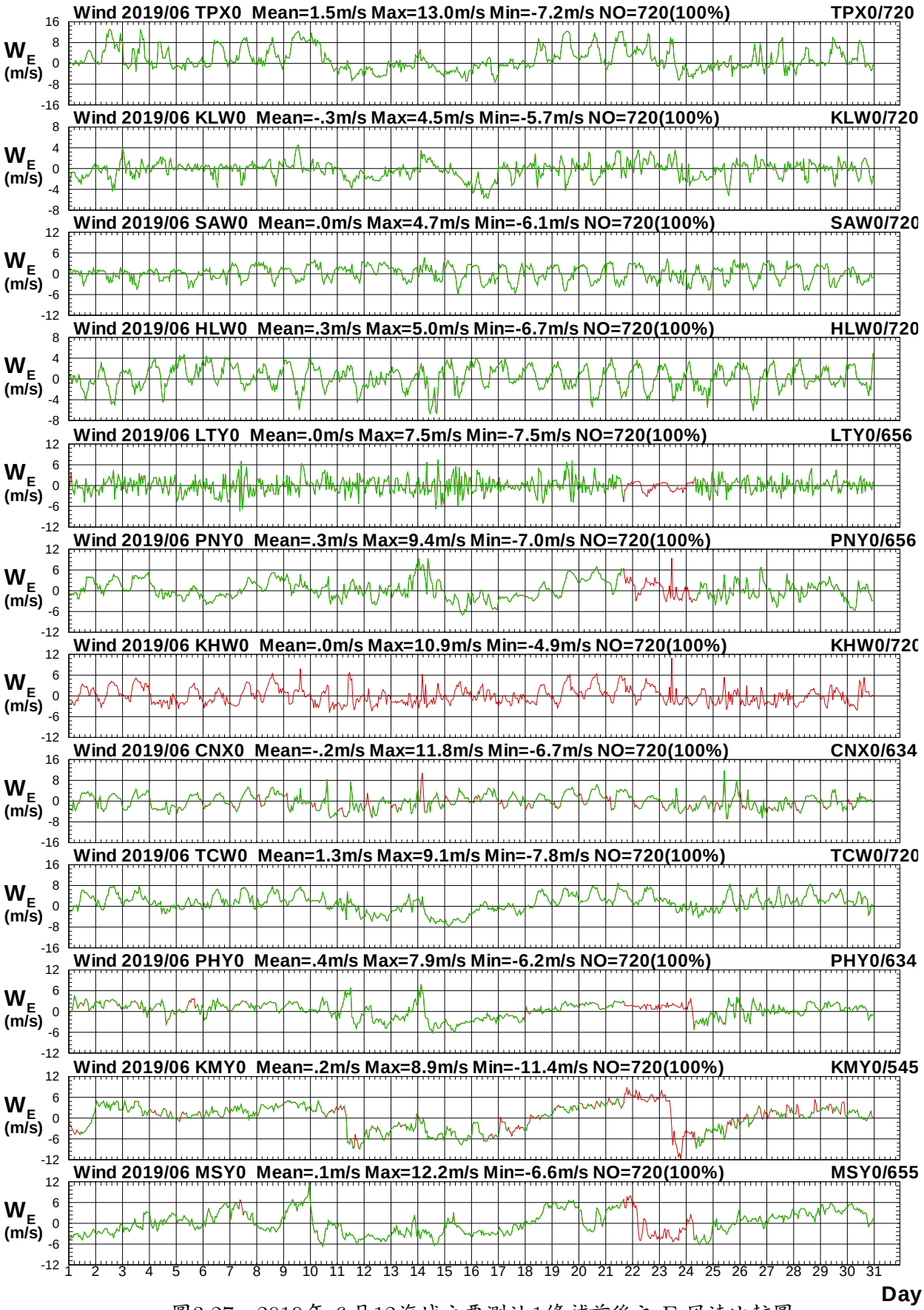

圖3.27　2019年 6月12海域主要測站1修補前後之 E-風速比較圖

W196TPX0.1HA W196TPX0.1H0 W196KLW0.1HA W196KLW0.1H0 W196SAW0.1HA W196SAW0.1H0
W196HLW0.1HA W196HLW0.1H0 W196LTY0.1HA W196LTY0.1H0 W196PNY0.1HA W196PNY0.1H0

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Twelve Seas N-component of Wind at 2019/06

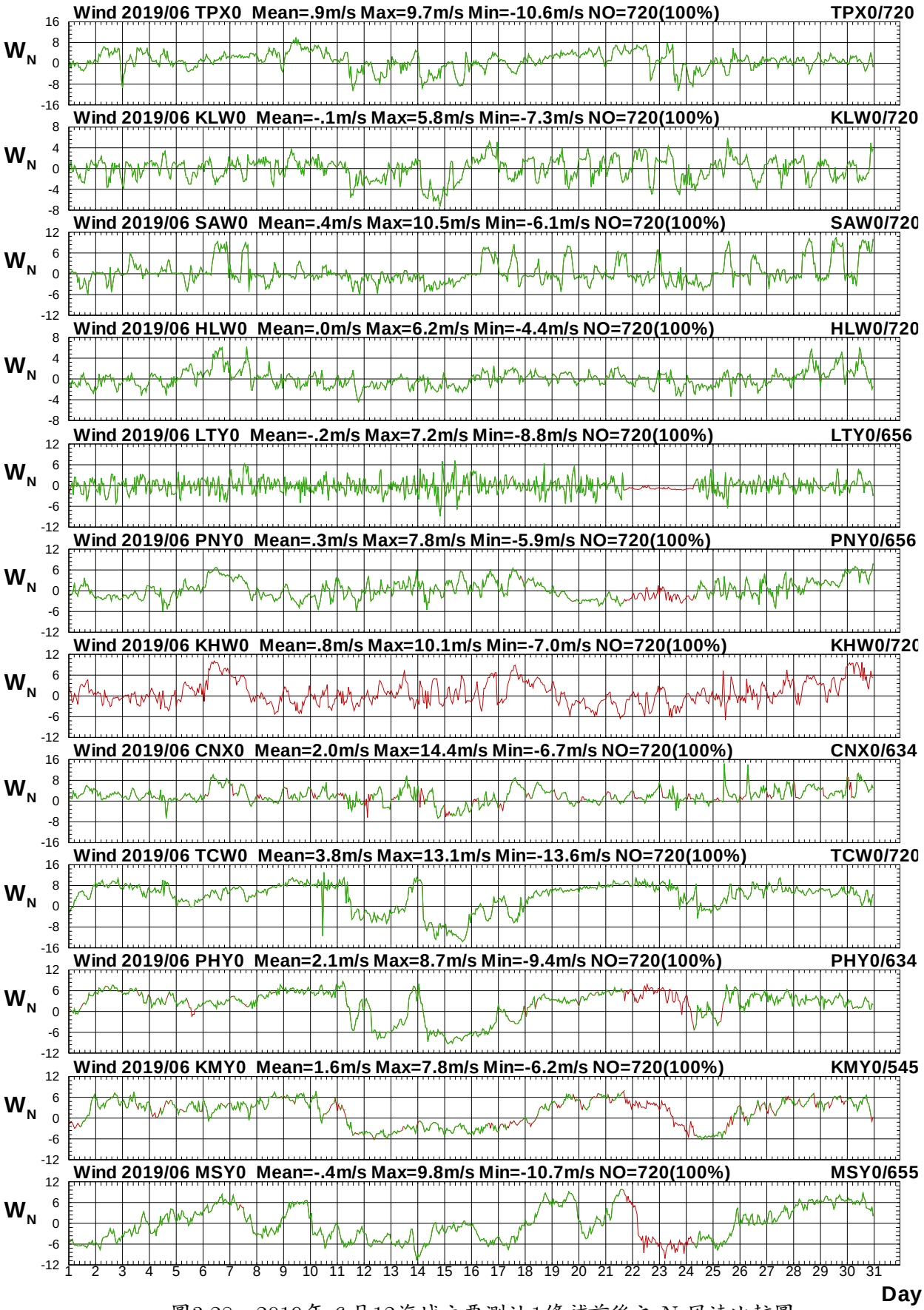

圖3.28　2019年 6月12海域主要測站1修補前後之 N-風速比較圖

W196TPX0.1HA W196TPX0.1H0 W196KLW0.1HA W196KLW0.1H0 W196SAW0.1HA W196SAW0.1H0
W196HLW0.1HA W196HLW0.1H0 W196LTY0.1HA W196LTY0.1H0 W196PNY0.1HA W196PNY0.1H0

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Twelve Seas Wind Speed at 2019/07

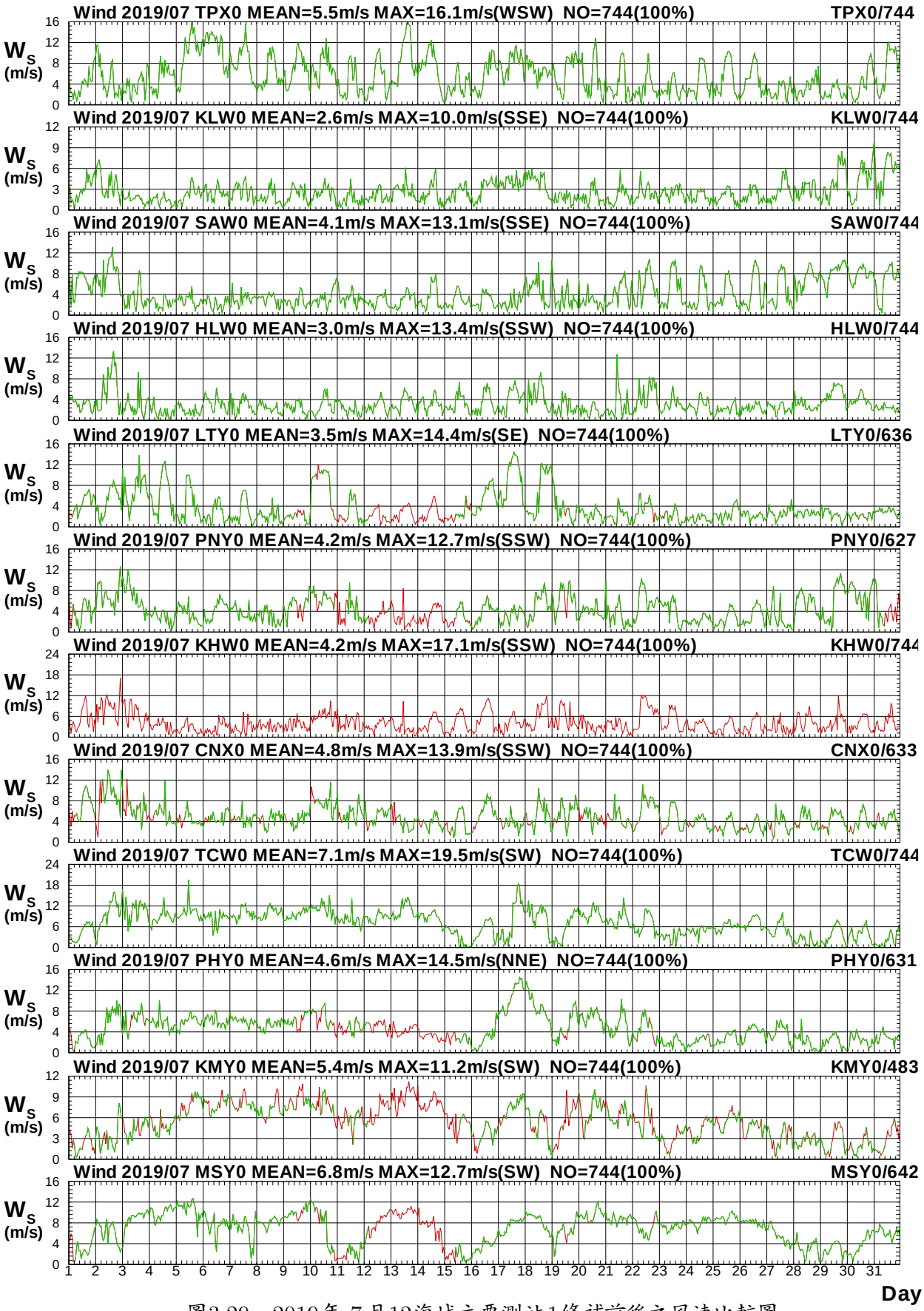

圖3.29　2019年 7月12海域主要測站1修補前後之風速比較圖

W197TPX0.1HA W197TPX0.1H0 W197KLW0.1HA W197KLW0.1H0 W197SAW0.1HA W197SAW0.1H0
W197HLW0.1HA W197HLW0.1H0 W197LTY0.1HA W197LTY0.1H0 W197PNY0.1HA W197PNY0.1H0

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Twelve Seas Wind Direction at 2019/07

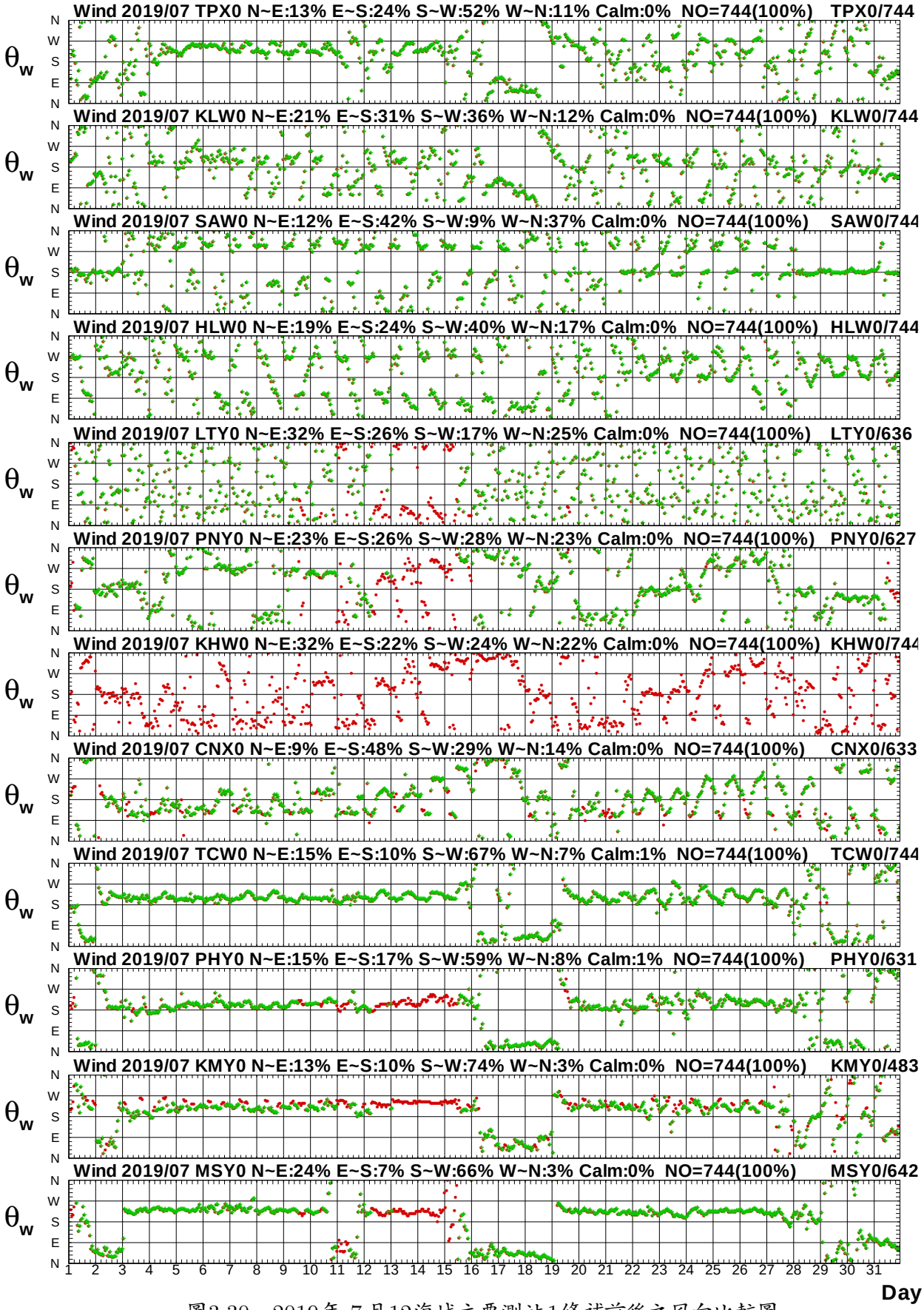

圖3.30　2019年 7月12海域主要測站1修補前後之風向比較圖

W197TPX0.1HA W197TPX0.1H0 W197KLW0.1HA W197KLW0.1H0 W197SAW0.1HA W197SAW0.1H0
W197HLW0.1HA W197HLW0.1H0 W197LTY0.1HA W197LTY0.1H0 W197PNY0.1HA W197PNY0.1H0

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Twelve Seas E-component of Wind at 2019/07

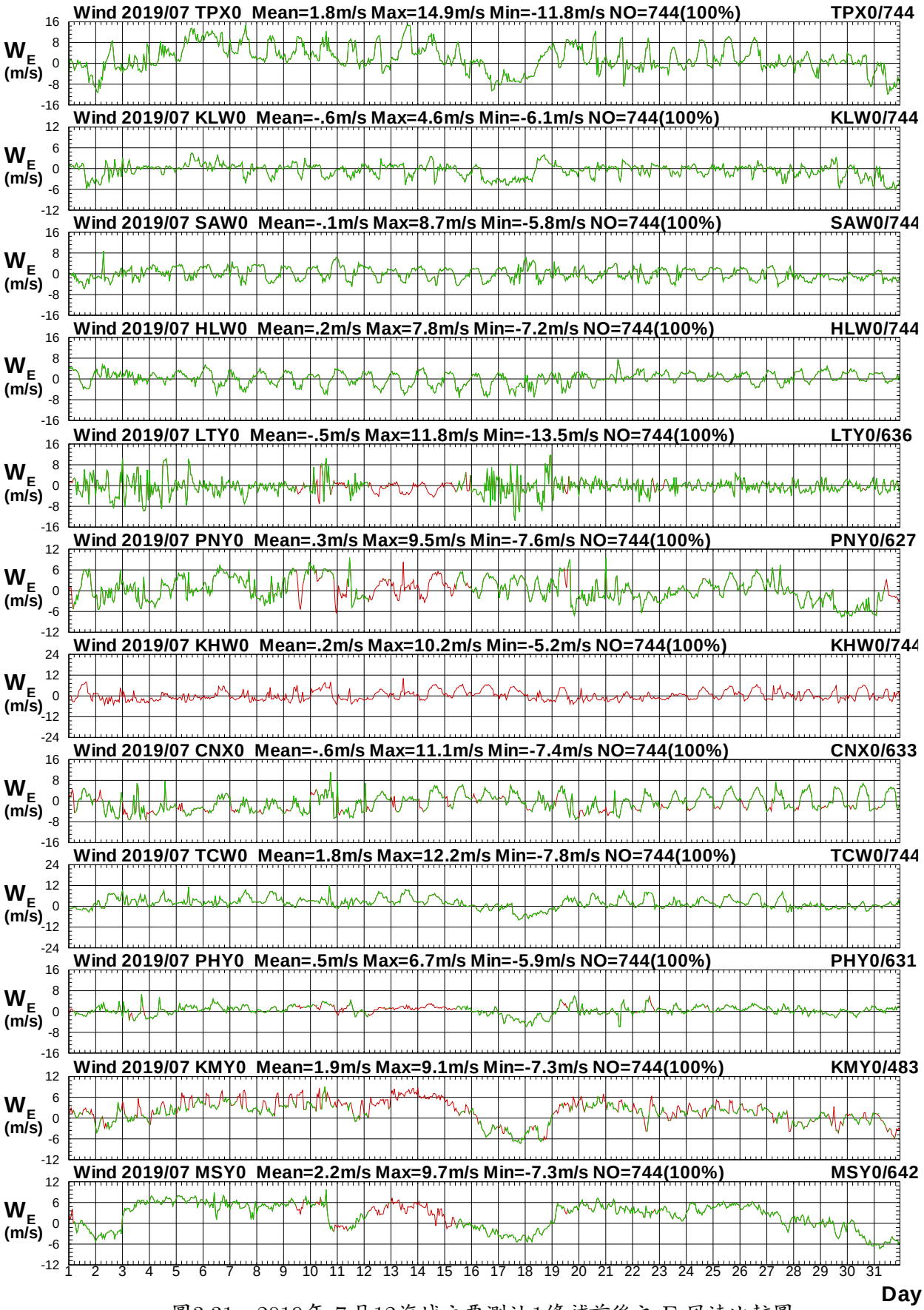

圖3.31　2019年 7月12海域主要測站1修補前後之 E-風速比較圖

W197TPX0.1HA W197TPX0.1H0 W197KLW0.1HA W197KLW0.1H0 W197SAW0.1HA W197SAW0.1H0
W197HLW0.1HA W197HLW0.1H0 W197LTY0.1HA W197LTY0.1H0 W197PNY0.1HA W197PNY0.1H0

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Twelve Seas N-component of Wind at 2019/07

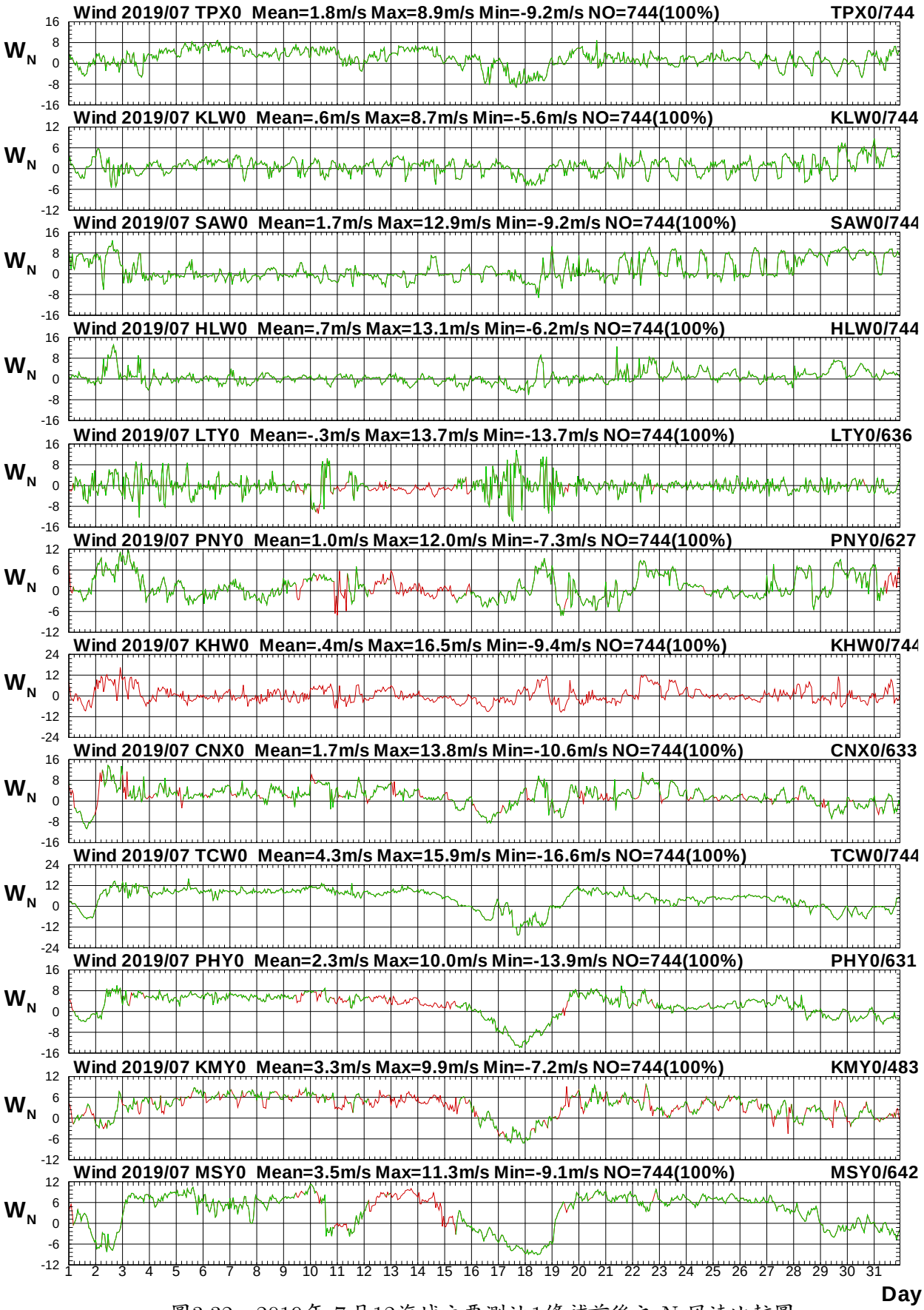

圖3.32　2019年 7月12海域主要測站1修補前後之 N-風速比較圖

W197TPX0.1HA W197TPX0.1H0 W197KLW0.1HA W197KLW0.1H0 W197SAW0.1HA W197SAW0.1H0
W197HLW0.1HA W197HLW0.1H0 W197LTY0.1HA W197LTY0.1H0 W197PNY0.1HA W197PNY0.1H0

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Twelve Seas Wind Speed at 2019/08

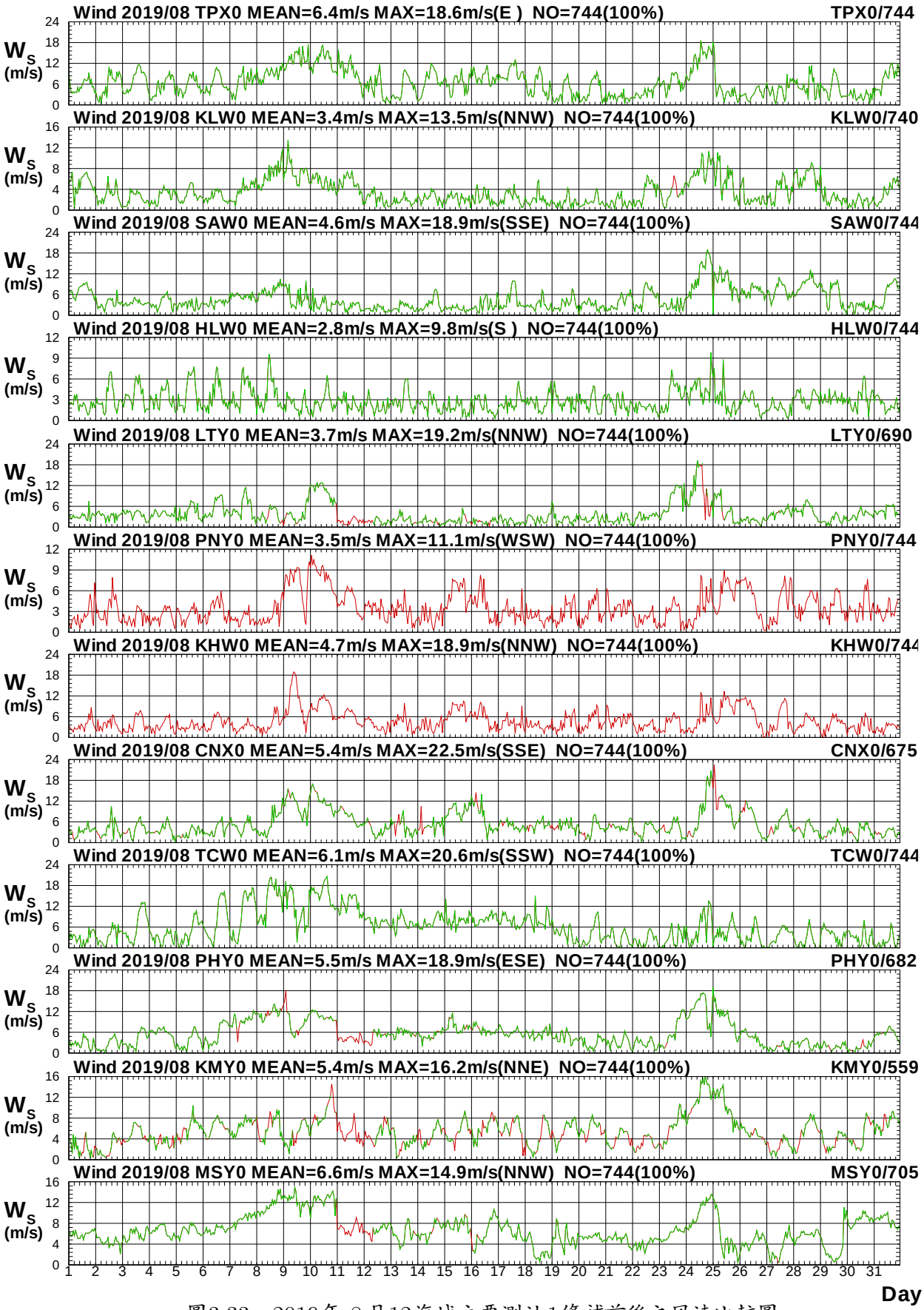

圖3.33　2019年 8月12海域主要測站1修補前後之風速比較圖

W198TPX0.1HA W198TPX0.1H0 W198KLW0.1HA W198KLW0.1H0 W198SAW0.1HA W198SAW0.1H0
W198HLW0.1HA W198HLW0.1H0 W198LTY0.1HA W198LTY0.1H0 W198PNY0.1HA W198PNY0.1H0

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Twelve Seas Wind Direction at 2019/08

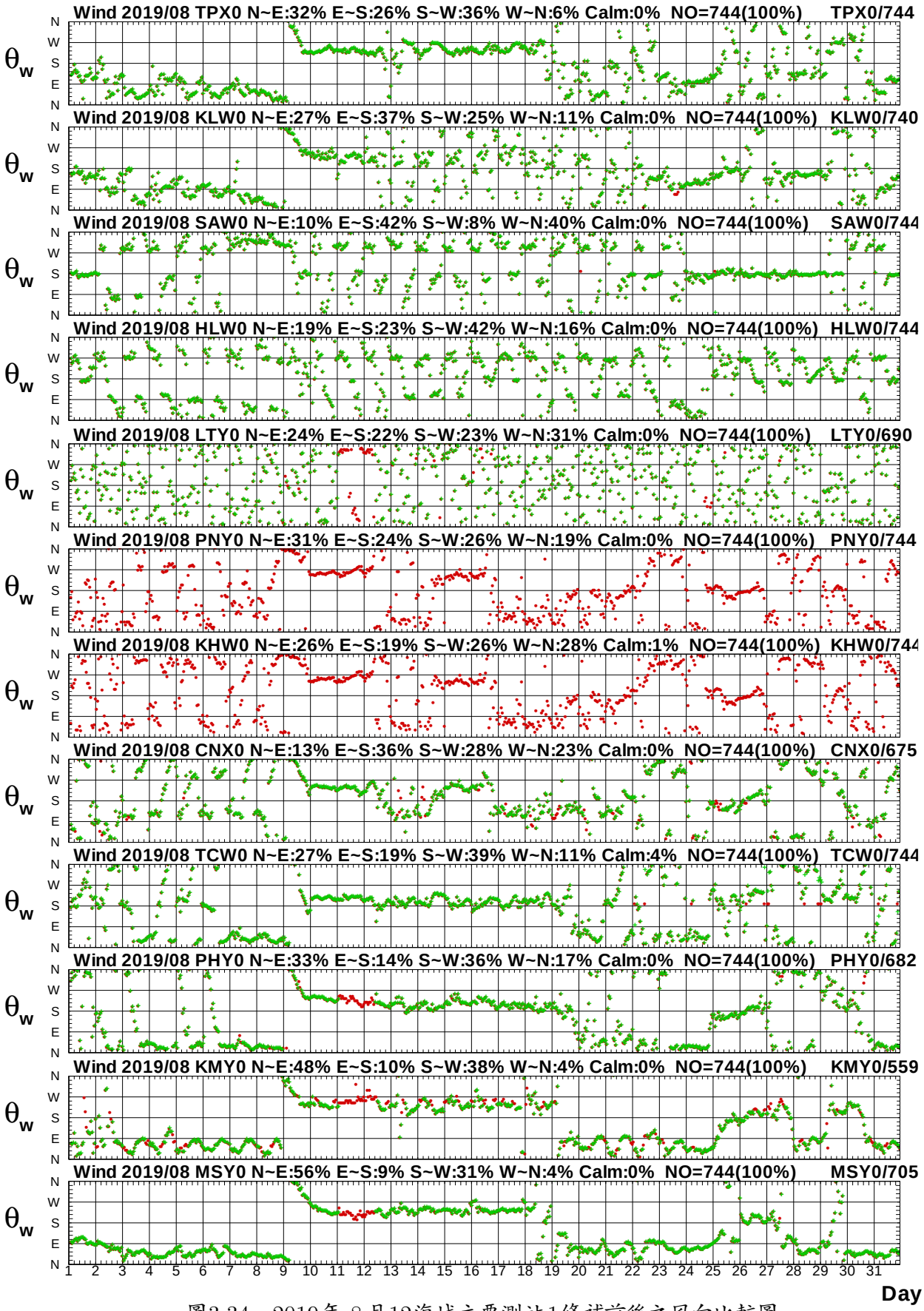

圖3.34　2019年 8月12海域主要測站1修補前後之風向比較圖

W198TPX0.1HA W198TPX0.1H0 W198KLW0.1HA W198KLW0.1H0 W198SAW0.1HA W198SAW0.1H0
W198HLW0.1HA W198HLW0.1H0 W198LTY0.1HA W198LTY0.1H0 W198PNY0.1HA W198PNY0.1H0

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Twelve Seas E-component of Wind at 2019/08

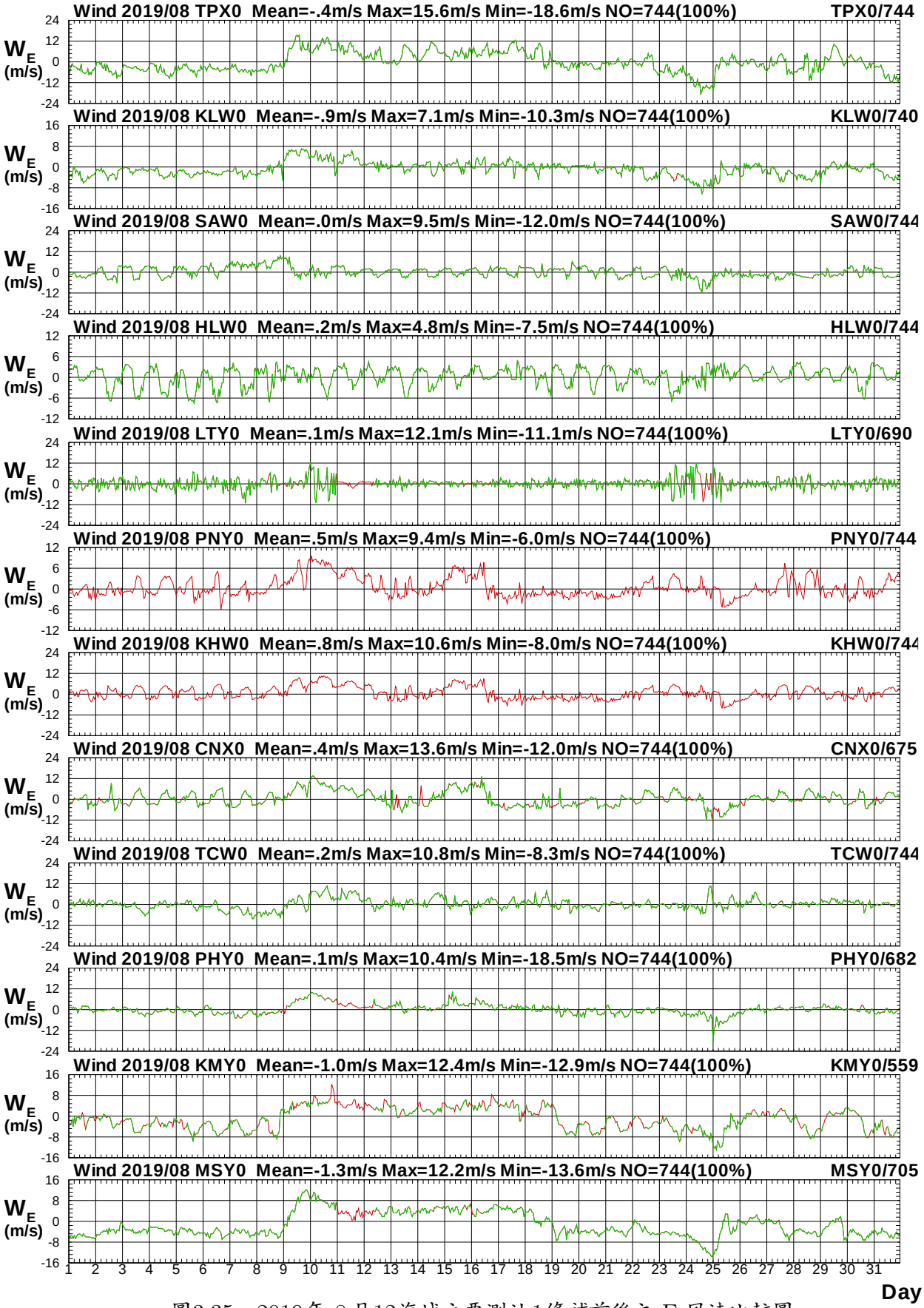

圖3.35　2019年 8月12海域主要測站1修補前後之 E-風速比較圖

W198TPX0.1HA W198TPX0.1H0 W198KLW0.1HA W198KLW0.1H0 W198SAW0.1HA W198SAW0.1H0
W198HLW0.1HA W198HLW0.1H0 W198LTY0.1HA W198LTY0.1H0 W198PNY0.1HA W198PNY0.1H0

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Twelve Seas N-component of Wind at 2019/08

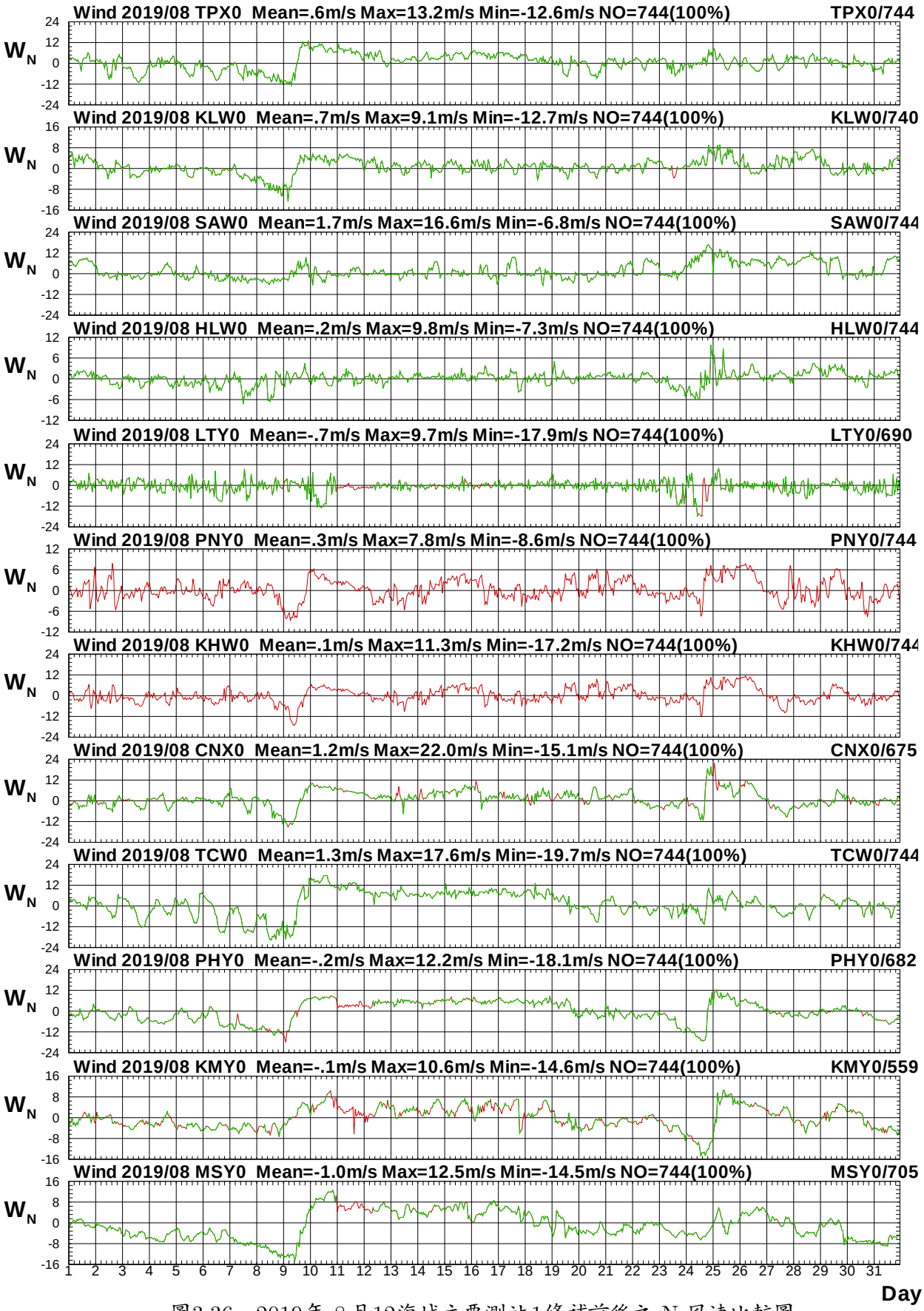

圖3.36　2019年 8 月12海域主要測站1修補前後之 N-風速比較圖

W198TPX0.1HA W198TPX0.1H0 W198KLW0.1HA W198KLW0.1H0 W198SAW0.1HA W198SAW0.1H0
W198HLW0.1HA W198HLW0.1H0 W198LTY0.1HA W198LTY0.1H0 W198PNY0.1HA W198PNY0.1H0

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Twelve Seas Wind Speed at 2019/09

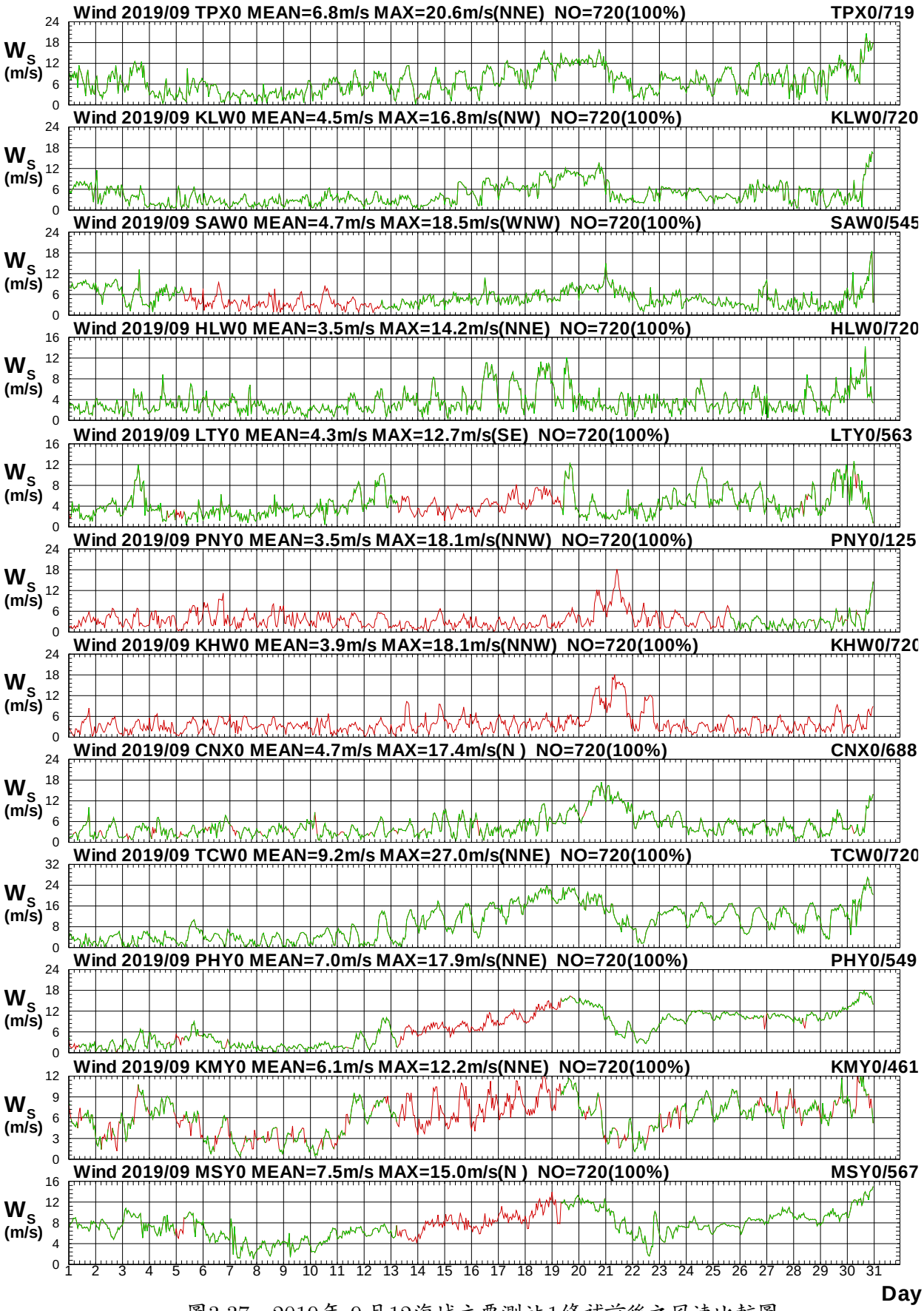

圖3.37　2019年 9月12海域主要測站1修補前後之風速比較圖

W199TPX0.1HA W199TPX0.1H0 W199KLW0.1HA W199KLW0.1H0 W199SAW0.1HA W199SAW0.1H0
W199HLW0.1HA W199HLW0.1H0 W199LTY0.1HA W199LTY0.1H0 W199PNY0.1HA W199PNY0.1H0

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Twelve Seas Wind Direction at 2019/09

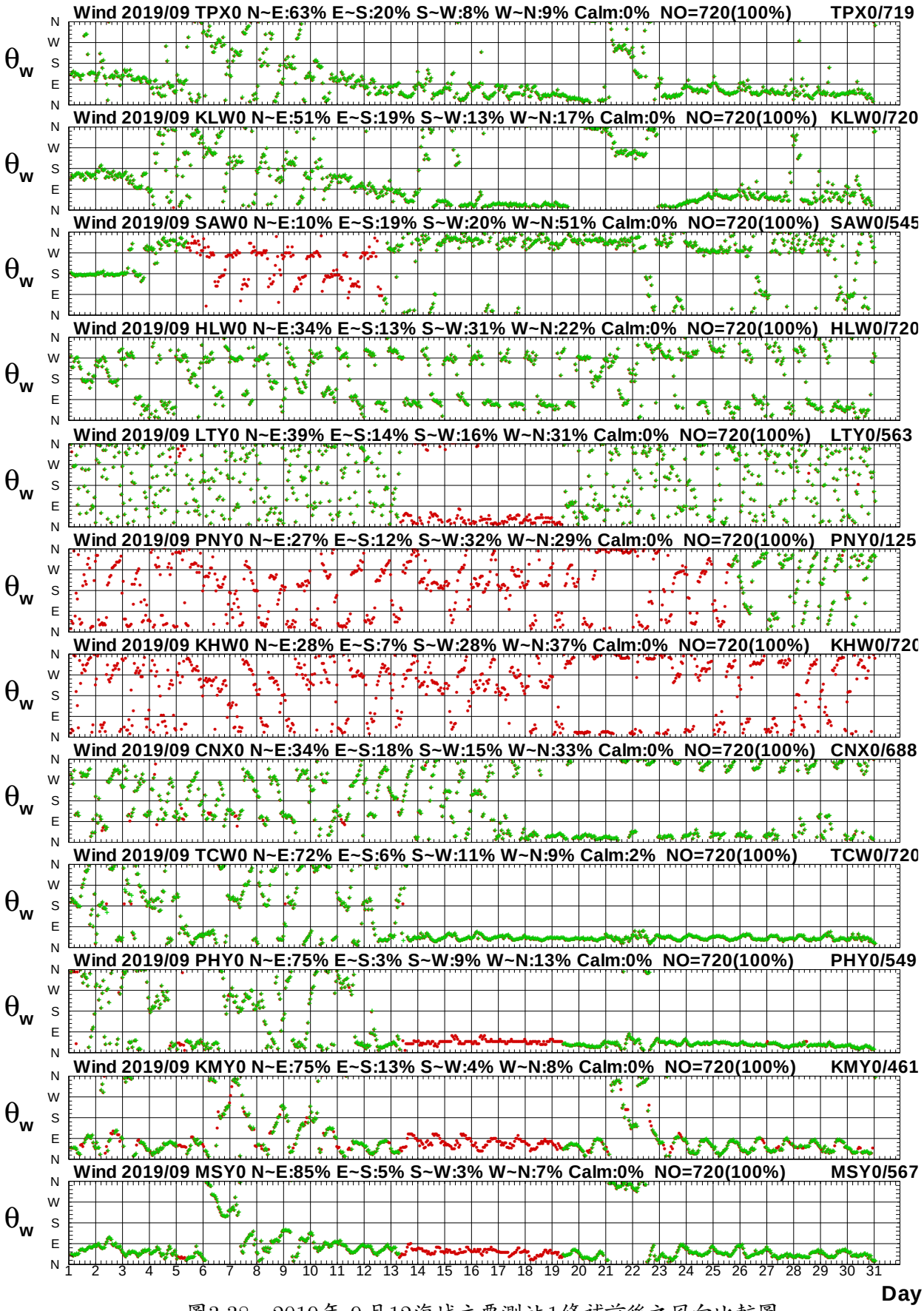

圖3.38　2019年 9月12海域主要測站1修補前後之風向比較圖

W199TPX0.1HA W199TPX0.1H0 W199KLW0.1HA W199KLW0.1H0 W199SAW0.1HA W199SAW0.1H0
W199HLW0.1HA W199HLW0.1H0 W199LTY0.1HA W199LTY0.1H0 W199PNY0.1HA W199PNY0.1H0

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Twelve Seas E-component of Wind at 2019/09

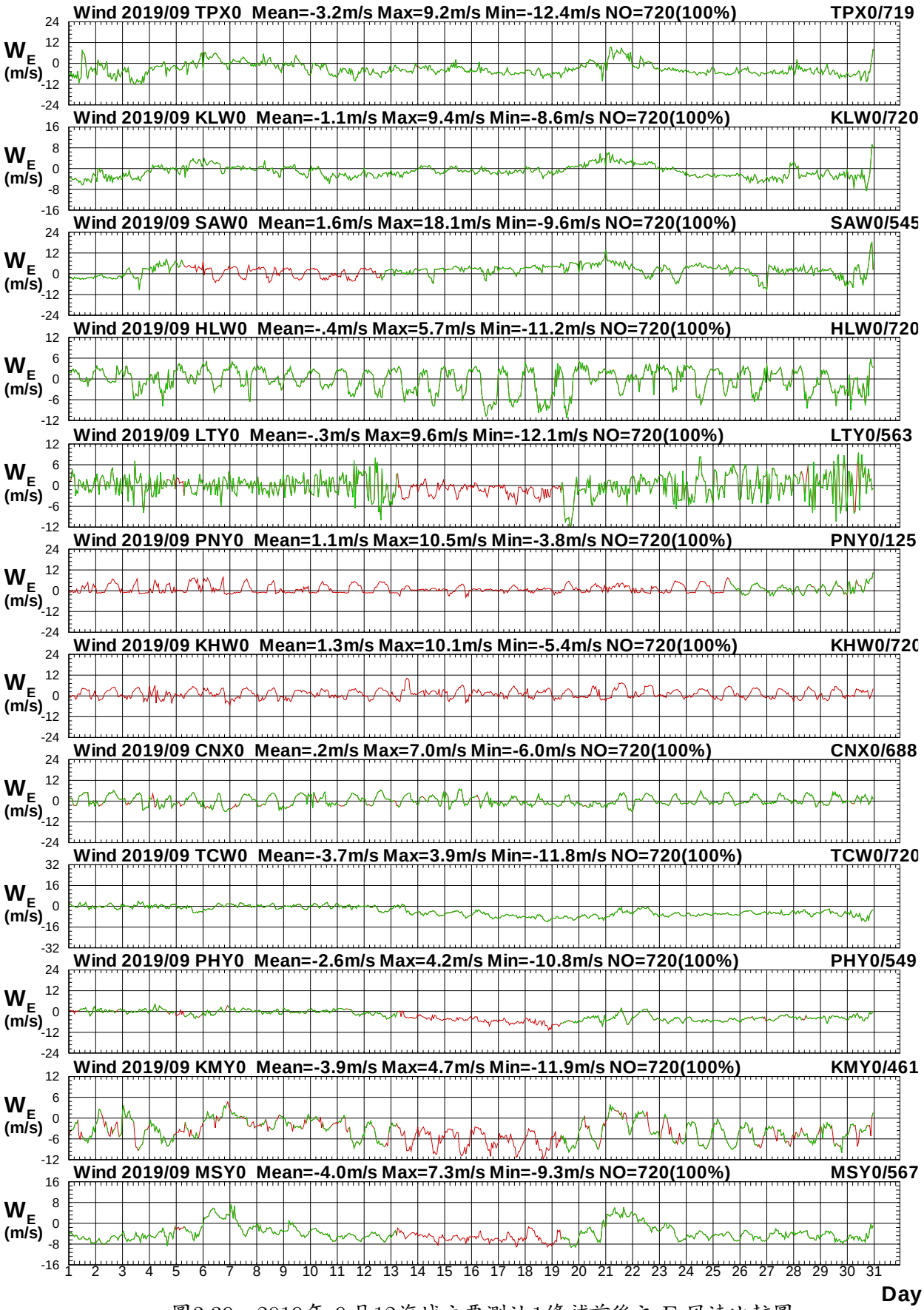

圖3.39　2019年 9月12海域主要測站1修補前後之 E-風速比較圖

W199TPX0.1HA W199TPX0.1H0 W199KLW0.1HA W199KLW0.1H0 W199SAW0.1HA W199SAW0.1H0
W199HLW0.1HA W199HLW0.1H0 W199LTY0.1HA W199LTY0.1H0 W199PNY0.1HA W199PNY0.1H0

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Twelve Seas N-component of Wind at 2019/09

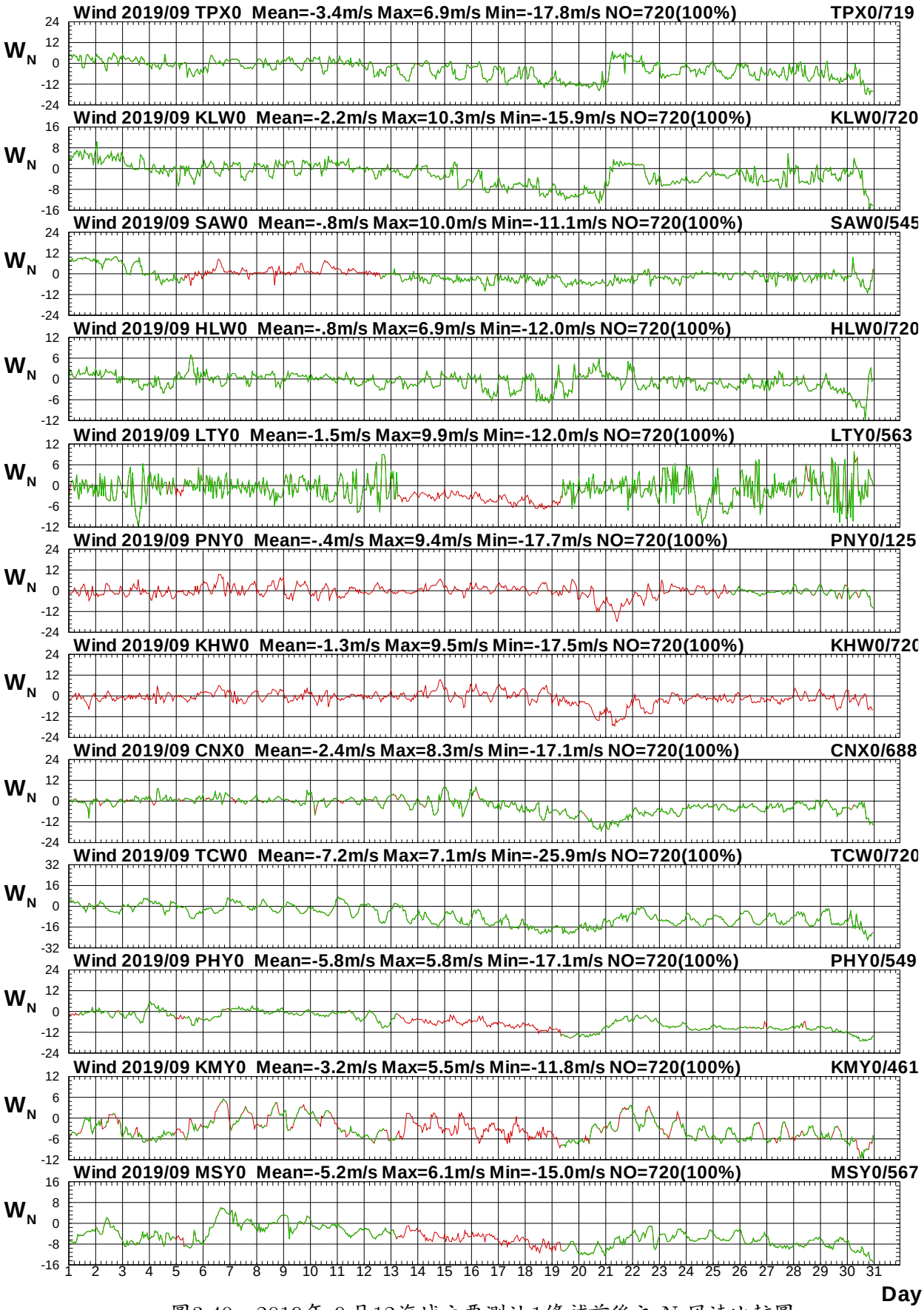

圖3.40　2019年 9月12海域主要測站1修補前後之 N-風速比較圖

W199TPX0.1HA W199TPX0.1H0 W199KLW0.1HA W199KLW0.1H0 W199SAW0.1HA W199SAW0.1H0
W199HLW0.1HA W199HLW0.1H0 W199LTY0.1HA W199LTY0.1H0 W199PNY0.1HA W199PNY0.1H0

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Twelve Seas Wind Speed at 2019/10

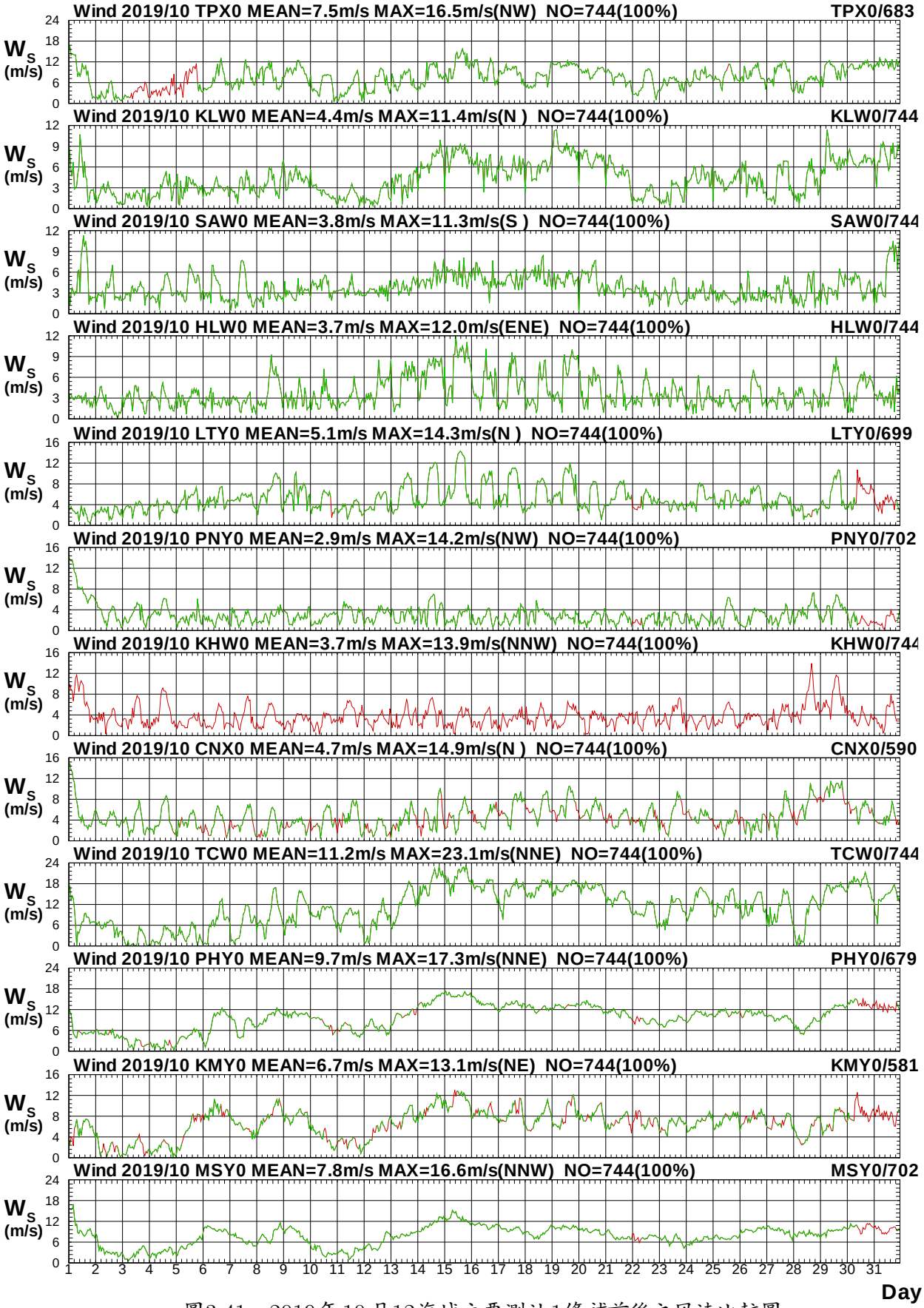

圖3.41　2019年10月12海域主要測站1修補前後之風速比較圖

W19ATPX0.1HA W19ATPX0.1H0 W19AKLW0.1HA W19AKLW0.1H0 W19ASAW0.1HA W19ASAW0.1H0
W19AHLW0.1HA W19AHLW0.1H0 W19ALTY0.1HA W19ALTY0.1H0 W19APNY0.1HA W19APNY0.1H0

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Twelve Seas Wind Direction at 2019/10

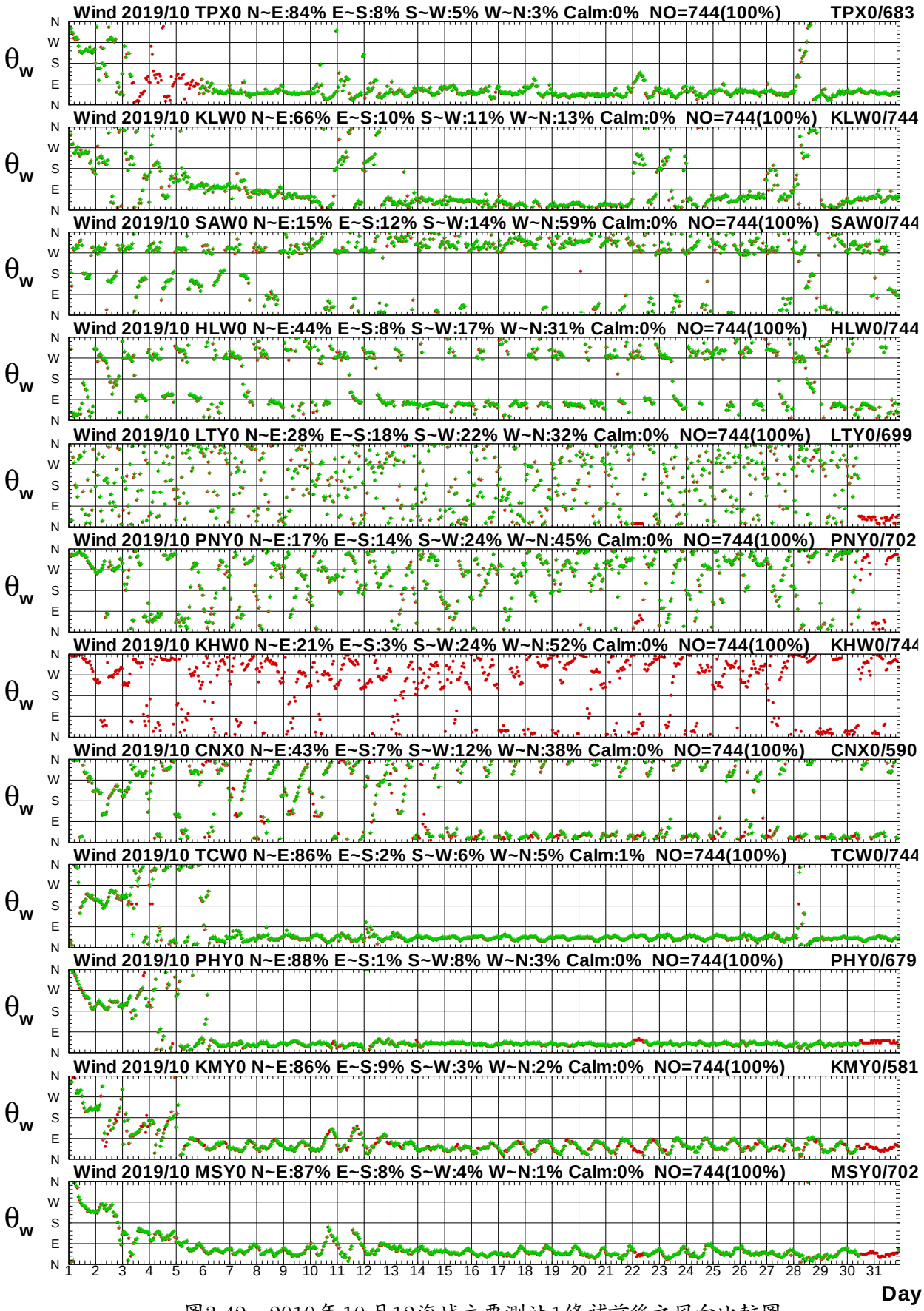

圖3.42　2019年10月12海域主要測站1修補前後之風向比較圖

W19ATPX0.1HA W19ATPX0.1H0 W19AKLW0.1HA W19AKLW0.1H0 W19ASAW0.1HA W19ASAW0.1H0
W19AHLW0.1HA W19AHLW0.1H0 W19ALTY0.1HA W19ALTY0.1H0 W19APNY0.1HA W19APNY0.1H0

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Twelve Seas E-component of Wind at 2019/10

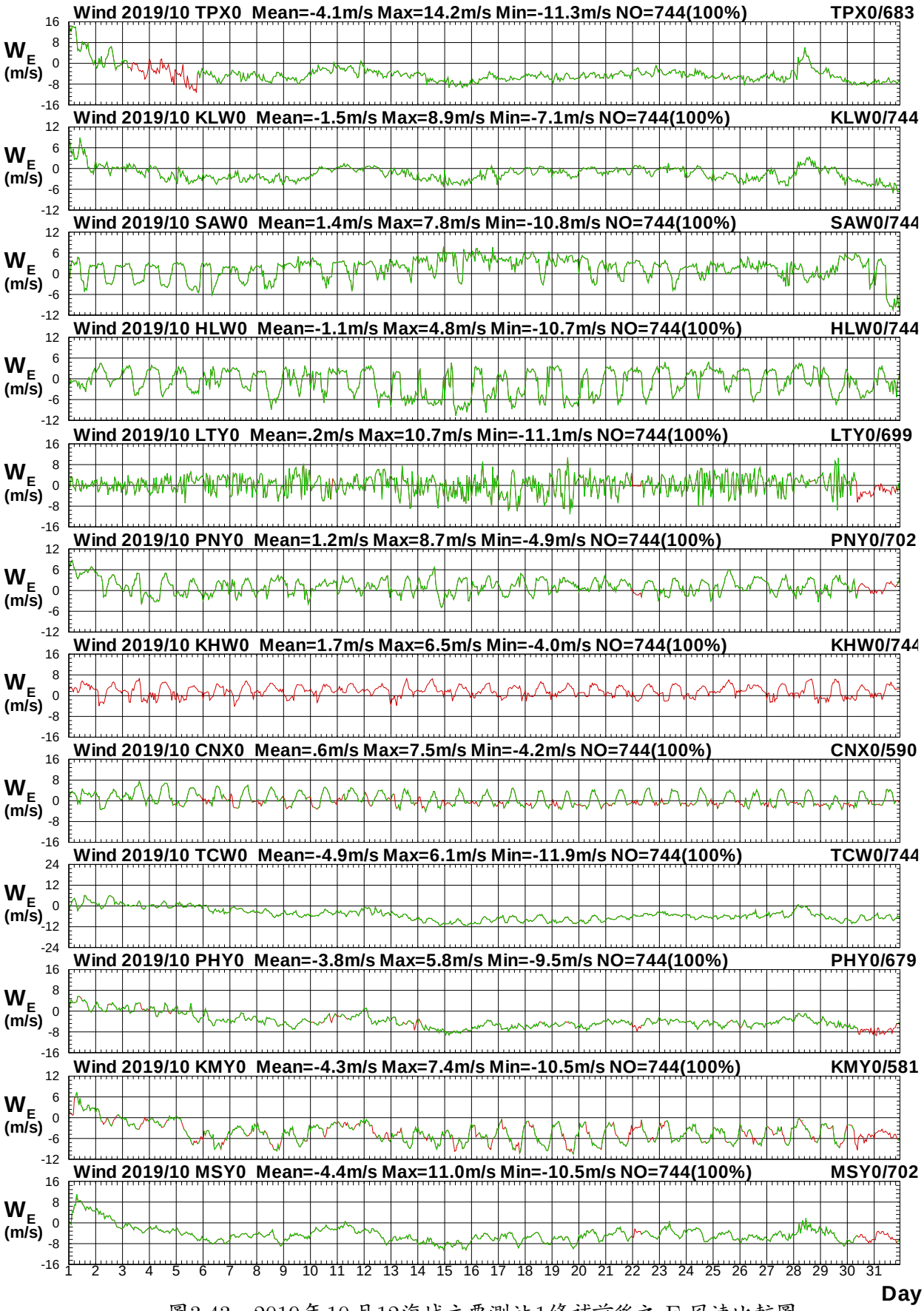

圖3.43　2019年10月12海域主要測站1修補前後之 E-風速比較圖

W19ATPX0.1HA W19ATPX0.1H0 W19AKLW0.1HA W19AKLW0.1H0 W19ASAW0.1HA W19ASAW0.1H0
W19AHLW0.1HA W19AHLW0.1H0 W19ALTY0.1HA W19ALTY0.1H0 W19APNY0.1HA W19APNY0.1H0

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Twelve Seas N-component of Wind at 2019/10

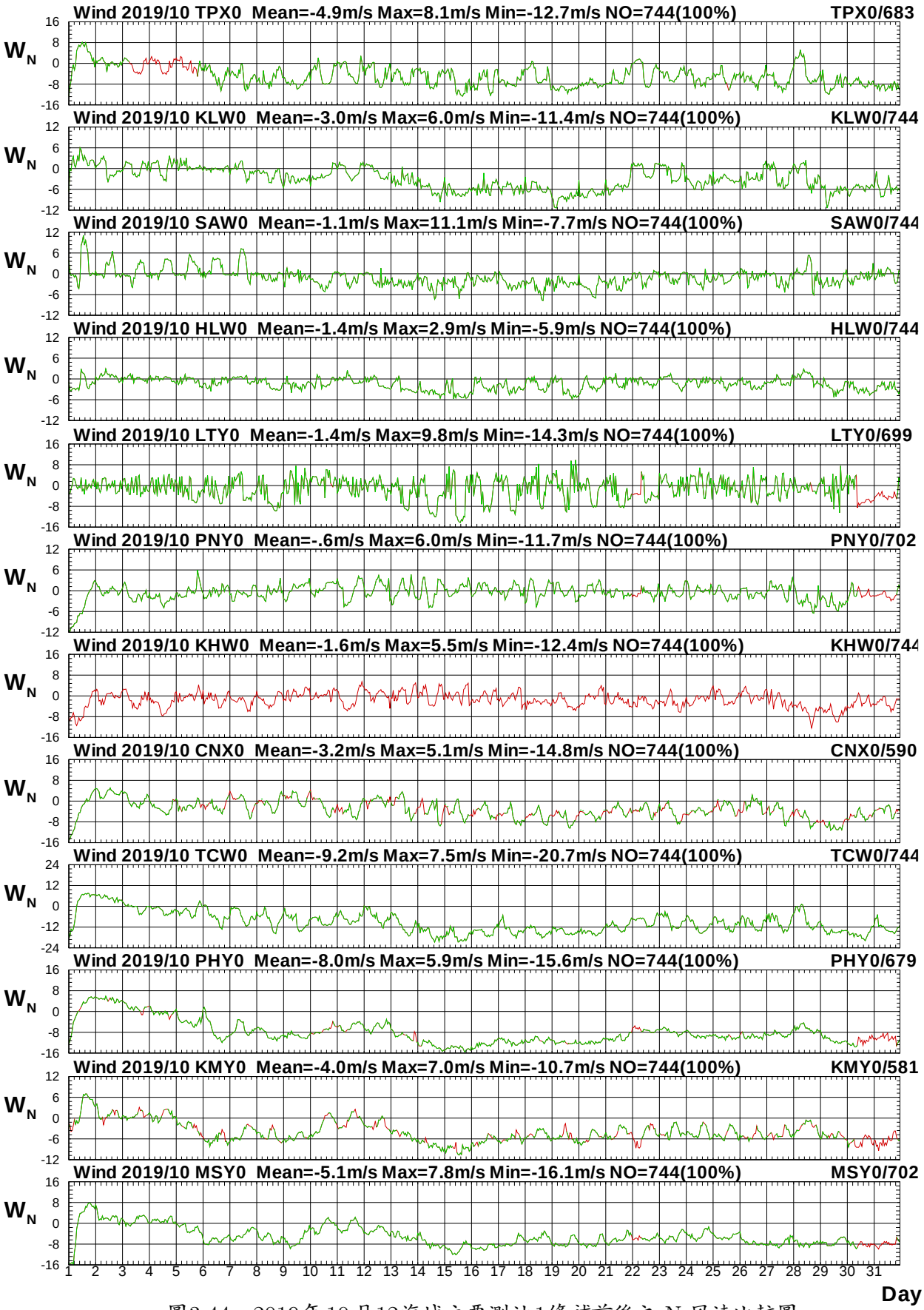

圖3.44　2019年10月12海域主要測站1修補前後之 N-風速比較圖

W19ATPX0.1HA W19ATPX0.1H0 W19AKLW0.1HA W19AKLW0.1H0 W19ASAW0.1HA W19ASAW0.1H0
W19AHLW0.1HA W19AHLW0.1H0 W19ALTY0.1HA W19ALTY0.1H0 W19APNY0.1HA W19APNY0.1H0

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Twelve Seas Wind Speed at 2019/11

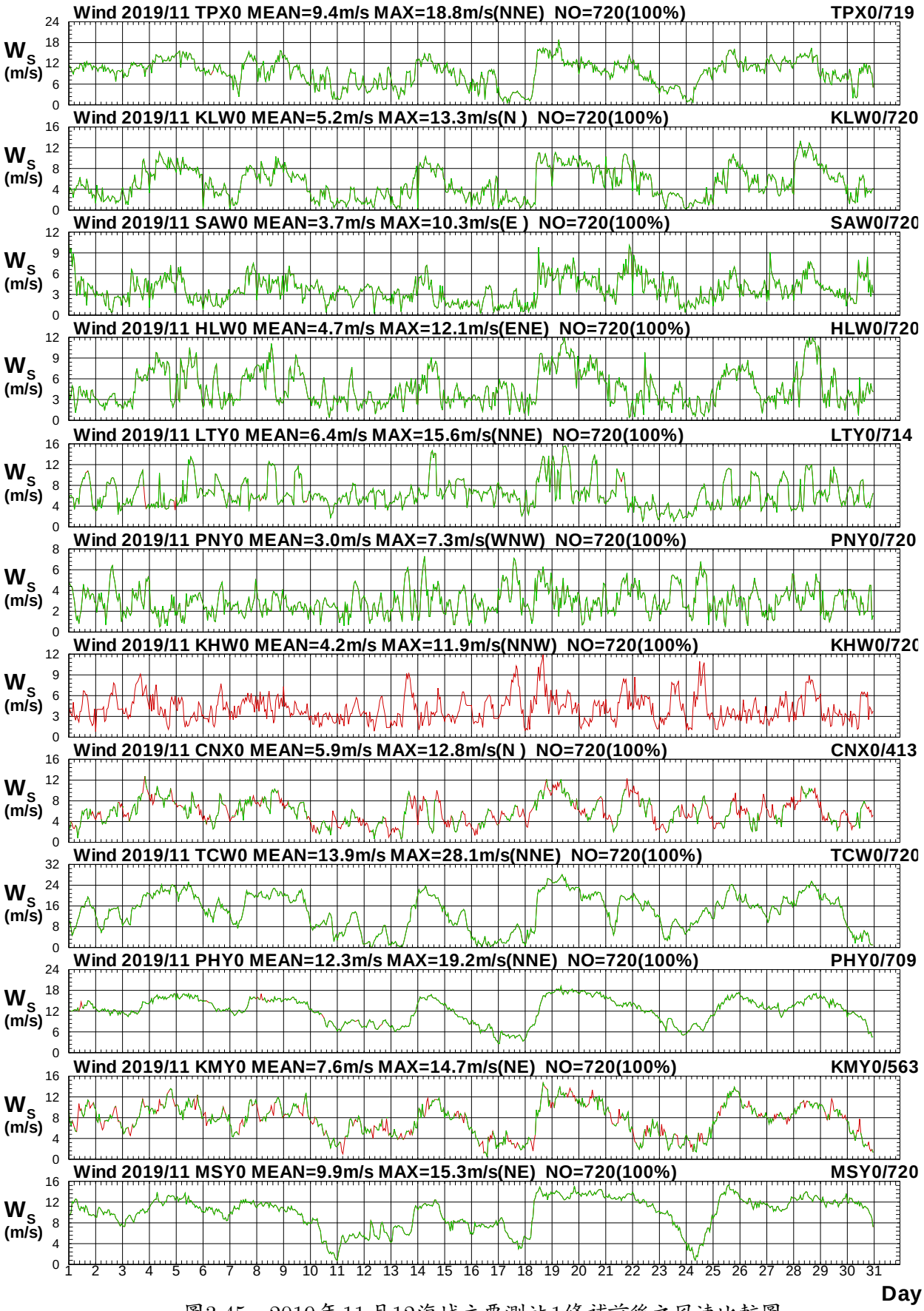

圖3.45　2019年11月12海域主要測站1修補前後之風速比較圖

W19BTPX0.1HA W19BTPX0.1H0 W19BKLW0.1HA W19BKLW0.1H0 W19BSAW0.1HA W19BSAW0.1H0
W19BHLW0.1HA W19BHLW0.1H0 W19BLTY0.1HA W19BLTY0.1H0 W19BPNY0.1HA W19BPNY0.1H0

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Twelve Seas Wind Direction at 2019/11

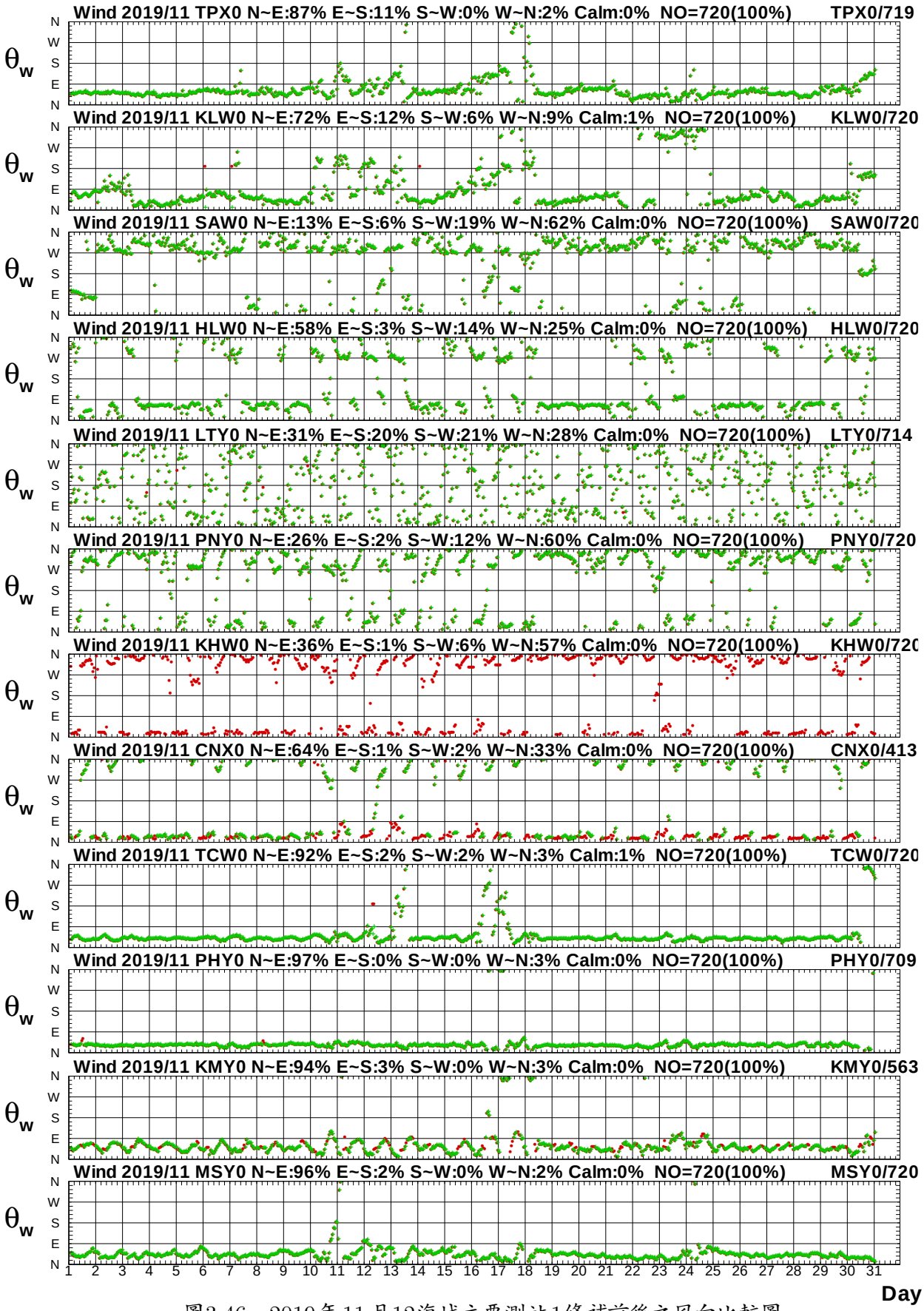

圖3.46　2019年11月12海域主要測站1修補前後之風向比較圖

W19BTPX0.1HA W19BTPX0.1H0 W19BKLW0.1HA W19BKLW0.1H0 W19BSAW0.1HA W19BSAW0.1H0
W19BHLW0.1HA W19BHLW0.1H0 W19BLTY0.1HA W19BLTY0.1H0 W19BPNY0.1HA W19BPNY0.1H0

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Twelve Seas E-component of Wind at 2019/11

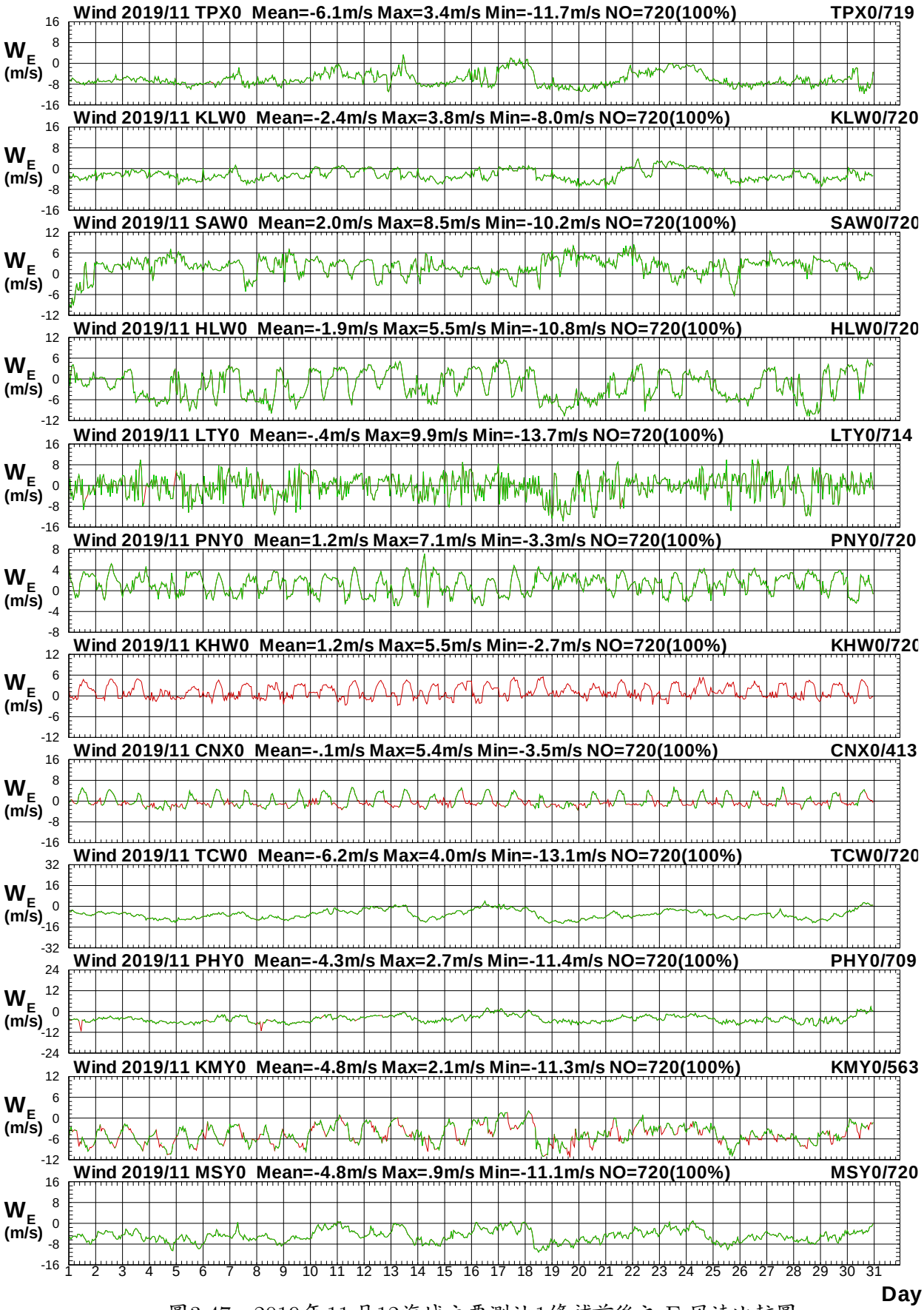

圖3.47　2019年11月12海域主要測站1修補前後之 E-風速比較圖

W19BTPX0.1HA W19BTPX0.1H0 W19BKLW0.1HA W19BKLW0.1H0 W19BSAW0.1HA W19BSAW0.1H0
W19BHLW0.1HA W19BHLW0.1H0 W19BLTY0.1HA W19BLTY0.1H0 W19BPNY0.1HA W19BPNY0.1H0

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Twelve Seas N-component of Wind at 2019/11

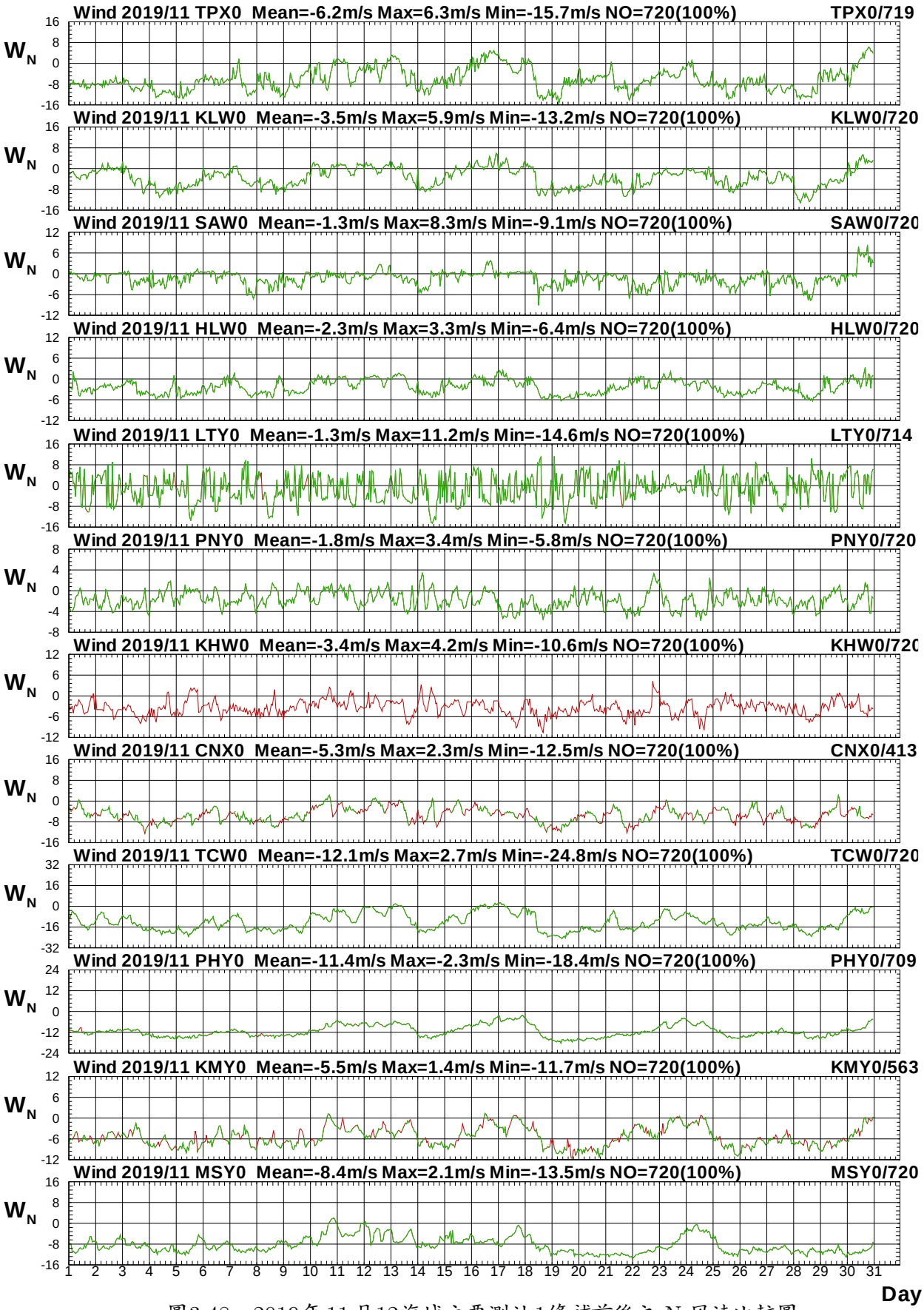

圖3.48　2019年11月12海域主要測站1修補前後之 N-風速比較圖

W19BTPX0.1HA W19BTPX0.1H0 W19BKLW0.1HA W19BKLW0.1H0 W19BSAW0.1HA W19BSAW0.1H0
W19BHLW0.1HA W19BHLW0.1H0 W19BLTY0.1HA W19BLTY0.1H0 W19BPNY0.1HA W19BPNY0.1H0

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第四章 2019 年 12 海域風力主要測站 1 修補前後風力向量分佈圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Distribution of Wind Vectores

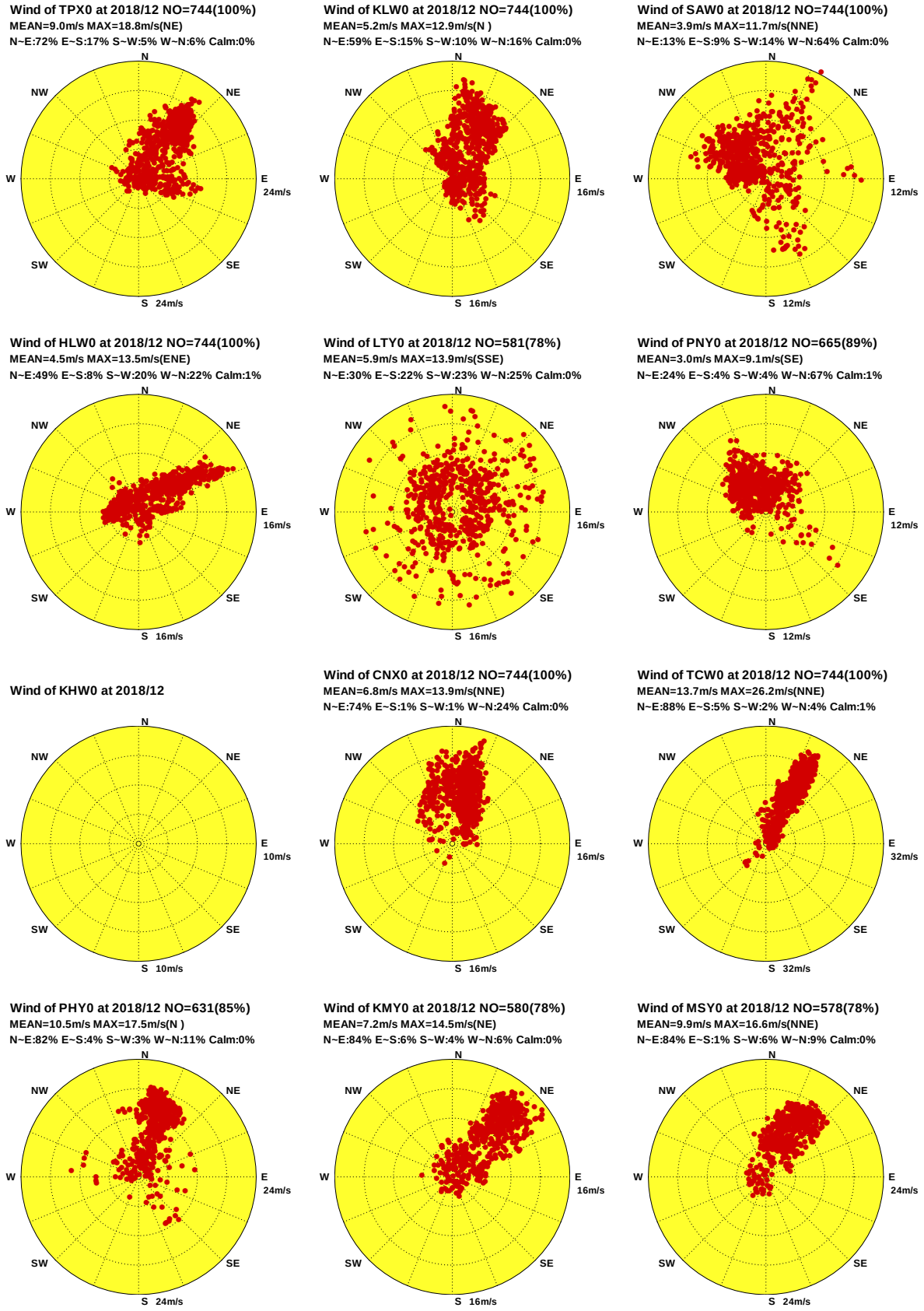

圖4.1a 2018年12月12海域主要測站1修補前觀測風向量分佈圖

W18CTPX0.1H0 W18CKLW0.1H0 W18CSAW0.1H0 W18CHLW0.1H0 W18CLTY0.1H0 W18CPNY0.1H0
W18CKHW0.1H0 W18CCNX0.1H0 W18CTCW0.1H0 W18CPHY0.1H0 W18CKMY0.1H0 W18CMSY0.1H0

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Distribution of Wind Vectores

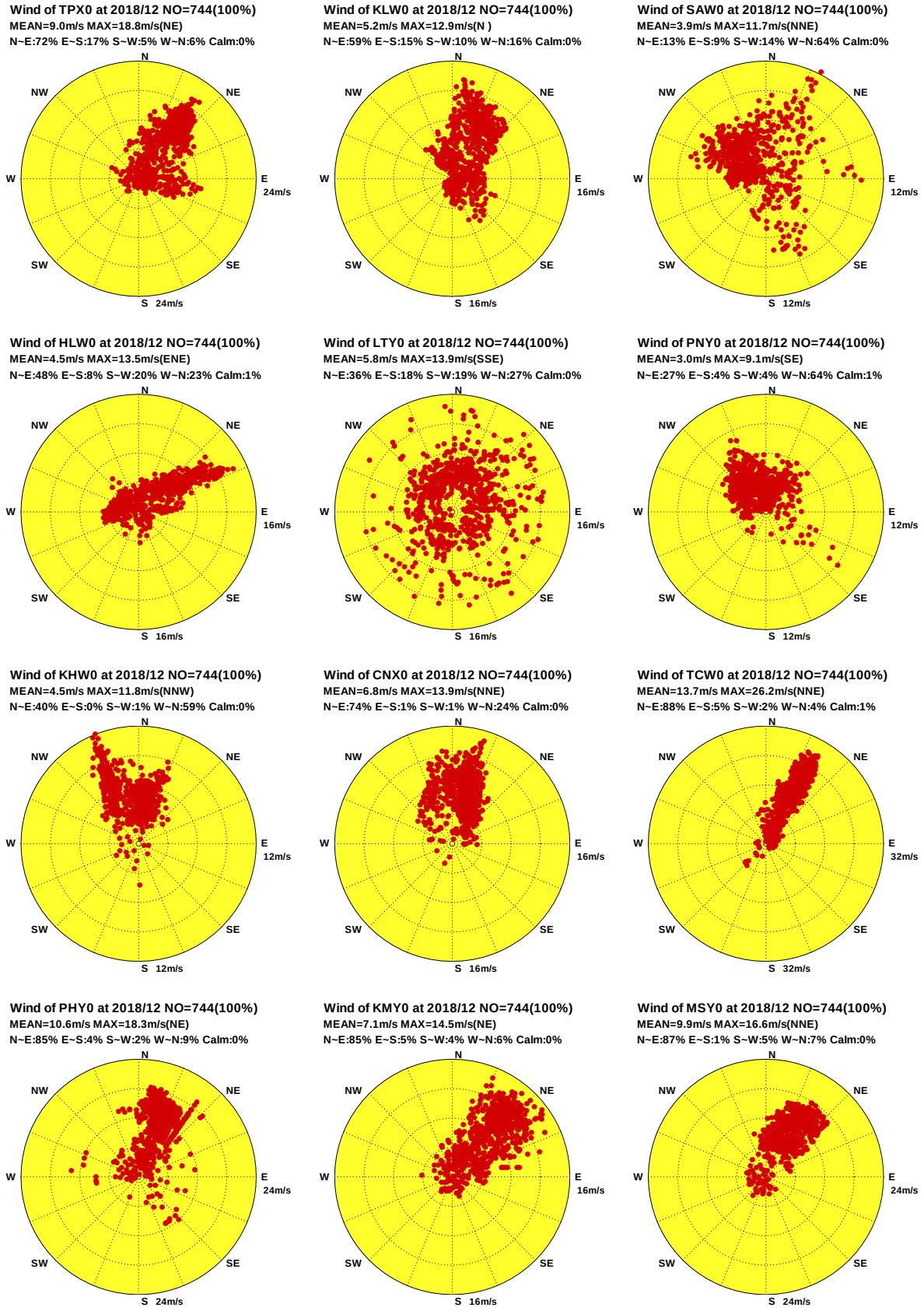

圖4.1b 2018年12月12海域主要測站1修補後觀測風向量分佈圖

W18CTPX0.1HA W18CKLW0.1HA W18CSAW0.1HA W18CHLW0.1HA W18CLTY0.1HA W18CPNY0.1HA
W18CKHW0.1HA W18CCNX0.1HA W18CTCW0.1HA W18CPHY0.1HA W18CKMY0.1HA W18CMSY0.1HA

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Distribution of Wind Vectores

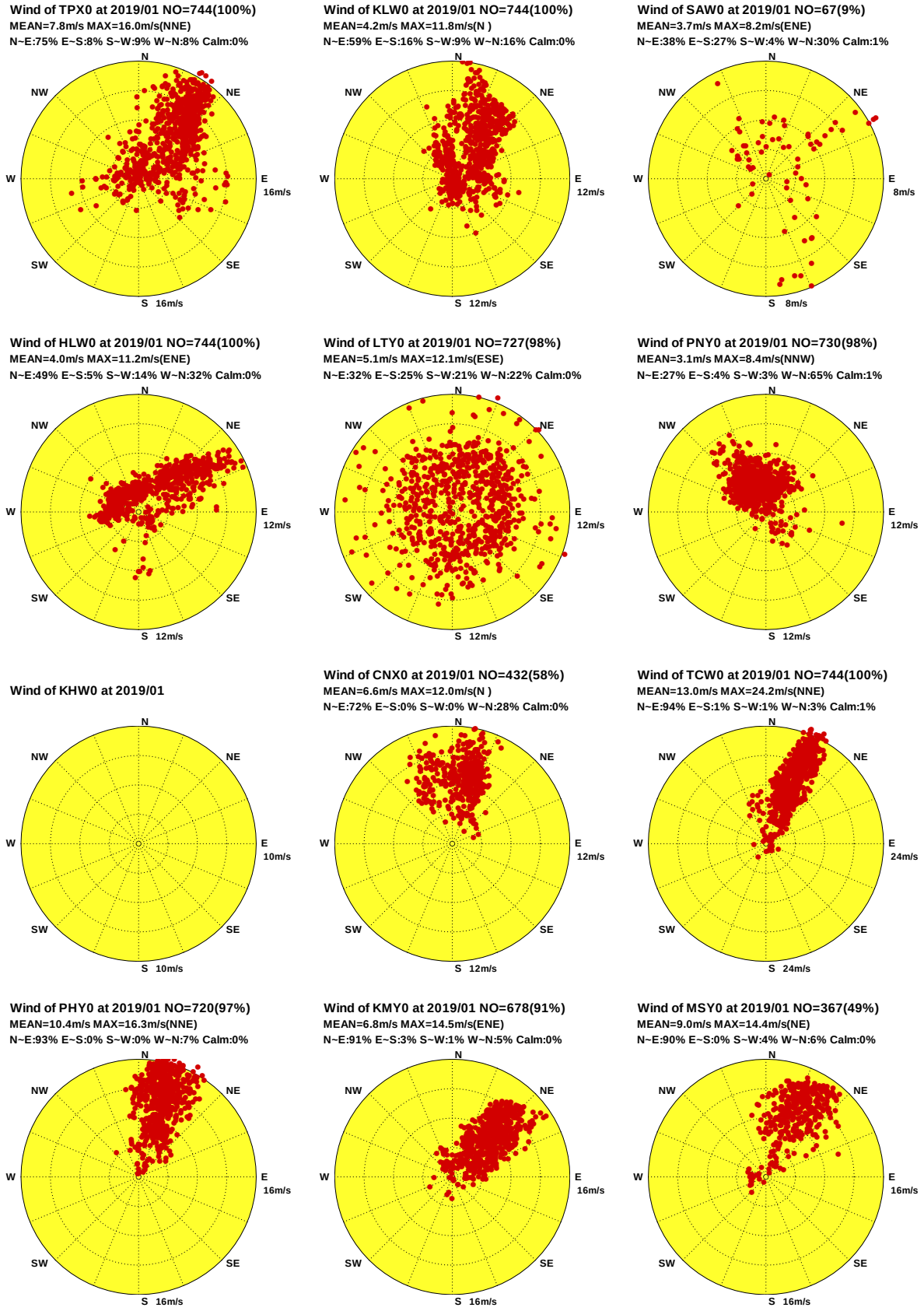

圖4.2a 2019年 1月12海域主要測站1修補前觀測風向量分佈圖

W191TPX0.1H0 W191KLW0.1H0 W191SAW0.1H0 W191HLW0.1H0 W191LTY0.1H0 W191PNY0.1H0
W191KHW0.1H0 W191CNX0.1H0 W191TCW0.1H0 W191PHY0.1H0 W191KMY0.1H0 W191MSY0.1H0

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Distribution of Wind Vectores

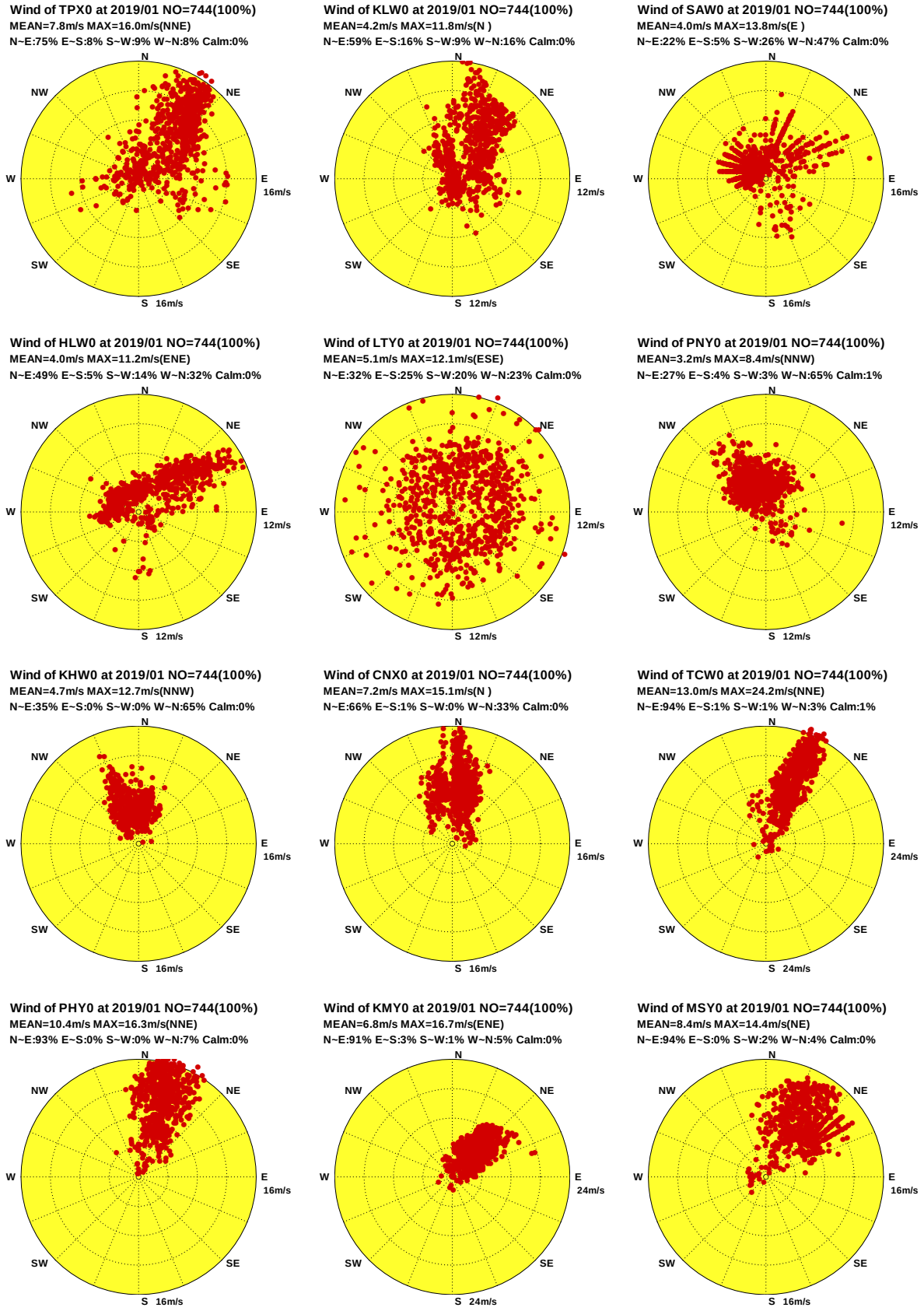

圖4.2b 2019年 1月12海域主要測站1修補後觀測風向量分佈圖

W191TPX0.1HA W191KLW0.1HA W191SAW0.1HA W191HLW0.1HA W191LTY0.1HA W191PNY0.1HA
W191KHW0.1HA W191CNX0.1HA W191TCW0.1HA W191PHY0.1HA W191KMY0.1HA W191MSY0.1HA

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Distribution of Wind Vectores

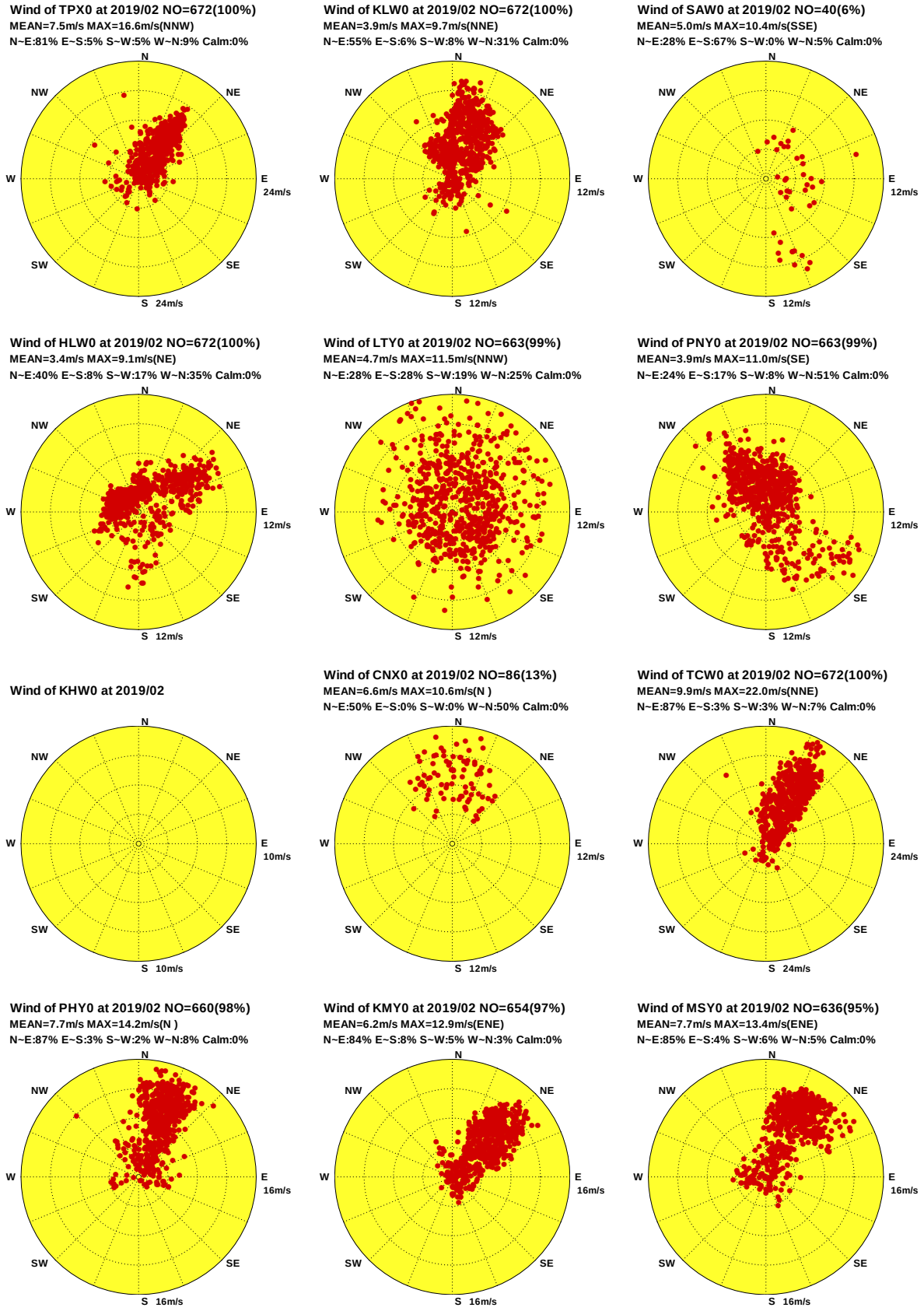

圖4.3a 2019年 2月12海域主要測站1修補前觀測風向量分佈圖

W192TPX0.1H0 W192KLW0.1H0 W192SAW0.1H0 W192HLW0.1H0 W192LTY0.1H0 W192PNY0.1H0
W192KHW0.1H0 W192CNX0.1H0 W192TCW0.1H0 W192PHY0.1H0 W192KMY0.1H0 W192MSY0.1H0

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Distribution of Wind Vectores

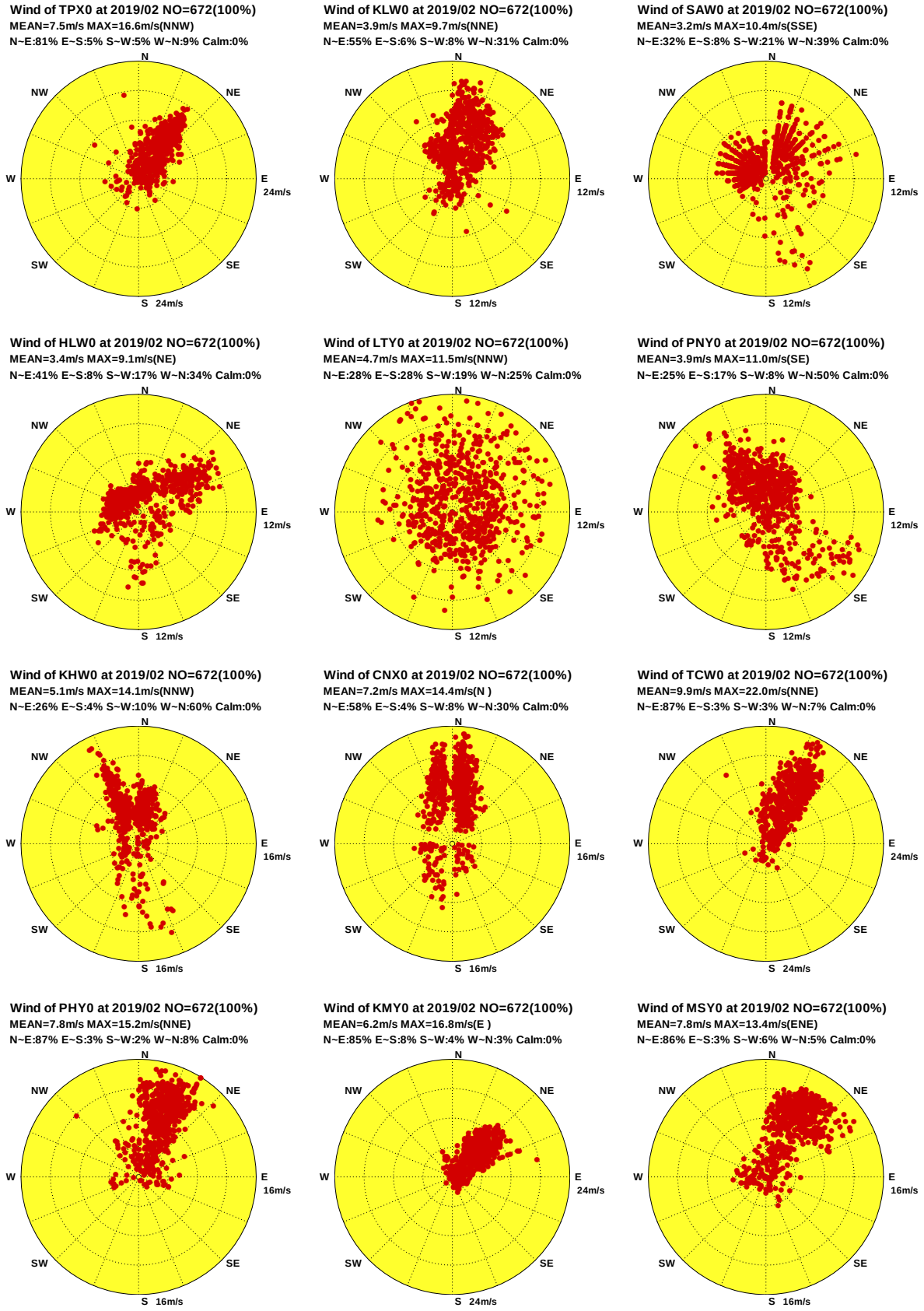

圖4.3b 2019年 2月12海域主要測站1修補後觀測風向量分佈圖

W192TPX0.1HA W192KLW0.1HA W192SAW0.1HA W192HLW0.1HA W192LTY0.1HA W192PNY0.1HA
W192KHW0.1HA W192CNX0.1HA W192TCW0.1HA W192PHY0.1HA W192KMY0.1HA W192MSY0.1HA

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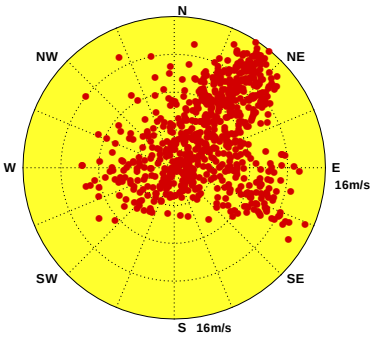
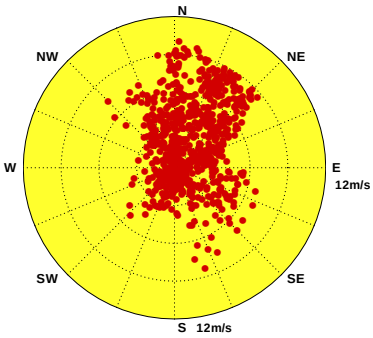
Distribution of Wind Vectores

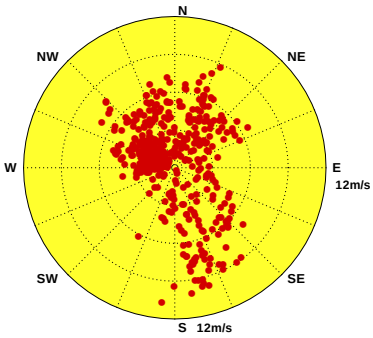
Wind of TPX0 at 2019/03 NO=744(100%)
MEAN=6.9m/s MAX=15.1m/s(NE)
N~E:54% E~S:22% S~W:14% W~N:10% Calm:0%



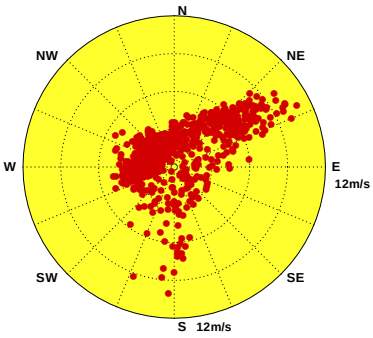
Wind of KLW0 at 2019/03 NO=744(100%)
MEAN=3.8m/s MAX=9.6m/s(N)
N~E:44% E~S:19% S~W:15% W~N:22% Calm:0%



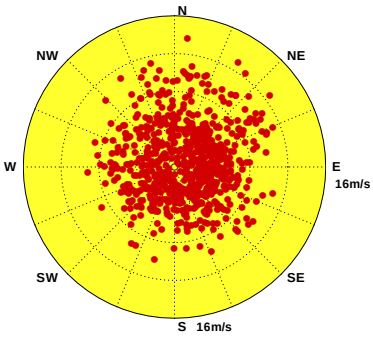
Wind of SAW0 at 2019/03 NO=483(65%)
MEAN=3.7m/s MAX=11.2m/s(S)
N~E:19% E~S:18% S~W:19% W~N:44% Calm:0%



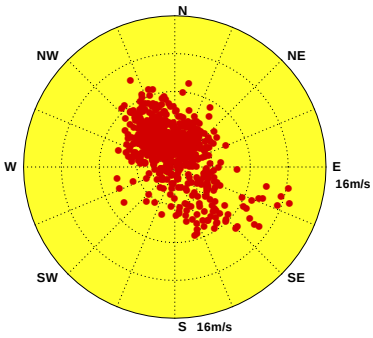
Wind of HLW0 at 2019/03 NO=744(100%)
MEAN=3.5m/s MAX=10.5m/s(S)
N~E:34% E~S:8% S~W:26% W~N:32% Calm:0%



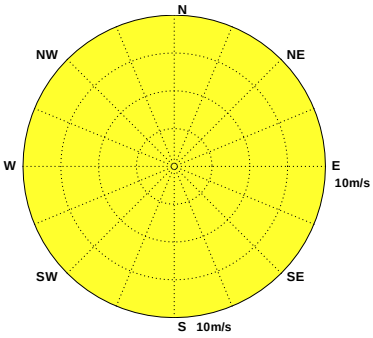
Wind of LTY0 at 2019/03 NO=740(99%)
MEAN=4.9m/s MAX=13.0m/s(N)
N~E:28% E~S:31% S~W:22% W~N:19% Calm:0%



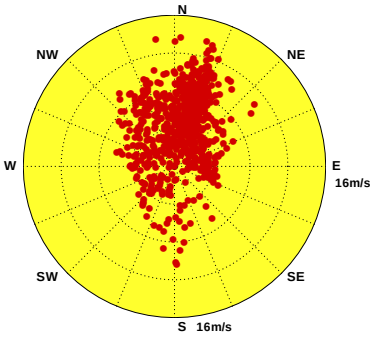
Wind of PNY0 at 2019/03 NO=744(100%)
MEAN=3.7m/s MAX=12.5m/s(ESE)
N~E:24% E~S:15% S~W:9% W~N:52% Calm:0%



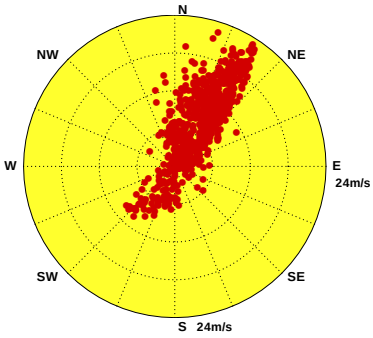
Wind of KHW0 at 2019/03



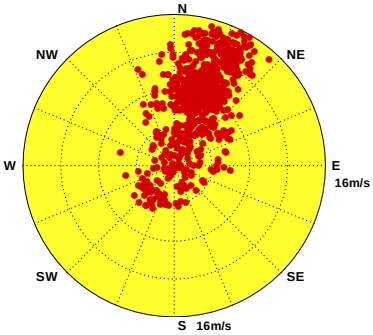
Wind of CNX0 at 2019/03 NO=744(100%)
MEAN=5.3m/s MAX=13.1m/s(N)
N~E:56% E~S:8% S~W:9% W~N:27% Calm:0%



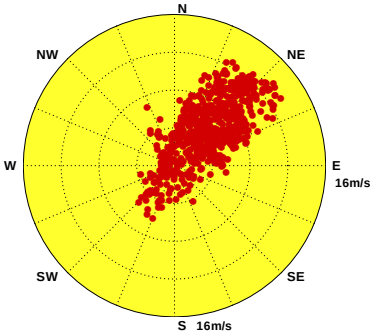
Wind of TCW0 at 2019/03 NO=744(100%)
MEAN=8.4m/s MAX=21.8m/s(NNE)
N~E:73% E~S:4% S~W:13% W~N:9% Calm:1%



Wind of PHY0 at 2019/03 NO=737(99%)
MEAN=7.4m/s MAX=15.0m/s(NNE)
N~E:76% E~S:4% S~W:9% W~N:11% Calm:0%



Wind of KMY0 at 2019/03 NO=639(86%)
MEAN=5.6m/s MAX=12.9m/s(NE)
N~E:77% E~S:5% S~W:11% W~N:7% Calm:0%



Wind of MSY0 at 2019/03 NO=683(92%)
MEAN=6.5m/s MAX=13.2m/s(NNE)
N~E:80% E~S:0% S~W:8% W~N:12% Calm:0%

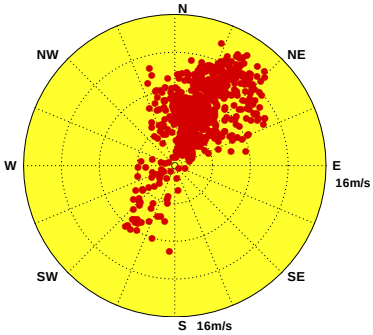


圖4.4a 2019年 3月12海域主要測站1修補前觀測風向量分佈圖

W193TPX0.1H0 W193KLW0.1H0 W193SAW0.1H0 W193HLW0.1H0 W193LTY0.1H0 W193PNY0.1H0
W193KHW0.1H0 W193CNX0.1H0 W193TCW0.1H0 W193PHY0.1H0 W193KMY0.1H0 W193MSY0.1H0

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Distribution of Wind Vectores

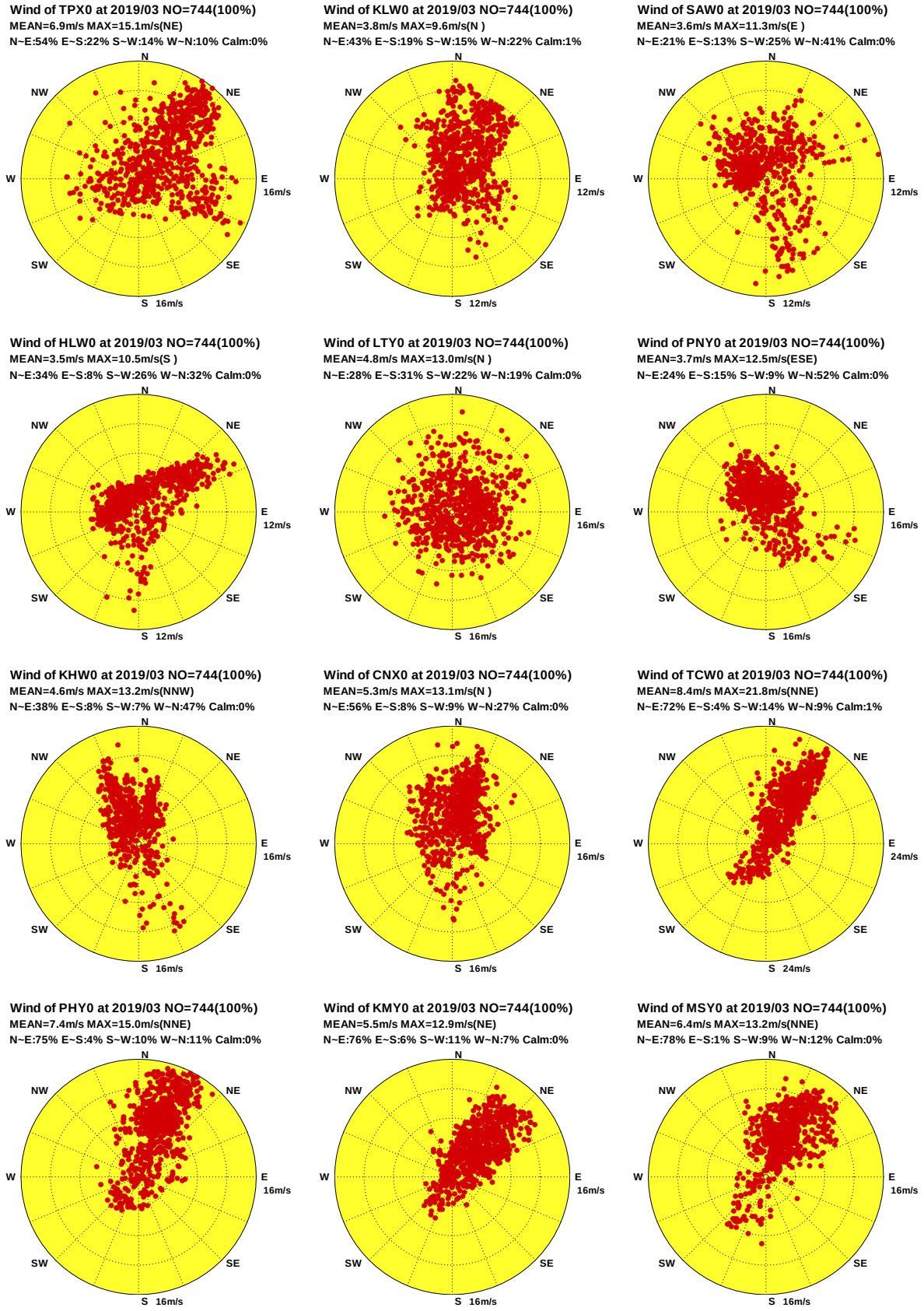

圖4.4b 2019年 3月12海域主要測站1修補後觀測風向量分佈圖

W193TPX0.1HA W193KLW0.1HA W193SAW0.1HA W193HLW0.1HA W193LTY0.1HA W193PNY0.1HA
W193KHW0.1HA W193CNX0.1HA W193TCW0.1HA W193PHY0.1HA W193KMY0.1HA W193MSY0.1HA

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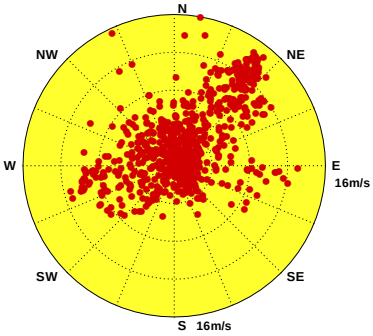
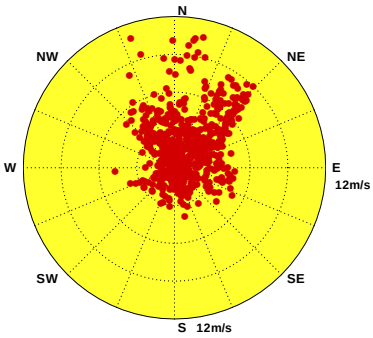
Distribution of Wind Vectores

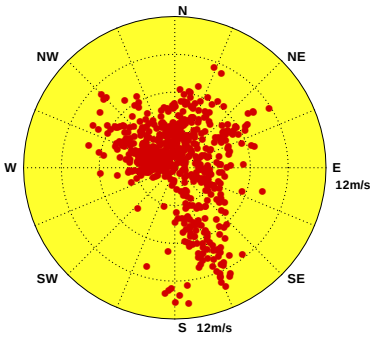
Wind of TPX0 at 2019/04 NO=720(100%)
MEAN=5.2m/s MAX=15.3m/s(N)
N~E:39% E~S:18% S~W:23% W~N:20% Calm:0%



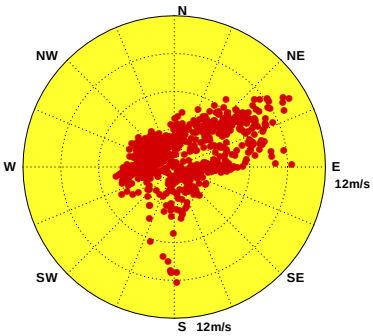
Wind of KLW0 at 2019/04 NO=720(100%)
MEAN=2.8m/s MAX=10.5m/s(NNW)
N~E:34% E~S:19% S~W:20% W~N:26% Calm:1%



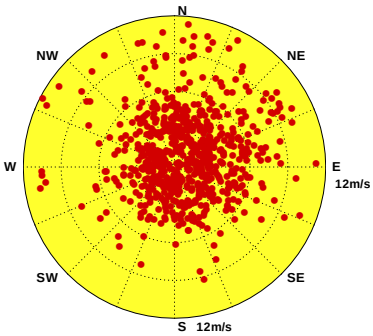
Wind of SAW0 at 2019/04 NO=720(100%)
MEAN=3.3m/s MAX=11.2m/s(S)
N~E:18% E~S:22% S~W:19% W~N:41% Calm:0%



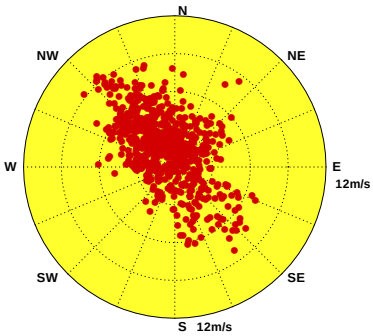
Wind of HLW0 at 2019/04 NO=720(100%)
MEAN=3.2m/s MAX=10.1m/s(ENE)
N~E:30% E~S:18% S~W:24% W~N:28% Calm:0%



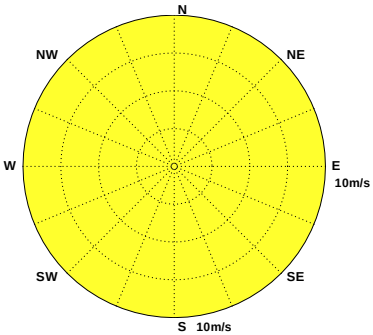
Wind of LTY0 at 2019/04 NO=713(99%)
MEAN=3.9m/s MAX=11.9m/s(WNW)
N~E:33% E~S:23% S~W:22% W~N:22% Calm:0%



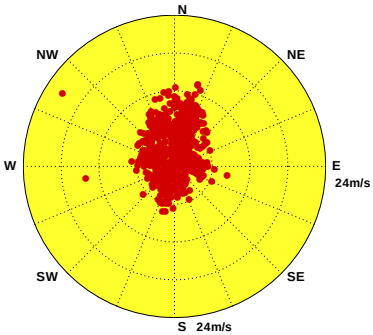
Wind of PNY0 at 2019/04 NO=720(100%)
MEAN=3.4m/s MAX=9.4m/s(NW)
N~E:16% E~S:15% S~W:14% W~N:53% Calm:2%



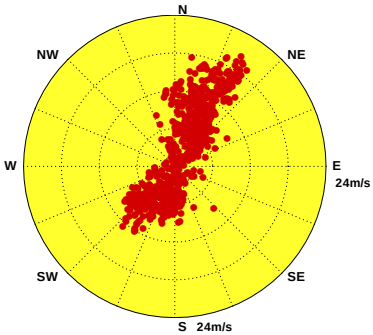
Wind of KHW0 at 2019/04



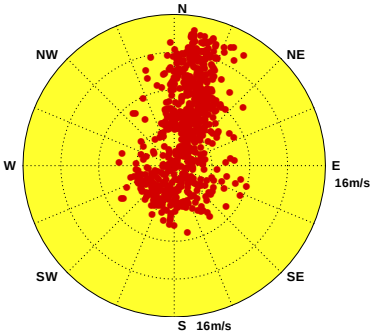
Wind of CNX0 at 2019/04 NO=720(100%)
MEAN=4.7m/s MAX=21.4m/s(WNW)
N~E:34% E~S:17% S~W:21% W~N:28% Calm:0%



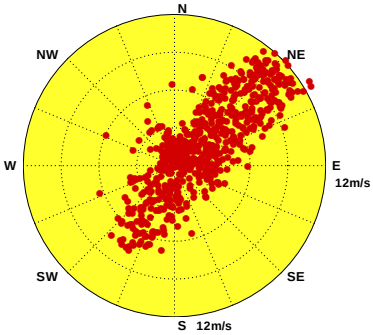
Wind of TCW0 at 2019/04 NO=720(100%)
MEAN=7.5m/s MAX=19.2m/s(NNE)
N~E:52% E~S:4% S~W:35% W~N:7% Calm:2%



Wind of PHY0 at 2019/04 NO=703(98%)
MEAN=5.8m/s MAX=13.8m/s(N)
N~E:53% E~S:12% S~W:22% W~N:13% Calm:0%



Wind of KMY0 at 2019/04 NO=650(90%)
MEAN=4.5m/s MAX=12.1m/s(ENE)
N~E:52% E~S:13% S~W:24% W~N:9% Calm:2%



Wind of MSY0 at 2019/04 NO=701(97%)
MEAN=5.1m/s MAX=12.6m/s(NE)
N~E:61% E~S:6% S~W:22% W~N:10% Calm:1%

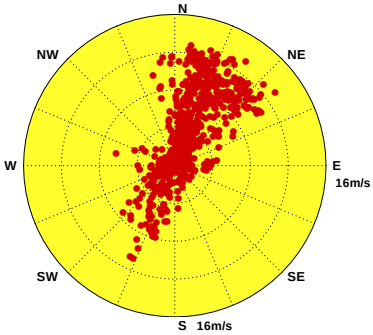


圖4.5a 2019年 4月12海域主要測站1修補前觀測風向量分佈圖

W194TPX0.1H0 W194KLW0.1H0 W194SAW0.1H0 W194HLW0.1H0 W194LTY0.1H0 W194PNY0.1H0
W194KHW0.1H0 W194CNX0.1H0 W194TCW0.1H0 W194PHY0.1H0 W194KMY0.1H0 W194MSY0.1H0

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Distribution of Wind Vectores

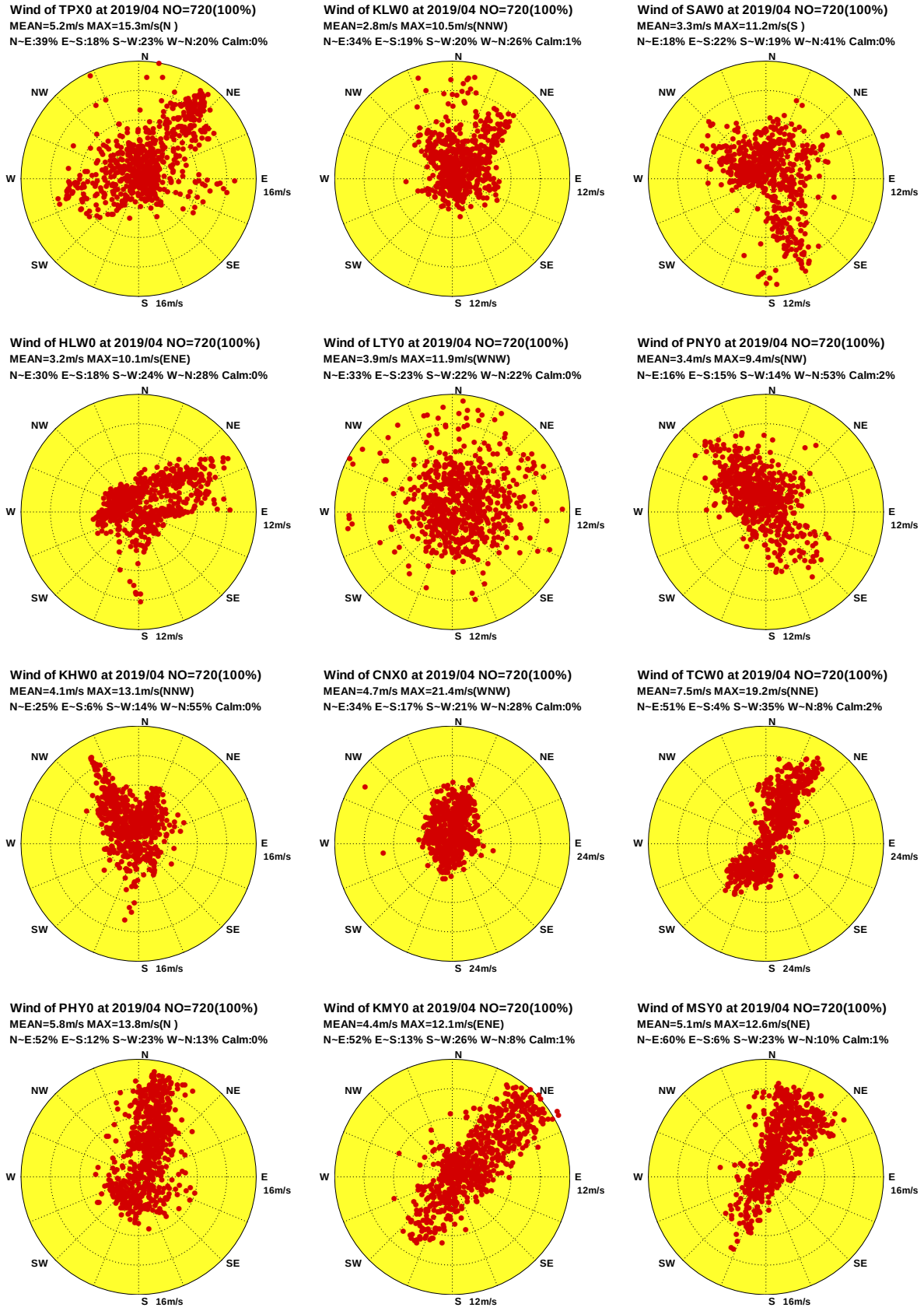

圖4.5b 2019年 4月12海域主要測站1修補後觀測風向量分佈圖

W194TPX0.1HA W194KLW0.1HA W194SAW0.1HA W194HLW0.1HA W194LTY0.1HA W194PNY0.1HA
W194KHW0.1HA W194CNX0.1HA W194TCW0.1HA W194PHY0.1HA W194KMY0.1HA W194MSY0.1HA

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Distribution of Wind Vectores

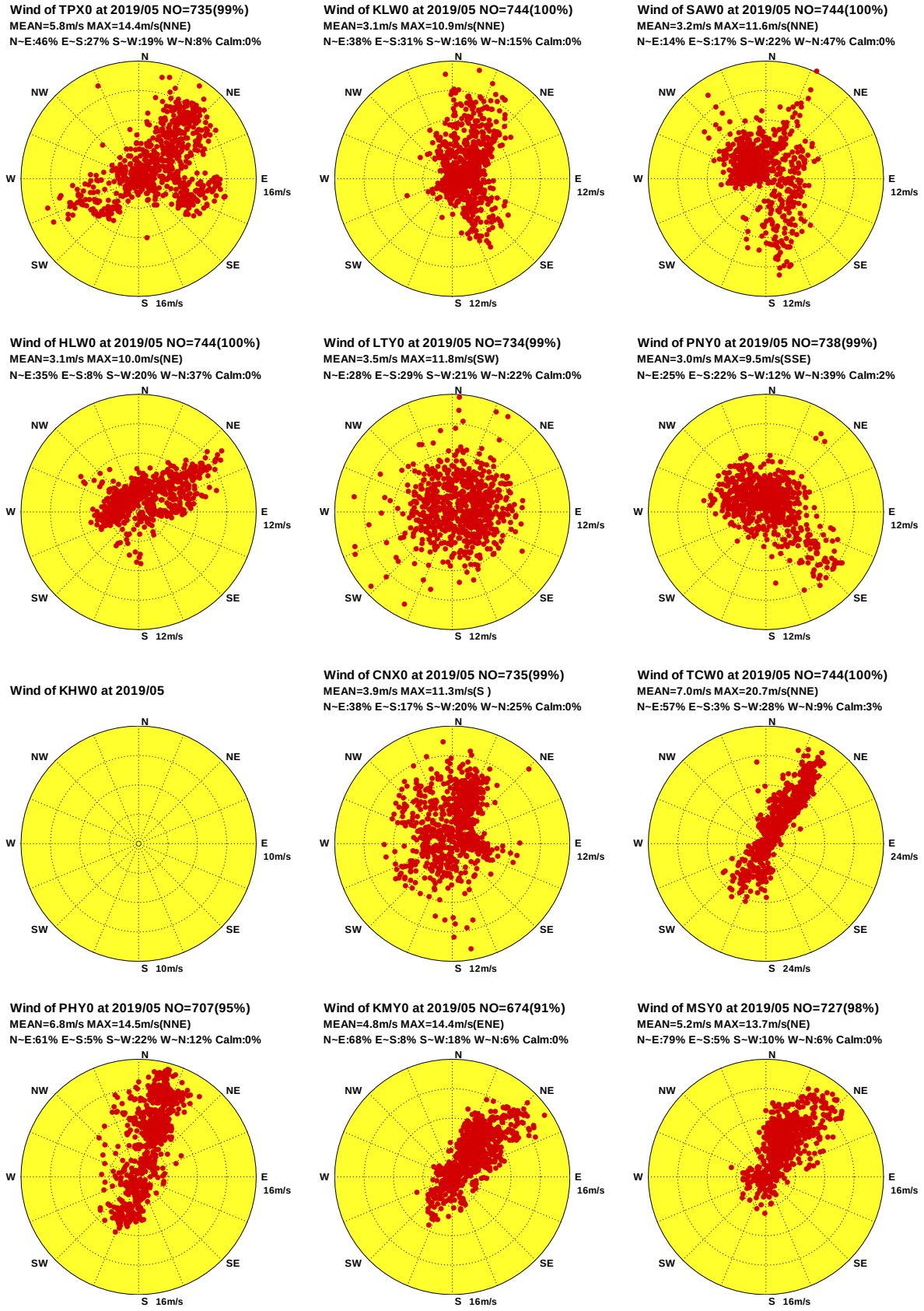

圖4.6a 2019年 5月12海域主要測站1修補前觀測風向量分佈圖

W195TPX0.1H0 W195KLW0.1H0 W195SAW0.1H0 W195HLW0.1H0 W195LTY0.1H0 W195PNY0.1H0
W195KHW0.1H0 W195CNX0.1H0 W195TCW0.1H0 W195PHY0.1H0 W195KMY0.1H0 W195MSY0.1H0

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Distribution of Wind Vectores

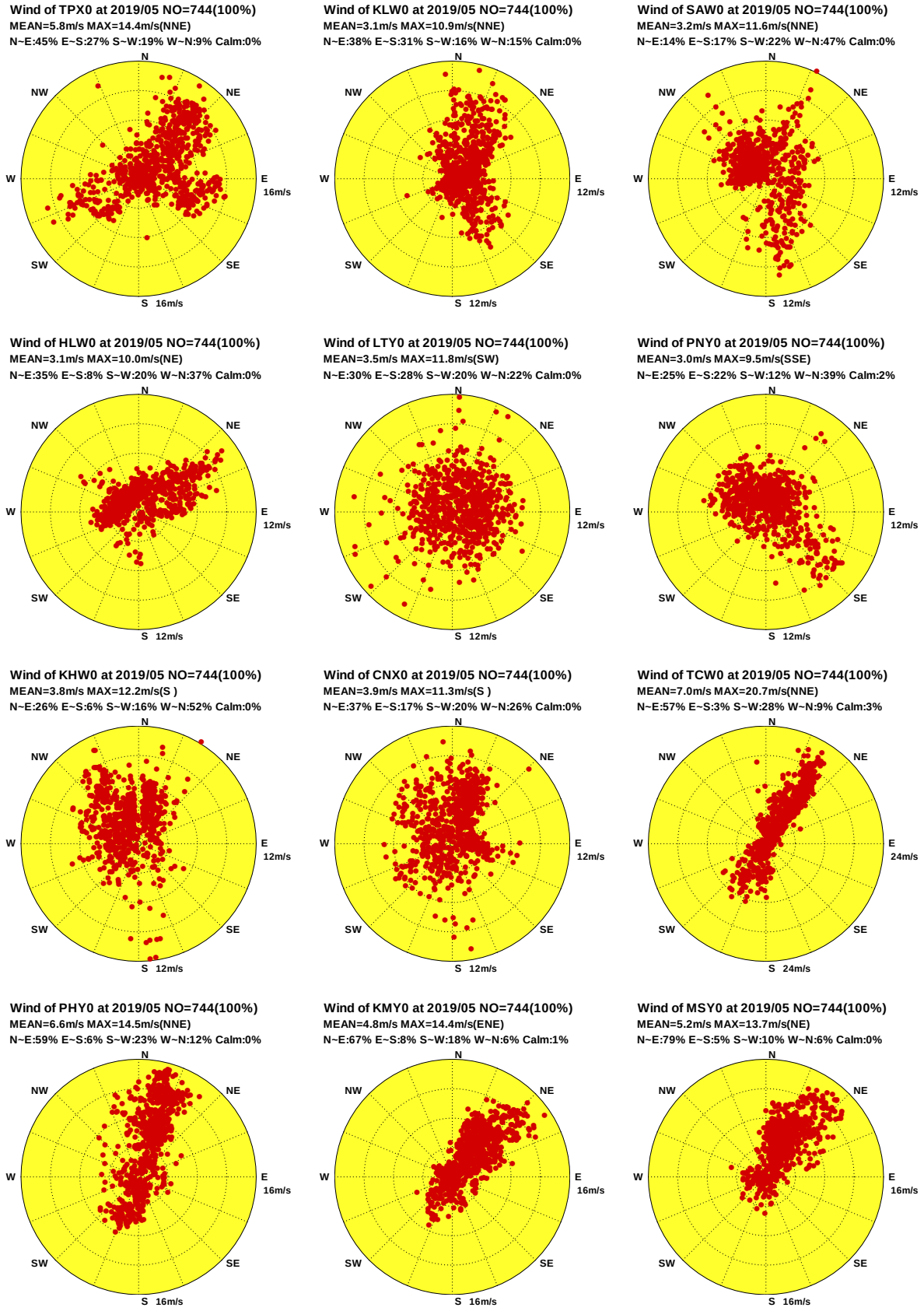

圖4.6b 2019年 5月12海域主要測站1修補後觀測風向量分佈圖

W195TPX0.1HA W195KLW0.1HA W195SAW0.1HA W195HLW0.1HA W195LTY0.1HA W195PNY0.1HA
W195KHW0.1HA W195CNX0.1HA W195TCW0.1HA W195PHY0.1HA W195KMY0.1HA W195MSY0.1HA

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Distribution of Wind Vectores

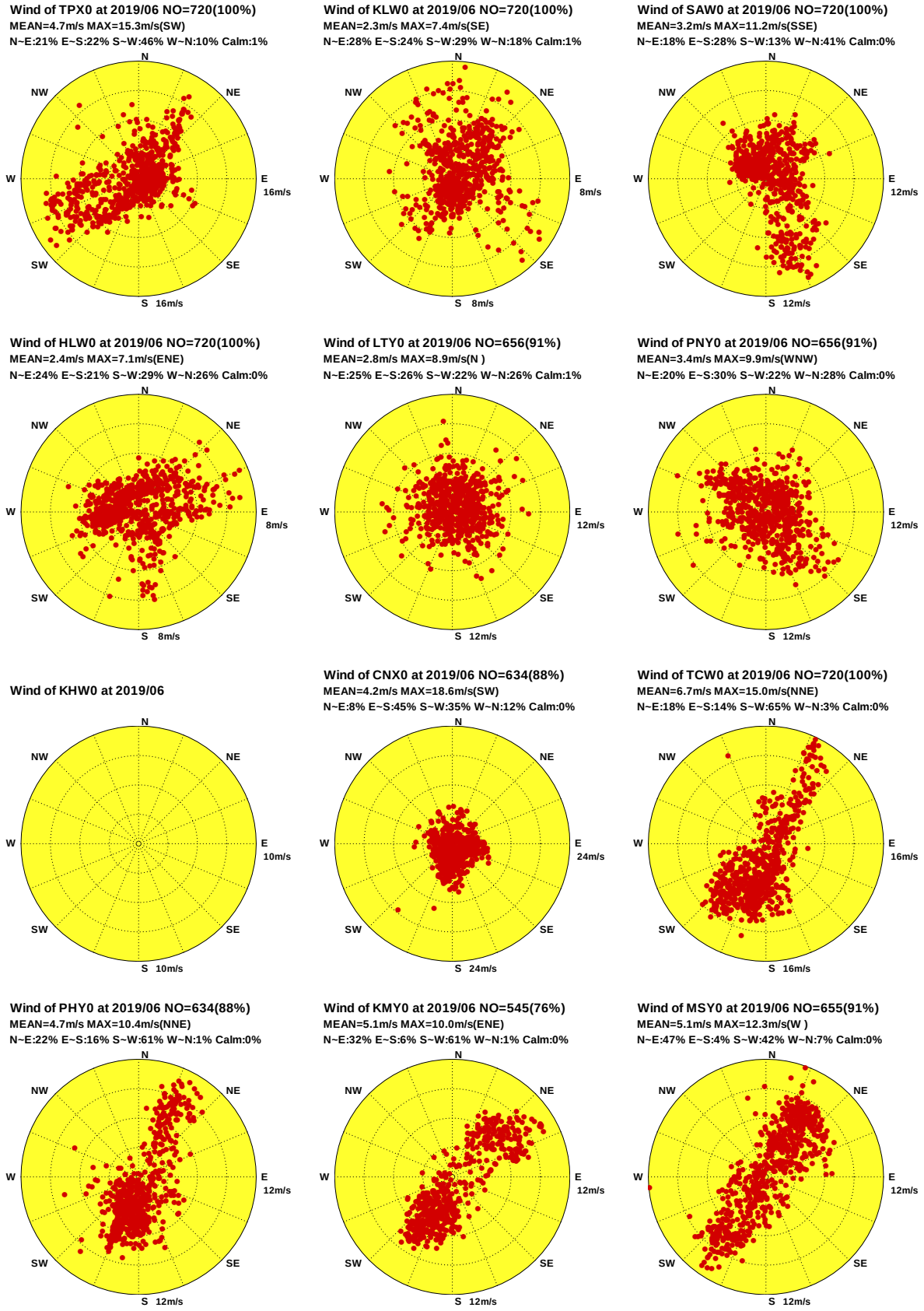

圖4.7a 2019年 6月12海域主要測站1修補前觀測風向量分佈圖

W196TPX0.1H0 W196KLW0.1H0 W196SAW0.1H0 W196HLW0.1H0 W196LTY0.1H0 W196PNY0.1H0
W196KHW0.1H0 W196CNX0.1H0 W196TCW0.1H0 W196PHY0.1H0 W196KMY0.1H0 W196MSY0.1H0

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Distribution of Wind Vectores

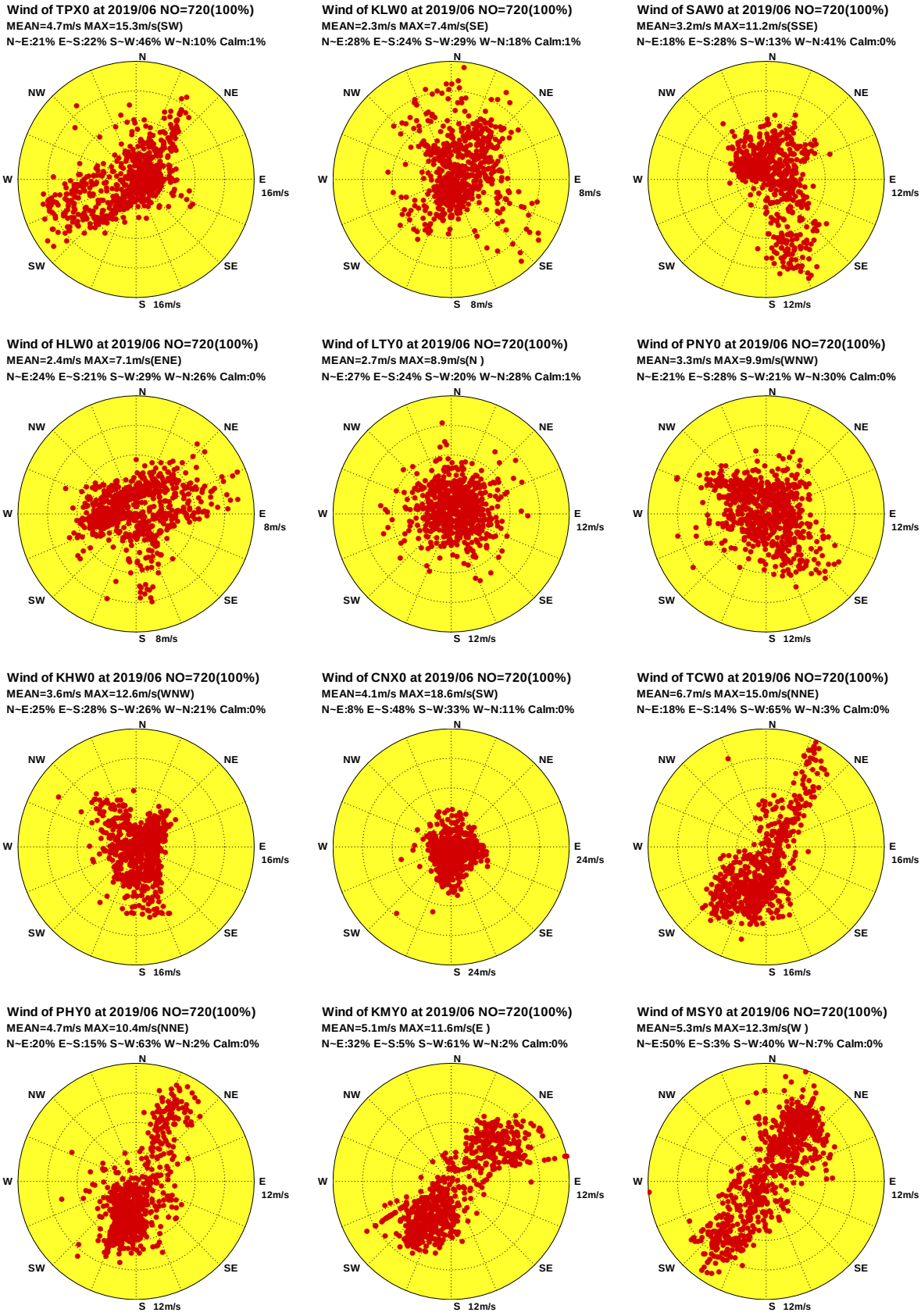

圖4.7b 2019年 6月12海域主要測站1修補後觀測風向量分佈圖

W196TPX0.1HA W196KLW0.1HA W196SAW0.1HA W196HLW0.1HA W196LTY0.1HA W196PNY0.1HA
W196KHW0.1HA W196CNX0.1HA W196TCW0.1HA W196PHY0.1HA W196KMY0.1HA W196MSY0.1HA

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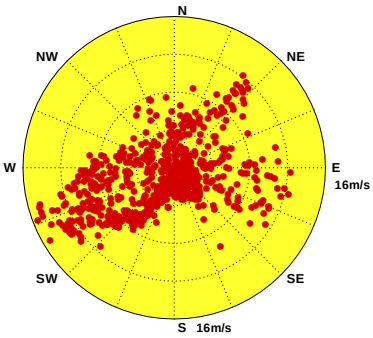
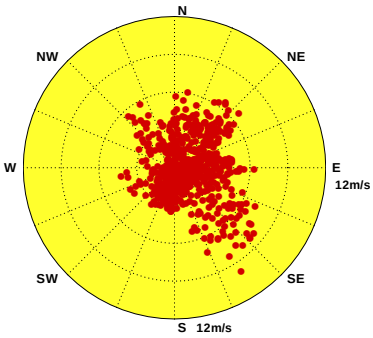
Distribution of Wind Vectores

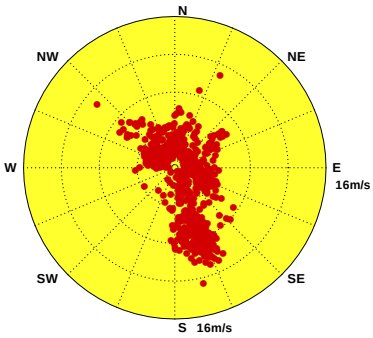
Wind of TPX0 at 2019/07 NO=744(100%)
MEAN=5.5m/s MAX=16.1m/s(WSW)
N~E:13% E~S:24% S~W:52% W~N:11% Calm:0%



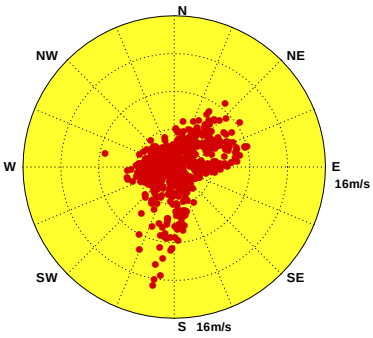
Wind of KLW0 at 2019/07 NO=744(100%)
MEAN=2.6m/s MAX=10.0m/s(SSE)
N~E:21% E~S:31% S~W:36% W~N:12% Calm:0%



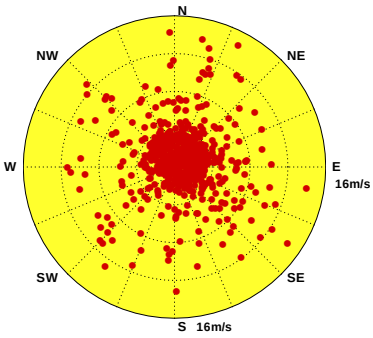
Wind of SAW0 at 2019/07 NO=744(100%)
MEAN=4.1m/s MAX=13.1m/s(SSE)
N~E:12% E~S:42% S~W:9% W~N:37% Calm:0%



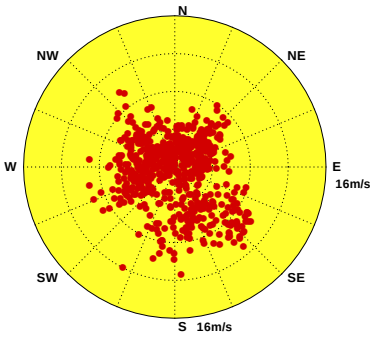
Wind of HLW0 at 2019/07 NO=744(100%)
MEAN=3.0m/s MAX=13.4m/s(SSW)
N~E:19% E~S:24% S~W:40% W~N:17% Calm:0%



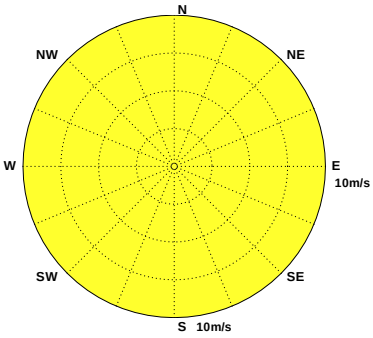
Wind of LTY0 at 2019/07 NO=636(85%)
MEAN=3.7m/s MAX=14.4m/s(SE)
N~E:28% E~S:30% S~W:19% W~N:23% Calm:0%



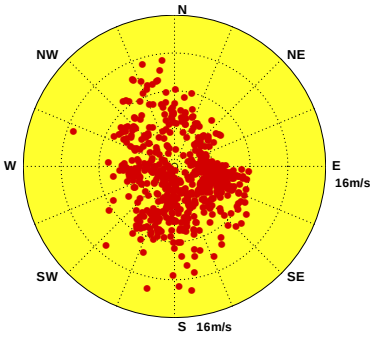
Wind of PNY0 at 2019/07 NO=627(84%)
MEAN=4.4m/s MAX=12.7m/s(SSW)
N~E:23% E~S:27% S~W:27% W~N:23% Calm:0%



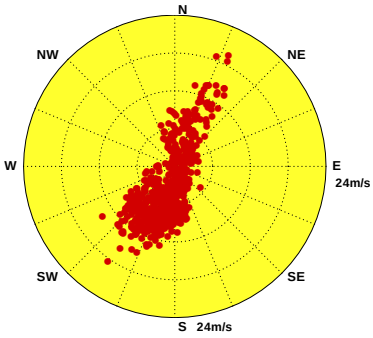
Wind of KHW0 at 2019/07



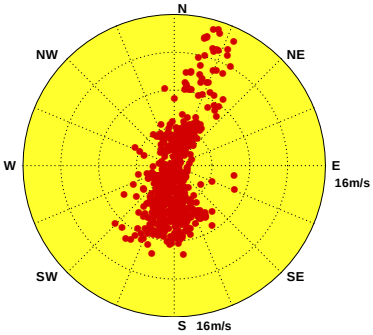
Wind of CNX0 at 2019/07 NO=633(85%)
MEAN=4.9m/s MAX=13.9m/s(SSW)
N~E:9% E~S:44% S~W:32% W~N:15% Calm:0%



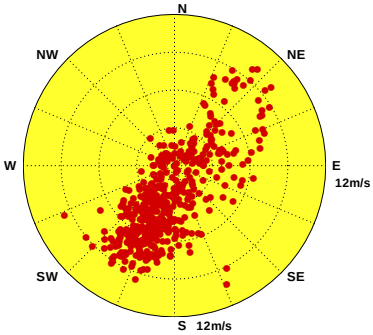
Wind of TCW0 at 2019/07 NO=744(100%)
MEAN=7.1m/s MAX=19.5m/s(SW)
N~E:15% E~S:10% S~W:67% W~N:7% Calm:1%



Wind of PHY0 at 2019/07 NO=631(85%)
MEAN=4.7m/s MAX=14.5m/s(NNE)
N~E:18% E~S:18% S~W:54% W~N:9% Calm:1%



Wind of KMY0 at 2019/07 NO=483(65%)
MEAN=5.0m/s MAX=10.6m/s(SSE)
N~E:17% E~S:13% S~W:66% W~N:4% Calm:0%



Wind of MSY0 at 2019/07 NO=642(86%)
MEAN=6.8m/s MAX=12.7m/s(SW)
N~E:26% E~S:7% S~W:64% W~N:3% Calm:0%

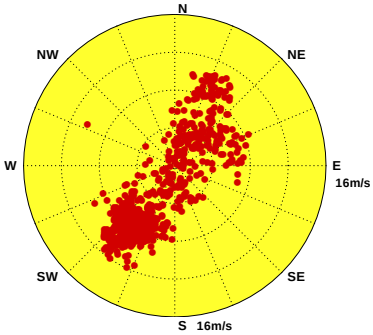


圖4.8a 2019年 7月12海域主要測站1修補前觀測風向量分佈圖

W197TPX0.1H0 W197KLW0.1H0 W197SAW0.1H0 W197HLW0.1H0 W197LTY0.1H0 W197PNY0.1H0
W197KHW0.1H0 W197CNX0.1H0 W197TCW0.1H0 W197PHY0.1H0 W197KMY0.1H0 W197MSY0.1H0

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Distribution of Wind Vectores

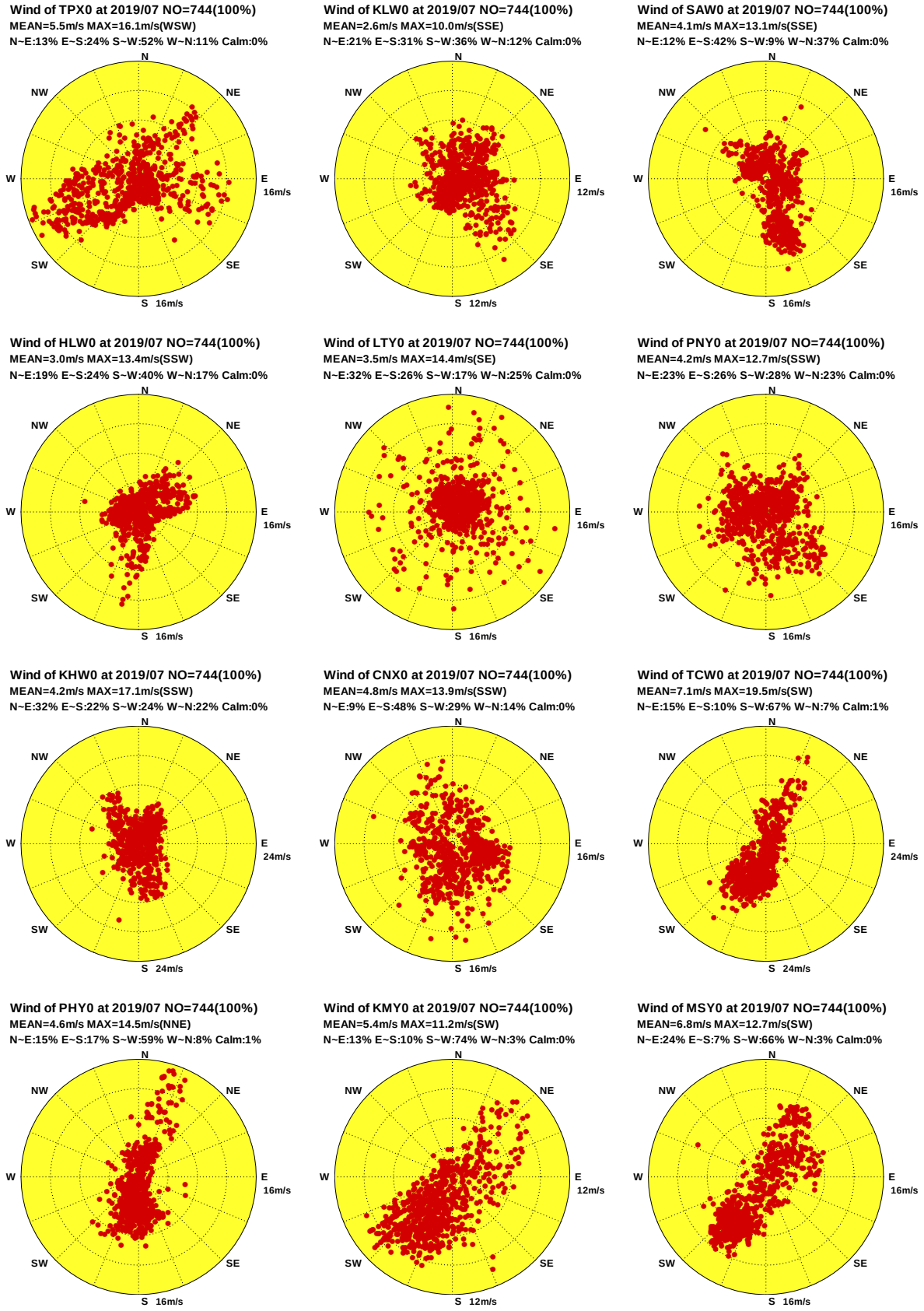

圖4.8b 2019年 7月12海域主要測站1修補後觀測風向量分佈圖

W197TPX0.1HA W197KLW0.1HA W197SAW0.1HA W197HLW0.1HA W197LTY0.1HA W197PNY0.1HA
W197KHW0.1HA W197CNX0.1HA W197TCW0.1HA W197PHY0.1HA W197KMY0.1HA W197MSY0.1HA

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Distribution of Wind Vectores

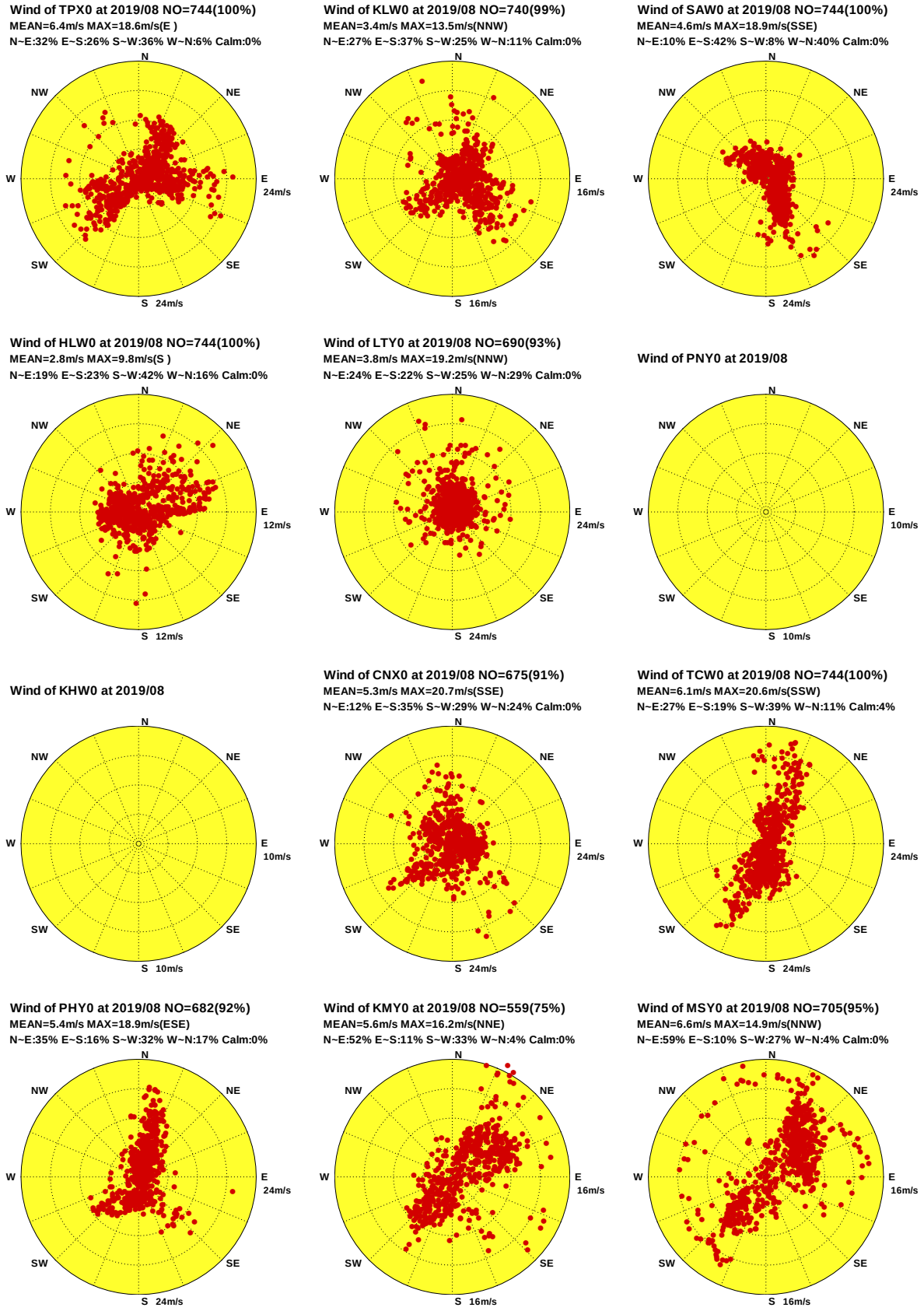

圖4.9a 2019年 8月12海域主要測站1修補前觀測風向量分佈圖

W198TPX0.1H0 W198KLW0.1H0 W198SAW0.1H0 W198HLW0.1H0 W198LTY0.1H0 W198PNY0.1H0
W198KHW0.1H0 W198CNX0.1H0 W198TCW0.1H0 W198PHY0.1H0 W198KMY0.1H0 W198MSY0.1H0

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Distribution of Wind Vectores

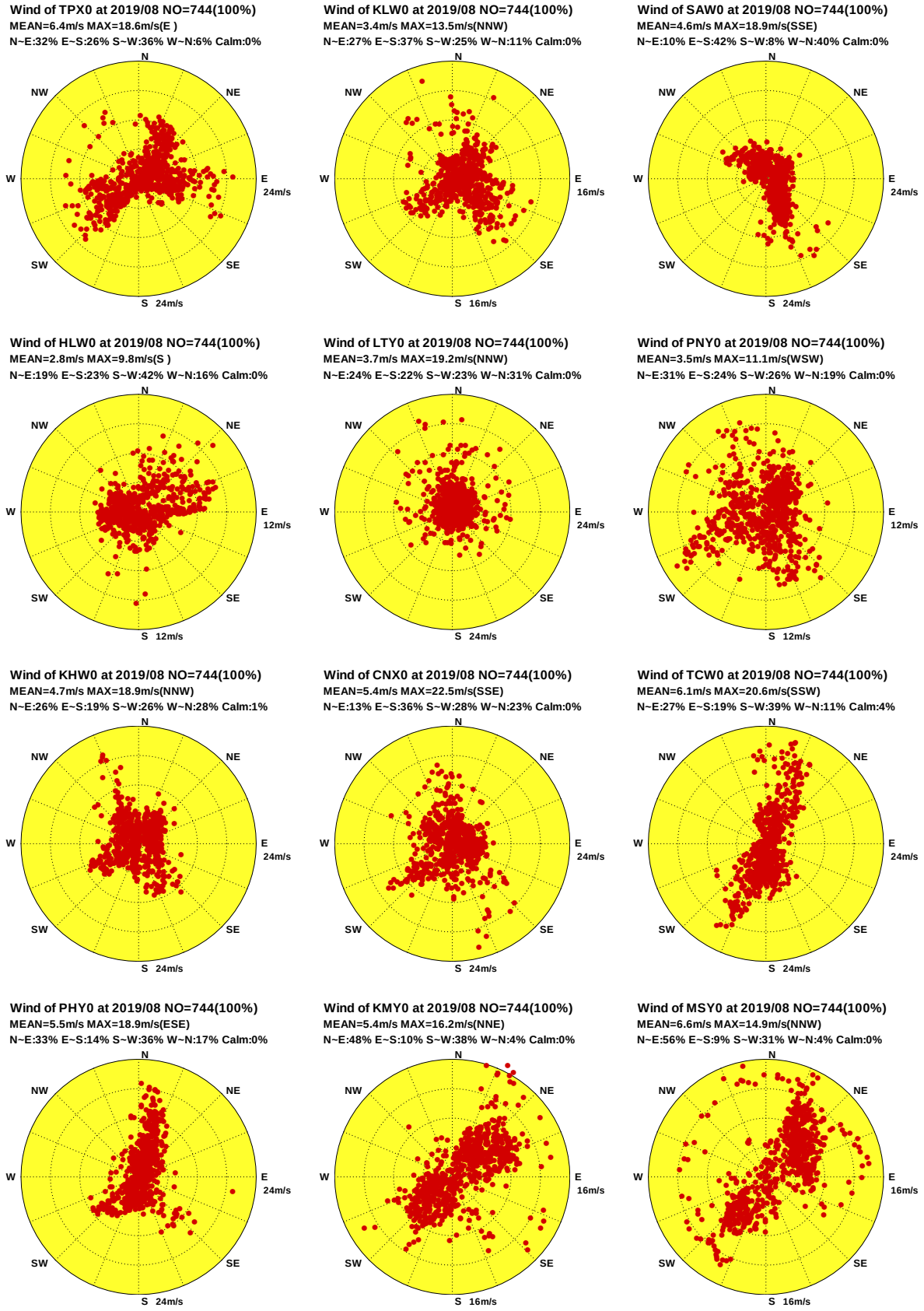

圖4.9b 2019年 8月12海域主要測站1修補後觀測風向量分佈圖

W198TPX0.1HA W198KLW0.1HA W198SAW0.1HA W198HLW0.1HA W198LTY0.1HA W198PNY0.1HA
W198KHW0.1HA W198CNX0.1HA W198TCW0.1HA W198PHY0.1HA W198KMY0.1HA W198MSY0.1HA

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Distribution of Wind Vectores

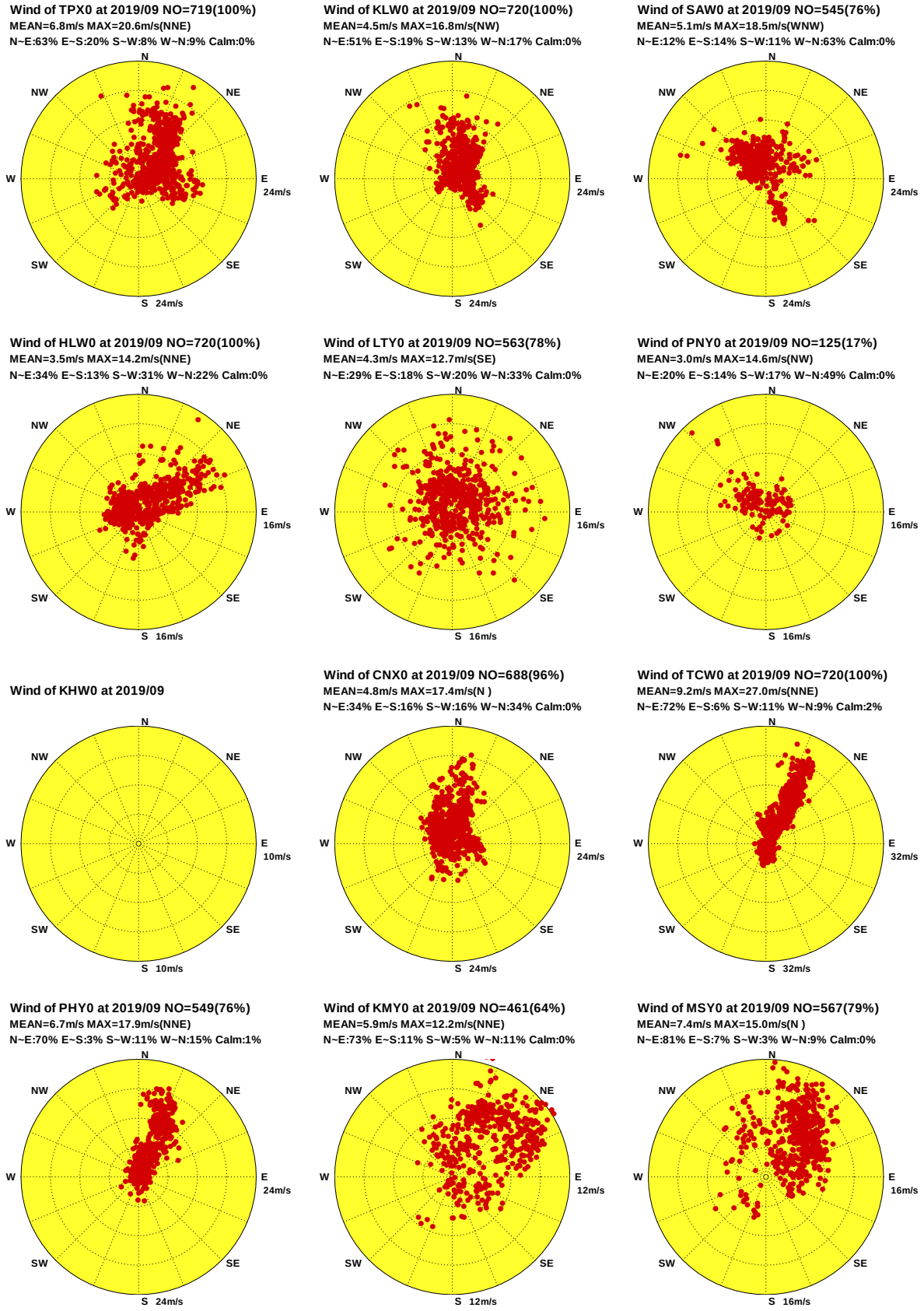

圖4.10a 2019年 9月12海域主要測站1修補前觀測風向量分佈圖

W199TPX0.1H0 W199KLW0.1H0 W199SAW0.1H0 W199HLW0.1H0 W199LTY0.1H0 W199PNY0.1H0
W199KHW0.1H0 W199CNX0.1H0 W199TCW0.1H0 W199PHY0.1H0 W199KMY0.1H0 W199MSY0.1H0

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Distribution of Wind Vectores

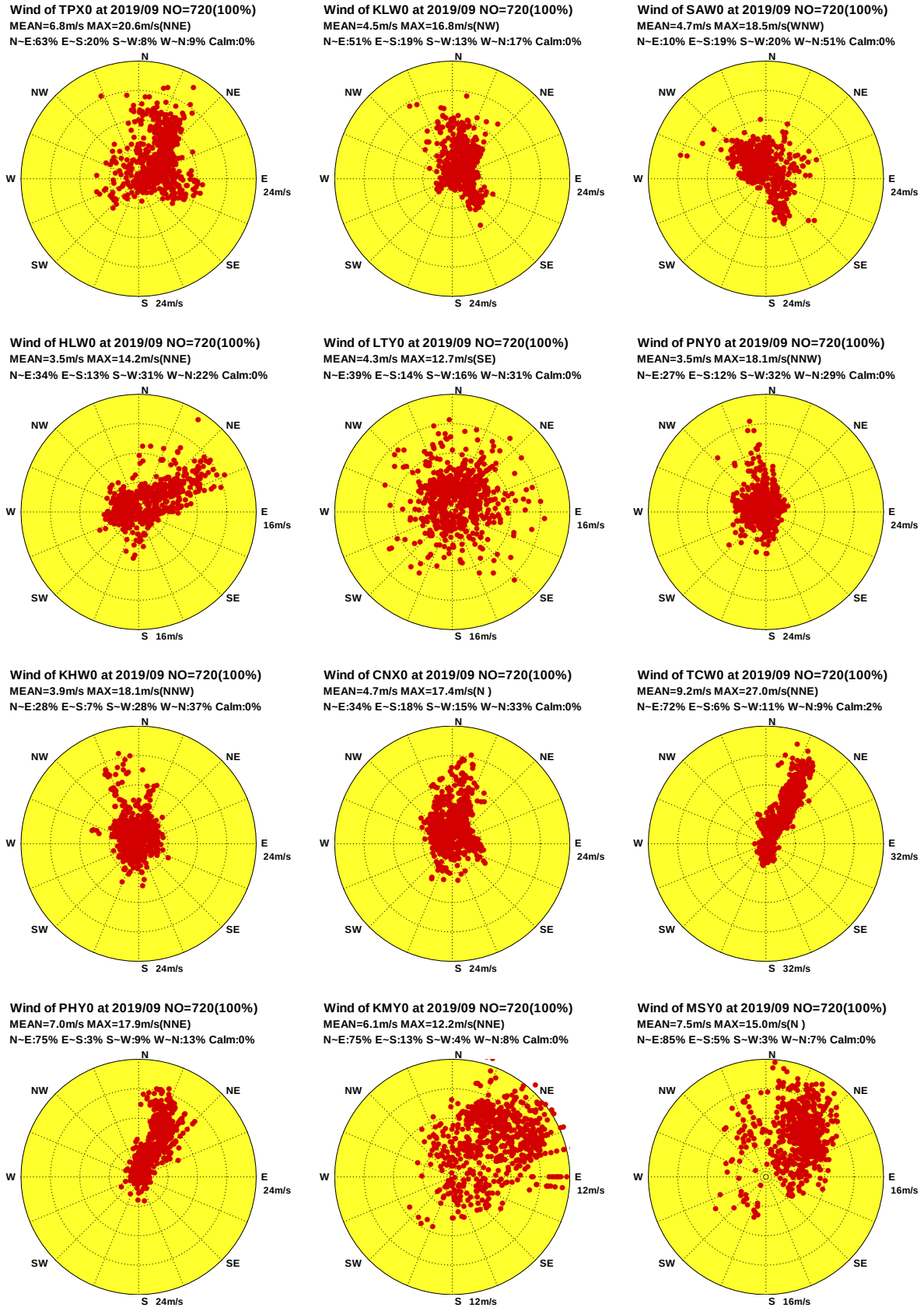

圖4.10b 2019年 9月12海域主要測站1修補後觀測風向量分佈圖

W199TPX0.1HA W199KLW0.1HA W199SAW0.1HA W199HLW0.1HA W199LTY0.1HA W199PNY0.1HA
W199KHW0.1HA W199CNX0.1HA W199TCW0.1HA W199PHY0.1HA W199KMY0.1HA W199MSY0.1HA

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Distribution of Wind Vectores

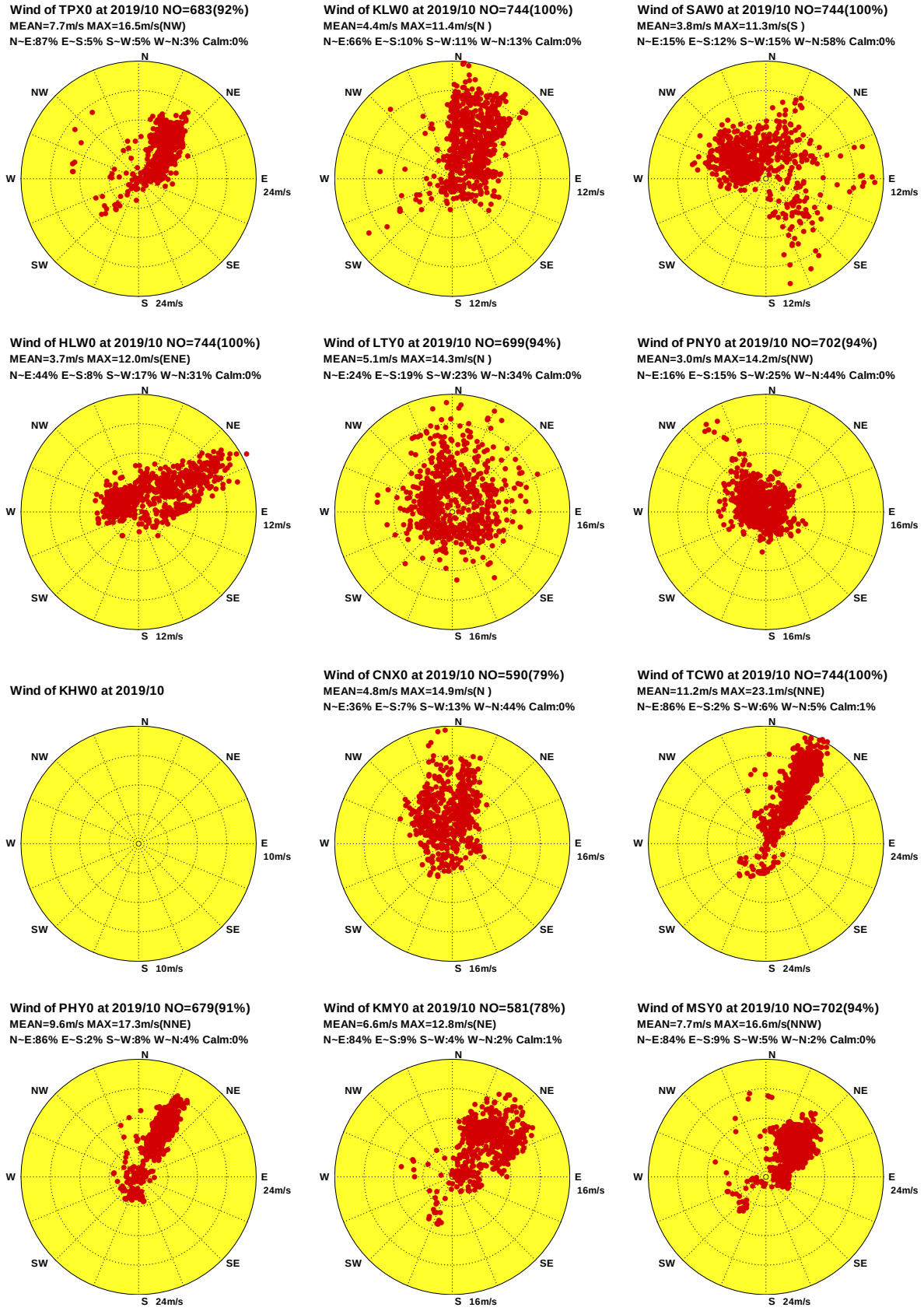

圖4.11a 2019年10月12海域主要測站1修補前觀測風向量分佈圖

W19ATPX0.1H0 W19AKLW0.1H0 W19ASAW0.1H0 W19AHLW0.1H0 W19ALTY0.1H0 W19APNY0.1H0
W19AKHW0.1H0 W19ACNX0.1H0 W19ATCW0.1H0 W19APHY0.1H0 W19AKMY0.1H0 W19AMSY0.1H0

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Distribution of Wind Vectores

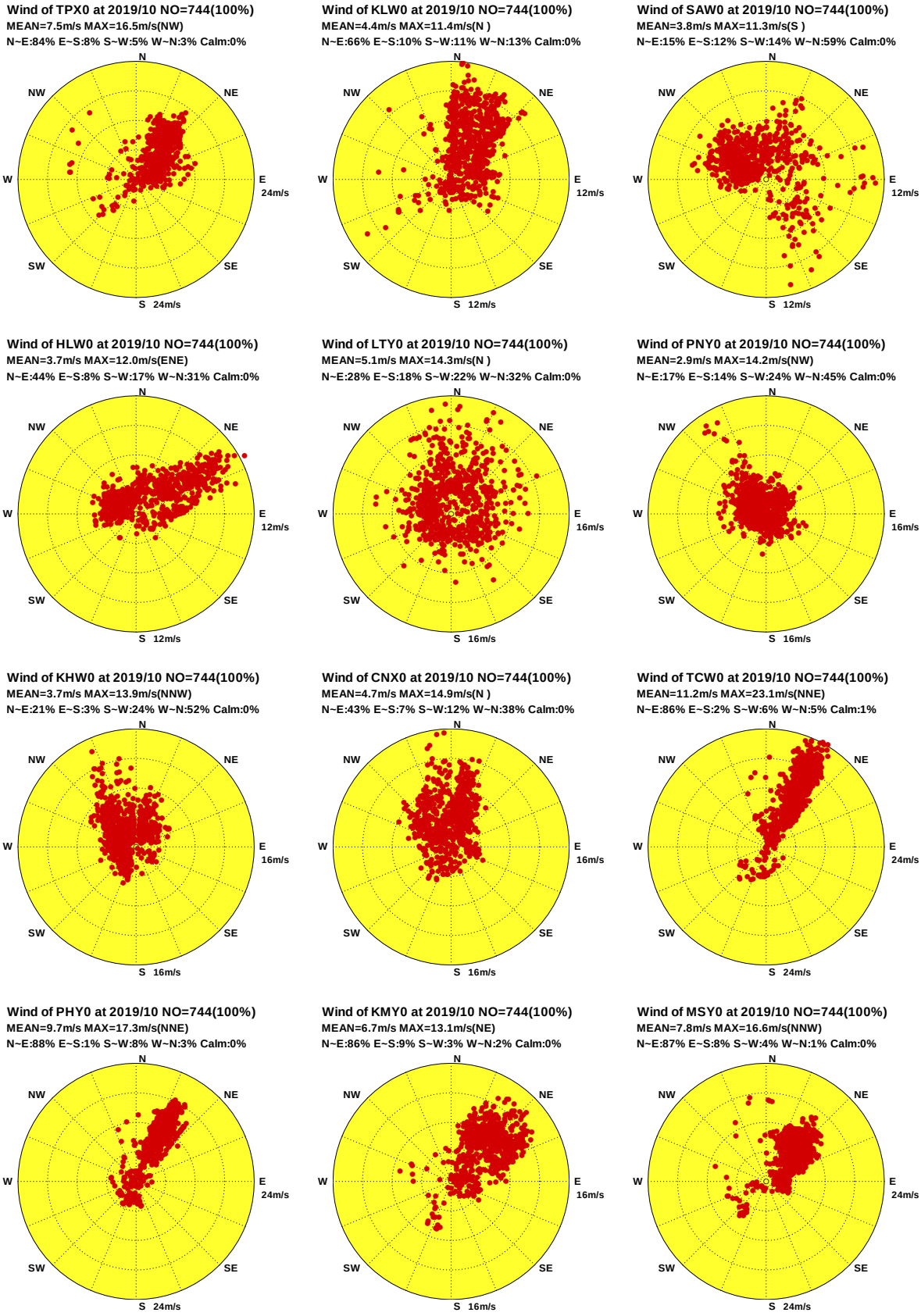

圖4.11b 2019年10月12海域主要測站1修補後觀測風向量分佈圖

W19ATPX0.1HA W19AKLW0.1HA W19ASAW0.1HA W19AHLW0.1HA W19ALTY0.1HA W19APNY0.1HA
W19AKHW0.1HA W19ACNX0.1HA W19ATCW0.1HA W19APHY0.1HA W19AKMY0.1HA W19AMSY0.1HA

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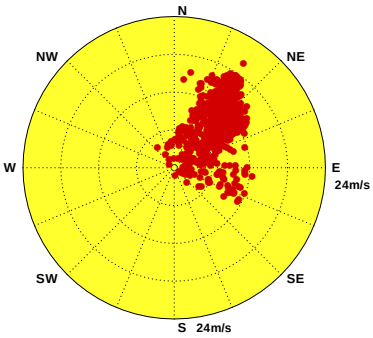
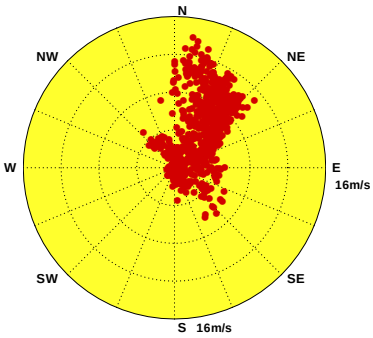
Distribution of Wind Vectores

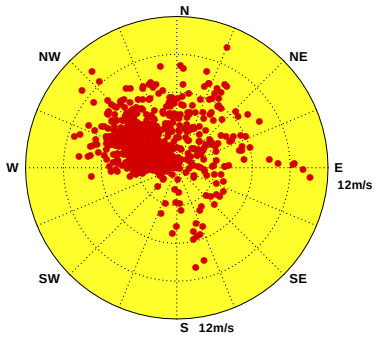
Wind of TPX0 at 2019/11 NO=719(100%)
MEAN=9.4m/s MAX=18.8m/s(NNE)
N~E:87% E~S:11% S~W:0% W~N:2% Calm:0%



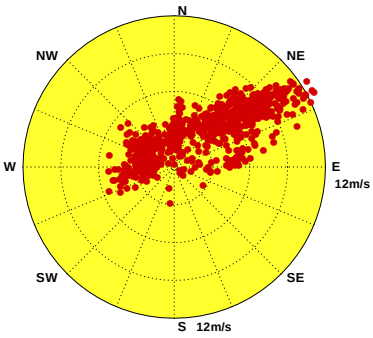
Wind of KLW0 at 2019/11 NO=720(100%)
MEAN=5.2m/s MAX=13.3m/s(N)
N~E:72% E~S:12% S~W:6% W~N:9% Calm:1%



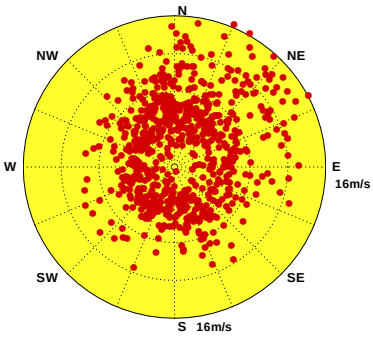
Wind of SAW0 at 2019/11 NO=720(100%)
MEAN=3.7m/s MAX=10.3m/s(E)
N~E:13% E~S:6% S~W:19% W~N:62% Calm:0%



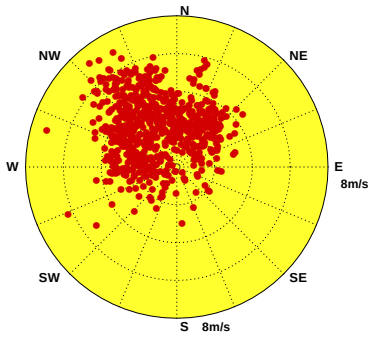
Wind of HLW0 at 2019/11 NO=720(100%)
MEAN=4.7m/s MAX=12.1m/s(ENE)
N~E:58% E~S:3% S~W:14% W~N:25% Calm:0%



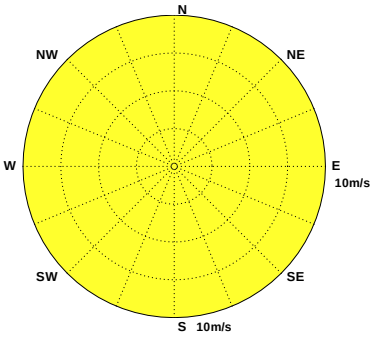
Wind of LTY0 at 2019/11 NO=714(99%)
MEAN=6.4m/s MAX=15.6m/s(NNE)
N~E:31% E~S:20% S~W:21% W~N:28% Calm:0%



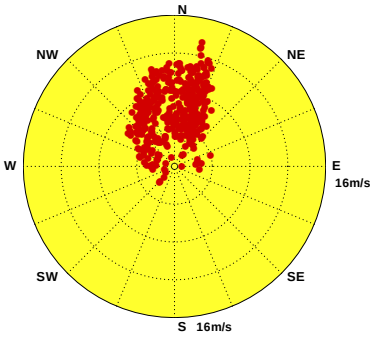
Wind of PNY0 at 2019/11 NO=720(100%)
MEAN=3.0m/s MAX=7.3m/s(WNW)
N~E:26% E~S:2% S~W:12% W~N:60% Calm:0%



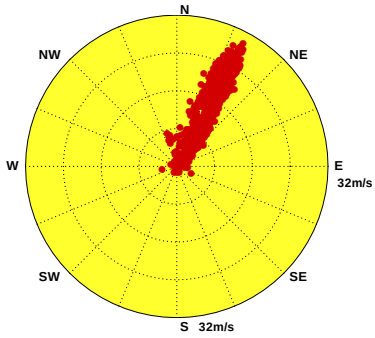
Wind of KHW0 at 2019/11



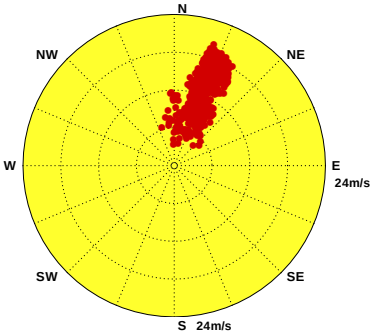
Wind of CNX0 at 2019/11 NO=413(57%)
MEAN=5.9m/s MAX=12.8m/s(N)
N~E:49% E~S:1% S~W:3% W~N:47% Calm:0%



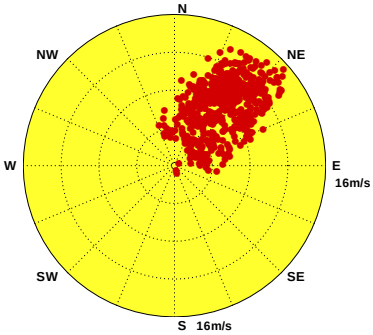
Wind of TCW0 at 2019/11 NO=720(100%)
MEAN=13.9m/s MAX=28.1m/s(NNE)
N~E:92% E~S:2% S~W:2% W~N:3% Calm:1%



Wind of PHY0 at 2019/11 NO=709(98%)
MEAN=12.2m/s MAX=19.2m/s(NNE)
N~E:96% E~S:0% S~W:0% W~N:4% Calm:0%



Wind of KMY0 at 2019/11 NO=563(78%)
MEAN=7.6m/s MAX=14.7m/s(NE)
N~E:93% E~S:3% S~W:1% W~N:3% Calm:0%



Wind of MSY0 at 2019/11 NO=720(100%)
MEAN=9.9m/s MAX=15.3m/s(NE)
N~E:96% E~S:2% S~W:0% W~N:2% Calm:0%

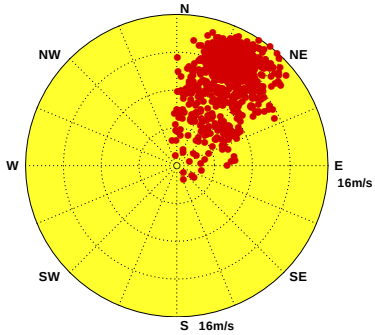


圖4.12a 2019年11月12海域主要測站1修補前觀測風向量分佈圖

W19BTPX0.1H0 W19BKLW0.1H0 W19BSAW0.1H0 W19BHLW0.1H0 W19BLTY0.1H0 W19BPNY0.1H0
W19BKHW0.1H0 W19BCNX0.1H0 W19BTCW0.1H0 W19BPHY0.1H0 W19BKMY0.1H0 W19BMSY0.1H0

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Distribution of Wind Vectores

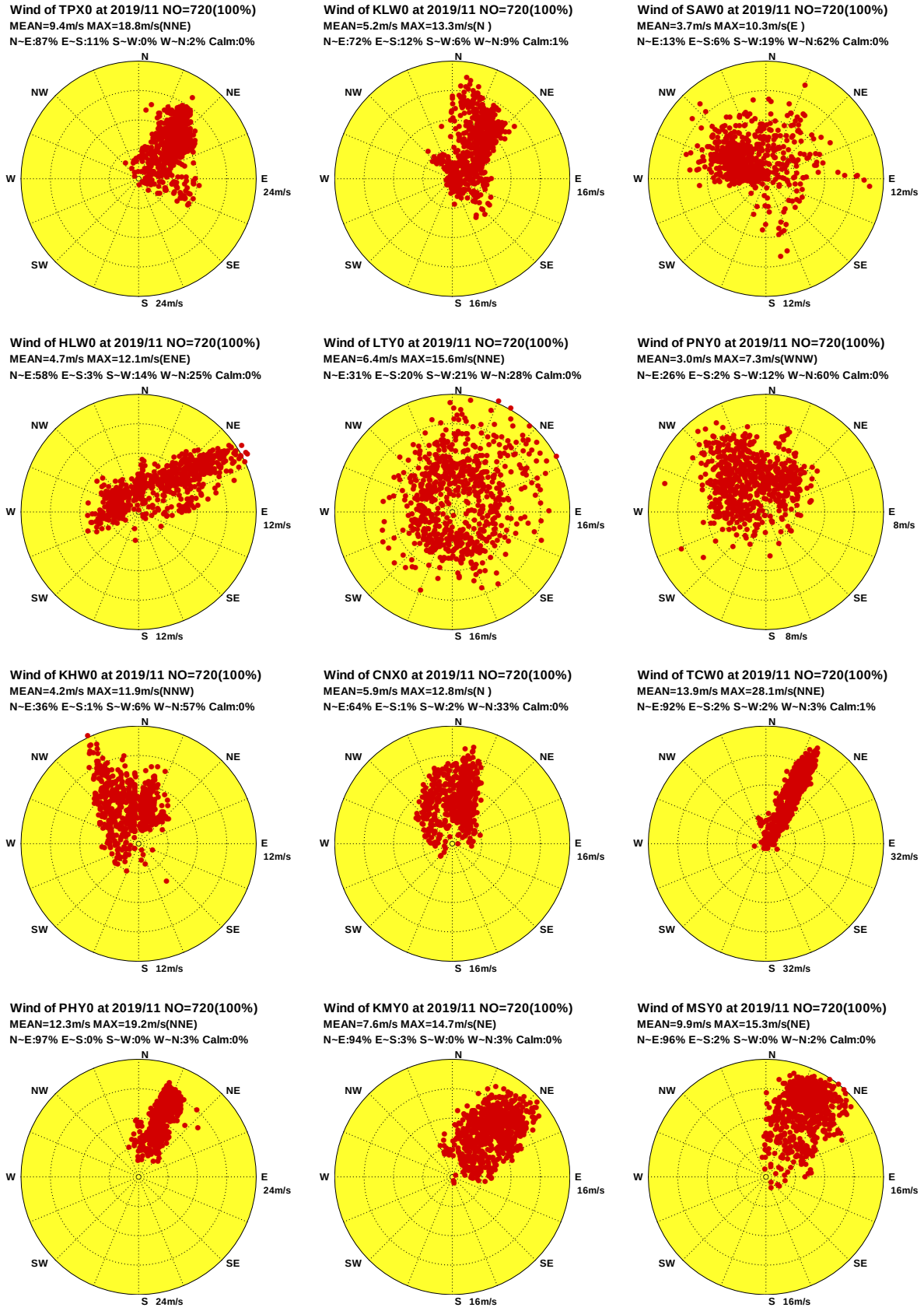

圖4.12b 2019年11月12海域主要測站1修補後觀測風向量分佈圖

W19BTPX0.1HA W19BKLW0.1HA W19BSAW0.1HA W19BHLW0.1HA W19BLTY0.1HA W19BPNY0.1HA
W19BKHW0.1HA W19BCNX0.1HA W19BTCW0.1HA W19BPHY0.1HA W19BKMY0.1HA W19BMSY0.1HA

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第五章 2019 年 12 海域風力主要測站 1 修補前後風力向量行進圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

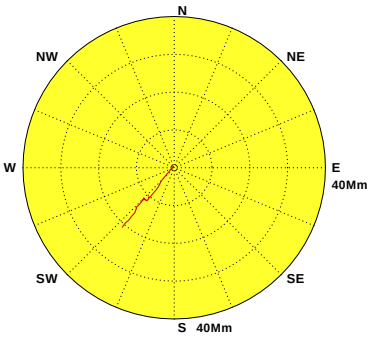
(澎湖海域)

(金門海域)

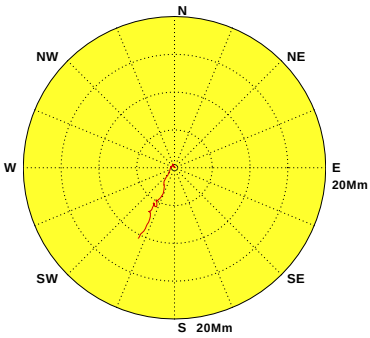
(馬祖海域)

Progressive Vector Diagram of Wind

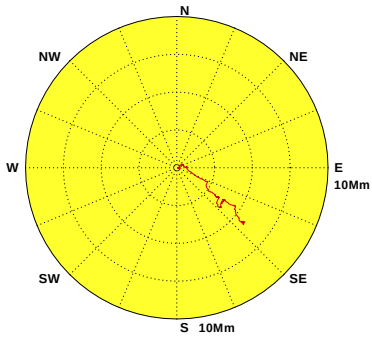
Wind of TPX0 at 2018/12 NO=744(100%)
MEAN=9.0m/s MAX=18.8m/s(NE)
N~E:72% E~S:17% S~W:5% W~N:6% Calm:0%



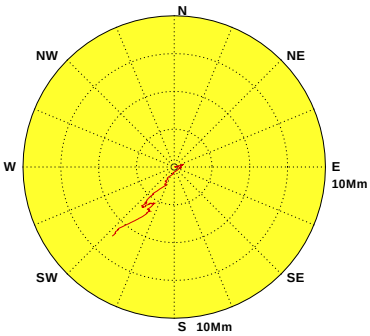
Wind of KLW0 at 2018/12 NO=744(100%)
MEAN=5.2m/s MAX=12.9m/s(N)
N~E:59% E~S:15% S~W:10% W~N:16% Calm:0%



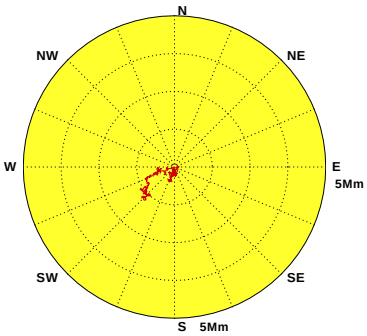
Wind of SAW0 at 2018/12 NO=744(100%)
MEAN=3.9m/s MAX=11.7m/s(NNE)
N~E:13% E~S:9% S~W:14% W~N:64% Calm:0%



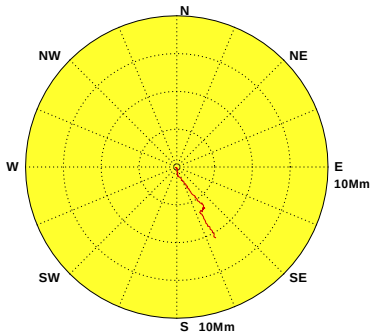
Wind of HLW0 at 2018/12 NO=744(100%)
MEAN=4.5m/s MAX=13.5m/s(ENE)
N~E:49% E~S:8% S~W:20% W~N:22% Calm:1%



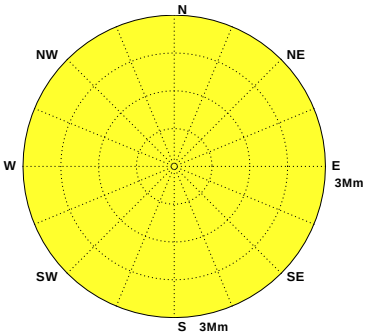
Wind of LTY0 at 2018/12 NO=581(78%)
MEAN=5.9m/s MAX=13.9m/s(SSE)
N~E:30% E~S:22% S~W:23% W~N:25% Calm:0%



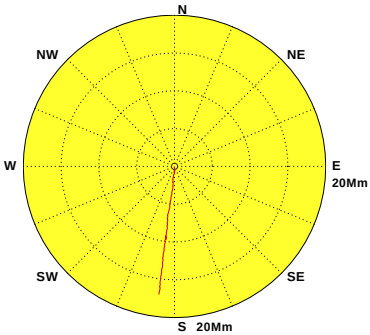
Wind of PNY0 at 2018/12 NO=665(89%)
MEAN=3.0m/s MAX=9.1m/s(SE)
N~E:24% E~S:4% S~W:4% W~N:67% Calm:1%



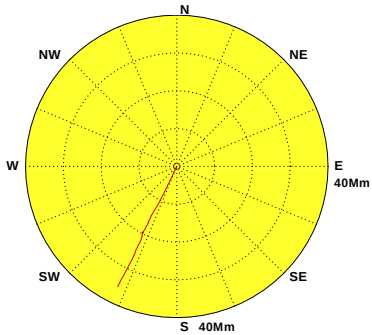
Wind of KHW0 at 2018/12



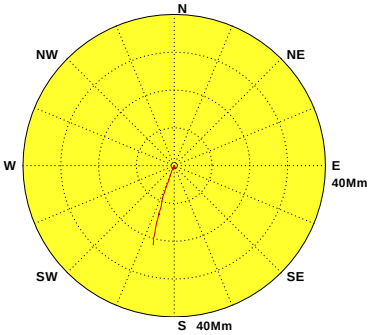
Wind of CNX0 at 2018/12 NO=744(100%)
MEAN=6.8m/s MAX=13.9m/s(NNE)
N~E:74% E~S:1% S~W:1% W~N:24% Calm:0%



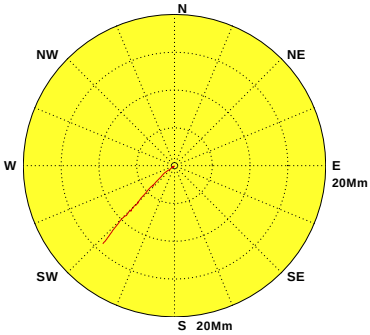
Wind of TCW0 at 2018/12 NO=744(100%)
MEAN=13.7m/s MAX=26.2m/s(NNE)
N~E:88% E~S:5% S~W:2% W~N:4% Calm:1%



Wind of PHY0 at 2018/12 NO=631(85%)
MEAN=10.5m/s MAX=17.5m/s(N)
N~E:82% E~S:4% S~W:3% W~N:11% Calm:0%



Wind of KMY0 at 2018/12 NO=580(78%)
MEAN=7.2m/s MAX=14.5m/s(NE)
N~E:84% E~S:6% S~W:4% W~N:6% Calm:0%



Wind of MSY0 at 2018/12 NO=578(78%)
MEAN=9.9m/s MAX=16.6m/s(NNE)
N~E:84% E~S:1% S~W:6% W~N:9% Calm:0%

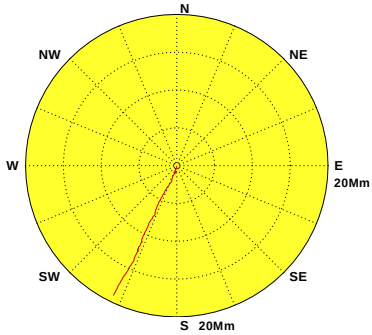


圖5.1a 2018年12月12海域主要測站1修補前觀測風向量行進圖

W18CTPX0.1H0 W18CKLW0.1H0 W18CSAW0.1H0 W18CHLW0.1H0 W18CLTY0.1H0 W18CPNY0.1H0
W18CKHW0.1H0 W18CCNX0.1H0 W18CTCW0.1H0 W18CPHY0.1H0 W18CKMY0.1H0 W18CMSY0.1H0

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Progressive Vector Diagram of Wind

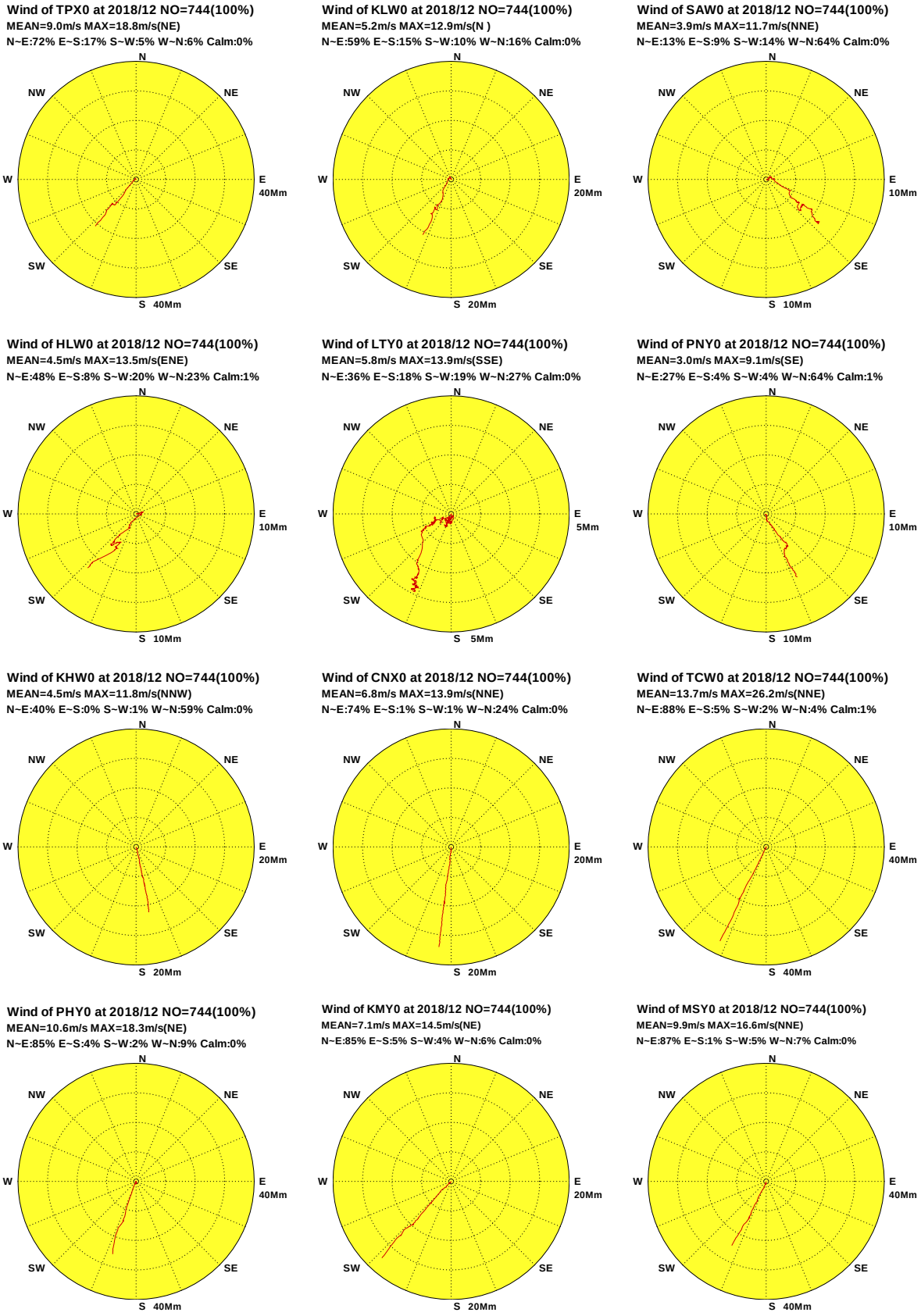

圖5.1b 2018年12月12海域主要測站1修補後觀測風向量行進圖

W18CTPX0.1HA W18CKLW0.1HA W18CSAW0.1HA W18CHLW0.1HA W18CLTY0.1HA W18CPNY0.1HA
W18CKHW0.1HA W18CCNX0.1HA W18CTCW0.1HA W18CPHY0.1HA W18CKMY0.1HA W18CMSY0.1HA

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Progressive Vector Diagram of Wind

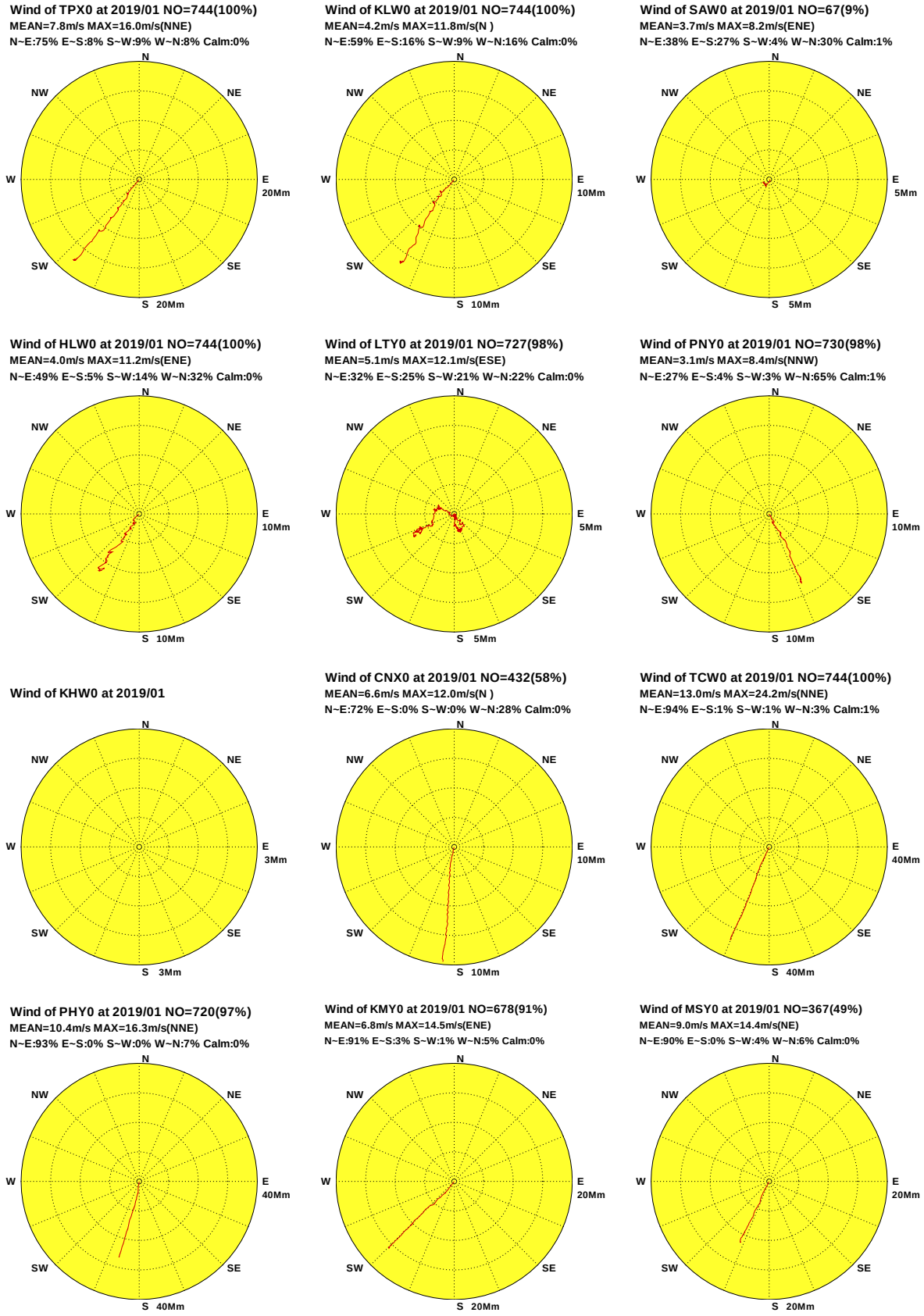

圖5.2a 2019年 1月12海域主要測站1修補前觀測風向量行進圖

W191TPX0.1H0 W191KLW0.1H0 W191SAW0.1H0 W191HLW0.1H0 W191LTY0.1H0 W191PNY0.1H0
W191KHW0.1H0 W191CNX0.1H0 W191TCW0.1H0 W191PHY0.1H0 W191KMY0.1H0 W191MSY0.1H0

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Progressive Vector Diagram of Wind

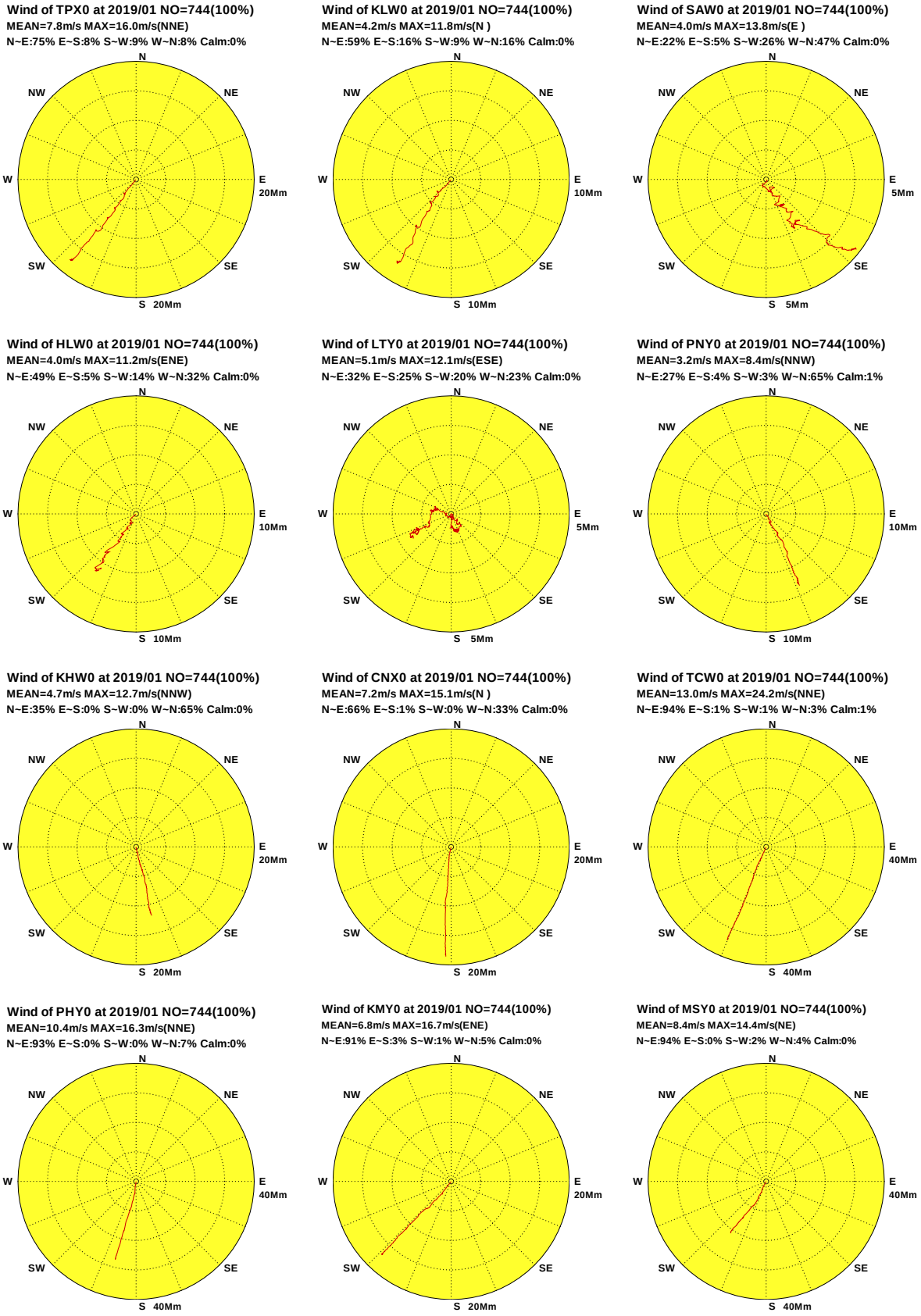

圖5.2b 2019年 1月12海域主要測站1修補後觀測風向量行進圖

W191TPX0.1HA W191KLW0.1HA W191SAW0.1HA W191HLW0.1HA W191LTY0.1HA W191PNY0.1HA
W191KHW0.1HA W191CNX0.1HA W191TCW0.1HA W191PHY0.1HA W191KMY0.1HA W191MSY0.1HA

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Progressive Vector Diagram of Wind

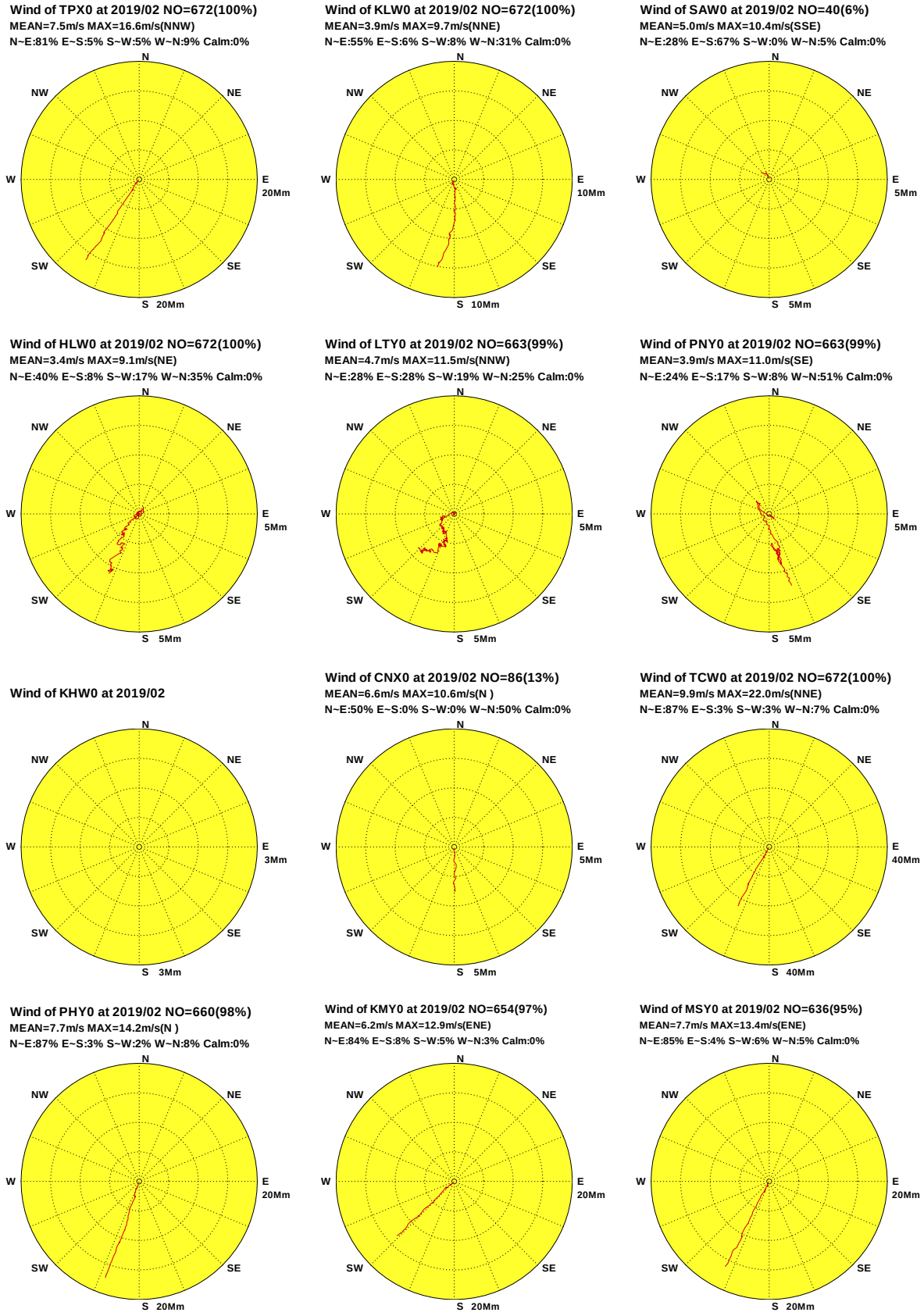

圖5.3a 2019年 2月12海域主要測站1修補前觀測風向量行進圖

W192TPX0.1H0 W192KLW0.1H0 W192SAW0.1H0 W192HLW0.1H0 W192LTY0.1H0 W192PNY0.1H0
W192KHW0.1H0 W192CNX0.1H0 W192TCW0.1H0 W192PHY0.1H0 W192KMY0.1H0 W192MSY0.1H0

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Progressive Vector Diagram of Wind

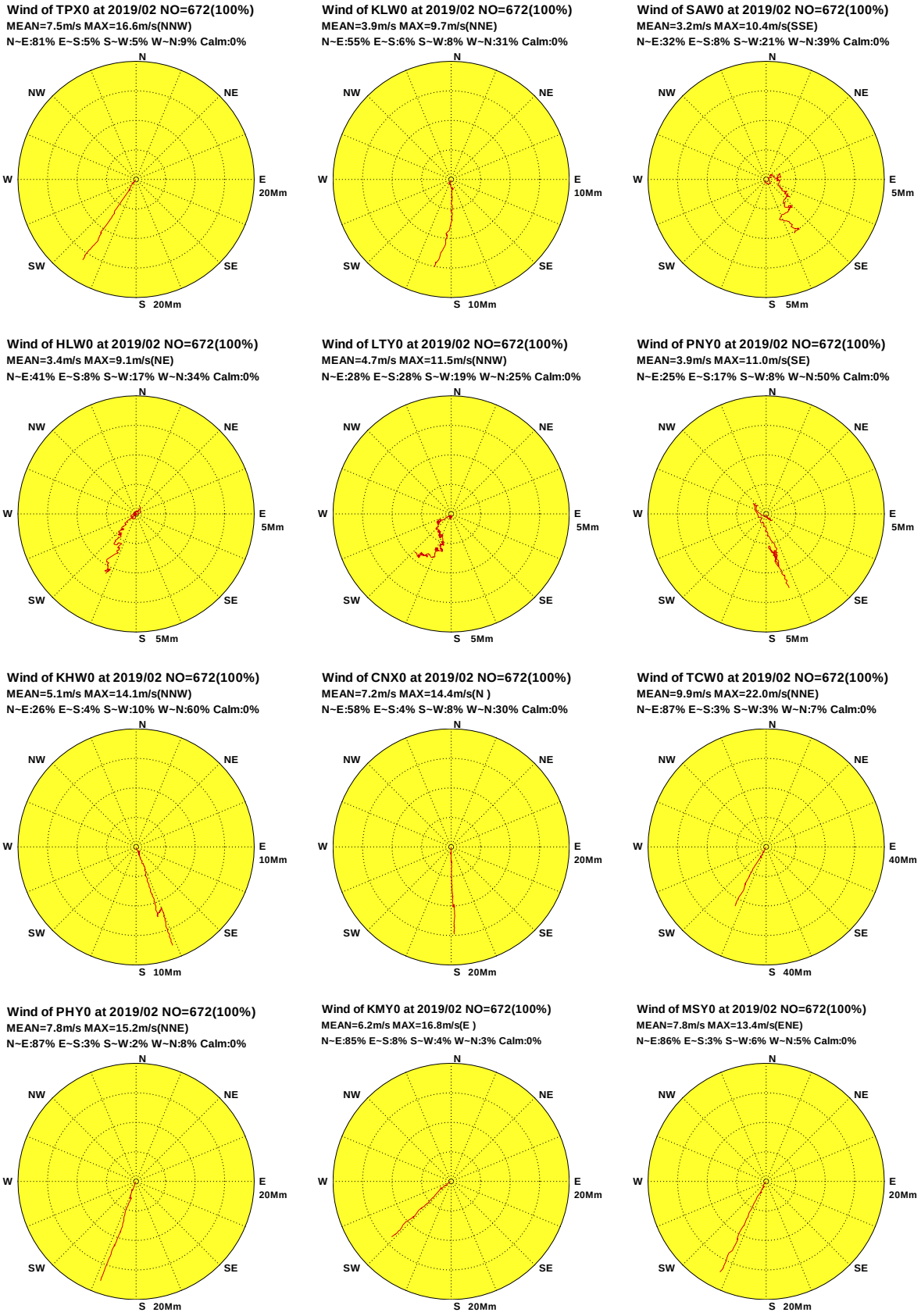

圖5.3b 2019年 2月12海域主要測站1修補後觀測風向量行進圖

W192TPX0.1HA W192KLW0.1HA W192SAW0.1HA W192HLW0.1HA W192LTY0.1HA W192PNY0.1HA
W192KHW0.1HA W192CNX0.1HA W192TCW0.1HA W192PHY0.1HA W192KMY0.1HA W192MSY0.1HA

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Progressive Vector Diagram of Wind

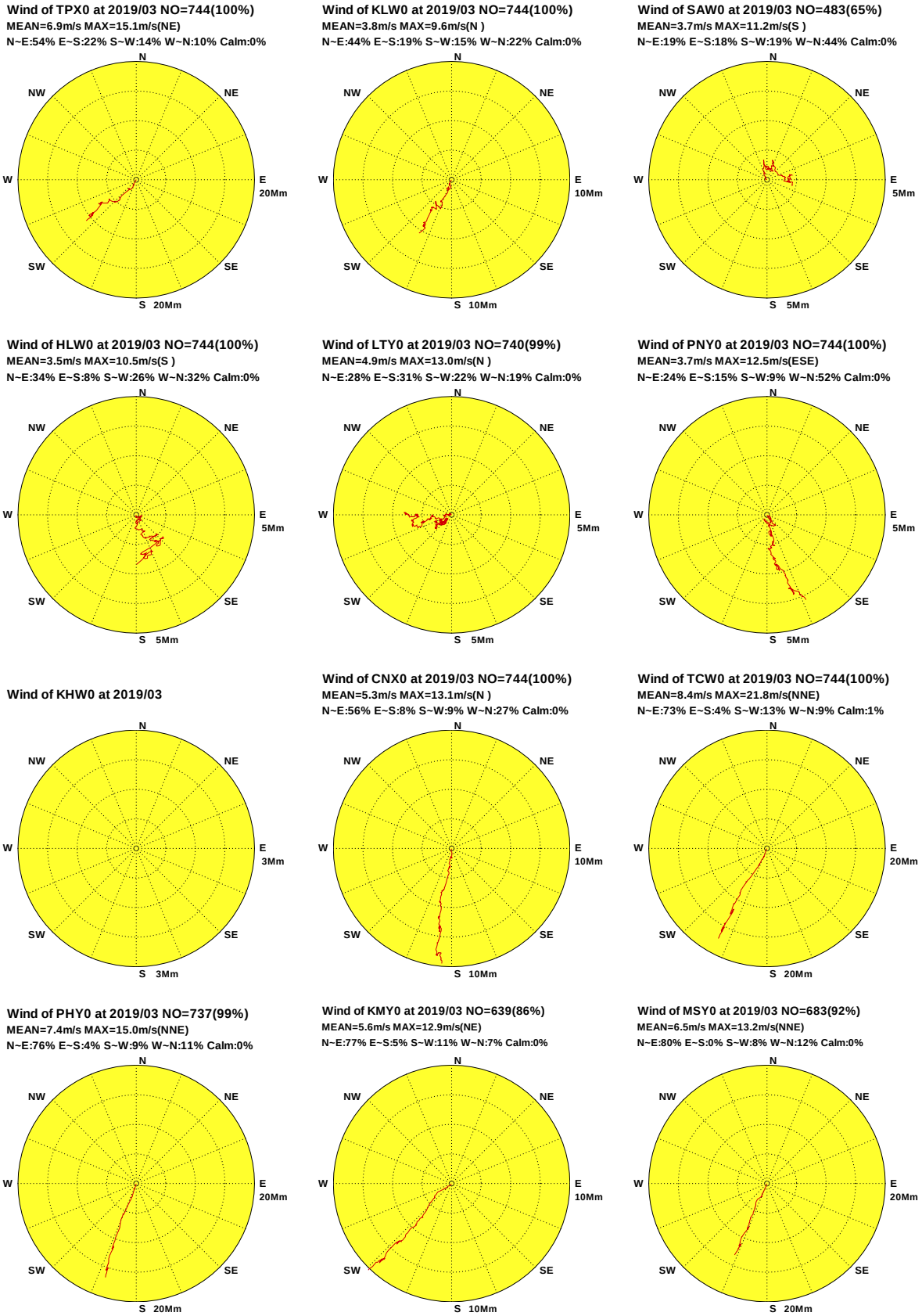

圖5.4a 2019年 3月12海域主要測站1修補前觀測風向量行進圖

W193TPX0.1H0 W193KLW0.1H0 W193SAW0.1H0 W193HLW0.1H0 W193LTY0.1H0 W193PNY0.1H0
W193KHW0.1H0 W193CNX0.1H0 W193TCW0.1H0 W193PHY0.1H0 W193KMY0.1H0 W193MSY0.1H0

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Progressive Vector Diagram of Wind

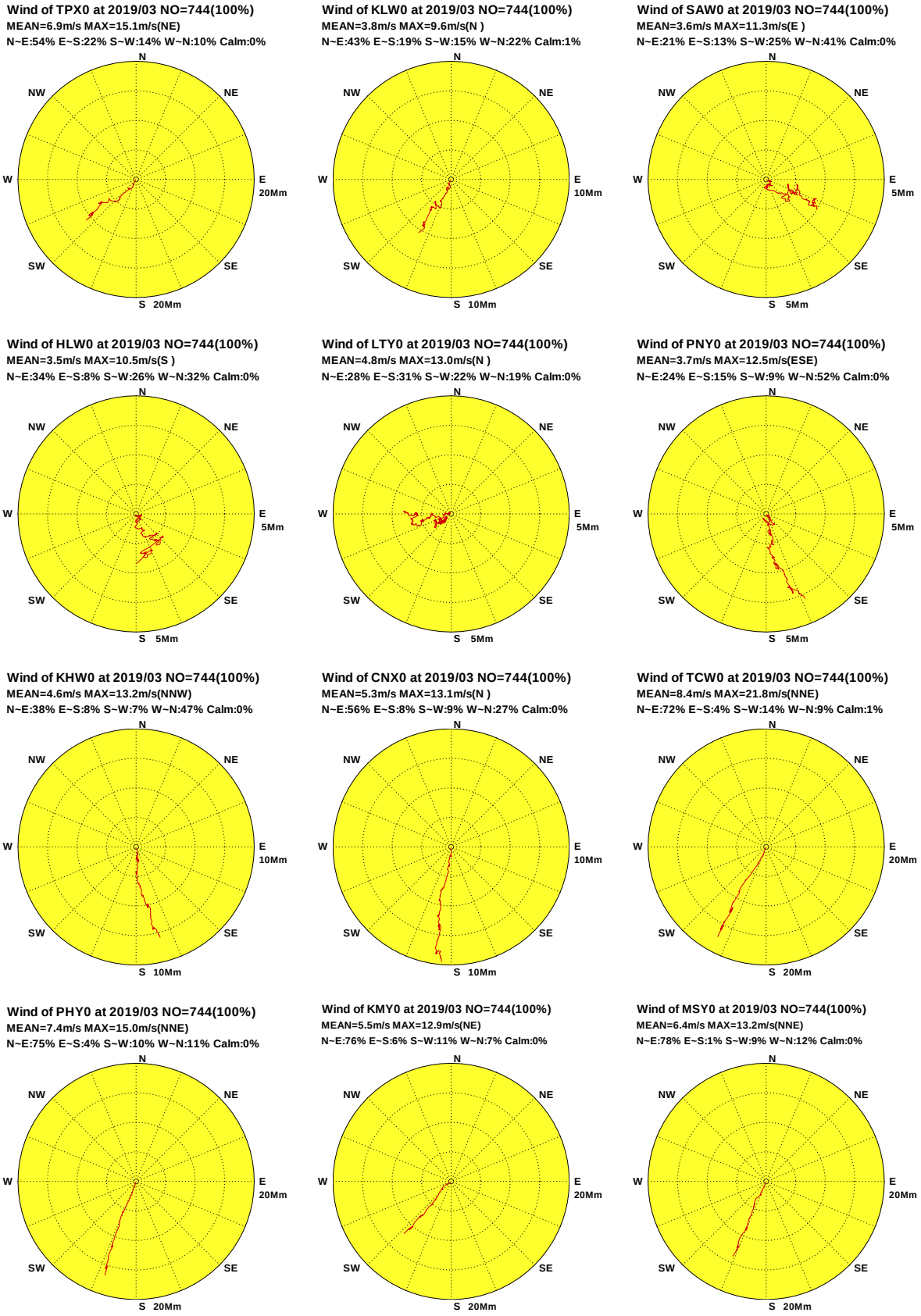

圖5.4b 2019年 3月12海域主要測站1修補後觀測風向量行進圖

W193TPX0.1HA W193KLW0.1HA W193SAW0.1HA W193HLW0.1HA W193LTY0.1HA W193PNY0.1HA
W193KHW0.1HA W193CNX0.1HA W193TCW0.1HA W193PHY0.1HA W193KMY0.1HA W193MSY0.1HA

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Progressive Vector Diagram of Wind

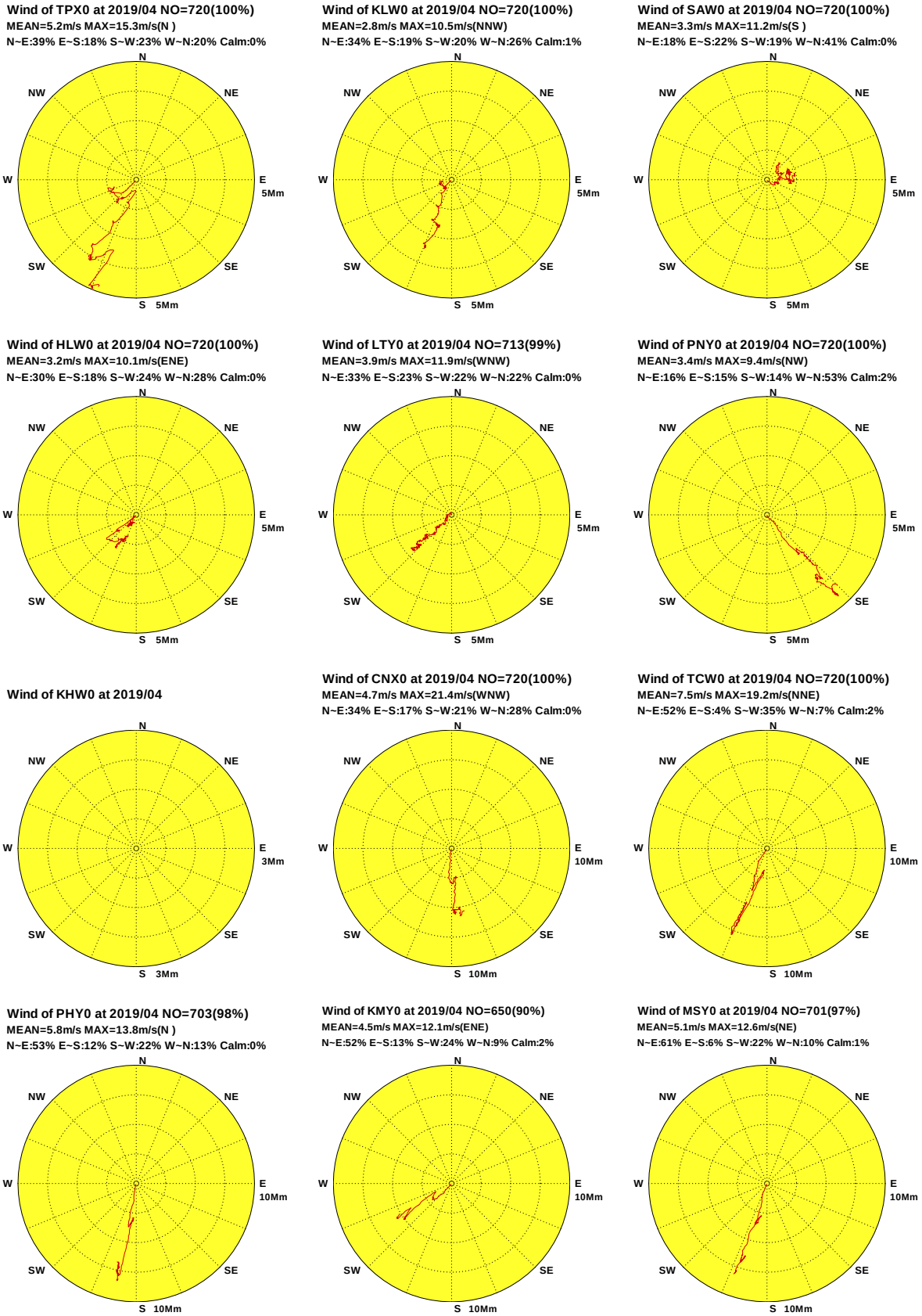

圖5.5a 2019年 4月12海域主要測站1修補前觀測風向量行進圖

W194TPX0.1H0 W194KLW0.1H0 W194SAW0.1H0 W194HLW0.1H0 W194LTY0.1H0 W194PNY0.1H0
W194KHW0.1H0 W194CNX0.1H0 W194TCW0.1H0 W194PHY0.1H0 W194KMY0.1H0 W194MSY0.1H0

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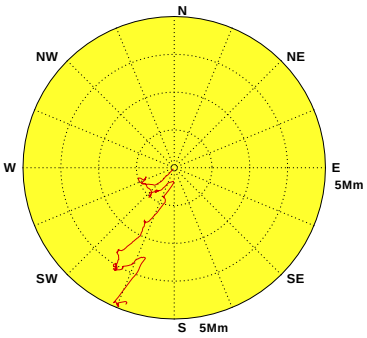
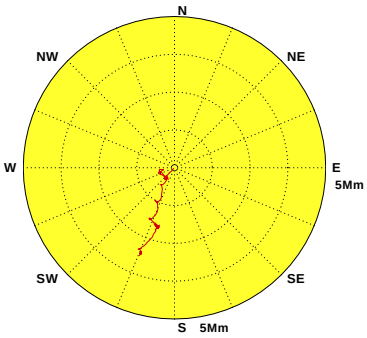
Progressive Vector Diagram of Wind

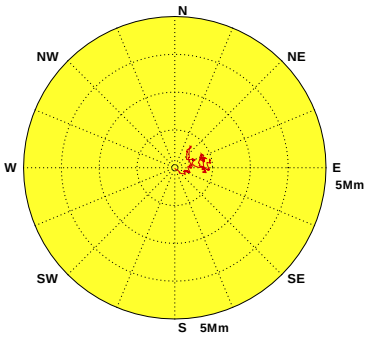
Wind of TPX0 at 2019/04 NO=720(100%)
MEAN=5.2m/s MAX=15.3m/s(N)
N~E:39% E~S:18% S~W:23% W~N:20% Calm:0%



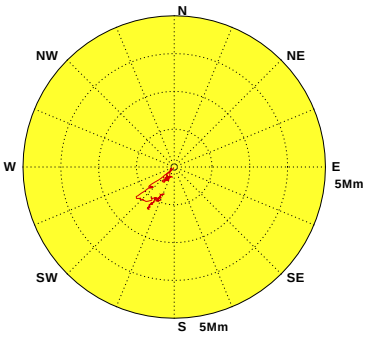
Wind of KLW0 at 2019/04 NO=720(100%)
MEAN=2.8m/s MAX=10.5m/s(NNW)
N~E:34% E~S:19% S~W:20% W~N:26% Calm:1%



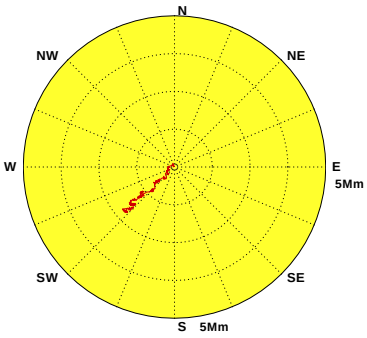
Wind of SAW0 at 2019/04 NO=720(100%)
MEAN=3.3m/s MAX=11.2m/s(S)
N~E:18% E~S:22% S~W:19% W~N:41% Calm:0%



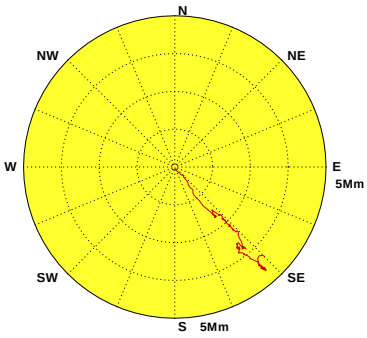
Wind of HLW0 at 2019/04 NO=720(100%)
MEAN=3.2m/s MAX=10.1m/s(ENE)
N~E:30% E~S:18% S~W:24% W~N:28% Calm:0%



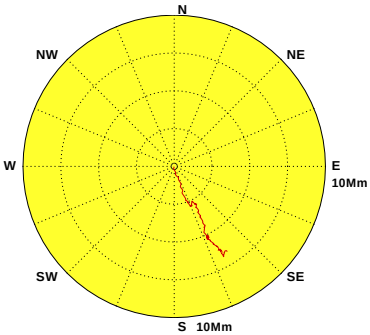
Wind of LTY0 at 2019/04 NO=720(100%)
MEAN=3.9m/s MAX=11.9m/s(WNW)
N~E:33% E~S:23% S~W:22% W~N:22% Calm:0%



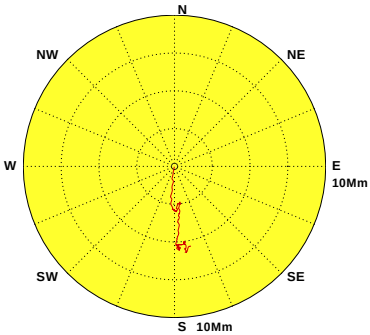
Wind of PNY0 at 2019/04 NO=720(100%)
MEAN=3.4m/s MAX=9.4m/s(NW)
N~E:16% E~S:15% S~W:14% W~N:53% Calm:2%



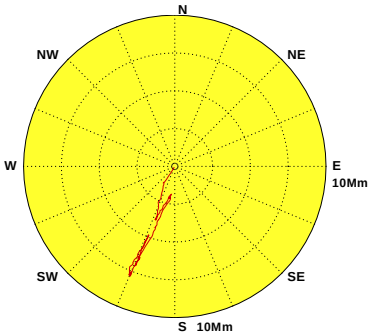
Wind of KHW0 at 2019/04 NO=720(100%)
MEAN=4.1m/s MAX=13.1m/s(NNW)
N~E:25% E~S:6% S~W:14% W~N:55% Calm:0%



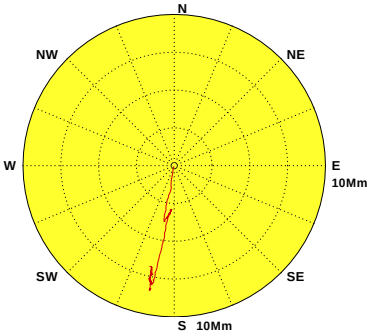
Wind of CNX0 at 2019/04 NO=720(100%)
MEAN=4.7m/s MAX=21.4m/s(WNW)
N~E:34% E~S:17% S~W:21% W~N:28% Calm:0%



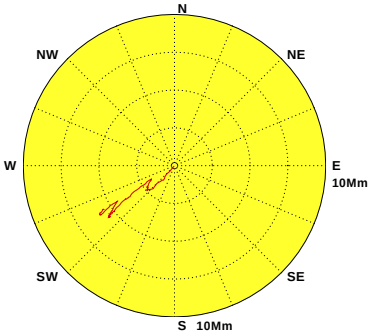
Wind of TCW0 at 2019/04 NO=720(100%)
MEAN=7.5m/s MAX=19.2m/s(NNE)
N~E:51% E~S:4% S~W:35% W~N:8% Calm:2%



Wind of PHY0 at 2019/04 NO=720(100%)
MEAN=5.8m/s MAX=13.8m/s(N)
N~E:52% E~S:12% S~W:23% W~N:13% Calm:0%



Wind of KMY0 at 2019/04 NO=720(100%)
MEAN=4.4m/s MAX=12.1m/s(ENE)
N~E:52% E~S:13% S~W:26% W~N:8% Calm:1%



Wind of MSY0 at 2019/04 NO=720(100%)
MEAN=5.1m/s MAX=12.6m/s(NE)
N~E:60% E~S:6% S~W:23% W~N:10% Calm:1%

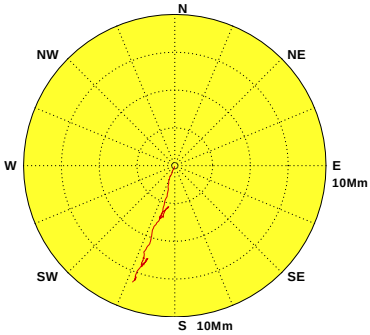


圖5.5b 2019年 4月12海域主要測站1修補後觀測風向量行進圖

W194TPX0.1HA W194KLW0.1HA W194SAW0.1HA W194HLW0.1HA W194LTY0.1HA W194PNY0.1HA
W194KHW0.1HA W194CNX0.1HA W194TCW0.1HA W194PHY0.1HA W194KMY0.1HA W194MSY0.1HA

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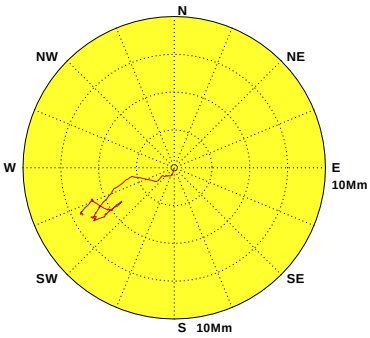
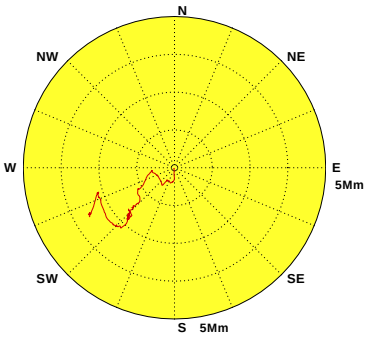
Progressive Vector Diagram of Wind

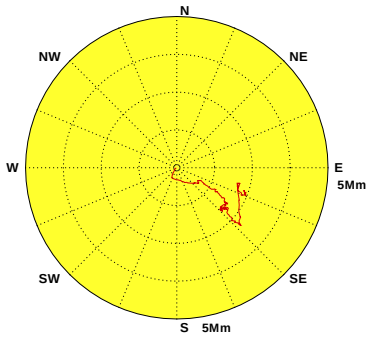
Wind of TPX0 at 2019/05 NO=735(99%)
MEAN=5.8m/s MAX=14.4m/s(NNE)
N~E:46% E~S:27% S~W:19% W~N:8% Calm:0%



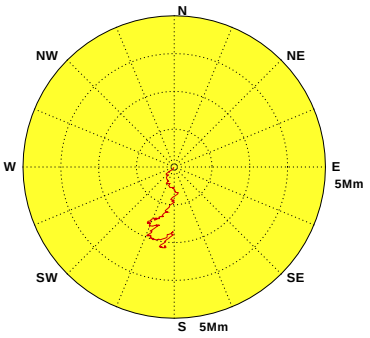
Wind of KLW0 at 2019/05 NO=744(100%)
MEAN=3.1m/s MAX=10.9m/s(NNE)
N~E:38% E~S:31% S~W:16% W~N:15% Calm:0%



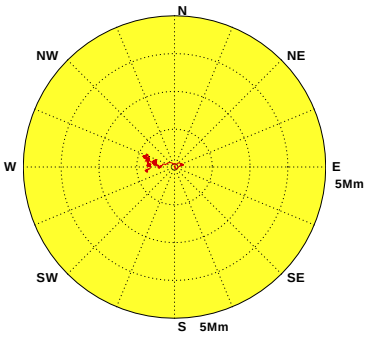
Wind of SAW0 at 2019/05 NO=744(100%)
MEAN=3.2m/s MAX=11.6m/s(NNE)
N~E:14% E~S:17% S~W:22% W~N:47% Calm:0%



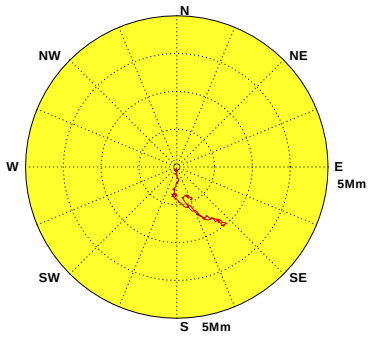
Wind of HLW0 at 2019/05 NO=744(100%)
MEAN=3.1m/s MAX=10.0m/s(NE)
N~E:35% E~S:8% S~W:20% W~N:37% Calm:0%



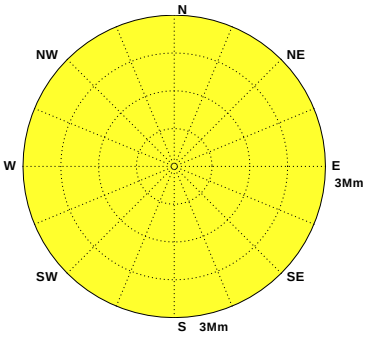
Wind of LTY0 at 2019/05 NO=734(99%)
MEAN=3.5m/s MAX=11.8m/s(SW)
N~E:28% E~S:29% S~W:21% W~N:22% Calm:0%



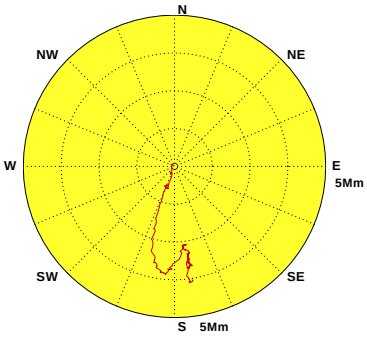
Wind of PNY0 at 2019/05 NO=738(99%)
MEAN=3.0m/s MAX=9.5m/s(SSE)
N~E:25% E~S:22% S~W:12% W~N:39% Calm:2%



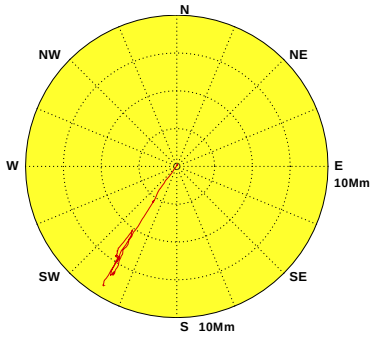
Wind of KHW0 at 2019/05



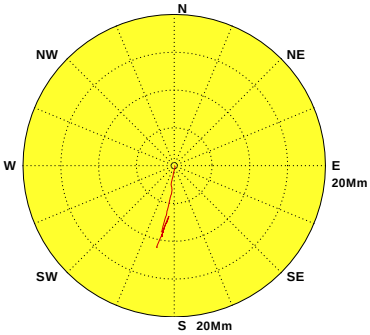
Wind of CNX0 at 2019/05 NO=735(99%)
MEAN=3.9m/s MAX=11.3m/s(S)
N~E:38% E~S:17% S~W:20% W~N:25% Calm:0%



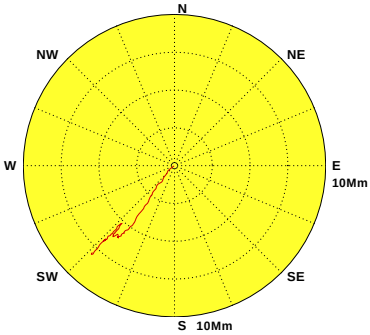
Wind of TCW0 at 2019/05 NO=744(100%)
MEAN=7.0m/s MAX=20.7m/s(NNE)
N~E:57% E~S:3% S~W:28% W~N:9% Calm:3%



Wind of PHY0 at 2019/05 NO=707(95%)
MEAN=6.8m/s MAX=14.5m/s(NNE)
N~E:61% E~S:5% S~W:22% W~N:12% Calm:0%



Wind of KMY0 at 2019/05 NO=674(91%)
MEAN=4.8m/s MAX=14.4m/s(ENE)
N~E:68% E~S:8% S~W:18% W~N:6% Calm:0%



Wind of MSY0 at 2019/05 NO=727(98%)
MEAN=5.2m/s MAX=13.7m/s(NE)
N~E:79% E~S:5% S~W:10% W~N:6% Calm:0%

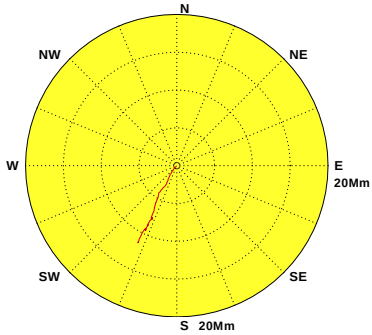


圖5.6a 2019年 5月12海域主要測站1修補前觀測風向量行進圖

W195TPX0.1H0 W195KLW0.1H0 W195SAW0.1H0 W195HLW0.1H0 W195LTY0.1H0 W195PNY0.1H0
W195KHW0.1H0 W195CNX0.1H0 W195TCW0.1H0 W195PHY0.1H0 W195KMY0.1H0 W195MSY0.1H0

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Progressive Vector Diagram of Wind

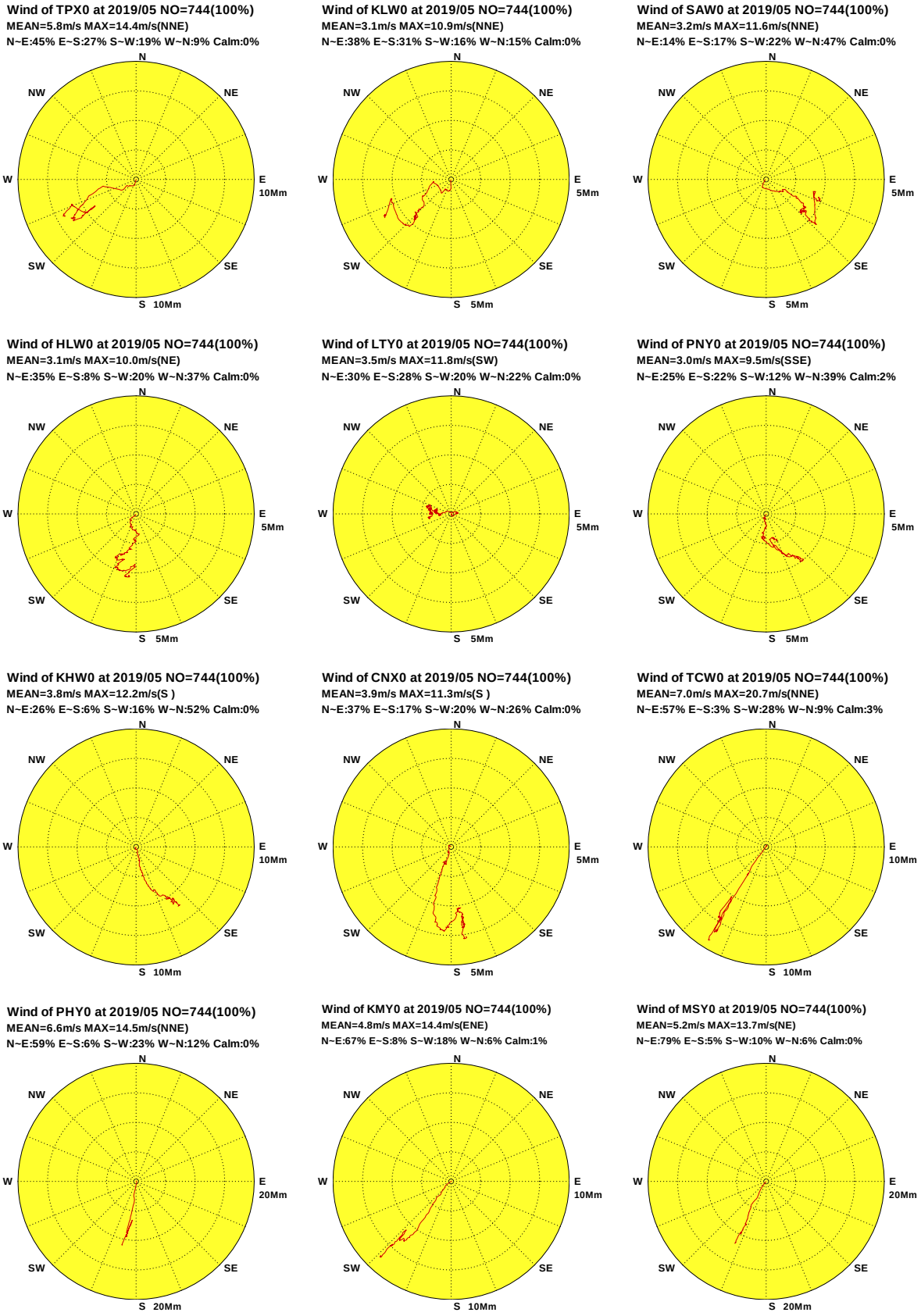

圖5.6b 2019年 5月12海域主要測站1修補後觀測風向量行進圖

W195TPX0.1HA W195KLW0.1HA W195SAW0.1HA W195HLW0.1HA W195LTY0.1HA W195PNY0.1HA
W195KHW0.1HA W195CNX0.1HA W195TCW0.1HA W195PHY0.1HA W195KMY0.1HA W195MSY0.1HA

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Progressive Vector Diagram of Wind

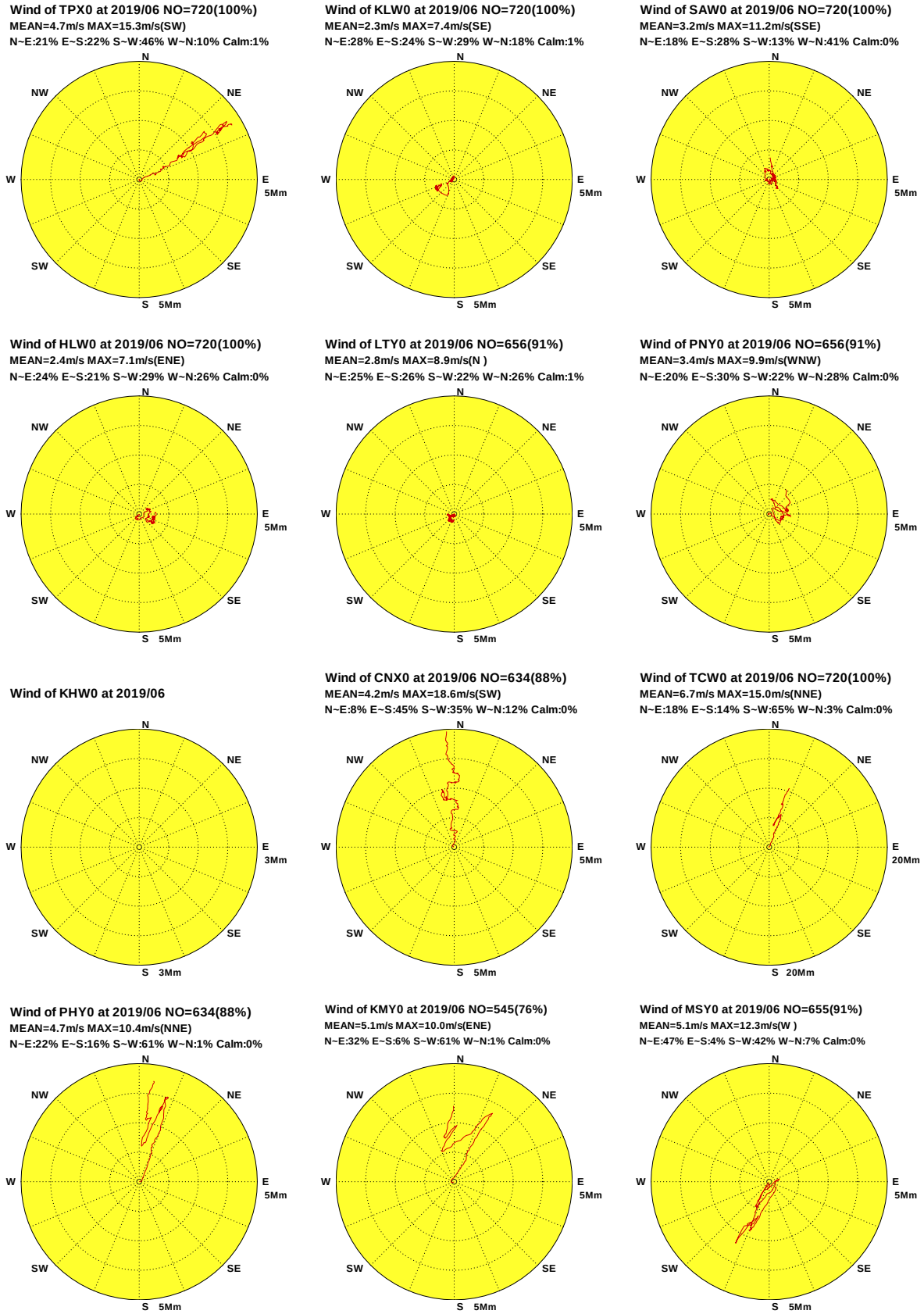

圖5.7a 2019年 6月12海域主要測站1修補前觀測風向量行進圖

W196TPX0.1H0 W196KLW0.1H0 W196SAW0.1H0 W196HLW0.1H0 W196LTY0.1H0 W196PNY0.1H0
W196KHW0.1H0 W196CNX0.1H0 W196TCW0.1H0 W196PHY0.1H0 W196KMY0.1H0 W196MSY0.1H0

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Progressive Vector Diagram of Wind

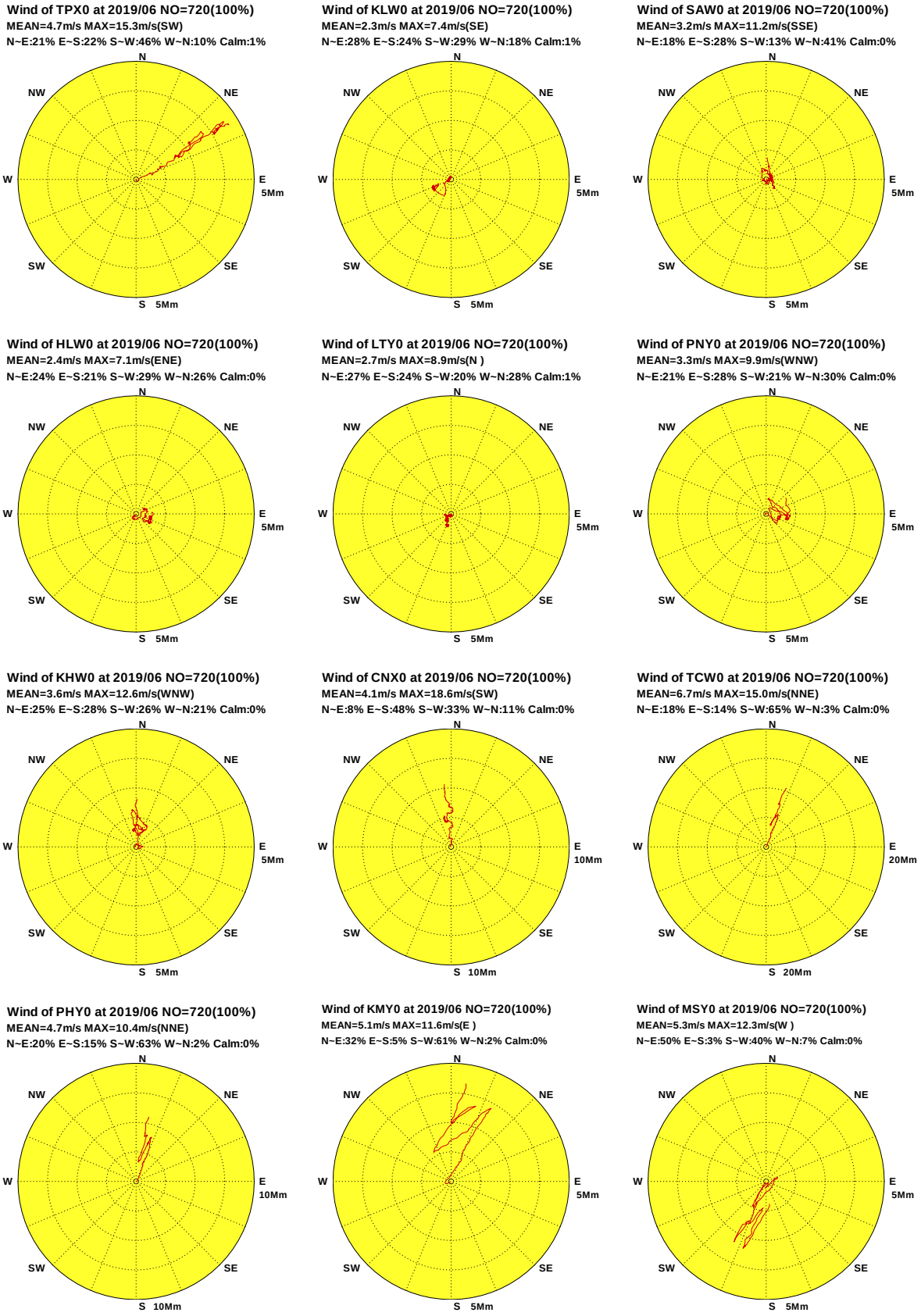

圖5.7b 2019年 6月12海域主要測站1修補後觀測風向量行進圖

W196TPX0.1HA W196KLW0.1HA W196SAW0.1HA W196HLW0.1HA W196LTY0.1HA W196PNY0.1HA
W196KHW0.1HA W196CNX0.1HA W196TCW0.1HA W196PHY0.1HA W196KMY0.1HA W196MSY0.1HA

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Progressive Vector Diagram of Wind

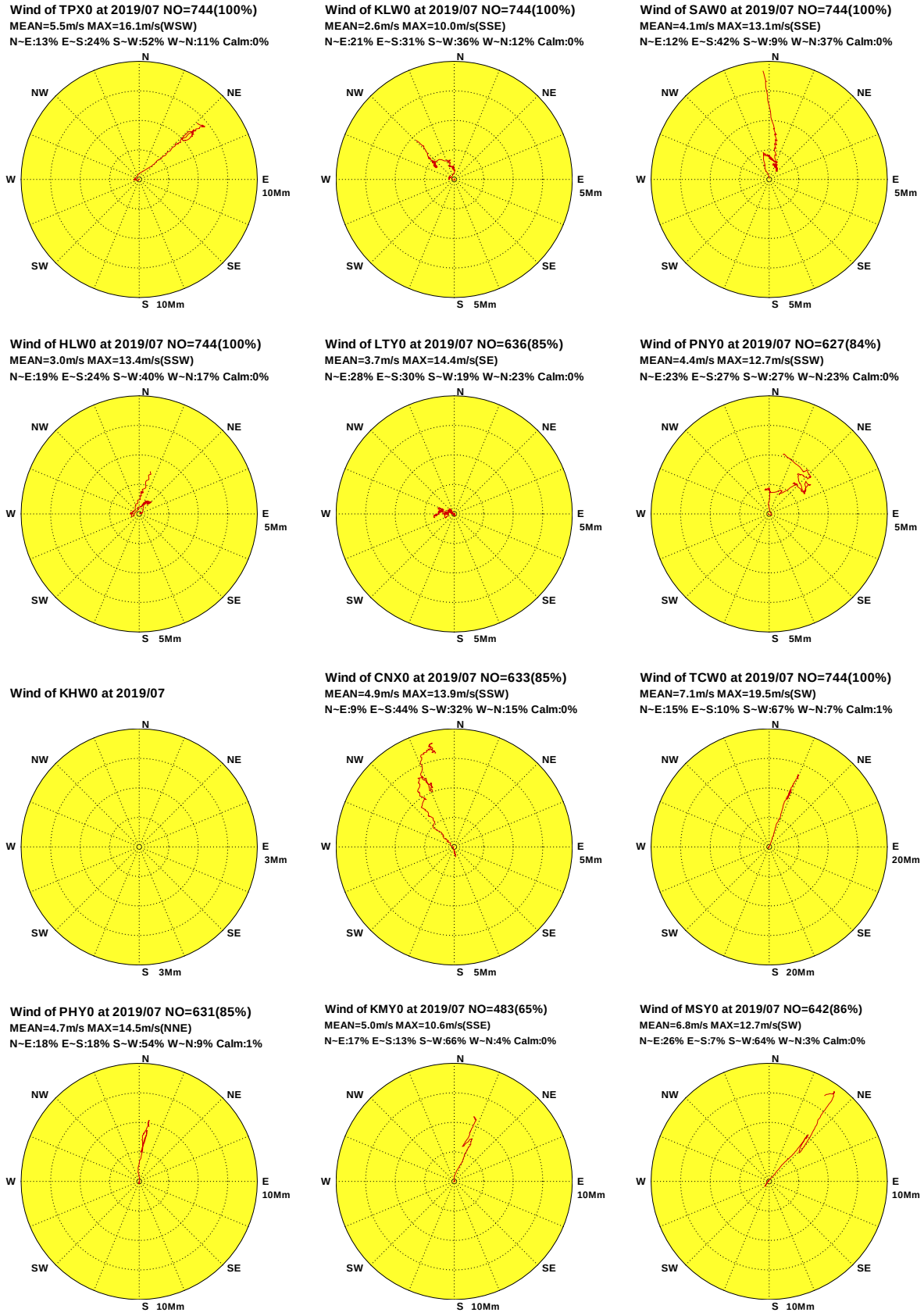

圖5.8a 2019年 7月12海域主要測站1修補前觀測風向量行進圖

W197TPX0.1H0 W197KLW0.1H0 W197SAW0.1H0 W197HLW0.1H0 W197LTY0.1H0 W197PNY0.1H0
W197KHW0.1H0 W197CNX0.1H0 W197TCW0.1H0 W197PHY0.1H0 W197KMY0.1H0 W197MSY0.1H0

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Progressive Vector Diagram of Wind

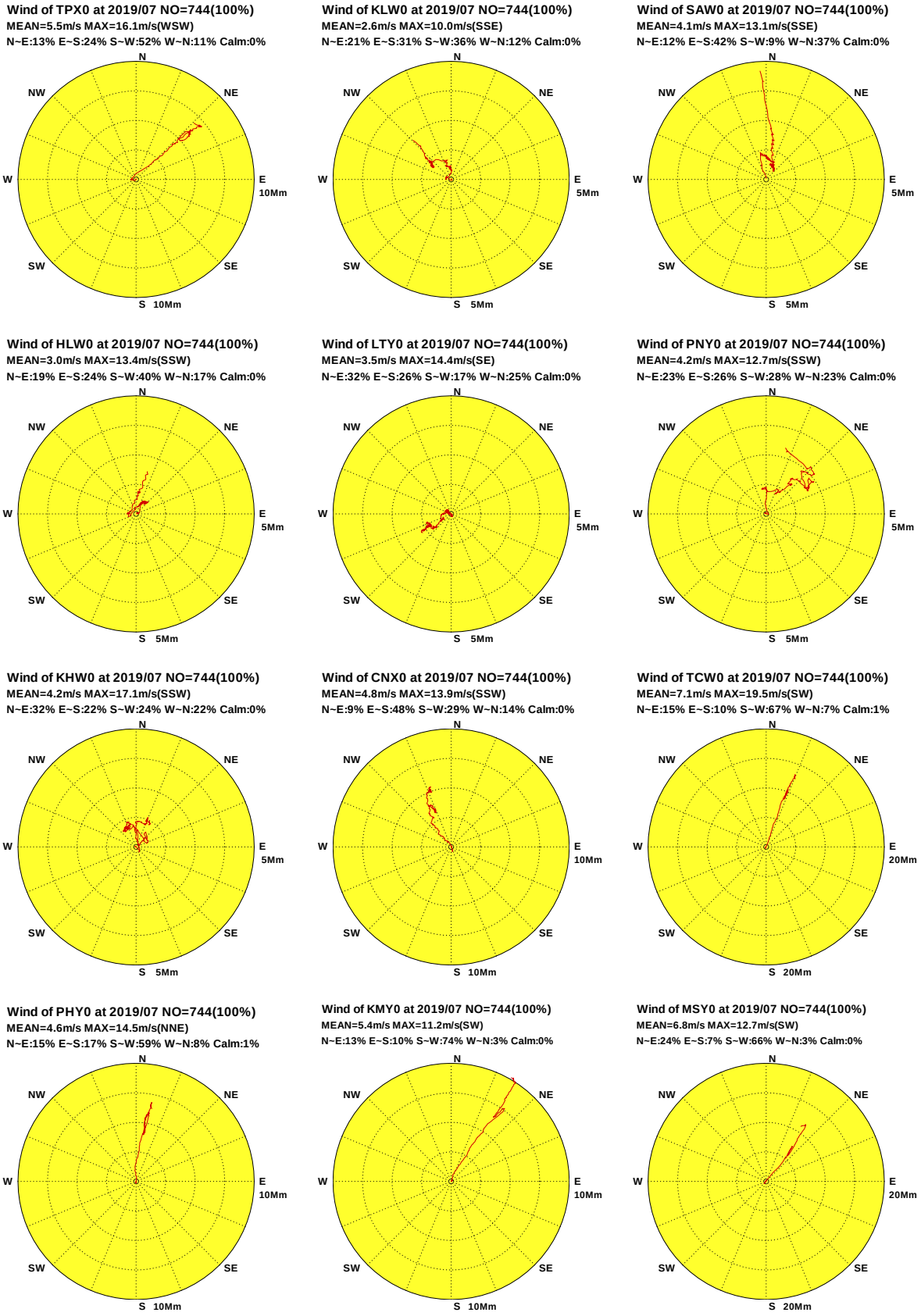

圖5.8b 2019年 7月12海域主要測站1修補後觀測風向量行進圖

W197TPX0.1HA W197KLW0.1HA W197SAW0.1HA W197HLW0.1HA W197LTY0.1HA W197PNY0.1HA
W197KHW0.1HA W197CNX0.1HA W197TCW0.1HA W197PHY0.1HA W197KMY0.1HA W197MSY0.1HA

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Progressive Vector Diagram of Wind

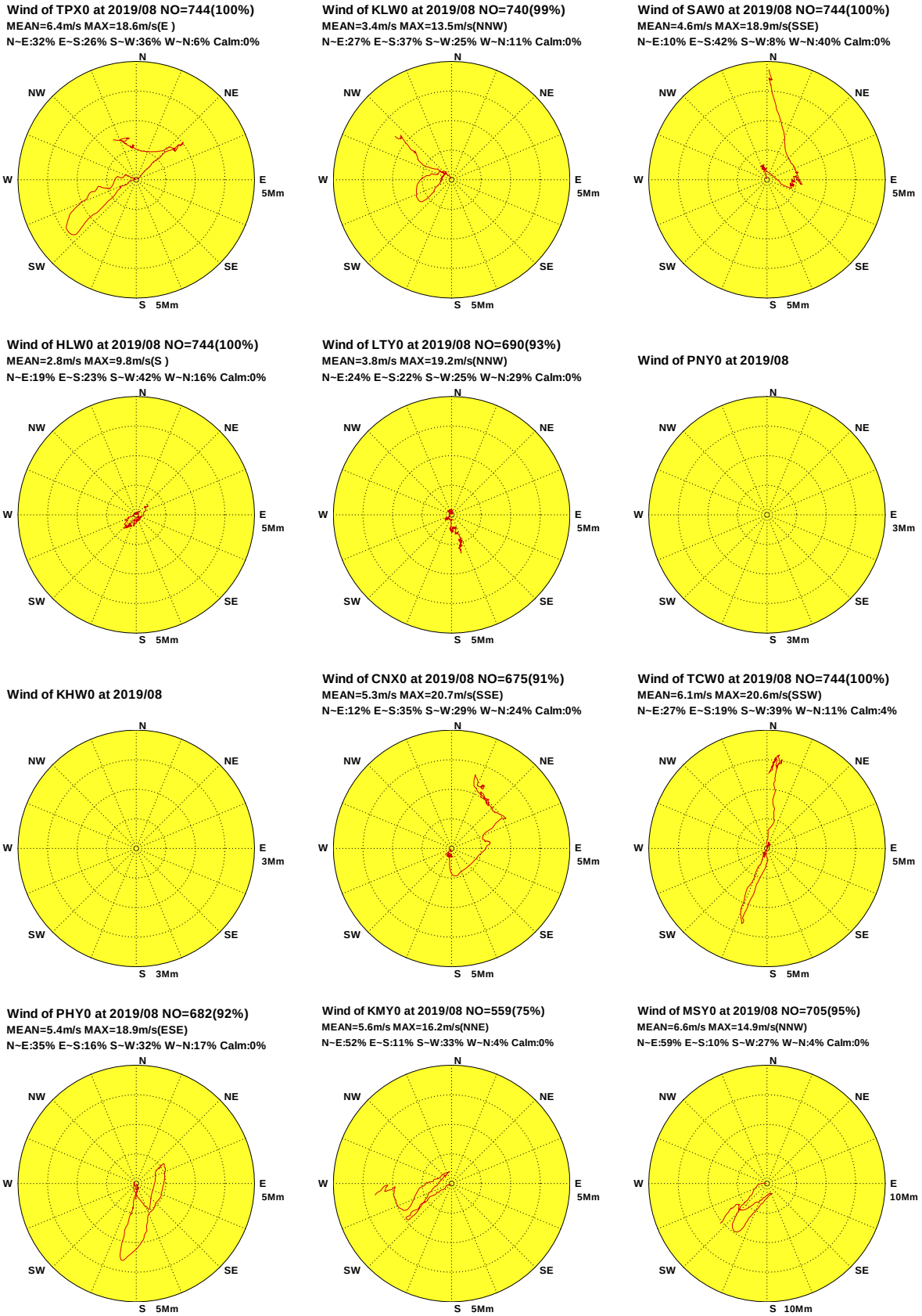

圖5.9a 2019年 8月12海域主要測站1修補前觀測風向量行進圖

W198TPX0.1H0 W198KLW0.1H0 W198SAW0.1H0 W198HLW0.1H0 W198LTY0.1H0 W198PNY0.1H0
W198KHW0.1H0 W198CNX0.1H0 W198TCW0.1H0 W198PHY0.1H0 W198KMY0.1H0 W198MSY0.1H0

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Progressive Vector Diagram of Wind

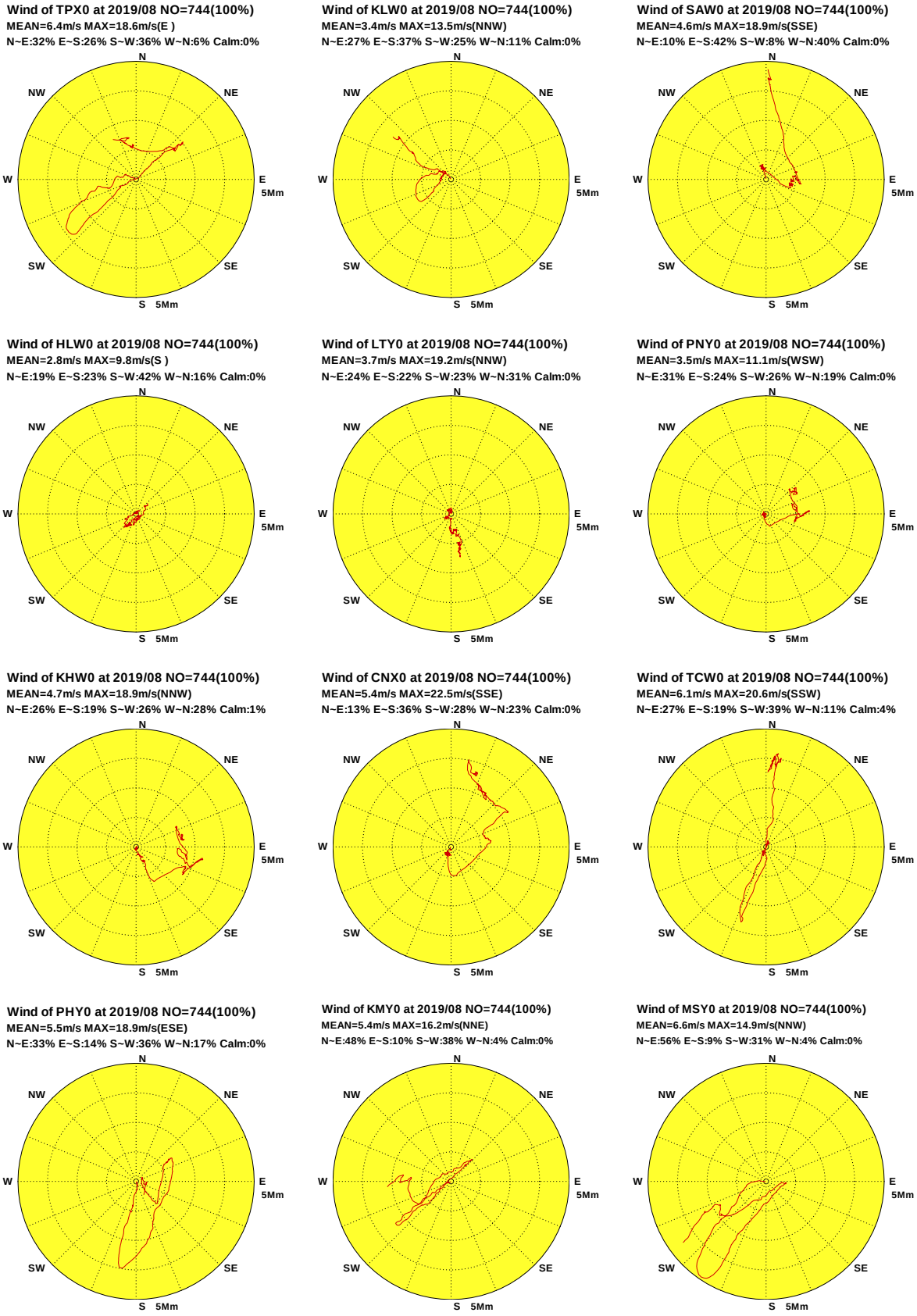

圖5.9b 2019年 8月12海域主要測站1修補後觀測風向量行進圖

W198TPX0.1HA W198KLW0.1HA W198SAW0.1HA W198HLW0.1HA W198LTY0.1HA W198PNY0.1HA
W198KHW0.1HA W198CNX0.1HA W198TCW0.1HA W198PHY0.1HA W198KMY0.1HA W198MSY0.1HA

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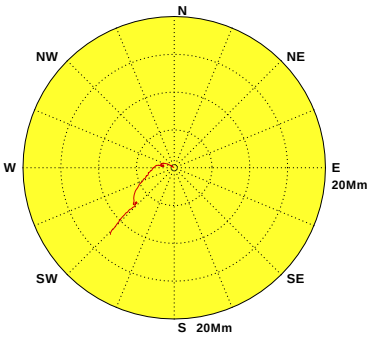
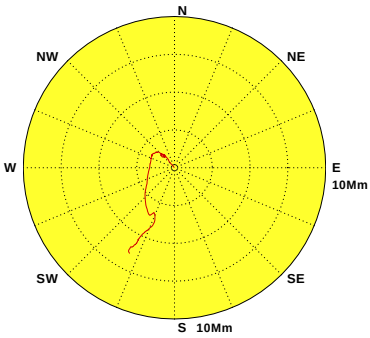
Progressive Vector Diagram of Wind

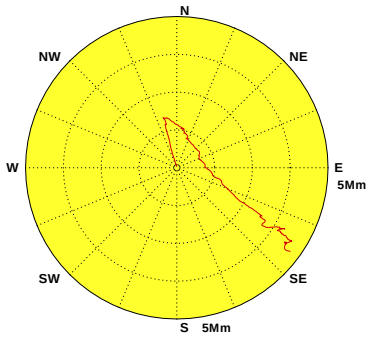
Wind of TPX0 at 2019/09 NO=719(100%)
MEAN=6.8m/s MAX=20.6m/s(NNE)
N~E:63% E~S:20% S~W:8% W~N:9% Calm:0%



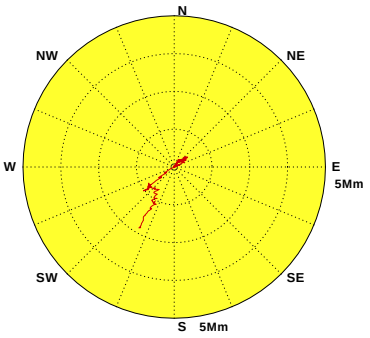
Wind of KLW0 at 2019/09 NO=720(100%)
MEAN=4.5m/s MAX=16.8m/s(NW)
N~E:51% E~S:19% S~W:13% W~N:17% Calm:0%



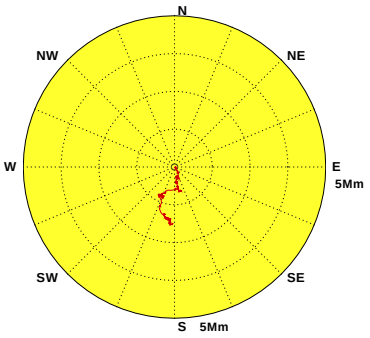
Wind of SAW0 at 2019/09 NO=545(76%)
MEAN=5.1m/s MAX=18.5m/s(WNW)
N~E:12% E~S:14% S~W:11% W~N:63% Calm:0%



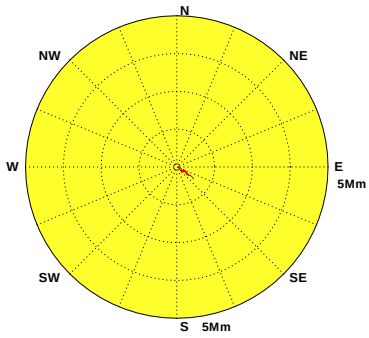
Wind of HLW0 at 2019/09 NO=720(100%)
MEAN=3.5m/s MAX=14.2m/s(NNE)
N~E:34% E~S:13% S~W:31% W~N:22% Calm:0%



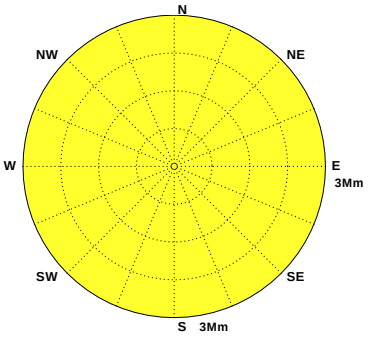
Wind of LTY0 at 2019/09 NO=563(78%)
MEAN=4.3m/s MAX=12.7m/s(SE)
N~E:29% E~S:18% S~W:20% W~N:33% Calm:0%



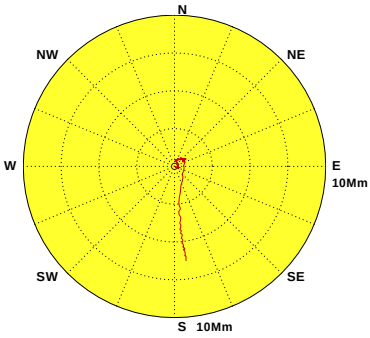
Wind of PNY0 at 2019/09 NO=125(17%)
MEAN=3.0m/s MAX=14.6m/s(NW)
N~E:20% E~S:14% S~W:17% W~N:49% Calm:0%



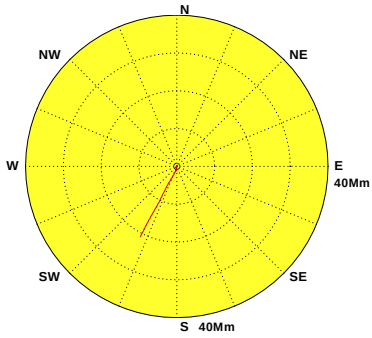
Wind of KHW0 at 2019/09



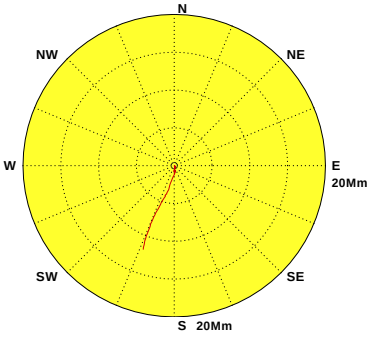
Wind of CNX0 at 2019/09 NO=688(96%)
MEAN=4.8m/s MAX=17.4m/s(N)
N~E:34% E~S:16% S~W:16% W~N:34% Calm:0%



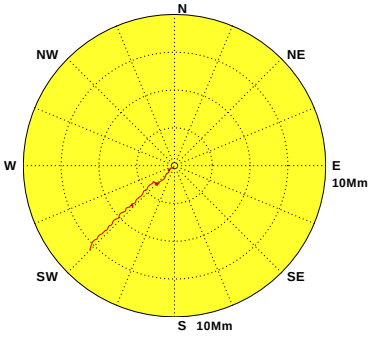
Wind of TCW0 at 2019/09 NO=720(100%)
MEAN=9.2m/s MAX=27.0m/s(NNE)
N~E:72% E~S:6% S~W:11% W~N:9% Calm:2%



Wind of PHY0 at 2019/09 NO=549(76%)
MEAN=6.7m/s MAX=17.9m/s(NNE)
N~E:70% E~S:3% S~W:11% W~N:15% Calm:1%



Wind of KMY0 at 2019/09 NO=461(64%)
MEAN=5.9m/s MAX=12.2m/s(NNE)
N~E:73% E~S:11% S~W:5% W~N:11% Calm:0%



Wind of MSY0 at 2019/09 NO=567(79%)
MEAN=7.4m/s MAX=15.0m/s(N)
N~E:81% E~S:7% S~W:3% W~N:9% Calm:0%

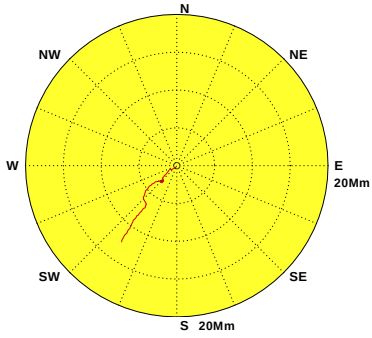


圖5.10a 2019年 9月12海域主要測站1修補前觀測風向量行進圖

W199TPX0.1H0 W199KLW0.1H0 W199SAW0.1H0 W199HLW0.1H0 W199LTY0.1H0 W199PNY0.1H0
W199KHW0.1H0 W199CNX0.1H0 W199TCW0.1H0 W199PHY0.1H0 W199KMY0.1H0 W199MSY0.1H0

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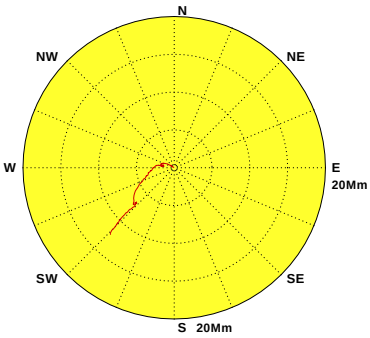
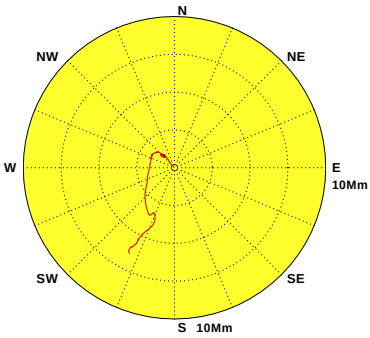
Progressive Vector Diagram of Wind

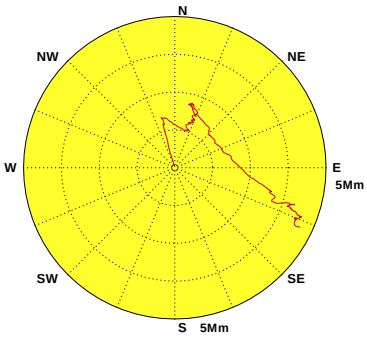
Wind of TPX0 at 2019/09 NO=720(100%)
MEAN=6.8m/s MAX=20.6m/s(NNE)
N~E:63% E~S:20% S~W:8% W~N:9% Calm:0%



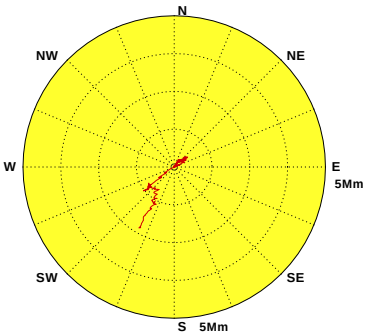
Wind of KLW0 at 2019/09 NO=720(100%)
MEAN=4.5m/s MAX=16.8m/s(NW)
N~E:51% E~S:19% S~W:13% W~N:17% Calm:0%



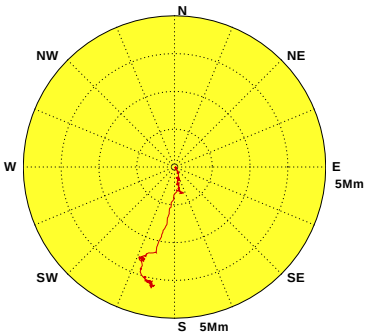
Wind of SAW0 at 2019/09 NO=720(100%)
MEAN=4.7m/s MAX=18.5m/s(WNW)
N~E:10% E~S:19% S~W:20% W~N:51% Calm:0%



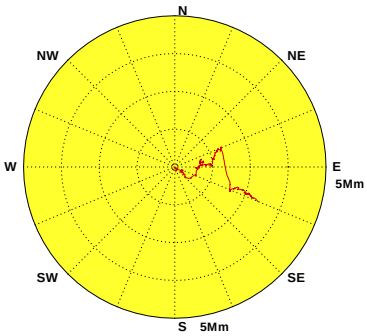
Wind of HLW0 at 2019/09 NO=720(100%)
MEAN=3.5m/s MAX=14.2m/s(NNE)
N~E:34% E~S:13% S~W:31% W~N:22% Calm:0%



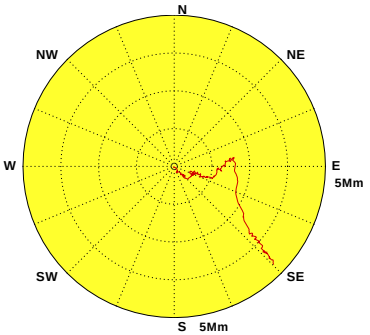
Wind of LTY0 at 2019/09 NO=720(100%)
MEAN=4.3m/s MAX=12.7m/s(SE)
N~E:39% E~S:14% S~W:16% W~N:31% Calm:0%



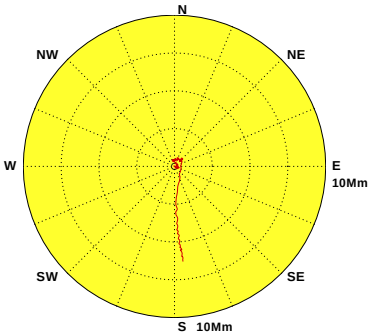
Wind of PNY0 at 2019/09 NO=720(100%)
MEAN=3.5m/s MAX=18.1m/s(NNW)
N~E:27% E~S:12% S~W:32% W~N:29% Calm:0%



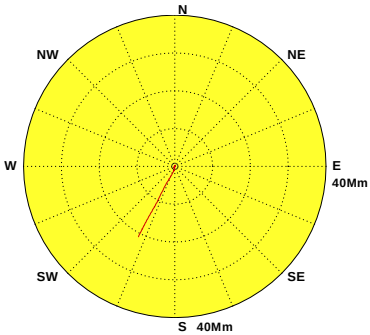
Wind of KHW0 at 2019/09 NO=720(100%)
MEAN=3.9m/s MAX=18.1m/s(NNW)
N~E:28% E~S:7% S~W:28% W~N:37% Calm:0%



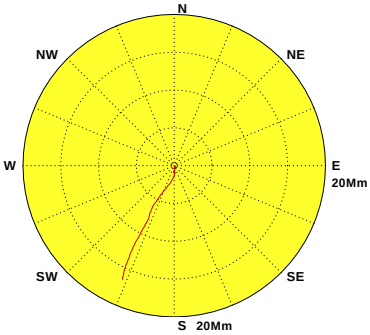
Wind of CNX0 at 2019/09 NO=720(100%)
MEAN=4.7m/s MAX=17.4m/s(N)
N~E:34% E~S:18% S~W:15% W~N:33% Calm:0%



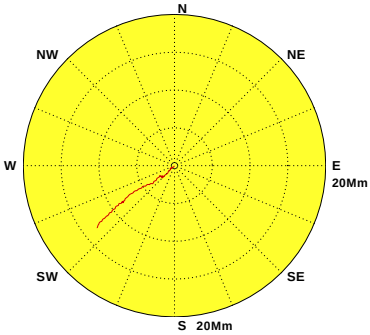
Wind of TCW0 at 2019/09 NO=720(100%)
MEAN=9.2m/s MAX=27.0m/s(NNE)
N~E:72% E~S:6% S~W:11% W~N:9% Calm:2%



Wind of PHY0 at 2019/09 NO=720(100%)
MEAN=7.0m/s MAX=17.9m/s(NNE)
N~E:75% E~S:3% S~W:9% W~N:13% Calm:0%



Wind of KMY0 at 2019/09 NO=720(100%)
MEAN=6.1m/s MAX=12.2m/s(NNE)
N~E:75% E~S:13% S~W:4% W~N:8% Calm:0%



Wind of MSY0 at 2019/09 NO=720(100%)
MEAN=7.5m/s MAX=15.0m/s(N)
N~E:85% E~S:5% S~W:3% W~N:7% Calm:0%

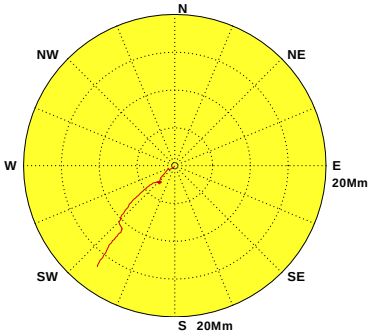


圖5.10b 2019年 9月12海域主要測站1修補後觀測風向量行進圖

W199TPX0.1HA W199KLW0.1HA W199SAW0.1HA W199HLW0.1HA W199LTY0.1HA W199PNY0.1HA
W199KHW0.1HA W199CNX0.1HA W199TCW0.1HA W199PHY0.1HA W199KMY0.1HA W199MSY0.1HA

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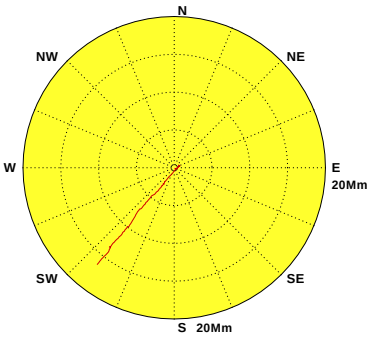
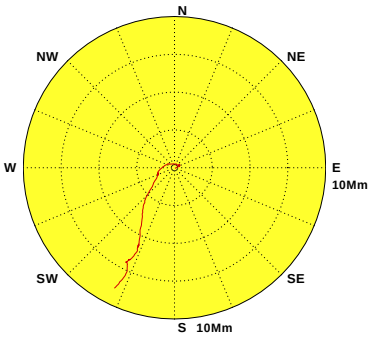
Progressive Vector Diagram of Wind

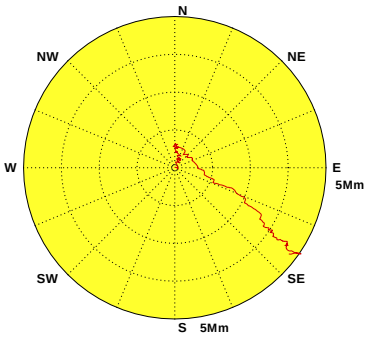
Wind of TPX0 at 2019/10 NO=683(92%)
MEAN=7.7m/s MAX=16.5m/s(NW)
N~E:87% E~S:5% S~W:5% W~N:3% Calm:0%



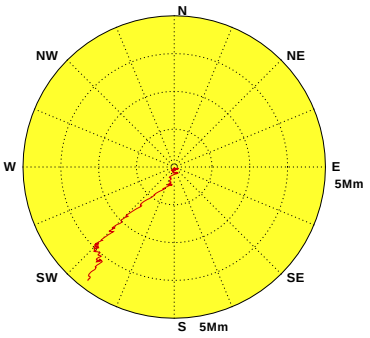
Wind of KLW0 at 2019/10 NO=744(100%)
MEAN=4.4m/s MAX=11.4m/s(N)
N~E:66% E~S:10% S~W:11% W~N:13% Calm:0%



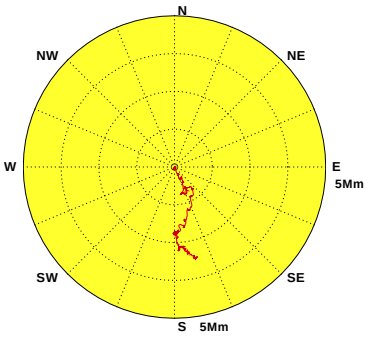
Wind of SAW0 at 2019/10 NO=744(100%)
MEAN=3.8m/s MAX=11.3m/s(S)
N~E:15% E~S:12% S~W:15% W~N:58% Calm:0%



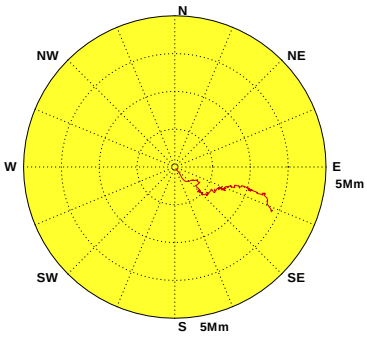
Wind of HLW0 at 2019/10 NO=744(100%)
MEAN=3.7m/s MAX=12.0m/s(ENE)
N~E:44% E~S:8% S~W:17% W~N:31% Calm:0%



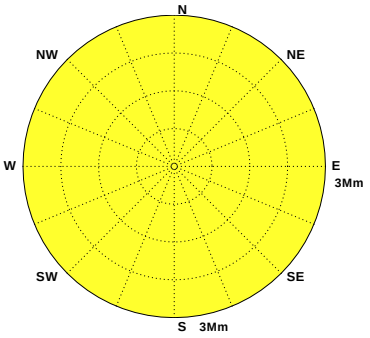
Wind of LTY0 at 2019/10 NO=699(94%)
MEAN=5.1m/s MAX=14.3m/s(N)
N~E:24% E~S:19% S~W:23% W~N:34% Calm:0%



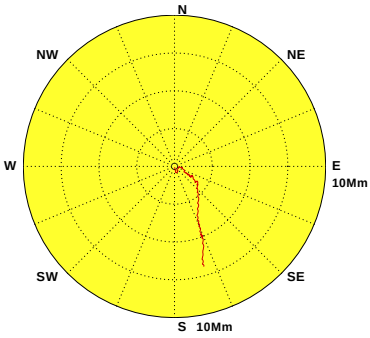
Wind of PNY0 at 2019/10 NO=702(94%)
MEAN=3.0m/s MAX=14.2m/s(NW)
N~E:16% E~S:15% S~W:25% W~N:44% Calm:0%



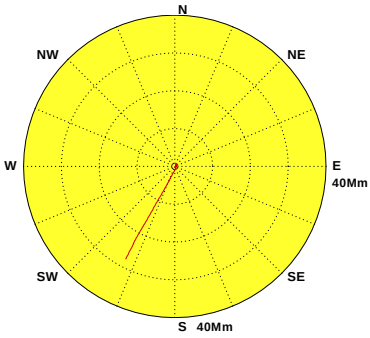
Wind of KHW0 at 2019/10



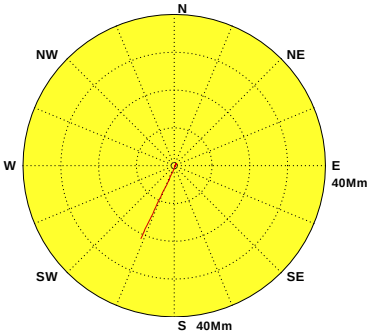
Wind of CNX0 at 2019/10 NO=590(79%)
MEAN=4.8m/s MAX=14.9m/s(N)
N~E:36% E~S:7% S~W:13% W~N:44% Calm:0%



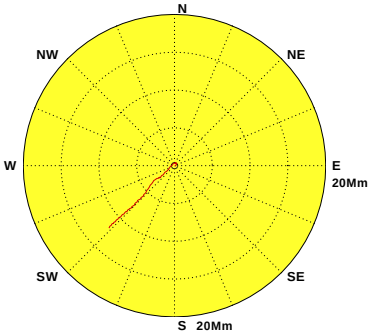
Wind of TCW0 at 2019/10 NO=744(100%)
MEAN=11.2m/s MAX=23.1m/s(NNE)
N~E:86% E~S:2% S~W:6% W~N:5% Calm:1%



Wind of PHY0 at 2019/10 NO=679(91%)
MEAN=9.6m/s MAX=17.3m/s(NNE)
N~E:86% E~S:2% S~W:8% W~N:4% Calm:0%



Wind of KMY0 at 2019/10 NO=581(78%)
MEAN=6.6m/s MAX=12.8m/s(NE)
N~E:84% E~S:9% S~W:4% W~N:2% Calm:1%



Wind of MSY0 at 2019/10 NO=702(94%)
MEAN=7.7m/s MAX=16.6m/s(NNW)
N~E:84% E~S:9% S~W:5% W~N:2% Calm:0%

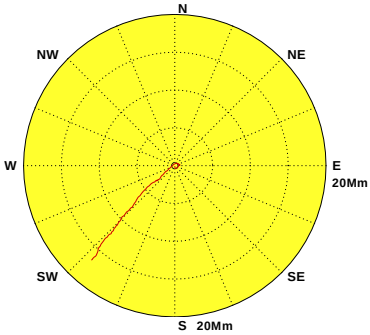


圖5.11a 2019年10月12海域主要測站1修補前觀測風向量行進圖

W19ATPX0.1H0 W19AKLW0.1H0 W19ASAW0.1H0 W19AHLW0.1H0 W19ALTY0.1H0 W19APNY0.1H0
W19AKHW0.1H0 W19ACNX0.1H0 W19ATCW0.1H0 W19APHY0.1H0 W19AKMY0.1H0 W19AMSY0.1H0

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Progressive Vector Diagram of Wind

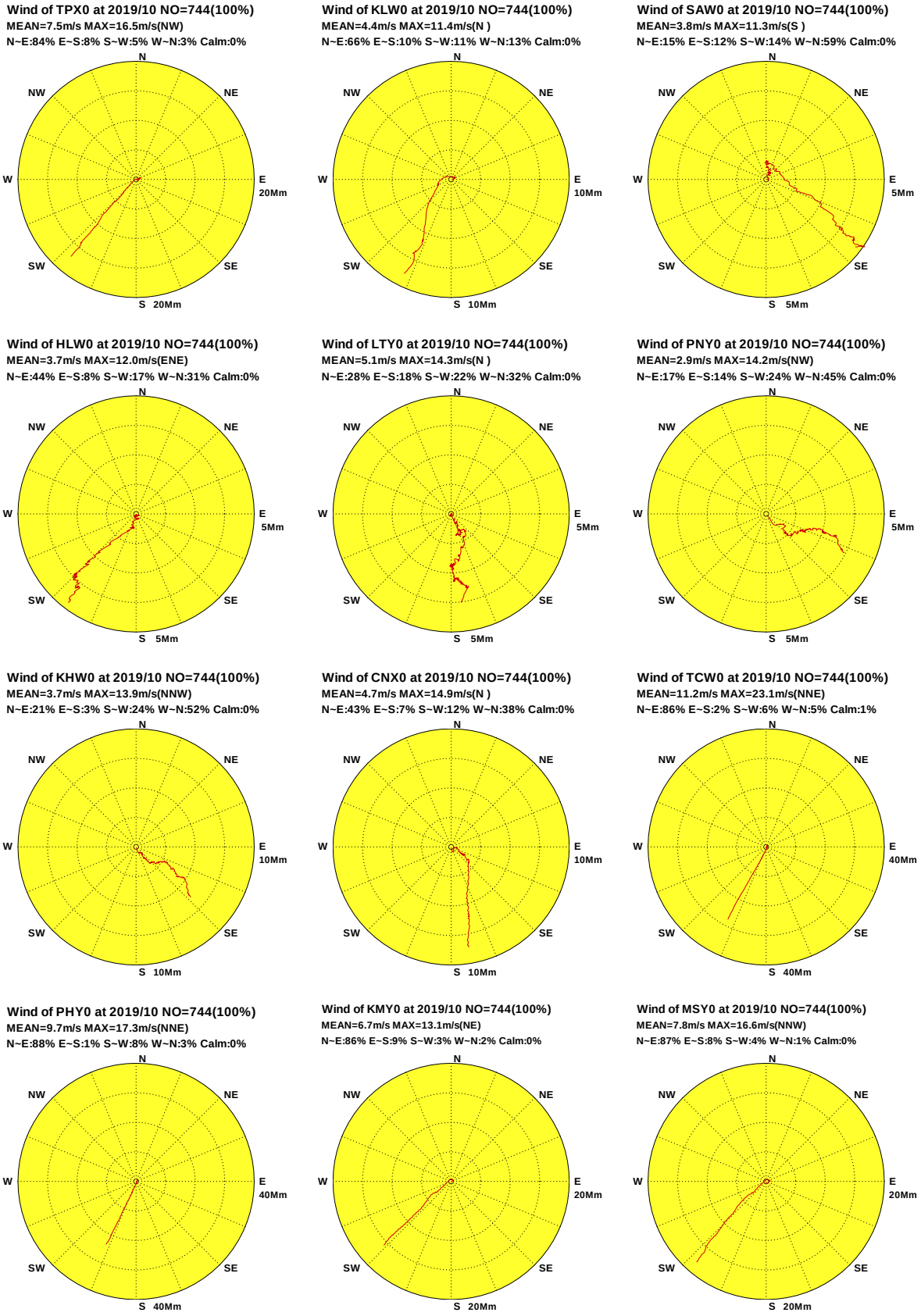

圖5.11b 2019年10月12海域主要測站1修補後觀測風向量行進圖

W19ATPX0.1HA W19AKLW0.1HA W19ASAW0.1HA W19AHLW0.1HA W19ALTY0.1HA W19APNY0.1HA
W19AKHW0.1HA W19ACNX0.1HA W19ATCW0.1HA W19APHY0.1HA W19AKMY0.1HA W19AMSY0.1HA

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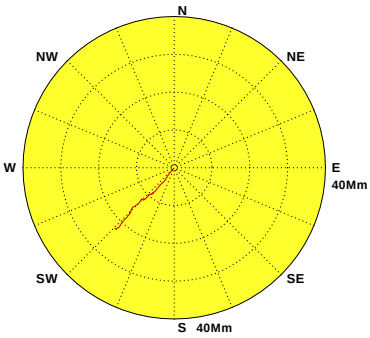
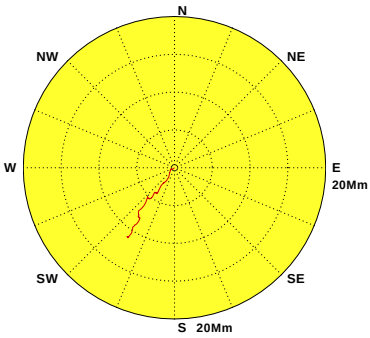
Progressive Vector Diagram of Wind

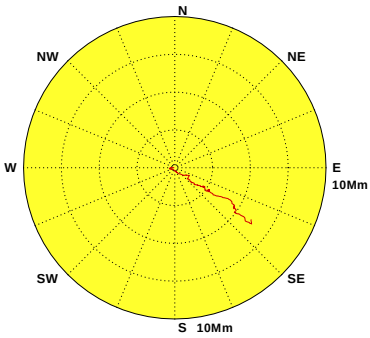
Wind of TPX0 at 2019/11 NO=719(100%)
MEAN=9.4m/s MAX=18.8m/s(NNE)
N~E:87% E~S:11% S~W:0% W~N:2% Calm:0%



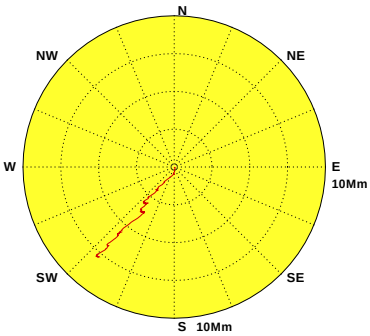
Wind of KLW0 at 2019/11 NO=720(100%)
MEAN=5.2m/s MAX=13.3m/s(N)
N~E:72% E~S:12% S~W:6% W~N:9% Calm:1%



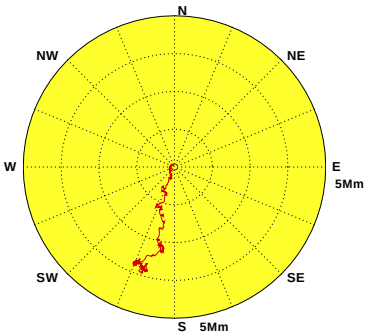
Wind of SAW0 at 2019/11 NO=720(100%)
MEAN=3.7m/s MAX=10.3m/s(E)
N~E:13% E~S:6% S~W:19% W~N:62% Calm:0%



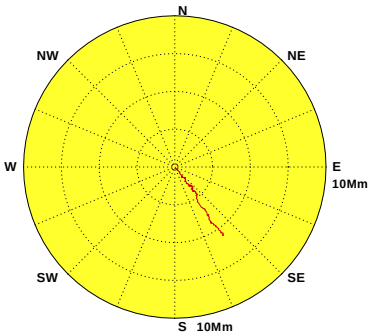
Wind of HLW0 at 2019/11 NO=720(100%)
MEAN=4.7m/s MAX=12.1m/s(ENE)
N~E:58% E~S:3% S~W:14% W~N:25% Calm:0%



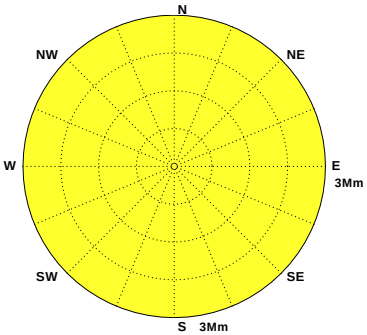
Wind of LTY0 at 2019/11 NO=714(99%)
MEAN=6.4m/s MAX=15.6m/s(NNE)
N~E:31% E~S:20% S~W:21% W~N:28% Calm:0%



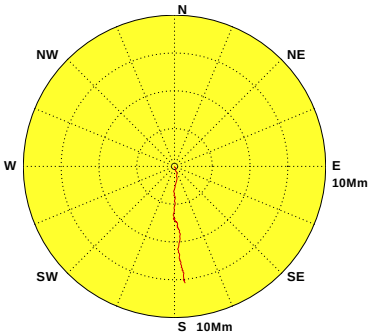
Wind of PNY0 at 2019/11 NO=720(100%)
MEAN=3.0m/s MAX=7.3m/s(WNW)
N~E:26% E~S:2% S~W:12% W~N:60% Calm:0%



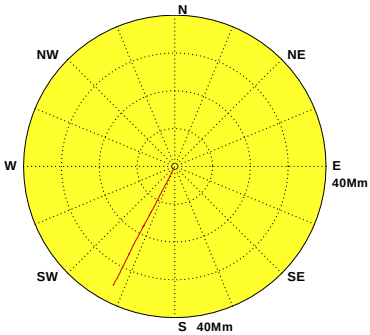
Wind of KHW0 at 2019/11



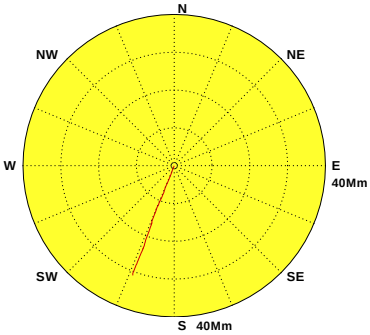
Wind of CNX0 at 2019/11 NO=413(57%)
MEAN=5.9m/s MAX=12.8m/s(N)
N~E:49% E~S:1% S~W:3% W~N:47% Calm:0%



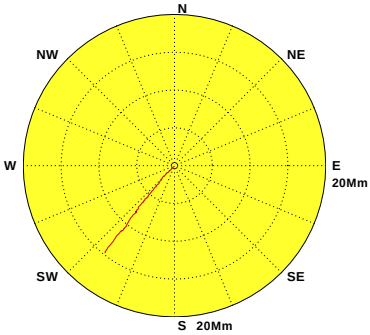
Wind of TCW0 at 2019/11 NO=720(100%)
MEAN=13.9m/s MAX=28.1m/s(NNE)
N~E:92% E~S:2% S~W:2% W~N:3% Calm:1%



Wind of PHY0 at 2019/11 NO=709(98%)
MEAN=12.2m/s MAX=19.2m/s(NNE)
N~E:96% E~S:0% S~W:0% W~N:4% Calm:0%



Wind of KMY0 at 2019/11 NO=563(78%)
MEAN=7.6m/s MAX=14.7m/s(NE)
N~E:93% E~S:3% S~W:1% W~N:3% Calm:0%



Wind of MSY0 at 2019/11 NO=720(100%)
MEAN=9.9m/s MAX=15.3m/s(NE)
N~E:96% E~S:2% S~W:0% W~N:2% Calm:0%

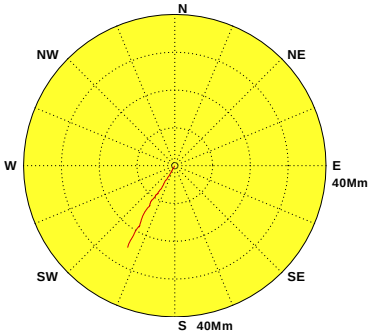


圖5.12a 2019年11月12海域主要測站1修補前觀測風向量行進圖

W19BTPX0.1H0 W19BKLW0.1H0 W19BSAW0.1H0 W19BHLW0.1H0 W19BLTY0.1H0 W19BPNY0.1H0
W19BKHW0.1H0 W19BCNX0.1H0 W19BTCW0.1H0 W19BPHY0.1H0 W19BKMY0.1H0 W19BMSY0.1H0

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Progressive Vector Diagram of Wind

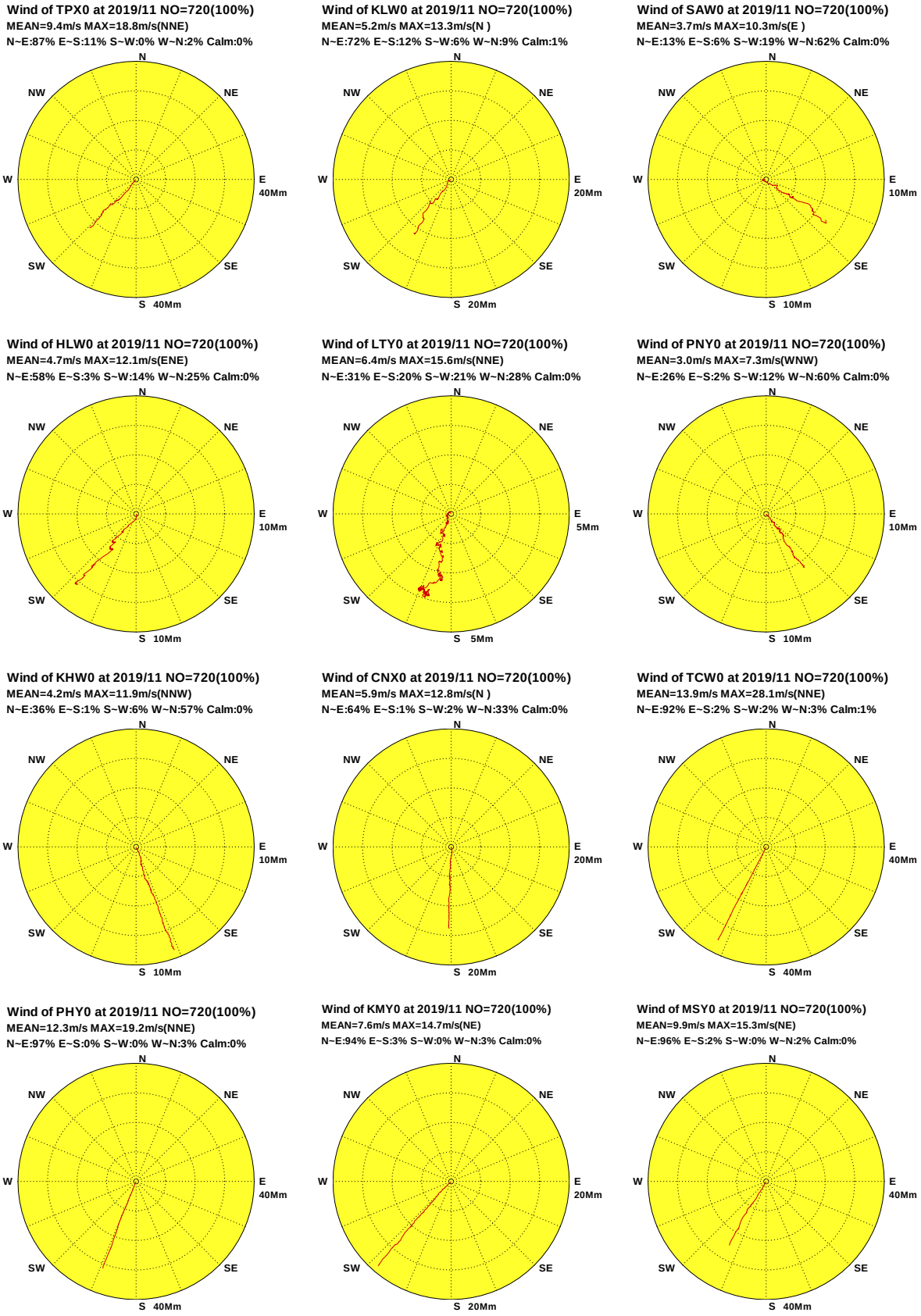

圖5.12b 2019年11月12海域主要測站1修補後觀測風向量行進圖

W19BTPX0.1HA W19BKLW0.1HA W19BSAW0.1HA W19BHLW0.1HA W19BLTY0.1HA W19BPNY0.1HA
W19BKHW0.1HA W19BCNX0.1HA W19BTCW0.1HA W19BPHY0.1HA W19BKMY0.1HA W19BMSY0.1HA

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第六章 2019 年 12 海域風力主要測站 2 修補前後風力統計量統計表

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

表6.1a 2018年12月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	662(89%)	9.1	8.5/NE	17.7/NE	21.9	13.0	42.3	22.8	80.5	10.0	5.0	4.5	NE /63.9%
2	北端海域(Y)	623(84%)	5.5	3.4/NNE	11.9/NE	24.9	51.8	23.3	.0	59.6	7.7	21.7	11.1	NNE/22.0%
3	宜蘭海域(Y)	664(89%)	5.0	3.0/N	12.0/NNE	35.1	45.6	19.3	.0	32.4	7.1	6.0	54.5	WNW/22.6%
4	花蓮海域(Y)	653(88%)	5.4	3.5/NNE	13.1/NE	39.1	33.7	27.3	.0	55.7	4.9	30.3	9.0	NNE/31.1%
5	臺東海域(W)	636(86%)	4.5	3.9/NNW	10.8/NNW	37.1	53.3	9.6	.0	17.0	6.4	.3	76.3	NW /48.1%
6	屏東海域(Z)	661(89%)	11.5	11.4/NE	19.4/NE	3.9	23.3	31.9	40.8	97.4	.0	.5	2.1	NE /86.1%
7	高雄海域(Z)	577(78%)	5.1	4.7/N	10.3/N	20.3	72.1	7.6	.0	59.4	1.4	.9	38.3	N /43.5%
8	嘉南海域(B)	743(100%)	6.1	5.8/N	12.4/N	16.7	56.5	26.8	.0	54.1	1.9	.8	43.2	N /54.5%
9	中雲海域(I)	617(83%)	10.5	10.3/NE	20.0/NNE	14.3	15.4	39.4	31.0	93.7	2.1	2.3	1.9	NE /47.6%
10	澎湖海域(W)	346(47%)	6.5	6.3/NNE	13.3/N	24.6	35.8	39.6	.0	86.1	3.8	.6	9.5	NNE/66.5%
11	金門海域(W)	430(58%)	5.7	5.1/NNE	13.4/N	25.3	49.3	25.3	.0	83.7	5.6	3.0	7.7	NNE/43.5%
12	馬祖海域(W)	286(38%)	3.0	2.3/NNW	10.3/NNW	68.9	24.5	6.6	.0	12.6	11.5	10.1	65.7	NNW/36.0%

DISW4A.BAT 日期: 2018年12月 港灣技術研究中心

表6.1b 2018年12月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	9.0	8.4/NE	18.5/NE	21.6	16.1	39.2	23.0	80.5	10.6	5.0	3.9	NE /61.8%
2	北端海域(Y)	744(100%)	5.3	3.4/NNE	11.9/NE	28.4	49.6	22.0	.0	62.6	8.1	18.8	10.5	NNE/21.9%
3	宜蘭海域(Y)	744(100%)	4.8	2.9/NNW	12.0/NNE	37.4	44.8	17.9	.0	29.8	8.9	6.2	55.1	WNW/22.4%
4	花蓮海域(Y)	744(100%)	5.2	3.3/NNE	13.1/NE	41.0	34.0	25.0	.0	53.5	6.3	29.8	10.3	NNE/27.8%
5	臺東海域(W)	744(100%)	4.4	3.9/NNW	10.8/NNW	35.3	55.9	8.7	.0	15.3	5.8	.3	78.6	NW /41.7%
6	屏東海域(Z)	744(100%)	11.4	11.3/NE	19.4/NE	4.0	20.8	37.9	37.2	97.6	.0	.4	2.0	NE /87.4%
7	高雄海域(Z)	744(100%)	5.3	5.0/N	10.9/N	16.3	74.3	9.4	.0	61.4	1.1	.7	36.8	N /42.9%
8	嘉南海域(B)	744(100%)	6.1	5.8/N	12.4/N	16.7	56.5	26.9	.0	54.2	1.9	.8	43.1	N /54.3%
9	中雲海域(I)	744(100%)	10.4	10.2/NE	20.0/NNE	13.2	17.2	39.8	29.8	94.1	2.3	2.0	1.6	NNE/46.4%
10	澎湖海域(W)	744(100%)	8.1	7.8/NNE	14.9/NE	12.6	26.6	60.2	.5	92.2	2.4	.3	5.1	NNE/62.2%
11	金門海域(W)	744(100%)	5.4	4.8/NNE	13.4/N	29.8	49.6	20.6	.0	83.1	6.3	3.8	6.9	NNE/37.2%
12	馬祖海域(W)	744(100%)	5.0	4.6/N	10.3/NNW	26.6	70.7	2.7	.0	56.6	4.4	3.6	35.3	N /35.2%

DISW4A.BAT 日期: 2018年12月 港灣技術研究中心

表6.2a 2019年 1月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	733(99%)	7.9	7.5/NE	15.8/NE	17.9	28.2	47.5	6.4	84.9	5.3	4.0	5.9	NE /49.9%
2	北端海域(Y)	287(39%)	5.7	3.8/NE	10.3/NE	22.3	55.4	22.3	.0	60.3	10.8	12.5	16.4	NE /24.0%
3	宜蘭海域(Y)	715(96%)	4.6	2.7/NNW	11.0/NNE	32.7	53.7	13.6	.0	32.7	6.3	4.6	56.4	WNW/32.0%
4	花蓮海域(Y)	736(99%)	4.7	2.9/NNE	12.9/NNE	50.3	28.0	21.7	.0	49.5	4.6	31.4	14.5	NNE/31.7%
5	臺東海域(W)	528(71%)	3.2	1.4/N	7.2/NW	61.4	38.6	.0	.0	20.1	28.6	.9	50.4	NW /27.8%
6	屏東海域(Z)	717(96%)	9.7	9.2/NE	18.2/NE	5.7	30.1	47.4	16.7	90.1	7.7	.8	1.4	NE /70.2%
7	高雄海域(Z)	603(81%)	5.1	4.8/N	9.4/N	16.7	76.6	6.6	.0	61.9	.5	.2	37.5	N /48.8%
8	嘉南海域(B)	744(100%)	6.0	5.8/N	12.6/N	13.0	65.1	21.9	.0	48.7	1.2	.3	49.9	N /57.8%
9	中雲海域(I)	617(83%)	10.1	10.0/NNE	18.7/NNE	7.3	24.5	46.4	21.9	97.9	.6	.8	.6	NNE/64.8%
10	澎湖海域(W)													
11	金門海域(W)	588(79%)	5.0	4.5/NNE	13.2/NE	28.2	57.8	13.9	.0	85.5	4.1	1.9	8.5	NNE/49.7%
12	馬祖海域(W)	335(45%)	3.5	3.1/NNW	8.5/NNW	53.4	45.7	.9	.0	6.9	5.7	5.1	82.4	NNW/48.7%

DISW4A.BAT 日期: 2019年01月 港灣技術研究中心

表6.2b 2019年 1月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	8.0	7.5/NE	15.8/NE	17.7	28.0	48.0	6.3	84.9	5.1	4.2	5.8	NE /50.0%
2	北端海域(Y)	744(100%)	4.7	3.4/NE	10.3/NE	33.9	52.4	13.7	.0	57.4	15.2	12.2	15.2	NE /23.3%
3	宜蘭海域(Y)	744(100%)	4.6	2.7/NNW	11.8/ENE	33.6	52.8	13.6	.0	33.1	6.0	4.6	56.3	WNW/32.1%
4	花蓮海域(Y)	744(100%)	4.8	2.9/NNE	12.9/NNE	50.1	27.8	22.0	.0	49.9	4.7	31.0	14.4	NNE/31.3%
5	臺東海域(W)	744(100%)	3.3	2.0/NNW	8.4/NNW	56.0	43.4	.5	.0	19.4	20.7	.7	59.3	NNW/32.4%
6	屏東海域(Z)	744(100%)	9.6	9.1/NE	18.2/NE	5.5	31.9	46.5	16.1	90.5	7.4	.8	1.3	NE /69.6%
7	高雄海域(Z)	744(100%)	5.2	4.9/N	12.5/N	14.7	78.5	6.9	.0	64.1	.4	.1	35.3	N /48.1%
8	嘉南海域(B)	744(100%)	6.0	5.8/N	12.6/N	13.0	65.1	21.9	.0	48.8	1.2	.3	49.7	N /57.8%
9	中雲海域(I)	744(100%)	9.9	9.8/NNE	18.7/NNE	6.3	28.1	46.4	19.2	96.5	.5	2.4	.5	NNE/69.4%
10	澎湖海域(W)	744(100%)	8.1	7.9/NNE	12.3/NE	3.0	38.6	58.5	.0	99.9	.0	.0	.1	NNE/59.1%
11	金門海域(W)	744(100%)	5.1	4.7/NNE	13.2/NE	26.5	59.7	13.8	.0	87.6	3.9	1.5	7.0	NNE/47.7%
12	馬祖海域(W)	744(100%)	4.0	3.6/N	8.5/NNW	37.4	62.2	.4	.0	57.1	2.6	2.3	38.0	NNE/36.0%

DISW4A.BAT 日期: 2019年01月 港灣技術研究中心

表6.3a 2019年 2月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	594(88%)	6.4	5.7/NE	13.7/NE	23.1	35.5	41.4	.0	77.3	8.9	5.2	8.6	NE /51.9%
2	北端海域(Y)	73(11%)	3.8	2.5/N	8.5/NNW	41.1	57.5	1.4	.0	32.9	8.2	15.1	43.8	N /27.4%
3	宜蘭海域(Y)	651(97%)	4.3	2.6/N	11.2/NE	39.9	51.9	8.1	.0	42.5	6.9	5.4	45.2	NNE/21.8%
4	花蓮海域(Y)	664(99%)	3.7	1.7/NNE	10.4/NNE	58.4	34.8	6.8	.0	40.2	7.5	32.7	19.6	NNE/21.8%
5	臺東海域(W)	638(95%)	3.6	1.5/NNW	9.4/SE	48.4	50.8	.8	.0	12.9	29.6	1.6	56.0	NW /29.6%
6	屏東海域(Z)	656(98%)	6.8	5.2/NE	15.9/NE	17.7	44.2	32.3	5.8	71.2	9.6	10.4	8.8	NE /55.6%
7	高雄海域(Z)	517(77%)	5.0	4.0/N	10.2/N	23.6	64.8	11.6	.0	48.7	5.8	5.4	40.0	N /30.8%
8	嘉南海域(B)	672(100%)	5.4	4.7/N	11.1/N	18.8	67.6	13.7	.0	51.0	3.0	2.8	43.2	N /32.4%
9	中雲海域(I)	621(92%)	7.6	7.3/NNE	16.8/NNE	15.9	33.7	48.5	1.9	91.9	3.7	2.7	1.6	NNE/65.9%
10	澎湖海域(W)	177(26%)	6.4	6.3/NNE	10.5/NNE	7.9	70.6	21.5	.0	94.9	.6	.0	4.5	NNE/61.0%
11	金門海域(W)	540(80%)	4.5	3.6/NNE	11.3/NE	35.7	56.7	7.6	.0	79.3	14.6	2.6	3.5	NNE/50.4%
12	馬祖海域(W)	258(38%)	3.9	3.0/NNW	9.3/NNW	46.1	50.0	3.9	.0	5.0	12.4	7.8	74.8	NNW/47.7%

DISW4A.BAT 日期: 2019年02月 港灣技術研究中心

表6.3b 2019年 2月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	672(100%)	6.5	5.9/NE	16.0/NE	21.7	37.1	40.6	.6	78.1	8.2	5.2	8.5	NE /52.7%
2	北端海域(Y)	672(100%)	4.0	3.4/NNE	9.5/NNE	44.0	53.1	2.8	.0	76.5	4.8	3.3	15.5	NNE/31.4%
3	宜蘭海域(Y)	672(100%)	4.3	2.6/N	11.2/NE	39.6	51.9	8.5	.0	42.7	6.7	5.2	45.4	NNE/22.5%
4	花蓮海域(Y)	672(100%)	3.7	1.7/NNE	10.8/NE	57.9	35.0	7.1	.0	40.8	7.4	32.3	19.5	NNE/21.6%
5	臺東海域(W)	672(100%)	3.5	1.4/NNW	9.4/SE	51.0	48.2	.7	.0	15.0	28.7	1.5	54.8	NW /28.1%
6	屏東海域(Z)	672(100%)	7.0	5.4/NE	17.4/NE	17.3	43.6	32.1	7.0	71.9	9.4	10.1	8.6	NE /56.4%
7	高雄海域(Z)	672(100%)	5.0	4.0/N	11.4/NNW	22.3	67.9	9.8	.0	50.1	5.8	4.8	39.3	N /32.7%
8	嘉南海域(B)	672(100%)	5.4	4.7/N	11.1/N	18.8	67.6	13.7	.0	51.0	3.0	2.8	43.2	N /32.3%
9	中雲海域(I)	672(100%)	7.6	7.3/NNE	16.8/NNE	15.9	34.1	47.0	3.0	92.4	3.4	2.8	1.3	NNE/65.0%
10	澎湖海域(W)	672(100%)	6.1	5.8/NNE	11.9/NE	14.7	62.6	22.6	.0	93.5	.6	.3	5.7	NE /39.7%
11	金門海域(W)	672(100%)	4.6	3.8/NNE	11.3/NE	32.4	60.9	6.7	.0	81.7	12.4	2.1	3.9	NNE/50.7%
12	馬祖海域(W)	672(100%)	4.2	3.7/N	9.3/NNW	28.1	70.4	1.5	.0	56.4	7.1	3.7	32.7	N /35.3%

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表6.4a 2019年 3月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	409(55%)	6.7	3.1/NE	15.1/N	24.7	31.3	43.5	.5	58.7	9.8	20.8	10.8	NE /28.4%
2	北端海域(Y)	204(27%)	4.4	1.4/NNE	9.5/WNW	34.8	59.3	5.9	.0	32.8	22.1	18.6	26.5	NNE/14.2%
3	宜蘭海域(Y)	734(99%)	4.3	2.0/N	12.3/NE	40.9	48.1	11.0	.0	30.0	11.3	7.6	51.1	WNW/21.8%
4	花蓮海域(Y)	744(100%)	3.8	1.3/N	11.6/NE	57.7	33.1	9.3	.0	36.0	7.7	39.7	16.7	NNE/21.0%
5	臺東海域(W)	715(96%)	3.5	1.1/N	8.5/N	54.1	44.5	1.4	.0	17.9	29.7	1.5	50.9	NNW/24.1%
6	屏東海域(Z)	738(99%)	8.5	6.0/NE	17.0/NE	9.1	37.1	41.7	12.1	67.6	7.6	8.5	16.3	NE /55.6%
7	高雄海域(Z)	583(78%)	4.1	2.8/N	10.6/N	40.1	55.6	4.3	.0	46.1	8.4	9.4	36.0	N /27.4%
8	嘉南海域(B)	743(100%)	4.4	3.2/N	12.4/NNW	37.0	54.0	9.0	.0	43.2	6.9	10.6	39.3	N /28.7%
9	中雲海域(I)	716(96%)	6.7	5.3/NNE	15.9/NE	16.3	49.6	30.6	3.5	77.7	6.8	11.3	4.2	NNE/51.5%
10	澎湖海域(W)	414(56%)	5.5	5.1/NNE	10.6/NNE	16.4	69.3	14.3	.0	81.2	5.6	1.9	11.4	NNE/54.3%
11	金門海域(W)	554(75%)	4.6	3.1/NNE	12.2/NNE	35.0	52.9	12.1	.0	71.8	19.0	4.2	5.1	NNE/33.2%
12	馬祖海域(W)	421(57%)	3.6	1.9/N	10.2/N	53.7	41.6	4.8	.0	6.9	23.3	5.7	64.1	NNW/37.1%

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表6.4b 2019年 3月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	6.4	4.0/NE	15.4/NE	22.0	42.3	34.8	.8	65.7	13.2	12.1	9.0	NE /32.0%
2	北端海域(Y)	744(100%)	3.8	1.3/NE	9.7/N	48.3	46.8	5.0	.0	31.3	25.9	22.2	20.6	NNE/13.7%
3	宜蘭海域(Y)	744(100%)	4.3	2.0/N	12.3/NE	41.0	48.1	10.9	.0	29.6	11.7	7.5	51.2	WNW/21.8%
4	花蓮海域(Y)	744(100%)	3.8	1.3/N	11.6/NE	57.7	33.1	9.3	.0	36.0	7.7	39.7	16.7	NNE/21.0%
5	臺東海域(W)	744(100%)	3.5	1.2/N	8.5/N	55.0	43.7	1.3	.0	17.7	28.5	1.5	52.3	NNW/26.3%
6	屏東海域(Z)	744(100%)	8.5	6.0/NE	17.0/NE	9.0	37.4	41.7	12.0	67.5	7.8	8.6	16.1	NE /55.4%
7	高雄海域(Z)	744(100%)	4.2	3.0/N	10.6/N	37.4	58.2	4.4	.0	48.1	8.7	7.9	35.2	N /32.4%
8	嘉南海域(B)	744(100%)	4.4	3.3/N	12.4/NNW	37.0	53.9	9.1	.0	43.5	6.9	10.6	39.0	N /28.8%
9	中雲海域(I)	744(100%)	6.7	5.3/NNE	15.9/NE	17.1	48.9	30.5	3.5	77.6	7.0	11.2	4.3	NNE/51.3%
10	澎湖海域(W)	744(100%)	5.0	4.1/NNE	10.6/NNE	23.1	63.8	13.0	.0	75.1	5.2	9.3	10.3	NNE/46.4%
11	金門海域(W)	744(100%)	4.4	3.1/NNE	12.2/NNE	38.2	51.9	9.9	.0	73.0	16.9	3.9	6.2	NNE/36.0%
12	馬祖海域(W)	744(100%)	3.5	2.4/N	10.2/N	53.2	44.1	2.7	.0	46.0	14.4	3.2	36.4	N /24.7%

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表6.5a 2019年 4月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	694(96%)	5.9	1.2/N	13.9/WSW	28.0	40.8	31.0	.3	46.1	10.1	31.1	12.7	NE /23.2%
2	北端海域(Y)	707(98%)	3.4	.4/E	10.7/W	51.2	46.0	2.8	.0	21.2	32.5	20.5	25.7	S / 8.6%
3	宜蘭海域(Y)	715(99%)	3.3	.7/N	11.6/N	59.0	36.4	4.6	.0	29.2	17.8	9.2	43.8	WNW/17.9%
4	花蓮海域(Y)	720(100%)	3.2	1.0/NNE	11.4/NNE	68.8	26.5	4.7	.0	37.4	10.8	36.1	15.7	SW /17.4%
5	臺東海域(W)	720(100%)	3.1	.7/NE	9.0/SE	62.5	36.7	.8	.0	21.1	37.2	2.6	39.0	SE /24.2%
6	屏東海域(Z)	717(100%)	6.6	3.2/NNE	17.5/NE	19.4	49.7	24.7	6.3	48.5	8.2	12.0	31.2	NE /38.4%
7	高雄海域(Z)	575(80%)	3.4	1.7/NNW	9.9/NNW	49.7	47.5	2.8	.0	25.0	12.9	20.9	41.2	N /20.9%
8	嘉南海域(B)	720(100%)	3.7	1.8/NNW	9.7/N	50.0	47.4	2.6	.0	28.6	12.8	26.4	32.2	N /17.9%
9	中雲海域(I)	705(98%)	5.8	2.4/NNE	14.3/NNE	22.0	55.0	22.4	.6	56.6	10.1	28.7	4.7	NNE/41.4%
10	澎湖海域(W)													
11	金門海域(W)	664(92%)	4.0	1.5/NE	15.4/W	40.8	53.5	5.6	.2	50.8	31.0	10.8	7.4	NNE/25.6%
12	馬祖海域(W)	552(77%)	2.9	.6/NE	9.1/NNW	62.0	35.9	2.2	.0	9.6	34.4	11.8	44.2	NNW/22.8%

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表6.5b 2019年 4月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	720(100%)	5.9	1.1/N	13.9/WSW	28.1	40.7	31.0	.3	45.1	9.7	32.2	12.9	NE /22.5%
2	北端海域(Y)	720(100%)	3.4	.4/E	10.7/W	51.5	45.7	2.8	.0	21.5	32.4	20.8	25.3	NNE/ 8.6%
3	宜蘭海域(Y)	720(100%)	3.3	.8/N	11.6/N	58.8	36.7	4.6	.0	29.7	17.6	9.2	43.5	WNW/17.8%
4	花蓮海域(Y)	720(100%)	3.2	1.0/NNE	11.4/NNE	68.8	26.5	4.7	.0	37.4	10.8	36.1	15.7	SW /17.4%
5	臺東海域(W)	720(100%)	3.1	.7/NE	9.0/SE	62.5	36.7	.8	.0	21.1	37.2	2.6	39.0	SE /24.2%
6	屏東海域(Z)	720(100%)	6.6	3.2/NNE	17.5/NE	19.4	49.7	24.6	6.3	48.8	8.2	11.9	31.1	NE /38.3%
7	高雄海域(Z)	720(100%)	3.6	2.1/NNW	11.8/NNW	48.9	47.4	3.8	.0	26.0	11.8	17.8	44.4	N /21.4%
8	嘉南海域(B)	720(100%)	3.7	1.8/NNW	9.7/N	50.0	47.4	2.6	.0	28.8	12.8	26.1	32.4	N /17.8%
9	中雲海域(I)	720(100%)	5.8	2.3/NNE	14.3/NNE	22.4	54.9	22.2	.6	55.8	10.0	29.3	4.9	NNE/41.1%
10	澎湖海域(W)	720(100%)	3.6	2.2/NNE	9.0/N	57.4	37.5	5.1	.0	53.8	16.7	20.4	9.2	NNE/26.7%
11	金門海域(W)	720(100%)	3.8	1.3/ENE	15.4/W	45.4	49.3	5.1	.1	49.0	30.1	12.9	7.9	NNE/24.0%
12	馬祖海域(W)	720(100%)	3.3	1.5/NNE	9.1/NNW	51.5	46.8	1.7	.0	29.3	26.8	9.2	34.7	N /20.6%

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表6.6a 2019年 5月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	700(94%)	6.0	2.4/NE	14.6/NE	29.4	35.3	34.3	1.0	57.1	7.7	25.0	10.1	NE /31.0%
2	北端海域(Y)	737(99%)	3.3	.5/SSE	9.8/ESE	56.4	40.4	3.1	.0	20.6	30.3	25.0	24.2	S /10.3%
3	宜蘭海域(Y)	730(98%)	3.3	1.2/NNW	12.9/NNE	57.9	37.5	4.5	.0	26.0	14.1	10.5	49.3	WNW/21.6%
4	花蓮海域(Y)	738(99%)	3.0	1.3/N	11.2/NNE	71.0	22.9	6.1	.0	37.3	3.1	36.4	23.2	NNE/19.5%
5	臺東海域(W)	733(99%)	2.6	1.5/N	8.2/NW	72.6	27.3	.1	.0	31.1	19.2	1.1	48.6	NNW/23.2%
6	屏東海域(Z)	727(98%)	7.9	4.8/NNE	16.3/NE	10.7	38.2	45.3	5.8	65.3	1.8	7.8	25.0	NE /51.7%
7	高雄海域(Z)	574(77%)	2.8	1.2/NNW	9.5/SSW	63.8	34.7	1.6	.0	31.4	10.8	19.9	38.0	N /13.1%
8	嘉南海域(B)	733(99%)	3.3	1.6/NNW	8.1/NW	51.2	48.7	.1	.0	36.7	11.1	19.1	33.2	NNE/18.1%
9	中雲海域(I)	721(97%)	5.6	2.7/NE	15.1/NE	30.8	43.0	25.7	.6	63.2	5.4	24.8	6.5	NNE/29.7%
10	澎湖海域(W)	105(14%)	4.0	2.7/NNE	10.0/N	53.3	34.3	12.4	.0	55.2	25.7	4.8	14.3	NNE/35.2%
11	金門海域(W)	329(44%)	4.6	3.7/NNE	12.4/NE	31.3	59.3	9.4	.0	77.5	13.7	4.9	4.0	N /34.3%
12	馬祖海域(W)	633(85%)	2.8	1.9/NNW	9.2/NNW	68.9	28.8	2.4	.0	12.2	15.3	5.5	67.0	NNW/40.0%

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表6.6b 2019年 5月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	5.9	2.3/NE	14.6/NE	29.7	36.6	32.8	.9	55.9	8.3	24.9	10.9	NE /30.0%
2	北端海域(Y)	744(100%)	3.3	.5/SSE	9.8/ESE	56.7	40.2	3.1	.0	20.8	30.2	24.7	24.2	S /10.1%
3	宜蘭海域(Y)	744(100%)	3.3	1.2/NNW	12.9/NNE	57.8	37.8	4.4	.0	26.6	13.8	10.6	48.9	WNW/21.4%
4	花蓮海域(Y)	744(100%)	3.0	1.3/N	11.2/NNE	70.8	23.1	6.0	.0	37.8	3.1	36.2	23.0	NNE/19.5%
5	臺東海域(W)	744(100%)	2.6	1.5/N	8.2/NW	73.0	26.9	.1	.0	31.5	19.2	1.1	48.3	NNW/23.0%
6	屏東海域(Z)	744(100%)	7.8	4.8/NNE	16.3/NE	11.7	38.4	44.2	5.6	66.0	1.7	7.8	24.5	NE /51.6%
7	高雄海域(Z)	744(100%)	2.8	1.2/NNW	9.8/NNE	64.4	34.3	1.3	.0	30.1	11.6	20.3	38.0	N /14.2%
8	嘉南海域(B)	744(100%)	3.3	1.6/NNW	8.1/NW	51.7	48.1	.1	.0	36.3	10.9	18.8	34.0	NNE/17.9%
9	中雲海域(I)	744(100%)	5.6	2.6/NE	15.1/NE	30.5	43.7	25.3	.5	62.4	5.4	25.9	6.3	NNE/29.6%
10	澎湖海域(W)	744(100%)	4.4	2.1/NNE	10.0/N	34.4	57.7	7.9	.0	60.2	16.4	16.4	7.0	NNE/37.2%
11	金門海域(W)	744(100%)	3.8	2.3/NE	12.4/NE	43.8	51.2	5.0	.0	66.9	16.8	13.4	2.8	NNE/27.3%
12	馬祖海域(W)	744(100%)	2.7	1.9/N	9.2/NNW	71.5	26.5	2.0	.0	23.8	14.0	5.1	57.1	NNW/34.0%

DISW4A.BAT 日期: 2019年05月 港灣技術研究中心

表6.7a 2019年 6月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	617(86%)	6.4	4.0/SW	12.6/WSW	24.1	37.8	38.1	.0	16.0	11.2	63.4	9.4	SW /34.8%
2	北端海域(Y)	658(91%)	2.4	.6/S	8.6/SSE	72.9	26.6	.5	.0	17.9	31.0	30.2	20.8	S /11.7%
3	宜蘭海域(Y)	653(91%)	2.7	.1/ESE	9.3/NNE	72.7	24.7	2.6	.0	23.0	27.1	12.1	37.8	WNW/16.1%
4	花蓮海域(Y)	658(91%)	2.2	.1/WSW	8.4/NNE	82.5	17.2	.3	.0	26.0	16.7	37.7	19.6	SW /16.7%
5	臺東海域(W)	719(100%)	2.7	1.3/SE	9.5/SE	70.4	27.8	1.8	.0	23.4	49.1	7.6	19.9	SE /26.4%
6	屏東海域(Z)	649(90%)	5.6	2.5/WNW	13.0/NE	23.9	54.4	21.7	.0	21.6	9.2	32.7	36.5	W /21.4%
7	高雄海域(Z)	554(77%)	3.1	1.4/SSE	11.9/WNW	57.2	42.2	.5	.0	10.5	46.6	27.8	15.2	S /15.9%
8	嘉南海域(B)	719(100%)	3.2	1.9/SSW	7.4/NNW	54.9	45.1	.0	.0	8.3	36.6	47.6	7.5	S /21.1%
9	中雲海域(I)	643(89%)	5.2	3.1/SSW	11.9/SW	21.5	68.0	10.6	.0	16.0	25.5	56.6	1.9	S /32.7%
10	澎湖海域(W)	475(66%)	2.9	1.5/SSW	7.5/NNE	68.0	32.0	.0	.0	12.0	26.3	56.4	5.3	SSW/29.5%
11	金門海域(W)	359(50%)	3.7	2.9/SSE	8.9/SSE	46.2	52.9	.8	.0	6.7	63.5	29.5	.3	SSE/42.1%
12	馬祖海域(W)	545(76%)	2.9	.5/ESE	8.1/WSW	56.5	43.3	.2	.0	6.2	40.9	10.3	42.6	NNW/22.6%

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表6.7b 2019年 6月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	720(100%)	6.2	4.0/SW	12.6/WSW	23.2	42.1	34.7	.0	14.7	10.8	65.3	9.2	SW /34.2%
2	北端海域(Y)	720(100%)	2.3	.6/S	8.6/SSE	74.4	25.1	.4	.0	17.6	28.9	32.9	20.6	SSW/12.5%
3	宜蘭海域(Y)	720(100%)	2.7	.2/E	9.3/NNE	72.1	25.6	2.4	.0	24.4	26.5	11.4	37.6	WNW/15.7%
4	花蓮海域(Y)	720(100%)	2.1	.1/WNW	8.4/NNE	84.2	15.6	.3	.0	27.8	15.3	35.6	21.4	SW /15.1%
5	臺東海域(W)	720(100%)	2.7	1.3/SE	9.5/SE	70.3	27.9	1.8	.0	23.5	49.2	7.6	19.7	SE /26.7%
6	屏東海域(Z)	720(100%)	5.3	2.2/WNW	13.0/NE	28.8	51.5	19.7	.0	21.4	13.6	30.7	34.3	W /19.7%
7	高雄海域(Z)	720(100%)	2.9	1.3/S	11.9/WNW	62.8	36.8	.4	.0	11.8	44.4	28.1	15.7	S /15.7%
8	嘉南海域(B)	720(100%)	3.2	1.9/SSW	7.4/NNW	54.9	45.1	.0	.0	8.5	36.5	47.4	7.6	S /21.4%
9	中雲海域(I)	720(100%)	5.2	3.3/SSW	11.9/SW	21.3	67.5	11.3	.0	14.7	24.0	59.6	1.7	S /31.4%
10	澎湖海域(W)	720(100%)	3.4	1.8/S	8.6/S	53.9	45.7	.4	.0	16.4	28.8	51.1	3.8	S /33.5%
11	金門海域(W)	720(100%)	3.6	1.8/SSE	8.9/SSE	44.3	55.3	.4	.0	32.2	36.1	31.4	.3	SSE/22.1%
12	馬祖海域(W)	720(100%)	2.8	.5/ENE	8.1/WSW	60.7	39.2	.1	.0	22.6	34.2	10.7	32.5	NNW/17.5%

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表6.8a 2019年 7月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	625(84%)	6.6	4.3/SW	16.3/NE	26.2	31.7	41.1	1.0	13.0	13.6	63.0	10.4	SW /38.9%
2	北端海域(Y)	641(86%)	3.1	1.8/S	9.9/S	61.2	33.9	5.0	.0	15.0	35.1	34.6	15.3	S /17.3%
3	宜蘭海域(Y)	630(85%)	3.4	1.8/SSE	11.5/SSE	61.6	31.1	7.3	.0	13.0	45.9	15.4	25.7	SSE/23.5%
4	花蓮海域(Y)	642(86%)	2.5	.5/SSE	10.4/NNE	73.5	26.2	.3	.0	24.3	22.9	36.0	16.8	SW /14.2%
5	臺東海域(W)	744(100%)	3.1	1.6/SSE	7.9/N	56.2	43.7	.1	.0	14.5	54.7	13.6	17.2	SE /22.2%
6	屏東海域(Z)	634(85%)	6.7	1.8/W	14.8/S	15.1	47.8	36.4	.6	28.4	6.8	42.7	22.1	WSW/18.5%
7	高雄海域(Z)	450(61%)	3.9	1.4/SSE	12.4/SSW	40.9	55.1	4.0	.0	8.9	45.6	27.6	18.0	ESE/14.9%
8	嘉南海域(B)	744(100%)	3.7	2.0/S	8.6/SW	41.7	57.1	1.2	.0	7.1	39.4	36.2	17.3	SSE/22.3%
9	中雲海域(I)	598(80%)	5.6	3.6/S	14.7/SSW	25.1	51.2	23.2	.5	20.7	25.8	47.2	6.4	S /42.3%
10	澎湖海域(W)	457(61%)	3.2	1.0/SSW	11.6/N	61.5	36.1	2.4	.0	12.5	21.0	51.9	14.7	SSW/27.6%
11	金門海域(W)	700(94%)	3.9	2.6/SSE	9.8/SSE	37.7	60.3	2.0	.0	15.3	52.6	29.3	2.9	SSE/34.4%
12	馬祖海域(W)	744(100%)	3.4	1.4/SSE	10.1/SSW	48.1	51.6	.3	.0	3.1	53.6	18.0	25.3	SE /28.8%

DISW4A.BAT 日期: 2019年07月 港灣技術研究中心

表6.8b 2019年 7月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	6.6	4.6/SW	16.3/NE	22.8	37.5	38.8	.8	10.9	11.8	67.5	9.8	SW /38.8%
2	北端海域(Y)	744(100%)	2.9	1.7/S	9.9/S	66.3	29.4	4.3	.0	14.1	38.3	34.4	13.2	S /19.9%
3	宜蘭海域(Y)	744(100%)	3.3	1.6/SSE	11.5/SSE	61.7	31.9	6.5	.0	13.6	43.3	16.5	26.6	SSE/21.6%
4	花蓮海域(Y)	744(100%)	2.4	.4/SSE	10.4/NNE	76.2	23.5	.3	.0	24.1	23.0	37.4	15.6	SW /13.6%
5	臺東海域(W)	744(100%)	3.1	1.6/SSE	7.9/N	56.2	43.7	.1	.0	14.5	54.6	13.7	17.2	SE /22.0%
6	屏東海域(Z)	744(100%)	6.3	1.1/WSW	14.8/S	16.5	51.5	31.5	.5	27.8	14.7	36.8	20.7	WSW/15.7%
7	高雄海域(Z)	744(100%)	3.6	1.0/S	12.4/SSW	48.4	48.8	2.8	.0	15.3	36.8	28.1	19.8	ESE/11.0%
8	嘉南海域(B)	744(100%)	3.7	2.0/S	8.6/SW	41.7	57.1	1.2	.0	7.1	39.4	36.2	17.3	SSE/22.3%
9	中雲海域(I)	744(100%)	5.6	3.8/S	14.7/SSW	24.9	53.5	21.2	.4	17.7	22.4	54.0	5.8	S /38.6%
10	澎湖海域(W)	744(100%)	3.9	2.0/S	11.6/N	48.1	46.0	5.9	.0	13.0	24.5	51.6	10.9	S /26.9%
11	金門海域(W)	744(100%)	3.9	2.6/SSE	9.8/SSE	37.9	60.2	1.9	.0	14.4	50.5	32.4	2.7	SSE/32.5%
12	馬祖海域(W)	744(100%)	3.4	1.4/SSE	10.1/SSW	48.1	51.6	.3	.0	3.1	53.6	18.0	25.3	SE /28.8%

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表6.9a 2019年 8月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	684(92%)	5.9	.9/SSW	19.1/ENE	37.0	28.2	31.0	3.8	27.9	16.8	45.5	9.8	SW /20.3%
2	北端海域(Y)	702(94%)	3.4	1.5/S	12.7/E	61.5	28.5	10.0	.0	15.5	34.0	32.6	17.8	S /16.5%
3	宜蘭海域(Y)	684(92%)	3.9	1.5/SSE	14.9/SE	55.0	35.8	8.6	.6	12.9	41.7	11.4	34.1	SSE/22.2%
4	花蓮海域(Y)	709(95%)	2.3	.2/E	10.4/NNE	79.3	20.2	.6	.0	28.8	17.9	39.9	13.4	SW /17.2%
5	臺東海域(W)	744(100%)	2.8	.2/NW	11.3/NW	66.9	32.0	1.1	.0	17.6	31.7	13.7	37.0	NW /18.5%
6	屏東海域(Z)	703(95%)	6.9	1.2/NNW	19.3/WNW	17.4	47.1	30.0	5.5	44.5	9.7	24.2	21.6	NE /19.5%
7	高雄海域(Z)	501(67%)	4.3	.7/SSW	17.3/SSE	47.3	39.1	12.2	1.4	17.4	33.3	22.8	26.5	WSW/ 8.8%
8	嘉南海域(B)	744(100%)	3.6	1.1/SW	13.4/SSE	47.4	47.4	5.1	.0	10.3	31.7	31.2	26.7	SSE/17.7%
9	中雲海域(I)	667(90%)	5.3	1.7/S	15.2/WSW	36.7	39.1	22.8	1.3	33.0	22.3	34.3	10.3	S /23.8%
10	澎湖海域(W)	437(59%)	4.0	1.0/NNW	11.4/N	43.0	51.9	5.0	.0	31.1	11.9	33.6	23.3	NNE/15.3%
11	金門海域(W)	744(100%)	4.5	1.0/ENE	15.4/NNE	30.9	62.2	6.5	.4	48.4	25.7	23.9	2.0	NNE/21.0%
12	馬祖海域(W)	743(100%)	3.6	1.3/NNW	11.6/NNW	48.7	47.5	3.8	.0	5.0	26.8	11.6	56.7	NNW/36.5%

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表6.9b 2019年 8月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	6.0	1.2/SSW	19.1/ENE	36.2	27.6	32.3	4.0	26.9	16.9	46.8	9.4	SW /21.0%
2	北端海域(Y)	744(100%)	3.4	1.6/S	12.7/E	60.3	30.2	9.4	.0	14.9	32.9	35.2	16.9	S /16.1%
3	宜蘭海域(Y)	744(100%)	3.8	1.5/S	14.9/SE	55.2	35.8	8.5	.5	12.9	41.4	12.2	33.5	SSE/21.9%
4	花蓮海域(Y)	744(100%)	2.3	.1/E	10.4/NNE	80.2	19.2	.5	.0	27.4	18.1	41.4	13.0	SW /17.6%
5	臺東海域(W)	744(100%)	2.8	.2/NW	11.3/NW	66.9	32.0	1.1	.0	17.5	31.7	13.8	37.0	NW /18.4%
6	屏東海域(Z)	744(100%)	6.7	1.1/NW	19.3/WNW	18.8	47.3	28.6	5.2	43.0	11.2	24.6	21.2	NE /18.8%
7	高雄海域(Z)	744(100%)	4.0	.8/SSW	17.3/SSE	48.7	40.7	9.7	.9	17.5	30.0	28.1	24.5	SW / 8.9%
8	嘉南海域(B)	744(100%)	3.6	1.1/SW	13.4/SSE	47.6	47.3	5.1	.0	10.2	31.9	31.2	26.7	SSE/17.7%
9	中雲海域(I)	744(100%)	5.4	2.0/S	15.2/WSW	35.8	38.6	24.5	1.2	30.8	20.6	38.0	10.6	S /24.6%
10	澎湖海域(W)	744(100%)	4.5	.2/NNW	14.8/ESE	38.4	50.8	10.3	.4	29.6	16.8	33.7	19.9	SSW/17.9%
11	金門海域(W)	744(100%)	4.5	1.0/ENE	15.4/NNE	30.9	62.2	6.5	.4	48.5	25.7	23.9	1.9	NNE/20.8%
12	馬祖海域(W)	744(100%)	3.6	1.3/NNW	11.6/NNW	48.5	47.7	3.8	.0	5.0	26.9	11.4	56.7	NNW/36.4%

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表6.10a 2019年 9月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	566(79%)	5.9	4.3/NE	16.9/NE	34.5	33.7	27.4	4.4	58.1	16.3	11.8	13.8	NE /27.6%
2	北端海域(Y)	569(79%)	4.5	1.4/NNE	18.3/N	31.6	58.3	9.5	.5	38.8	16.7	22.0	22.5	N /14.4%
3	宜蘭海域(Y)	497(69%)	5.1	1.6/NW	16.1/N	30.2	51.7	17.1	1.0	12.1	24.7	8.2	54.9	WNW/18.5%
4	花蓮海域(Y)	569(79%)	3.0	.9/NNE	17.7/NNE	68.2	26.9	4.6	.4	35.1	14.1	36.4	14.4	NE /15.5%
5	臺東海域(W)	720(100%)	3.5	2.4/NNW	16.9/N	54.9	40.7	3.6	.8	16.9	15.1	2.1	65.8	NW /42.9%
6	屏東海域(Z)	568(79%)	7.5	4.4/NNE	17.2/W	10.2	43.0	44.5	2.3	66.4	.9	13.7	19.0	NE /46.8%
7	高雄海域(Z)	416(58%)	3.6	2.0/NNW	13.4/N	57.2	34.9	7.9	.0	31.5	11.3	18.3	38.9	N /13.9%
8	嘉南海域(B)	720(100%)	4.3	2.7/N	13.4/N	42.2	48.5	9.3	.0	36.5	16.7	9.7	37.1	NNE/17.9%
9	中雲海域(I)	558(78%)	6.4	4.9/NE	18.8/NNE	30.3	34.1	26.3	9.3	66.8	12.0	13.1	8.1	NNE/40.7%
10	澎湖海域(W)	697(97%)	5.5	4.8/NNE	14.4/N	28.6	51.2	19.9	.3	71.0	5.0	4.6	19.4	NNE/47.3%
11	金門海域(W)	720(100%)	4.7	3.8/NNE	11.2/N	26.7	67.2	6.1	.0	79.4	10.6	2.9	7.1	NNE/31.9%
12	馬祖海域(W)	720(100%)	4.2	3.6/NNW	9.6/NNW	32.8	64.7	2.5	.0	7.1	5.8	3.3	83.8	NNW/52.5%

DISW4A.BAT 日期: 2019年09月 港灣技術研究中心

表6.10b 2019年 9月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	720(100%)	6.4	5.1/NE	18.0/NE	27.8	36.7	31.3	4.3	65.8	13.5	9.6	11.1	NE /29.3%
2	北端海域(Y)	720(100%)	4.7	1.9/N	18.3/N	33.6	53.9	12.1	.4	36.0	13.3	21.0	29.7	N /25.6%
3	宜蘭海域(Y)	720(100%)	4.8	1.9/NW	16.1/N	30.7	56.0	12.6	.7	13.2	18.5	6.8	61.5	NW /19.9%
4	花蓮海域(Y)	720(100%)	3.2	1.3/NNE	17.7/NNE	66.1	26.8	6.8	.3	38.5	11.5	36.9	13.1	SW /17.2%
5	臺東海域(W)	720(100%)	3.5	2.4/NNW	16.9/N	54.9	40.7	3.6	.8	16.9	15.1	2.1	65.8	NW /42.8%
6	屏東海域(Z)	720(100%)	7.7	5.2/NNE	17.2/W	8.1	40.8	49.3	1.8	73.5	.7	10.8	15.0	NE /46.5%
7	高雄海域(Z)	720(100%)	3.2	1.5/NNW	14.5/NNW	66.0	27.5	6.3	.3	31.5	12.2	21.3	35.0	NNW/11.9%
8	嘉南海域(B)	720(100%)	4.3	2.7/N	13.4/N	42.1	48.6	9.3	.0	36.7	16.7	9.7	36.9	NNE/17.9%
9	中雲海域(I)	720(100%)	7.1	5.8/NE	18.8/NNE	25.8	31.5	32.4	10.3	73.2	9.3	10.6	6.9	NNE/43.6%
10	澎湖海域(W)	720(100%)	5.3	4.7/NNE	14.4/N	30.8	49.6	19.3	.3	70.0	5.0	4.9	20.1	NNE/46.0%
11	金門海域(W)	720(100%)	4.7	3.8/NNE	11.2/N	26.7	67.2	6.1	.0	79.3	10.6	3.1	7.1	NNE/32.4%
12	馬祖海域(W)	720(100%)	4.2	3.6/NNW	9.6/NNW	32.8	64.7	2.5	.0	7.1	5.8	3.3	83.8	NNW/52.5%

DISW4A.BAT 日期: 2019年09月 港灣技術研究中心

表6.11a 2019年10月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	702(94%)	8.1	7.0/NE	15.5/NE	10.5	29.9	57.0	2.6	84.0	3.3	7.8	4.8	NE /54.4%
2	北端海域(Y)	701(94%)	4.4	2.9/NNE	10.6/WSW	33.2	61.5	5.3	.0	55.1	8.3	13.3	23.4	N /26.2%
3	宜蘭海域(Y)	664(89%)	4.6	2.6/NNW	10.4/NNE	28.3	64.0	7.7	.0	27.4	9.6	6.0	56.9	WNW/25.5%
4	花蓮海域(Y)	702(94%)	3.8	2.3/NE	13.1/NE	62.5	24.2	13.2	.0	50.9	3.8	28.2	17.1	NE /32.3%
5	臺東海域(W)	721(97%)	3.5	2.7/NNW	9.5/NW	50.1	49.0	1.0	.0	12.1	11.5	1.8	74.6	NW /50.1%
6	屏東海域(Z)	702(94%)	9.3	8.1/NE	18.4/NE	4.3	27.9	59.1	8.7	91.0	.1	2.7	6.1	NE /71.7%
7	高雄海域(Z)	525(71%)	3.1	2.1/NNW	13.1/NNW	64.6	32.4	3.0	.0	30.1	6.3	15.2	48.4	N /19.8%
8	嘉南海域(B)	726(98%)	4.3	3.3/N	12.2/NNW	35.8	58.4	5.8	.0	44.6	6.5	7.7	41.2	N /24.7%
9	中雲海域(I)	684(92%)	8.1	7.2/NE	17.1/NNE	14.3	33.0	45.2	7.5	86.0	4.2	6.7	3.1	NNE/45.2%
10	澎湖海域(W)	738(99%)	6.4	5.8/NNE	12.7/NNE	14.6	51.8	33.6	.0	82.7	3.3	6.1	8.0	NNE/65.6%
11	金門海域(W)	744(100%)	5.2	4.4/NNE	13.5/NNE	19.6	69.4	11.0	.0	85.9	9.7	2.4	2.0	NNE/42.7%
12	馬祖海域(W)	38(5%)	4.4	2.0/SSW	9.2/WNW	26.3	68.4	5.3	.0	2.6	42.1	36.8	18.4	SE /23.7%

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表6.11b 2019年10月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	744(100%)	8.3	7.2/NE	18.1/NE	9.9	28.9	57.8	3.4	84.9	3.1	7.4	4.6	NE /54.8%
2	北端海域(Y)	744(100%)	4.5	3.1/NNE	10.6/WSW	32.7	61.4	5.9	.0	56.5	7.8	13.7	22.0	N /24.9%
3	宜蘭海域(Y)	744(100%)	4.5	2.4/NNW	10.4/NNE	30.5	61.8	7.7	.0	27.2	10.8	6.3	55.8	WNW/25.5%
4	花蓮海域(Y)	744(100%)	3.8	2.4/NE	13.1/NE	61.0	25.8	13.2	.0	51.7	3.5	27.4	17.3	NE /31.7%
5	臺東海域(W)	744(100%)	3.5	2.7/NNW	9.5/NW	50.3	48.8	.9	.0	11.6	11.3	1.7	75.4	NW /48.7%
6	屏東海域(Z)	744(100%)	9.2	8.1/NE	18.4/NE	4.0	28.8	59.0	8.2	91.5	.1	2.6	5.8	NE /72.8%
7	高雄海域(Z)	744(100%)	3.1	2.2/NNW	13.1/NNW	63.7	32.9	3.4	.0	30.5	5.1	14.0	50.4	N /19.1%
8	嘉南海域(B)	744(100%)	4.2	3.3/N	12.2/NNW	36.6	57.8	5.6	.0	45.4	6.3	7.5	40.7	N /26.1%
9	中雲海域(I)	744(100%)	8.2	7.4/NE	17.1/NNE	13.7	32.8	46.2	7.3	86.7	3.9	6.6	2.8	NNE/46.4%
10	澎湖海域(W)	744(100%)	6.4	5.8/NNE	12.7/NNE	14.5	51.6	33.9	.0	82.8	3.2	6.0	7.9	NNE/65.5%
11	金門海域(W)	744(100%)	5.2	4.4/NNE	13.5/NNE	19.6	69.4	11.0	.0	85.9	9.7	2.4	2.0	NNE/42.6%
12	馬祖海域(W)	744(100%)	4.1	3.6/NNE	9.2/WNW	27.0	72.7	.3	.0	86.2	10.8	2.0	1.1	NNE/65.2%

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表6.12a 2019年11月12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	720(100%)	9.9	9.5/NE	17.9/NE	13.1	18.2	46.0	22.8	89.2	5.4	2.4	3.1	NE /65.4%
2	北端海域(Y)	720(100%)	5.5	4.3/NNE	11.4/NNE	26.1	49.6	24.3	.0	68.6	5.8	11.0	14.6	NE /24.0%
3	宜蘭海域(Y)	713(99%)	5.0	3.2/NNW	11.4/NNE	22.7	64.8	12.5	.0	27.6	4.2	4.6	63.5	WNW/32.4%
4	花蓮海域(Y)	720(100%)	5.4	4.0/NE	14.7/NE	44.4	26.0	28.3	1.3	61.9	1.3	24.7	12.1	NE /42.2%
5	臺東海域(W)	720(100%)	4.5	4.0/NW	11.1/NNW	36.0	55.1	8.9	.0	6.5	7.9	1.0	84.6	NW /61.4%
6	屏東海域(Z)	720(100%)	11.7	11.4/NE	20.7/NE	3.3	15.8	42.5	38.3	96.0	.7	.7	2.6	NE /74.7%
7	高雄海域(Z)	550(76%)	4.2	3.7/N	9.3/N	36.9	60.4	2.7	.0	52.9	2.0	1.6	43.5	N /37.3%
8	嘉南海域(B)	720(100%)	5.2	4.8/N	11.3/N	22.2	65.4	12.4	.0	60.8	1.4	.4	37.4	N /37.4%
9	中雲海域(I)	706(98%)	10.4	10.4/NE	20.4/NE	7.6	22.9	39.7	29.7	97.3	1.7	.3	.7	NE /47.9%
10	澎湖海域(W)	711(99%)	8.4	8.3/NNE	14.7/NNE	4.2	36.1	59.1	.6	94.9	.1	.0	4.9	NNE/82.3%
11	金門海域(W)	720(100%)	5.9	5.6/NNE	13.2/N	21.1	54.2	24.7	.0	90.1	2.9	.6	6.4	NNE/45.6%
12	馬祖海域(W)													

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表6.12b 2019年11月12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	720(100%)	9.9	9.5/NE	17.9/NE	13.1	18.2	46.1	22.6	89.2	5.4	2.4	3.1	NE /65.4%
2	北端海域(Y)	720(100%)	5.5	4.3/NNE	11.4/NNE	26.1	49.6	24.3	.0	68.5	6.0	11.0	14.6	NE /24.0%
3	宜蘭海域(Y)	720(100%)	5.0	3.2/NNW	11.4/NNE	23.2	64.4	12.4	.0	27.8	4.2	4.6	63.5	WNW/32.1%
4	花蓮海域(Y)	720(100%)	5.4	4.0/NE	14.7/NE	44.4	26.0	28.3	1.3	61.9	1.3	24.7	12.1	NE /42.2%
5	臺東海域(W)	720(100%)	4.5	4.0/NW	11.1/NNW	36.0	55.1	8.9	.0	6.5	7.9	1.0	84.6	NW /61.7%
6	屏東海域(Z)	720(100%)	11.7	11.4/NE	20.7/NE	3.3	15.8	42.6	38.2	96.0	.7	.7	2.6	NE /74.7%
7	高雄海域(Z)	720(100%)	4.2	3.8/N	10.0/NNW	35.0	61.9	3.1	.0	52.6	1.8	1.5	44.0	N /37.9%
8	嘉南海域(B)	720(100%)	5.2	4.8/N	11.3/N	22.2	65.4	12.4	.0	61.1	1.4	.4	37.1	N /37.4%
9	中雲海域(I)	720(100%)	10.4	10.3/NE	20.4/NE	7.6	23.3	39.7	29.3	97.4	1.7	.3	.7	NE /47.9%
10	澎湖海域(W)	720(100%)	8.3	8.2/NNE	14.7/NNE	4.2	36.4	58.9	.6	95.1	.1	.0	4.7	NNE/82.2%
11	金門海域(W)	720(100%)	5.9	5.6/NNE	13.2/N	21.1	54.2	24.7	.0	90.1	2.9	.6	6.4	NNE/45.4%
12	馬祖海域(W)	720(100%)	4.5	4.5/NNE	6.6/N	17.9	82.1	.0	.0	98.2	1.5	.0	.3	NNE/67.9%

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表6.13a 2019年冬季12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	1989(92%)	7.9	7.3/NE	17.7/NE	20.8	25.3	43.9	10.0	81.1	7.9	4.7	6.2	NE /55.2%
2	北端海域(Y)	983(46%)	5.4	3.4/NE	11.9/NE	25.3	53.3	21.4	.0	57.8	8.6	18.5	15.1	NNE/18.0%
3	宜蘭海域(Y)	2030(94%)	4.7	2.7/N	12.0/NNE	35.8	50.5	13.7	.0	35.8	6.7	5.3	52.2	WNW/24.9%
4	花蓮海域(Y)	2053(95%)	4.6	2.7/NNE	13.1/NE	49.3	32.0	18.7	.0	48.5	5.7	31.5	14.4	NNE/28.3%
5	臺東海域(W)	1802(83%)	3.8	2.3/NNW	10.8/NNW	48.2	48.1	3.7	.0	16.4	21.1	.9	61.5	NW /35.6%
6	屏東海域(Z)	2034(94%)	9.3	8.6/NE	19.4/NE	9.0	32.4	37.5	21.0	86.4	5.8	3.8	4.0	NE /70.6%
7	高雄海域(Z)	1697(79%)	5.1	4.5/N	10.3/N	20.0	71.5	8.5	.0	57.0	2.4	2.0	38.5	N /41.5%
8	嘉南海域(B)	2159(100%)	5.8	5.4/N	12.6/N	16.1	62.9	21.0	.0	51.3	2.0	1.3	45.5	N /48.8%
9	中雲海域(I)	1855(86%)	9.4	9.2/NNE	20.0/NNE	12.5	24.5	44.7	18.2	94.5	2.2	1.9	1.4	NNE/58.1%
10	澎湖海域(W)	523(24%)	6.5	6.3/NNE	13.3/N	18.9	47.6	33.5	.0	89.1	2.7	.4	7.8	NNE/64.6%
11	金門海域(W)	1558(72%)	5.0	4.3/NNE	13.4/N	30.0	55.1	14.9	.0	82.9	8.2	2.4	6.5	NNE/48.2%
12	馬祖海域(W)	879(41%)	3.5	2.8/NNW	10.3/NNW	56.3	40.0	3.6	.0	8.2	9.6	7.5	74.7	NNW/44.3%

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表6.13b 2019年冬季12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	2160(100%)	7.9	7.3/NE	18.5/NE	20.3	26.7	42.7	10.3	81.3	8.0	4.8	6.0	NE /54.9%
2	北端海域(Y)	2160(100%)	4.7	3.3/NNE	11.9/NE	35.1	51.7	13.2	.0	65.1	9.5	11.7	13.7	NNE/21.9%
3	宜蘭海域(Y)	2160(100%)	4.6	2.7/N	12.0/NNE	36.8	49.8	13.5	.0	35.0	7.2	5.3	52.5	WNW/24.9%
4	花蓮海域(Y)	2160(100%)	4.6	2.7/NNE	13.1/NE	49.4	32.2	18.4	.0	48.3	6.1	31.0	14.6	NNE/27.1%
5	臺東海域(W)	2160(100%)	3.8	2.5/NNW	10.8/NNW	47.4	49.2	3.4	.0	16.6	18.1	.8	64.5	NW /30.2%
6	屏東海域(Z)	2160(100%)	9.4	8.7/NE	19.4/NE	8.7	31.7	39.1	20.6	87.1	5.5	3.6	3.8	NE /71.6%
7	高雄海域(Z)	2160(100%)	5.2	4.7/N	12.5/N	17.6	73.8	8.7	.0	58.8	2.3	1.8	37.1	N /41.5%
8	嘉南海域(B)	2160(100%)	5.8	5.4/N	12.6/N	16.1	62.9	21.1	.0	51.3	2.0	1.3	45.4	N /48.7%
9	中雲海域(I)	2160(100%)	9.4	9.2/NNE	20.0/NNE	11.7	26.2	44.3	17.8	94.4	2.0	2.4	1.2	NNE/60.1%
10	澎湖海域(W)	2160(100%)	7.4	7.2/NNE	14.9/NE	10.0	41.9	47.9	.2	95.2	1.0	.2	3.6	NNE/53.8%
11	金門海域(W)	2160(100%)	5.1	4.4/NNE	13.4/N	29.5	56.6	13.9	.0	84.2	7.4	2.5	6.0	NNE/45.0%
12	馬祖海域(W)	2160(100%)	4.4	4.0/N	10.3/NNW	30.8	67.7	1.5	.0	56.7	4.6	3.2	35.5	N /31.1%

DISW4A.BAT 日期: 2019年冬季 港灣技術研究中心

表6.14a 2019年春季12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	1803(82%)	6.1	2.0/NE	15.1/N	27.8	36.5	35.1	.6	53.2	9.1	26.4	11.3	NE /27.4%
2	北端海域(Y)	1648(75%)	3.5	.3/ESE	10.7/W	51.5	45.1	3.3	.0	22.4	30.2	22.3	25.1	S / 9.1%
3	宜蘭海域(Y)	2179(99%)	3.7	1.3/NNW	12.9/NNE	52.5	40.7	6.7	.0	28.4	14.4	9.1	48.1	WNW/20.5%
4	花蓮海域(Y)	2202(100%)	3.3	1.2/N	11.6/NE	65.8	27.5	6.7	.0	36.9	7.2	37.4	18.5	NNE/19.2%
5	臺東海域(W)	2168(98%)	3.1	1.1/N	9.0/SE	63.1	36.1	.8	.0	23.4	28.6	1.8	46.2	NNW/21.5%
6	屏東海域(Z)	2182(99%)	7.7	4.6/NNE	17.5/NE	13.0	41.6	37.3	8.1	60.6	5.9	9.4	24.1	NE /48.6%
7	高雄海域(Z)	1732(78%)	3.5	1.9/N	10.6/N	51.2	46.0	2.9	.0	34.2	10.7	16.7	38.4	N /20.5%
8	嘉南海域(B)	2196(100%)	3.8	2.2/N	12.4/NNW	46.0	50.0	4.0	.0	36.2	10.2	18.6	34.9	N /20.7%
9	中雲海域(I)	2142(97%)	6.1	3.5/NNE	15.9/NE	23.1	49.2	26.2	1.5	65.9	7.4	21.6	5.1	NNE/40.8%
10	澎湖海域(W)	519(24%)	5.2	4.6/NNE	10.6/NNE	23.9	62.2	13.9	.0	75.9	9.6	2.5	11.9	NNE/50.5%
11	金門海域(W)	1547(70%)	4.4	2.5/NE	15.4/W	36.7	54.5	8.7	.1	64.0	23.0	7.2	5.8	NNE/30.0%
12	馬祖海域(W)	1606(73%)	3.0	1.4/N	10.2/N	62.5	34.6	2.9	.0	9.9	24.0	7.7	58.4	NNW/33.3%

DISW4A.BAT 日期: 2019年春季 港灣技術研究中心

表6.14b 2019年春季12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	2208(100%)	6.1	2.4/NE	15.4/NE	26.6	39.9	32.9	.7	55.7	10.4	23.0	10.9	NE /28.2%
2	北端海域(Y)	2208(100%)	3.5	.5/E	10.7/W	52.2	44.2	3.6	.0	24.6	29.5	22.6	23.3	NNE/ 9.8%
3	宜蘭海域(Y)	2208(100%)	3.7	1.3/NNW	12.9/NNE	52.4	40.9	6.7	.0	28.6	14.4	9.1	47.9	WNW/20.3%
4	花蓮海域(Y)	2208(100%)	3.3	1.2/N	11.6/NE	65.7	27.6	6.7	.0	37.0	7.2	37.3	18.5	NNE/19.2%
5	臺東海域(W)	2208(100%)	3.0	1.1/N	9.0/SE	63.5	35.7	.8	.0	23.5	28.2	1.7	46.6	NNW/22.3%
6	屏東海域(Z)	2208(100%)	7.7	4.6/NNE	17.5/NE	13.3	41.8	37.0	8.0	60.9	5.9	9.4	23.8	NE /48.6%
7	高雄海域(Z)	2208(100%)	3.5	2.1/N	11.8/NNW	50.2	46.6	3.2	.0	34.8	10.7	15.3	39.2	N /22.7%
8	嘉南海域(B)	2208(100%)	3.8	2.2/N	12.4/NNW	46.2	49.8	4.0	.0	36.3	10.1	18.4	35.1	N /20.7%
9	中雲海域(I)	2208(100%)	6.0	3.4/NNE	15.9/NE	23.3	49.1	26.0	1.5	65.4	7.4	22.1	5.2	NNE/40.7%
10	澎湖海域(W)	2208(100%)	4.3	2.8/NNE	10.6/NNE	38.1	53.2	8.7	.0	63.1	12.7	15.3	8.8	NNE/36.9%
11	金門海域(W)	2208(100%)	4.0	2.2/NE	15.4/W	42.4	50.8	6.7	.0	63.1	21.2	10.1	5.6	NNE/29.2%
12	馬祖海域(W)	2208(100%)	3.2	1.9/N	10.2/N	58.8	39.0	2.1	.0	33.1	18.3	5.8	42.8	NNW/24.3%

DISW4A.BAT 日期: 2019年春季 港灣技術研究中心

表6.15a 2019年夏季12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	1926(87%)	6.3	3.0/SW	19.1/ENE	29.4	32.4	36.6	1.7	19.3	14.0	56.9	9.9	SW /31.0%
2	北端海域(Y)	2001(91%)	3.0	1.3/S	12.7/E	65.2	29.6	5.2	.0	16.1	33.4	32.5	18.0	S /15.2%
3	宜蘭海域(Y)	1967(89%)	3.3	1.1/SSE	14.9/SE	63.0	30.6	6.2	.2	16.3	38.2	12.9	32.6	SSE/18.4%
4	花蓮海域(Y)	2009(91%)	2.3	.2/SSE	10.4/NNE	78.5	21.1	.4	.0	26.4	19.1	37.9	16.5	SW /16.1%
5	臺東海域(W)	2207(100%)	2.9	.9/SE	11.3/NW	64.4	34.6	1.0	.0	18.4	45.1	11.7	24.7	SE /21.0%
6	屏東海域(Z)	1986(90%)	6.4	1.6/WNW	19.3/WNW	18.8	49.7	29.4	2.2	31.9	8.6	32.9	26.6	NE /14.9%
7	高雄海域(Z)	1505(68%)	3.7	1.2/S	17.3/SSE	49.0	45.0	5.4	.5	12.3	41.9	26.0	19.8	ESE/12.4%
8	嘉南海域(B)	2207(100%)	3.5	1.7/SSW	13.4/SSE	47.9	49.9	2.1	.0	8.6	35.9	38.2	17.3	SSE/18.6%
9	中雲海域(I)	1908(86%)	5.4	2.7/S	15.2/WSW	27.9	52.6	18.8	.6	23.4	24.5	45.9	6.2	S /32.6%
10	澎湖海域(W)	1369(62%)	3.4	.7/SW	11.6/N	57.9	39.7	2.4	.0	18.3	19.9	47.6	14.2	SSW/24.3%
11	金門海域(W)	1803(82%)	4.1	1.6/SSE	15.4/NNE	36.6	59.6	3.6	.2	27.2	43.6	27.1	2.0	SSE/27.6%
12	馬祖海域(W)	2032(92%)	3.4	.2/E	11.6/NNW	50.6	47.9	1.5	.0	4.6	40.4	13.6	41.4	NNW/24.7%

DISW4A.BAT 日期: 2019年夏季 港灣技術研究中心

表6.15b 2019年夏季12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱(測站)	觀測點數	風速平均值 (m/s)	平均風風速/風向 (m/s)/(來向)	最疾風風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	2208(100%)	6.3	3.2/SW	19.1/ENE	27.4	35.6	35.3	1.6	17.5	13.2	59.8	9.5	SW /31.3%
2	北端海域(Y)	2208(100%)	2.9	1.3/S	12.7/E	66.9	28.3	4.8	.0	15.5	33.4	34.2	16.8	S /15.7%
3	宜蘭海域(Y)	2208(100%)	3.3	1.0/SSE	14.9/SE	62.9	31.1	5.8	.2	16.9	37.2	13.4	32.5	SSE/17.7%
4	花蓮海域(Y)	2208(100%)	2.3	.1/SSE	10.4/NNE	80.2	19.5	.4	.0	26.4	18.8	38.1	16.6	SW /15.4%
5	臺東海域(W)	2208(100%)	2.9	.9/SE	11.3/NW	64.4	34.6	1.0	.0	18.4	45.1	11.8	24.7	SE /20.9%
6	屏東海域(Z)	2208(100%)	6.1	1.3/WNW	19.3/WNW	21.3	50.1	26.7	1.9	30.8	13.1	30.7	25.3	NE /13.7%
7	高雄海域(Z)	2208(100%)	3.5	1.0/S	17.3/SSE	53.2	42.2	4.3	.3	14.9	37.0	28.1	20.0	S /10.1%
8	嘉南海域(B)	2208(100%)	3.5	1.6/SSW	13.4/SSE	48.0	49.9	2.1	.0	8.6	35.9	38.1	17.3	SSE/18.6%
9	中雲海域(I)	2208(100%)	5.4	3.0/S	15.2/WSW	27.4	53.0	19.1	.5	21.2	22.3	50.5	6.1	S /31.5%
10	澎湖海域(W)	2208(100%)	3.9	1.2/S	14.8/ESE	46.7	47.5	5.6	.1	19.7	23.3	45.4	11.6	S /24.0%
11	金門海域(W)	2208(100%)	4.0	1.5/SSE	15.4/NNE	37.6	59.3	2.9	.1	31.7	37.5	29.2	1.6	SSE/22.9%
12	馬祖海域(W)	2208(100%)	3.3	.2/ENE	11.6/NNW	52.4	46.2	1.4	.0	10.1	38.3	13.4	38.2	NNW/22.8%

DISW4A.BAT 日期: 2019年夏季 港灣技術研究中心

表6.16a 2019年秋季12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	1988(91%)	8.1	7.1/NE	17.9/NE	18.3	26.8	44.6	10.4	78.5	7.7	7.0	6.7	NE /50.8%
2	北端海域(Y)	1990(91%)	4.9	2.9/NNE	18.3/N	30.2	56.3	13.4	.2	55.3	9.8	14.9	19.9	N /17.6%
3	宜蘭海域(Y)	1874(86%)	4.9	2.5/NNW	16.1/N	26.7	61.0	12.0	.3	23.4	11.6	6.1	58.9	WNW/26.3%
4	花蓮海域(Y)	1991(91%)	4.2	2.5/NE	17.7/NNE	57.6	25.6	16.2	.6	50.4	5.8	29.3	14.5	NE /31.1%
5	臺東海域(W)	2161(99%)	3.8	3.0/NNW	16.9/N	47.0	48.3	4.5	.3	11.8	11.5	1.6	75.0	NW /51.5%
6	屏東海域(Z)	1990(91%)	9.7	8.2/NE	20.7/NE	5.6	27.8	48.9	17.6	85.8	.6	5.1	8.5	NE /65.7%
7	高雄海域(Z)	1491(68%)	3.6	2.6/N	13.4/N	52.3	43.4	4.3	.0	38.9	6.1	11.1	43.9	N /24.6%
8	嘉南海域(B)	2166(99%)	4.6	3.6/N	13.4/N	33.4	57.4	9.1	.0	47.3	8.2	6.0	38.6	N /26.5%
9	中雲海域(I)	1948(89%)	8.5	7.7/NE	20.4/NE	16.5	29.7	37.8	16.1	84.6	5.5	6.2	3.6	NNE/44.7%
10	澎湖海域(W)	2146(98%)	6.8	6.3/NNE	14.7/NNE	15.7	46.4	37.6	.3	82.9	2.8	3.6	10.7	NNE/65.2%
11	金門海域(W)	2184(100%)	5.3	4.6/NNE	13.5/NNE	22.4	63.6	13.9	.0	85.2	7.7	2.0	5.1	NNE/40.1%
12	馬祖海域(W)	758(35%)	4.2	3.4/NNW	9.6/NNW	32.5	64.9	2.6	.0	6.9	7.7	5.0	80.5	NNW/49.9%

DISW4A.BAT 日期: 2019年秋季 港灣技術研究中心

表6.16b 2019年秋季12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	2184(100%)	8.2	7.3/NE	18.1/NE	16.8	27.9	45.2	10.0	80.0	7.3	6.5	6.2	NE /49.9%
2	北端海域(Y)	2184(100%)	4.9	3.0/NNE	18.3/N	30.8	55.0	14.0	.1	53.7	9.0	15.2	22.1	N /20.7%
3	宜蘭海域(Y)	2184(100%)	4.8	2.5/NNW	16.1/N	28.2	60.8	10.9	.2	22.8	11.1	5.9	60.2	WNW/25.4%
4	花蓮海域(Y)	2184(100%)	4.2	2.6/NE	17.7/NNE	57.2	26.2	16.1	.5	50.7	5.4	29.7	14.2	NE /30.3%
5	臺東海域(W)	2184(100%)	3.8	3.0/NNW	16.9/N	47.1	48.2	4.4	.3	11.7	11.4	1.6	75.3	NW /51.0%
6	屏東海域(Z)	2184(100%)	9.5	8.2/NE	20.7/NE	5.1	28.5	50.4	16.0	87.0	.5	4.7	7.8	NE /64.8%
7	高雄海域(Z)	2184(100%)	3.5	2.5/NNW	14.5/NNW	55.0	40.7	4.2	.1	38.1	6.4	12.3	43.2	N /22.9%
8	嘉南海域(B)	2184(100%)	4.6	3.6/N	13.4/N	33.7	57.3	9.1	.0	47.7	8.1	5.9	38.3	N /26.9%
9	中雲海域(I)	2184(100%)	8.6	7.8/NE	20.4/NE	15.7	29.3	39.5	15.5	85.8	4.9	5.8	3.5	NNE/45.8%
10	澎湖海域(W)	2184(100%)	6.7	6.2/NNE	14.7/NNE	16.5	45.9	37.3	.3	82.6	2.8	3.7	10.9	NNE/64.6%
11	金門海域(W)	2184(100%)	5.3	4.6/NNE	13.5/NNE	22.4	63.6	13.9	.0	85.1	7.7	2.0	5.1	NNE/40.2%
12	馬祖海域(W)	2184(100%)	4.3	3.6/N	9.6/NNW	25.9	73.2	.9	.0	64.1	6.1	1.8	28.1	NNE/45.3%

DISW4A.BAT 日期: 2019年秋季 港灣技術研究中心

表6.17a 2019年整年12個海域主要測站2修補前風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	7706(88%)	7.1	3.5/NE	19.1/ENE	23.9	30.1	40.2	5.8	58.5	9.7	23.4	8.4	NE /35.6%
2	北端海域(Y)	6622(76%)	4.0	1.1/NE	18.3/N	45.3	45.0	9.6	.0	35.7	21.8	22.6	19.9	NNE/10.7%
3	宜蘭海域(Y)	8050(92%)	4.1	1.3/NNW	16.1/N	44.9	45.4	9.6	.1	26.1	17.6	8.4	47.9	WNW/21.3%
4	花蓮海域(Y)	8255(94%)	3.6	1.5/NNE	17.7/NNE	62.8	26.6	10.4	.1	40.5	9.4	34.1	16.1	NNE/16.7%
5	臺東海域(W)	8338(95%)	3.4	1.3/NNW	16.9/N	56.1	41.4	2.4	.1	17.6	26.9	4.2	51.3	NW /28.6%
6	屏東海域(Z)	8192(94%)	8.3	5.2/NE	20.7/NE	11.6	38.0	38.3	12.2	66.1	5.2	12.7	16.0	NE /50.0%
7	高雄海域(Z)	6425(73%)	4.0	2.0/N	17.3/SSE	42.7	51.9	5.3	.1	36.2	14.7	13.7	35.4	N /23.0%
8	嘉南海域(B)	8728(100%)	4.4	2.4/N	13.4/N	36.0	55.0	9.0	.0	35.7	14.2	16.1	34.0	N /24.5%
9	中雲海域(I)	7853(90%)	7.3	4.4/NE	20.4/NE	20.1	39.3	31.7	8.9	67.0	9.9	19.0	4.2	NNE/39.6%
10	澎湖海域(W)	4557(52%)	5.5	4.0/NNE	14.7/NNE	29.7	46.3	23.9	.1	63.4	8.7	16.3	11.5	NNE/46.6%
11	金門海域(W)	7092(81%)	4.7	2.7/NNE	15.4/W	30.8	58.7	10.4	.1	65.3	20.3	9.6	4.8	NNE/32.4%
12	馬祖海域(W)	5275(60%)	3.4	1.3/NNW	11.6/NNW	52.6	45.0	2.5	.0	7.1	25.6	9.6	57.7	NNW/34.2%

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表6.17b 2019年整年12個海域主要測站2修補後風速及風向重要統計量統計表

序號	海域名稱 (測站)	觀測點數	風速平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最疾風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	北苗海域(Y)	8760(100%)	7.1	3.4/NE	19.1/ENE	22.8	32.6	39.0	5.6	58.5	9.7	23.6	8.2	NE /34.8%
2	北端海域(Y)	8760(100%)	4.0	1.4/NE	18.3/N	46.4	44.7	8.9	.0	39.6	20.4	21.0	19.0	NNE/12.8%
3	宜蘭海域(Y)	8760(100%)	4.1	1.3/NNW	16.1/N	45.2	45.6	9.2	.1	25.8	17.5	8.5	48.2	WNW/21.0%
4	花蓮海域(Y)	8760(100%)	3.6	1.6/NNE	17.7/NNE	63.2	26.3	10.3	.1	40.5	9.4	34.1	16.0	NNE/16.5%
5	臺東海域(W)	8760(100%)	3.4	1.4/NNW	16.9/N	55.7	41.9	2.4	.1	17.6	25.8	4.0	52.6	NW /27.3%
6	屏東海域(Z)	8760(100%)	8.2	5.2/NE	20.7/NE	12.1	38.1	38.2	11.6	66.3	6.3	12.2	15.3	NE /49.5%
7	高雄海域(Z)	8760(100%)	3.9	2.0/N	17.3/SSE	44.1	50.7	5.1	.1	36.6	14.2	14.4	34.8	N /22.5%
8	嘉南海域(B)	8760(100%)	4.4	2.4/N	13.4/N	36.1	54.9	9.0	.0	35.9	14.1	16.0	34.0	N /24.6%
9	中雲海域(I)	8760(100%)	7.3	4.4/NE	20.4/NE	19.6	39.5	32.1	8.8	66.5	9.2	20.3	4.0	NNE/39.8%
10	澎湖海域(W)	8760(100%)	5.6	3.7/NNE	14.9/NE	27.9	47.2	24.7	.1	65.0	10.0	16.3	8.7	NNE/41.1%
11	金門海域(W)	8760(100%)	4.6	2.6/NE	15.4/W	33.0	57.6	9.3	.0	65.9	18.5	11.0	4.6	NNE/31.2%
12	馬祖海域(W)	8760(100%)	3.8	2.4/N	11.6/NNW	42.1	56.4	1.5	.0	40.8	16.9	6.1	36.2	NNE/23.6%

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第七章 2019 年 12 海域風力主要測站 2 修補前後資料歷線比較圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Twelve Seas Wind Speed at 2018/12

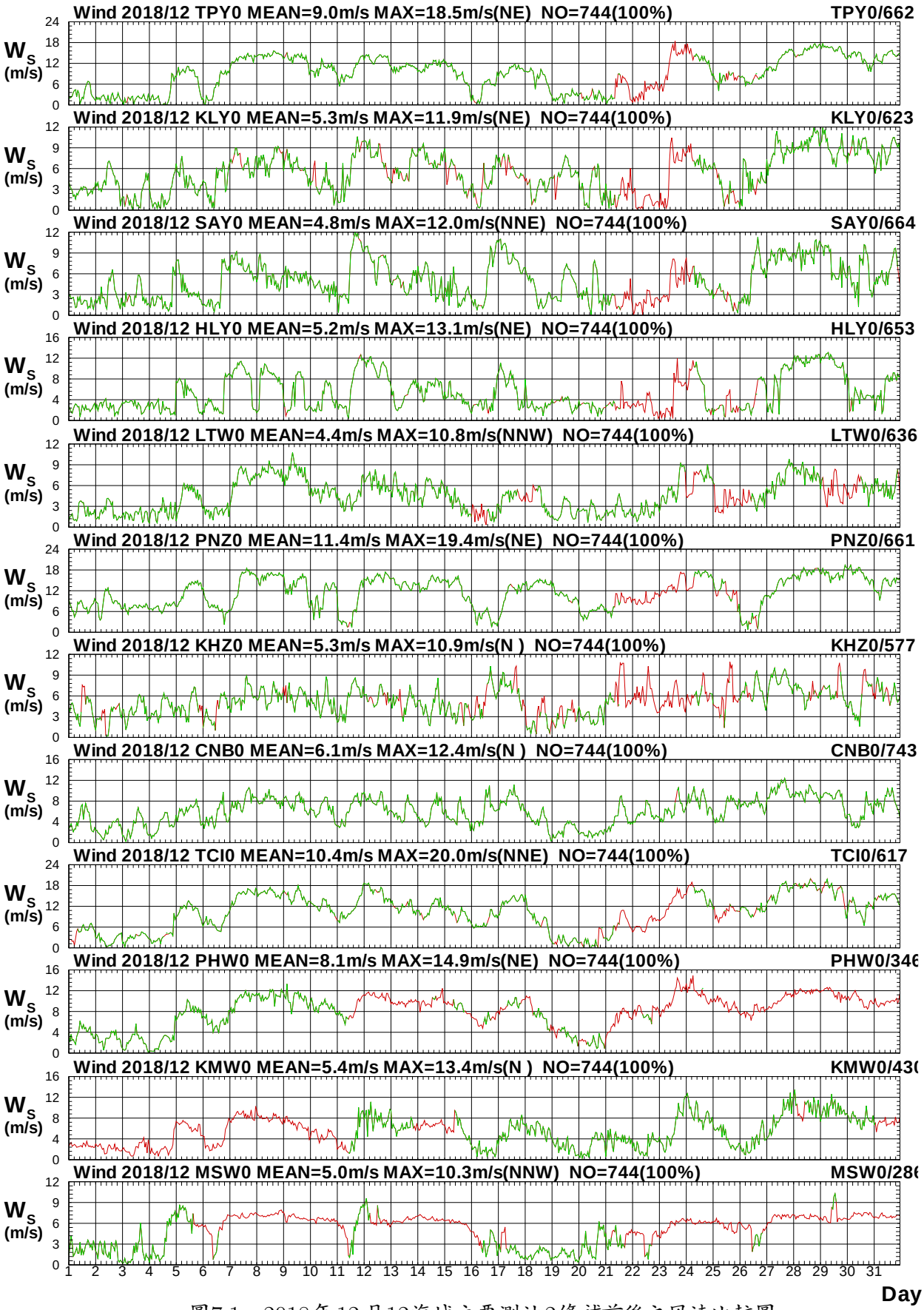

圖7.1　2018年12月12海域主要測站2修補前後之風速比較圖

W18CTPY0.1HA W18CTPY0.1H0 W18CKLY0.1HA W18CKLY0.1H0 W18CSAY0.1HA W18CSAY0.1H0
W18CHLY0.1HA W18CHLY0.1H0 W18CLTW0.1HA W18CLTW0.1H0 W18CPNZ0.1HA W18CPNZ0.1H0

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Twelve Seas Wind Direction at 2018/12

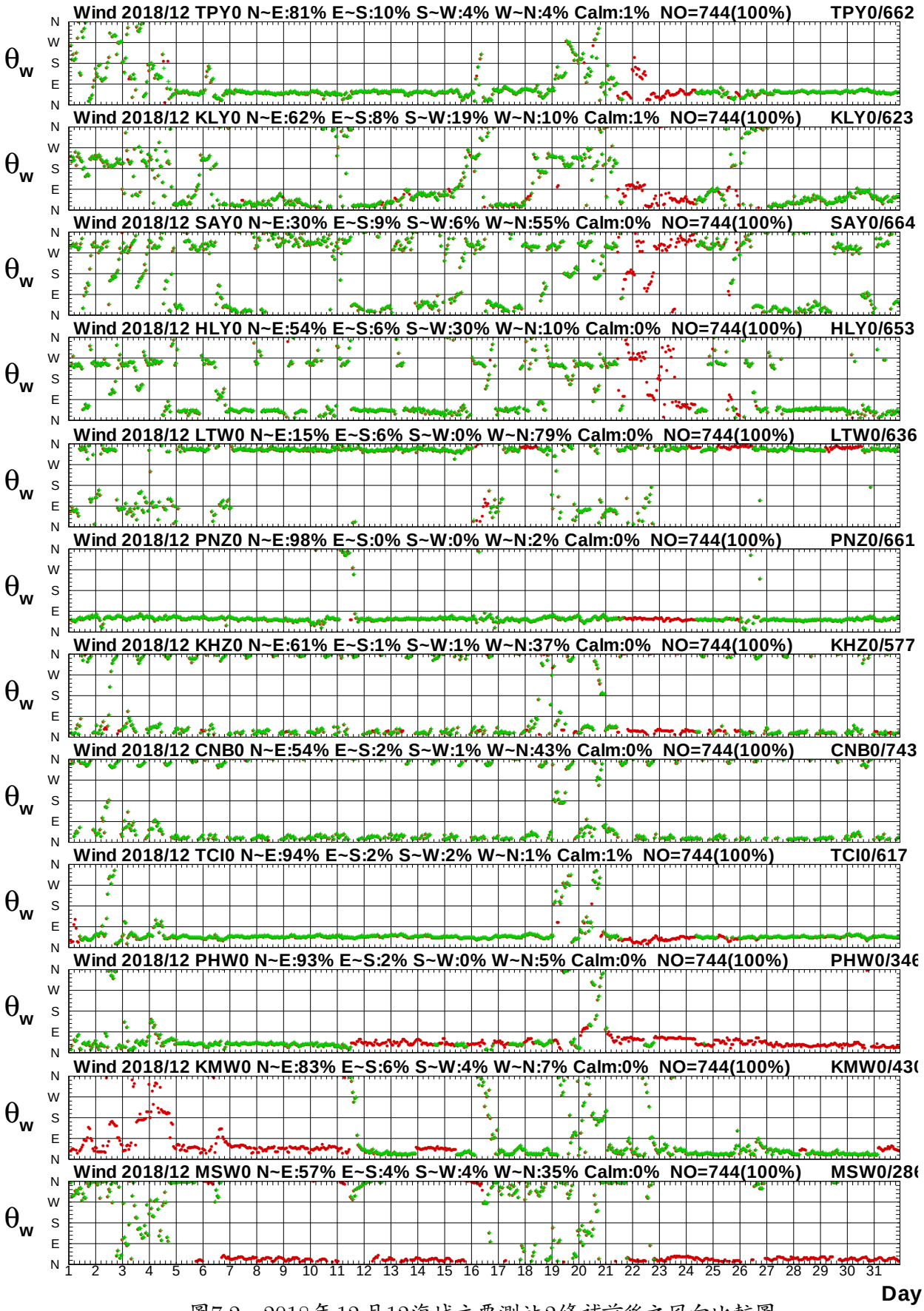

圖7.2　2018年12月12海域主要測站2修補前後之風向比較圖

W18CTPY0.1HA W18CTPY0.1H0 W18CKLY0.1HA W18CKLY0.1H0 W18CSAY0.1HA W18CSAY0.1H0
W18CHLY0.1HA W18CHLY0.1H0 W18CLTW0.1HA W18CLTW0.1H0 W18CPNZ0.1HA W18CPNZ0.1H0

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Twelve Seas E-component of Wind at 2018/12

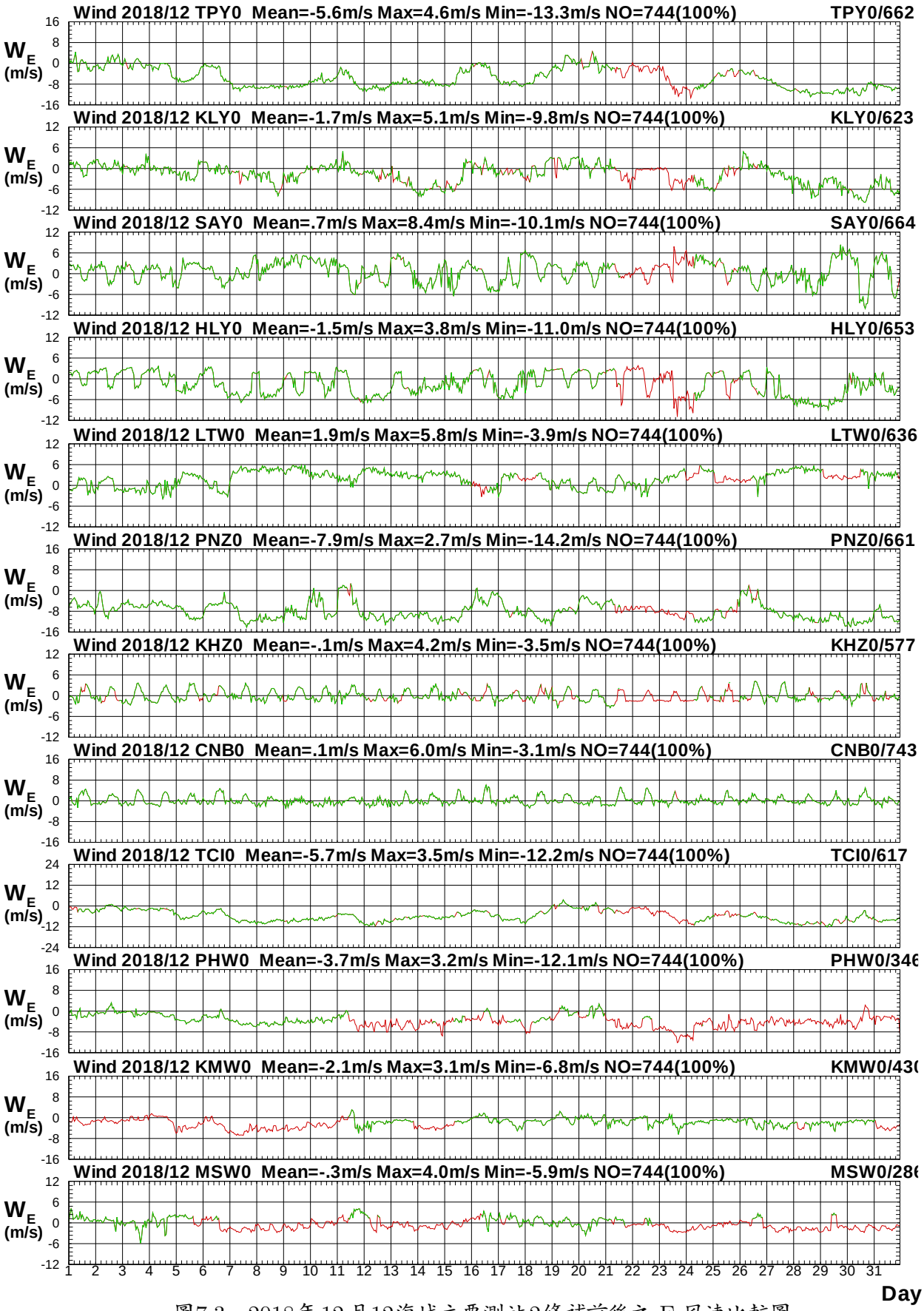

圖7.3　2018年12月12海域主要測站2修補前後之 E-風速比較圖

W18CTPY0.1HA W18CTPY0.1H0 W18CKLY0.1HA W18CKLY0.1H0 W18CSAY0.1HA W18CSAY0.1H0
W18CHLY0.1HA W18CHLY0.1H0 W18CLTW0.1HA W18CLTW0.1H0 W18CPNZ0.1HA W18CPNZ0.1H0

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Twelve Seas N-component of Wind at 2018/12

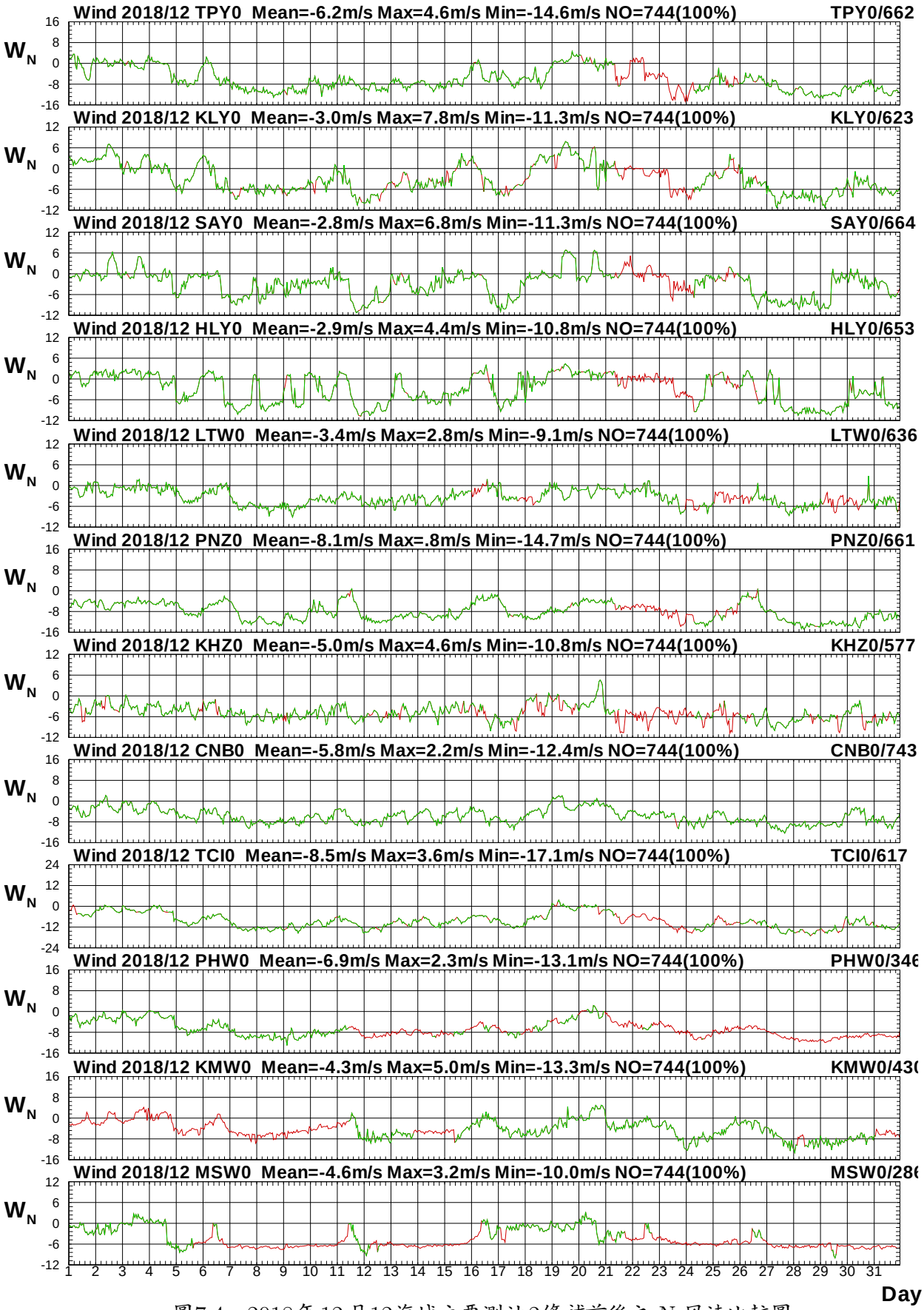

圖7.4　2018年12月12海域主要測站2修補前後之 N-風速比較圖

W18CTPY0.1HA W18CTPY0.1H0 W18CKLY0.1HA W18CKLY0.1H0 W18CSAY0.1HA W18CSAY0.1H0
W18CHLY0.1HA W18CHLY0.1H0 W18CLTW0.1HA W18CLTW0.1H0 W18CPNZ0.1HA W18CPNZ0.1H0

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Twelve Seas Wind Speed at 2019/01

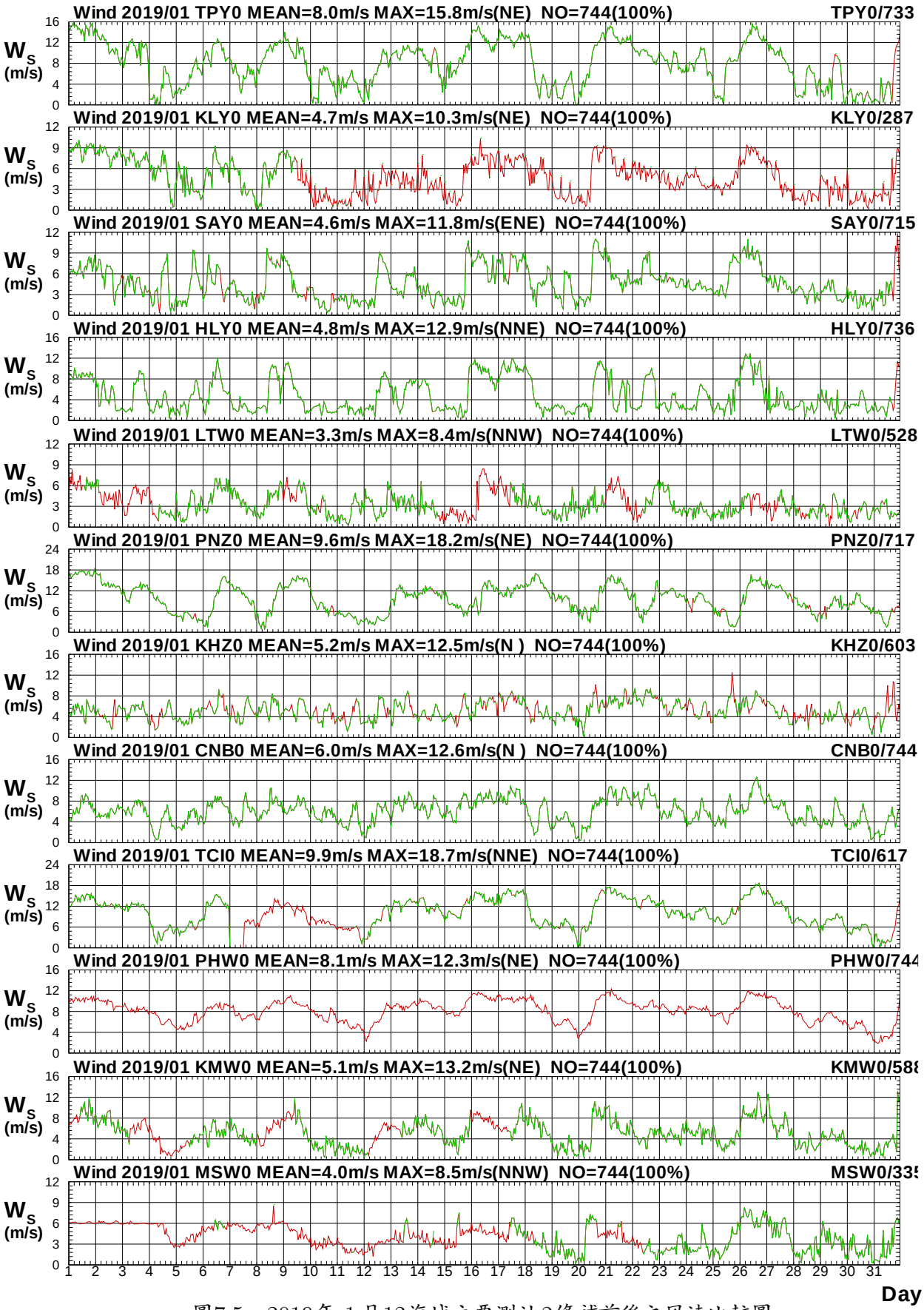

圖7.5　2019年 1月12海域主要測站2修補前後之風速比較圖

W191TPY0.1HA W191TPY0.1H0 W191KLY0.1HA W191KLY0.1H0 W191SAY0.1HA W191SAY0.1H0
W191HLY0.1HA W191HLY0.1H0 W191LTW0.1HA W191LTW0.1H0 W191PNZ0.1HA W191PNZ0.1H0

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Twelve Seas Wind Direction at 2019/01

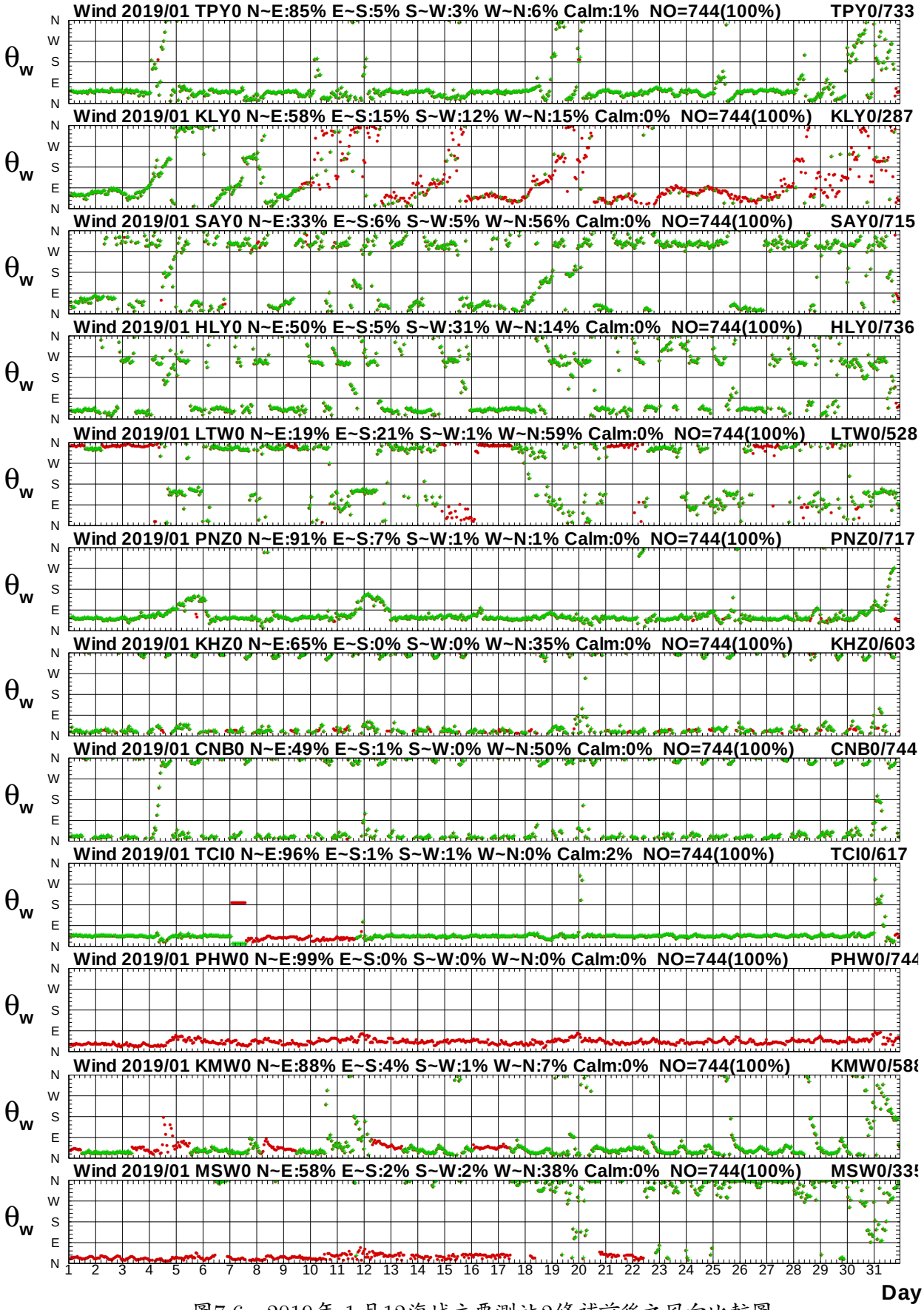

圖7.6　2019年 1月12海域主要測站2修補前後之風向比較圖

W191TPY0.1HA W191TPY0.1H0 W191KLY0.1HA W191KLY0.1H0 W191SAY0.1HA W191SAY0.1H0
W191HLY0.1HA W191HLY0.1H0 W191LTW0.1HA W191LTW0.1H0 W191PNZ0.1HA W191PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/01

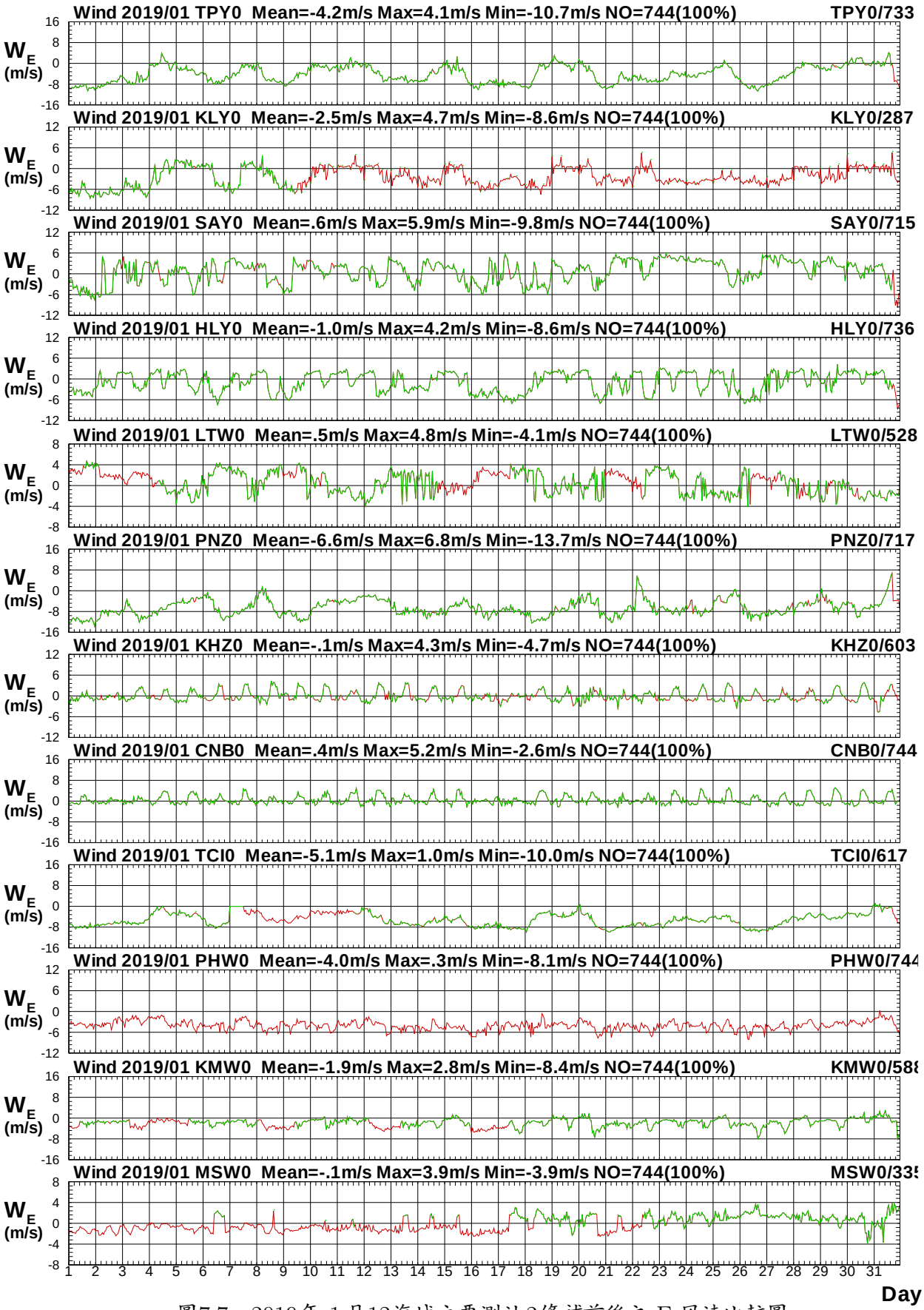

圖7.7　2019年 1月12海域主要測站2修補前後之 E-風速比較圖

W191TPY0.1HA W191TPY0.1H0 W191KLY0.1HA W191KLY0.1H0 W191SAY0.1HA W191SAY0.1H0
W191HLY0.1HA W191HLY0.1H0 W191LTW0.1HA W191LTW0.1H0 W191PNZ0.1HA W191PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/01

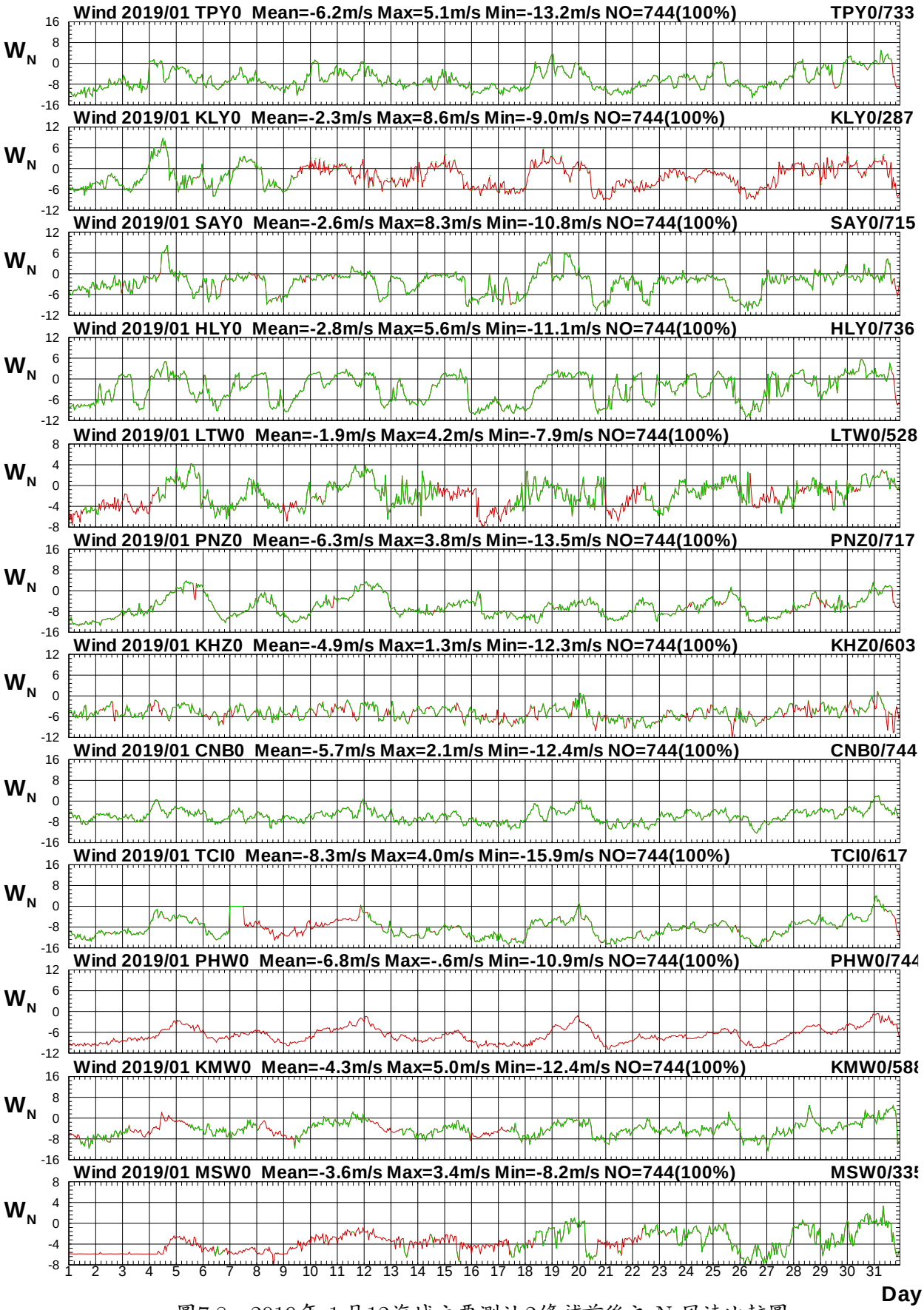

圖7.8　2019年 1月12海域主要測站2修補前後之 N-風速比較圖

W191TPY0.1HA W191TPY0.1H0 W191KLY0.1HA W191KLY0.1H0 W191SAY0.1HA W191SAY0.1H0
W191HLY0.1HA W191HLY0.1H0 W191LTW0.1HA W191LTW0.1H0 W191PNZ0.1HA W191PNZ0.1H0

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Twelve Seas Wind Speed at 2019/02

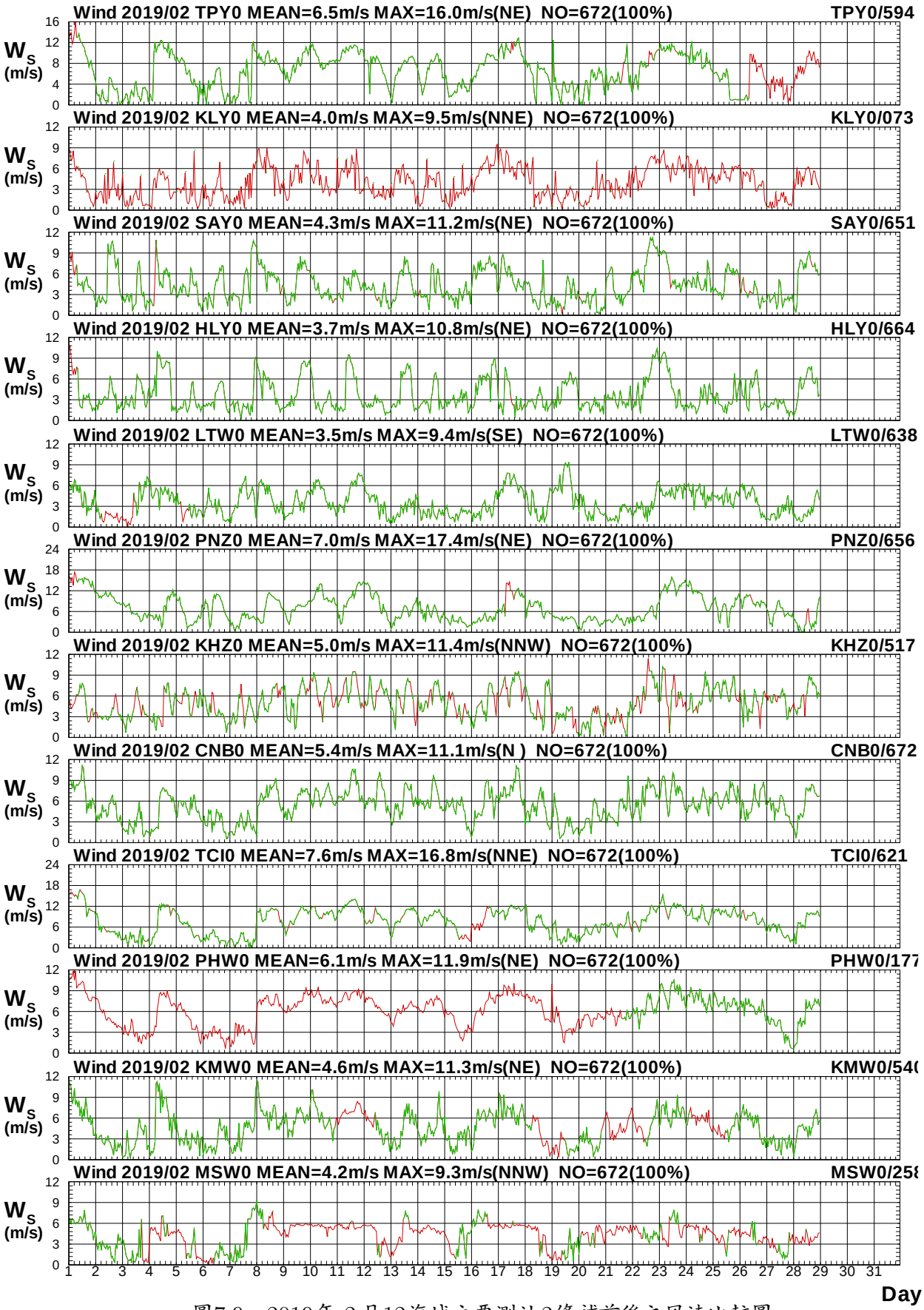

圖7.9　2019年 2月12海域主要測站2修補前後之風速比較圖

W192TPY0.1HA W192TPY0.1H0 W192KLY0.1HA W192KLY0.1H0 W192SAY0.1HA W192SAY0.1H0
W192HLY0.1HA W192HLY0.1H0 W192LTW0.1HA W192LTW0.1H0 W192PNZ0.1HA W192PNZ0.1H0

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Twelve Seas Wind Direction at 2019/02

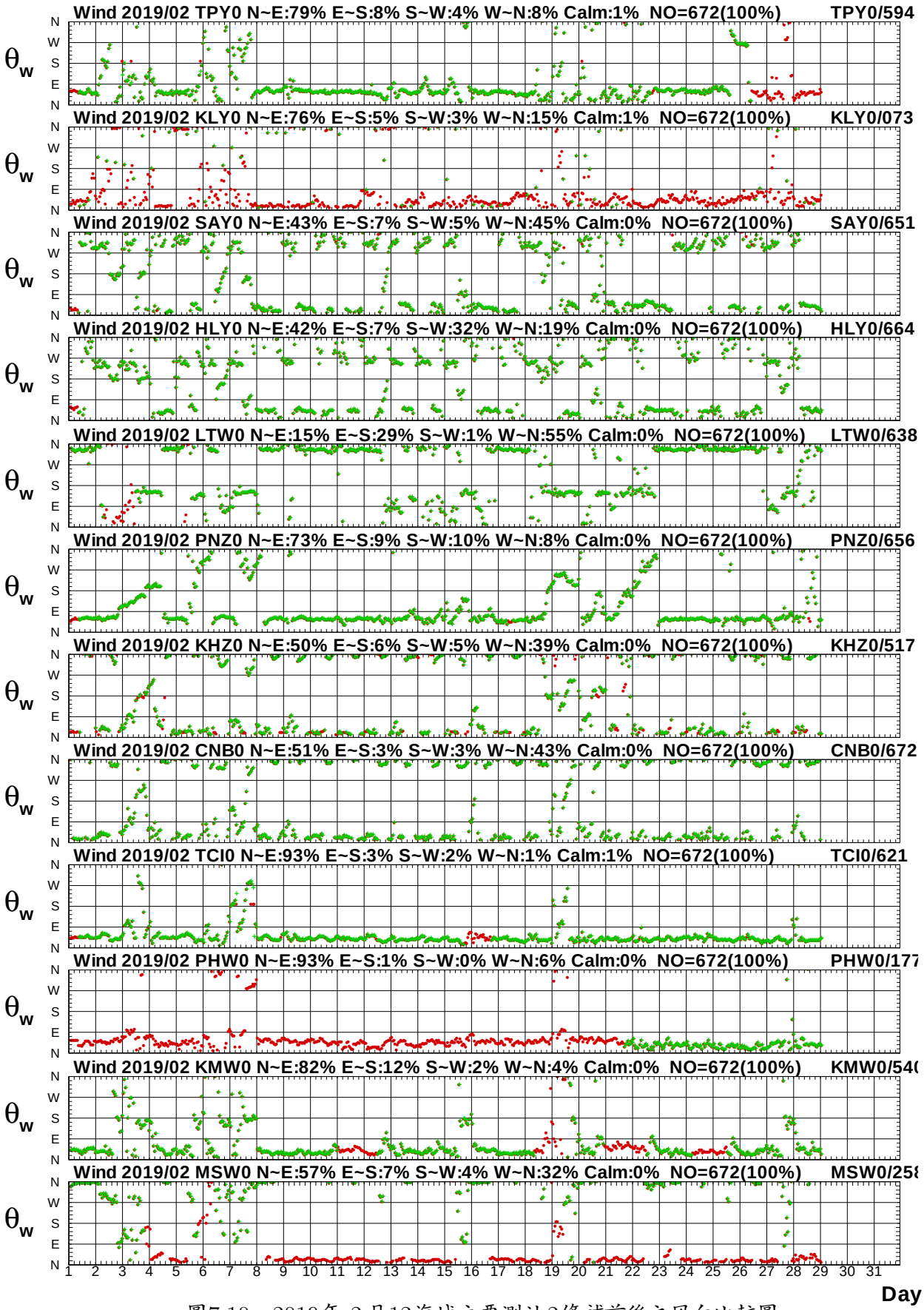

圖7.10　2019年 2月12海域主要測站2修補前後之風向比較圖

W192TPY0.1HA W192TPY0.1H0 W192KLY0.1HA W192KLY0.1H0 W192SAY0.1HA W192SAY0.1H0
W192HLY0.1HA W192HLY0.1H0 W192LTW0.1HA W192LTW0.1H0 W192PNZ0.1HA W192PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/02

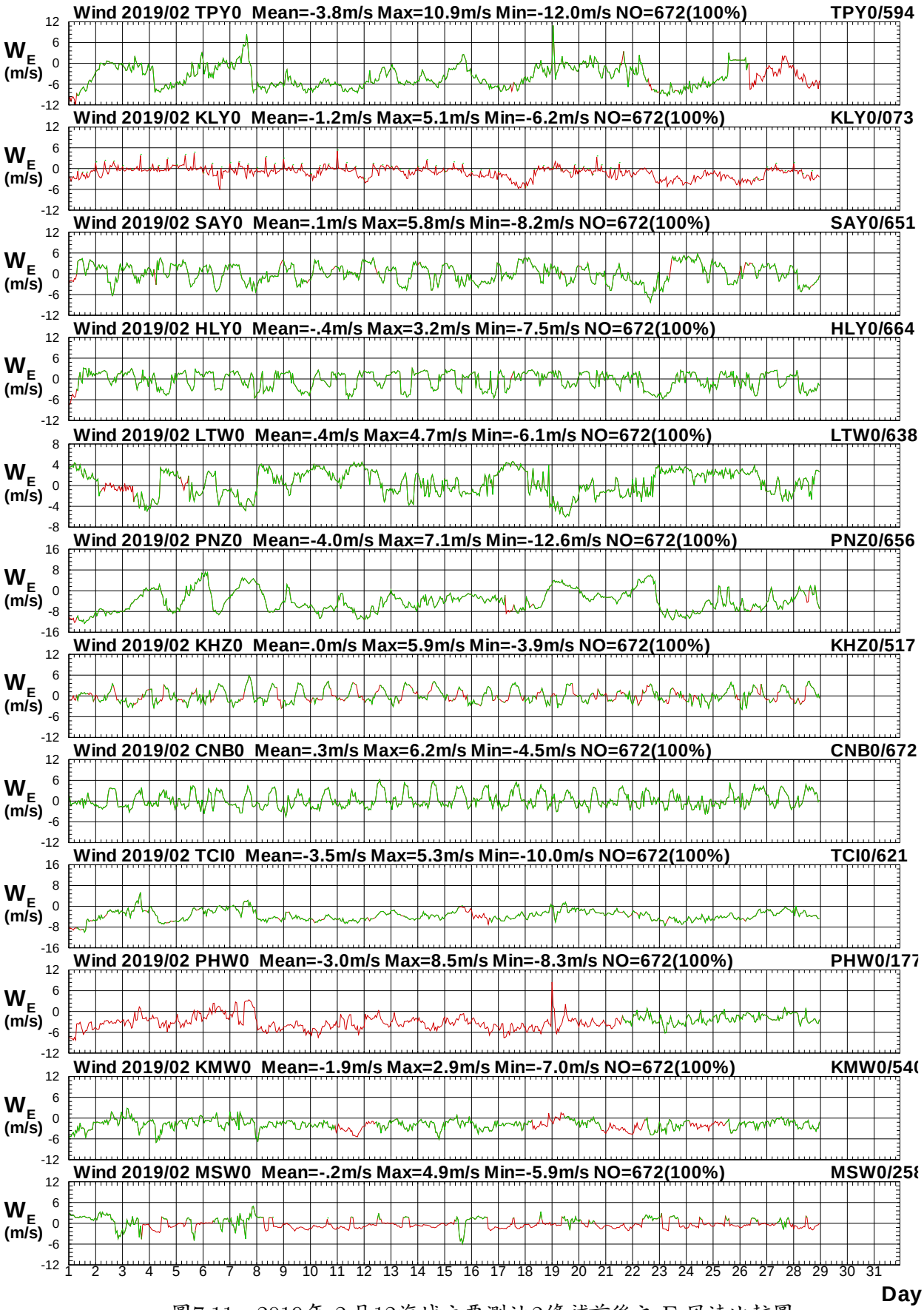

圖7.11　2019年 2月12海域主要測站2修補前後之 E-風速比較圖

W192TPY0.1HA W192TPY0.1H0 W192KLY0.1HA W192KLY0.1H0 W192SAY0.1HA W192SAY0.1H0
W192HLY0.1HA W192HLY0.1H0 W192LTW0.1HA W192LTW0.1H0 W192PNZ0.1HA W192PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/02

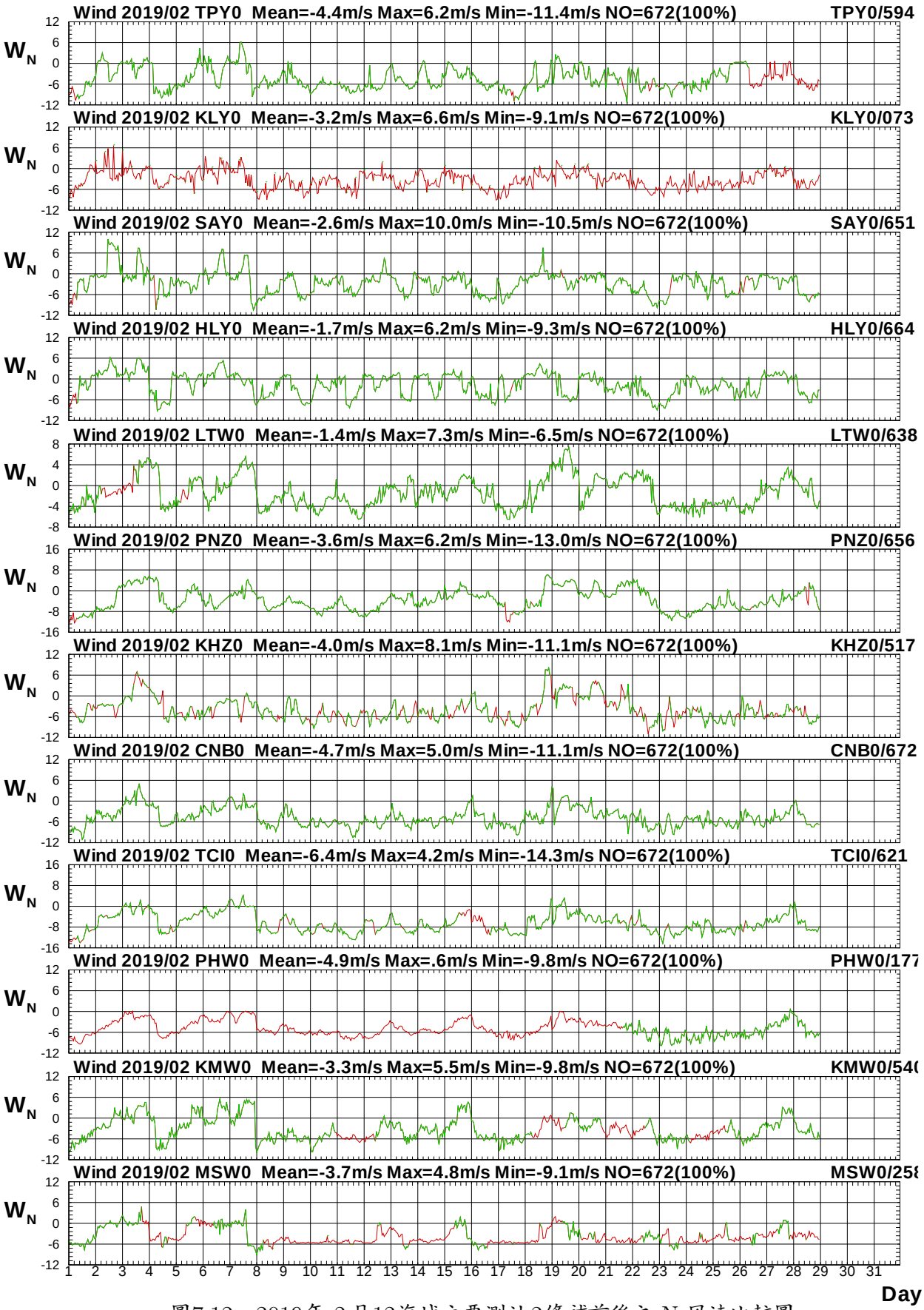

圖7.12　2019年 2月12海域主要測站2修補前後之 N-風速比較圖

W192TPY0.1HA W192TPY0.1H0 W192KLY0.1HA W192KLY0.1H0 W192SAY0.1HA W192SAY0.1H0
W192HLY0.1HA W192HLY0.1H0 W192LTW0.1HA W192LTW0.1H0 W192PNZ0.1HA W192PNZ0.1H0

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Twelve Seas Wind Speed at 2019/03

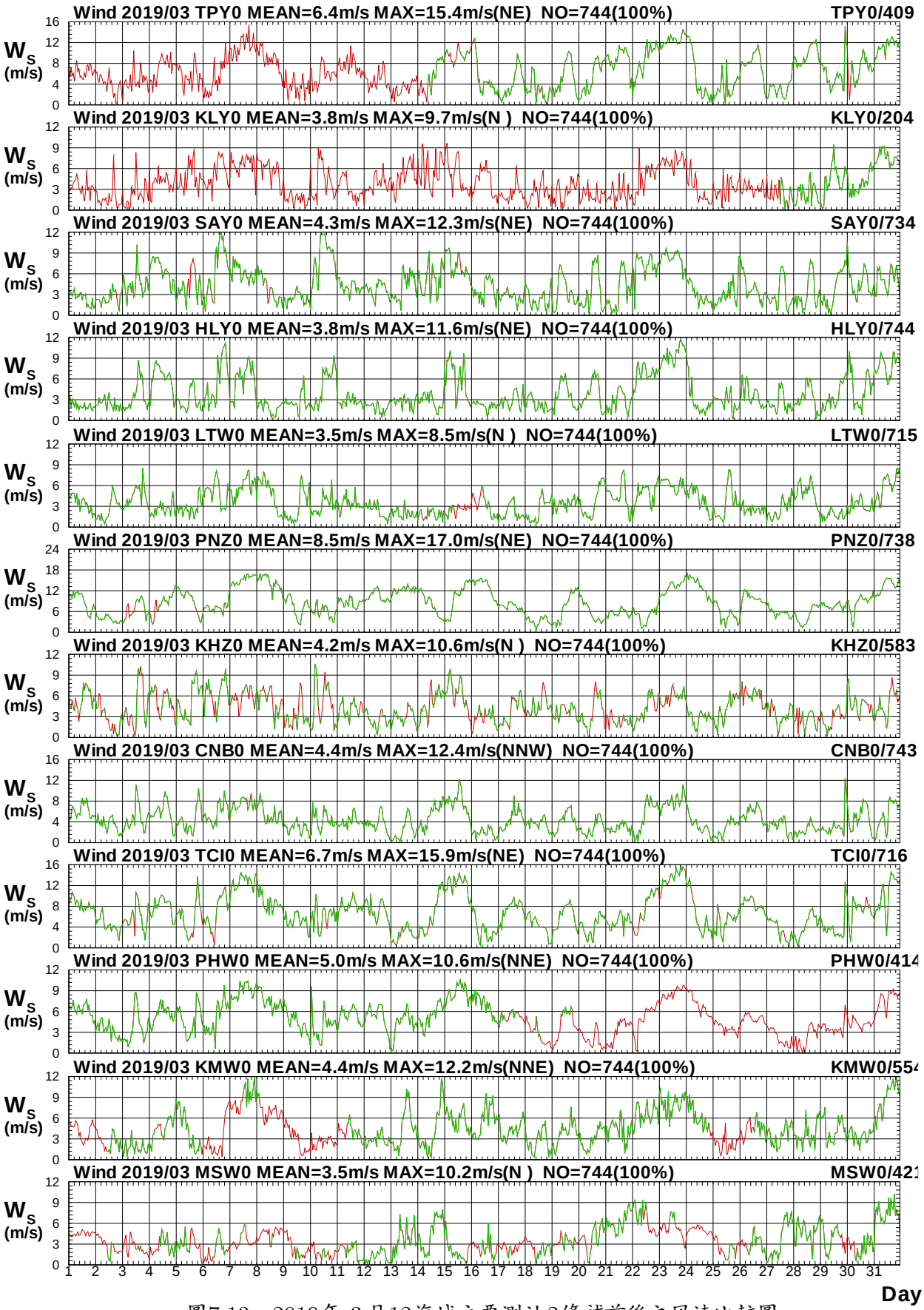

圖7.13　2019年 3月12海域主要測站2修補前後之風速比較圖

W193TPY0.1HA W193TPY0.1H0 W193KLY0.1HA W193KLY0.1H0 W193SAY0.1HA W193SAY0.1H0
W193HLY0.1HA W193HLY0.1H0 W193LTW0.1HA W193LTW0.1H0 W193PNZ0.1HA W193PNZ0.1H0

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Twelve Seas Wind Direction at 2019/03

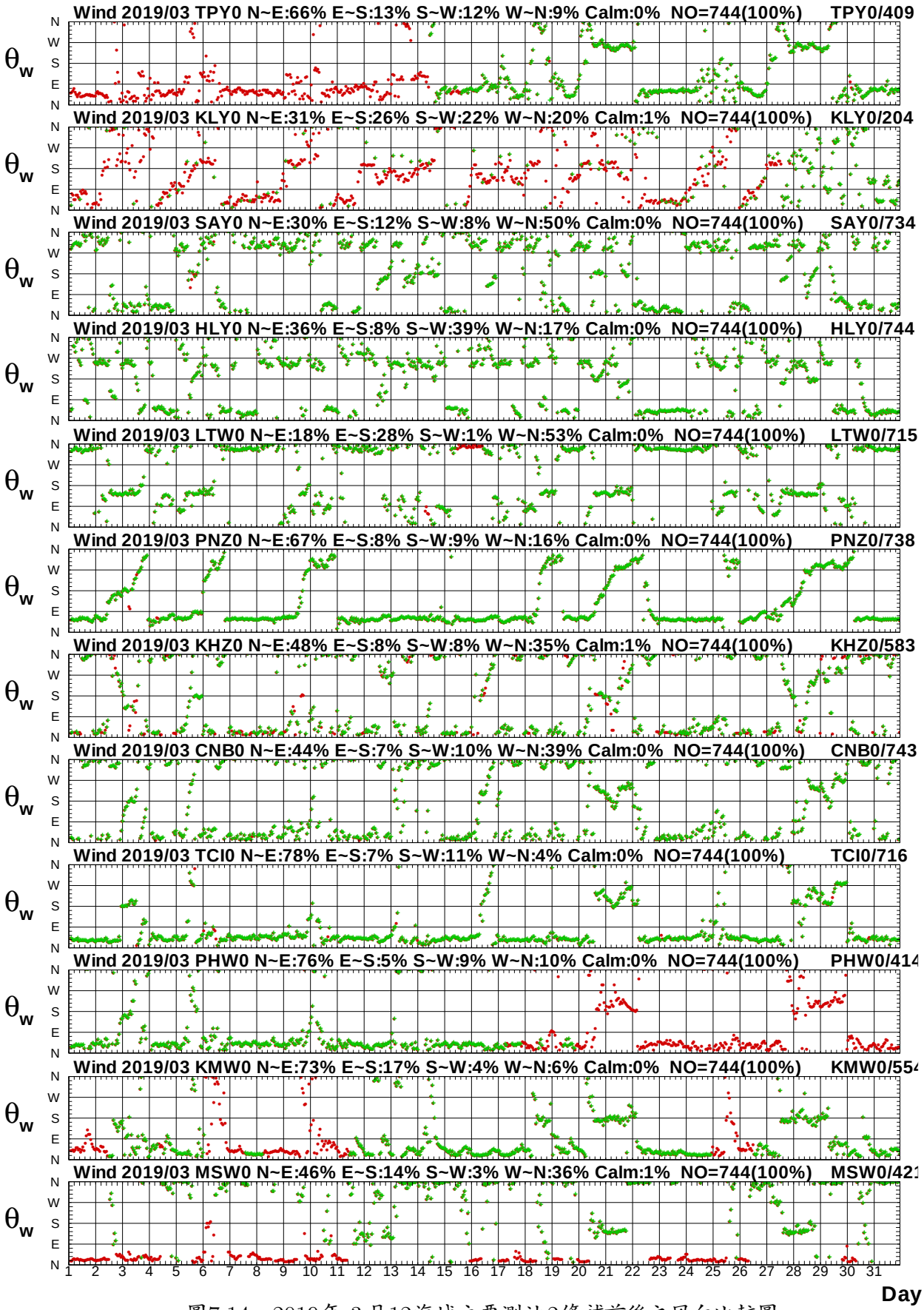

圖7.14　2019年 3月12海域主要測站2修補前後之風向比較圖

W193TPY0.1HA W193TPY0.1H0 W193KLY0.1HA W193KLY0.1H0 W193SAY0.1HA W193SAY0.1H0
W193HLY0.1HA W193HLY0.1H0 W193LTW0.1HA W193LTW0.1H0 W193PNZ0.1HA W193PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/03

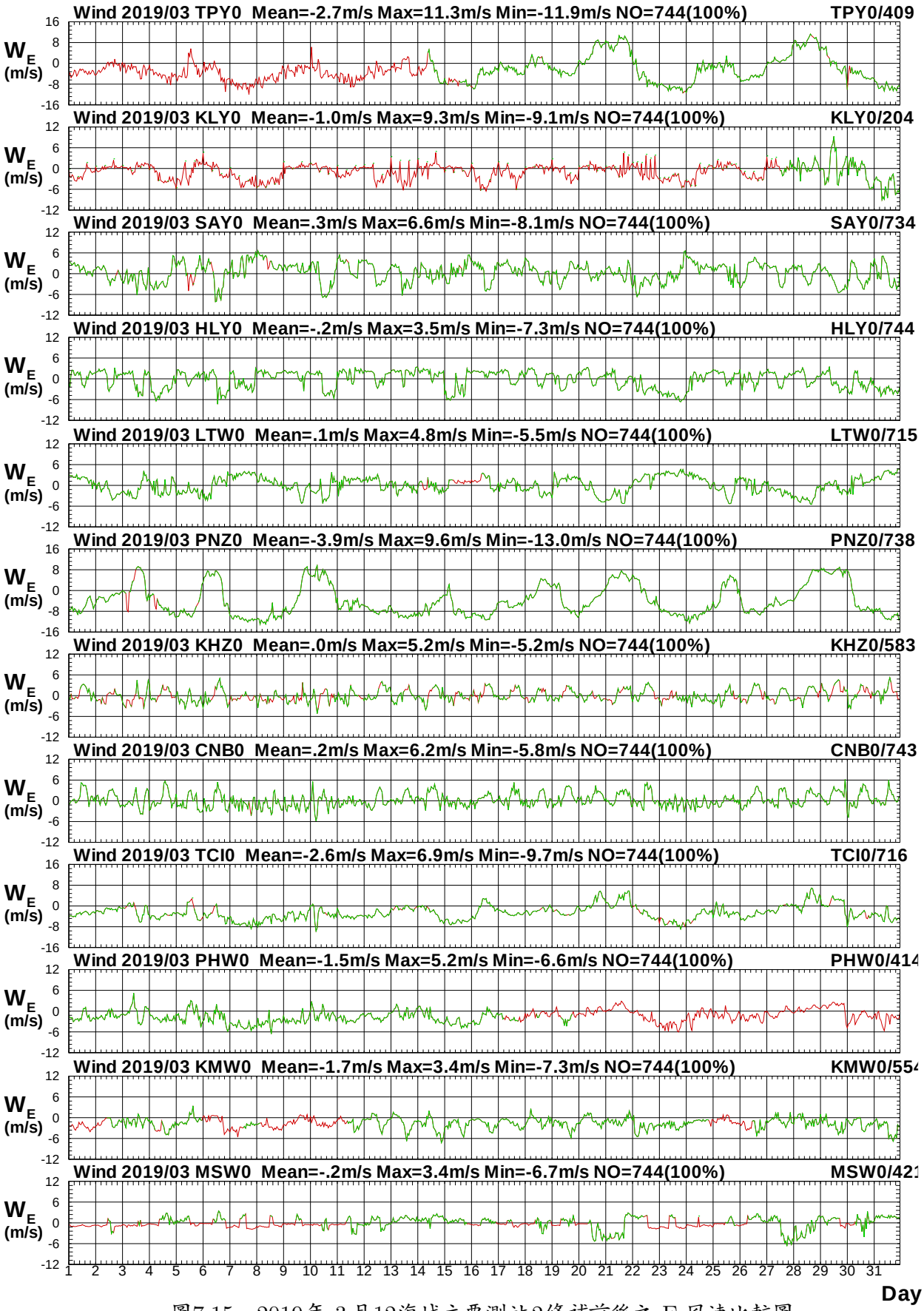

圖7.15　2019年 3月12海域主要測站2修補前後之 E-風速比較圖

W193TPY0.1HA W193TPY0.1H0 W193KLY0.1HA W193KLY0.1H0 W193SAY0.1HA W193SAY0.1H0
W193HLY0.1HA W193HLY0.1H0 W193LTW0.1HA W193LTW0.1H0 W193PNZ0.1HA W193PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/03

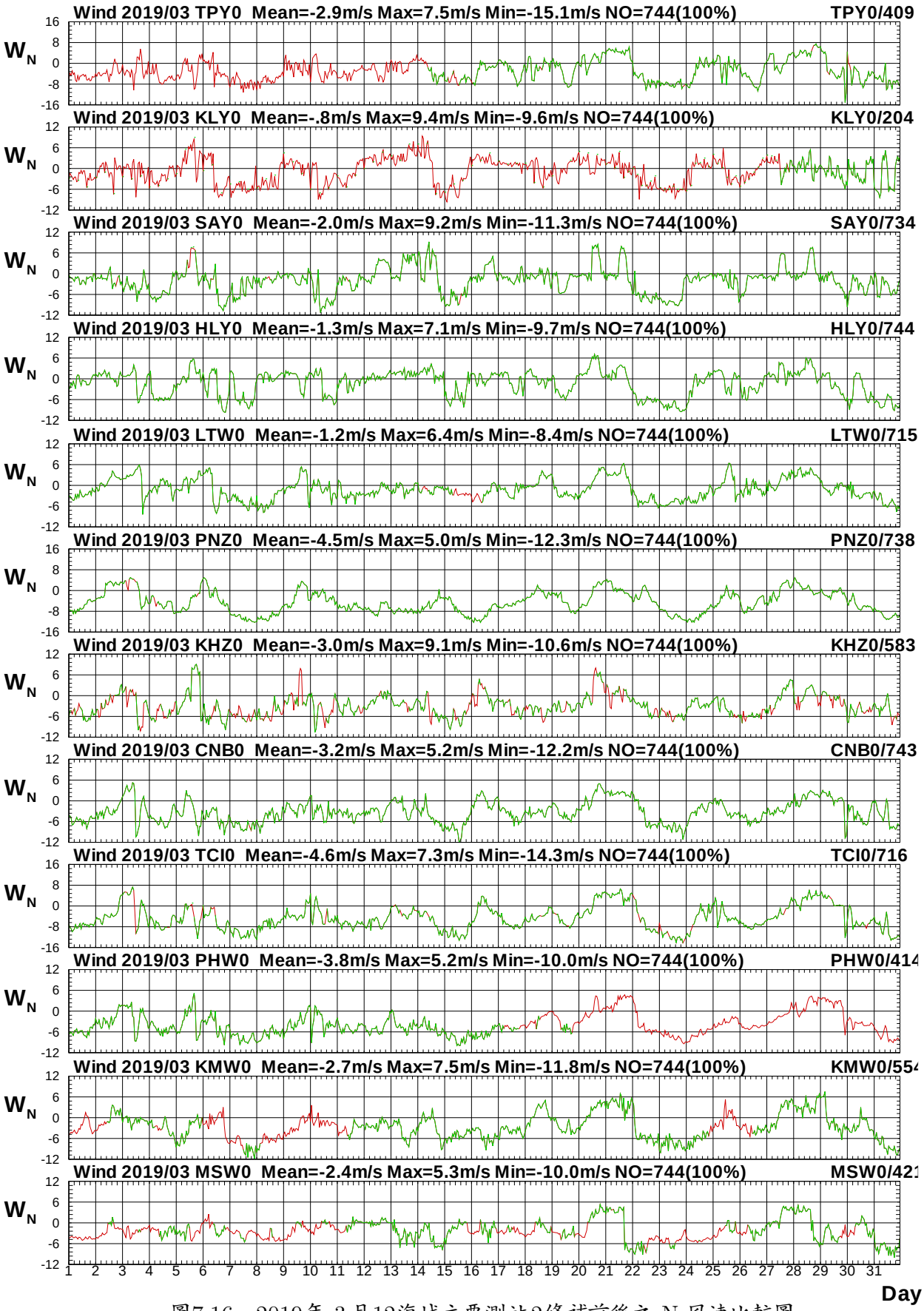

圖7.16　2019年 3月12海域主要測站2修補前後之 N-風速比較圖

W193TPY0.1HA W193TPY0.1H0 W193KLY0.1HA W193KLY0.1H0 W193SAY0.1HA W193SAY0.1H0
W193HLY0.1HA W193HLY0.1H0 W193LTW0.1HA W193LTW0.1H0 W193PNZ0.1HA W193PNZ0.1H0

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Twelve Seas Wind Speed at 2019/04

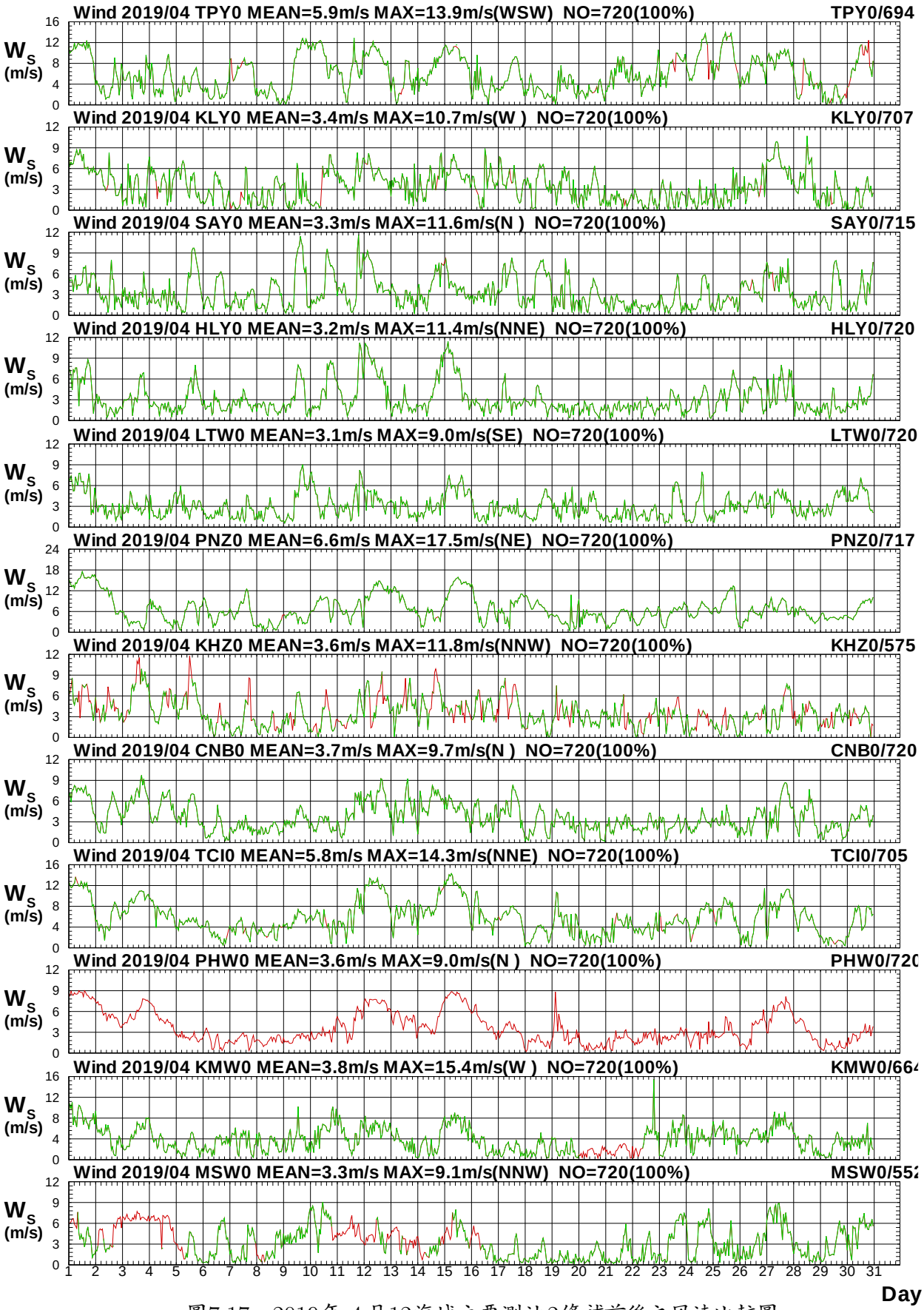

圖7.17　2019年 4月12海域主要測站2修補前後之風速比較圖

W194TPY0.1HA W194TPY0.1H0 W194KLY0.1HA W194KLY0.1H0 W194SAY0.1HA W194SAY0.1H0
W194HLY0.1HA W194HLY0.1H0 W194LTW0.1HA W194LTW0.1H0 W194PNZ0.1HA W194PNZ0.1H0

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Twelve Seas Wind Direction at 2019/04

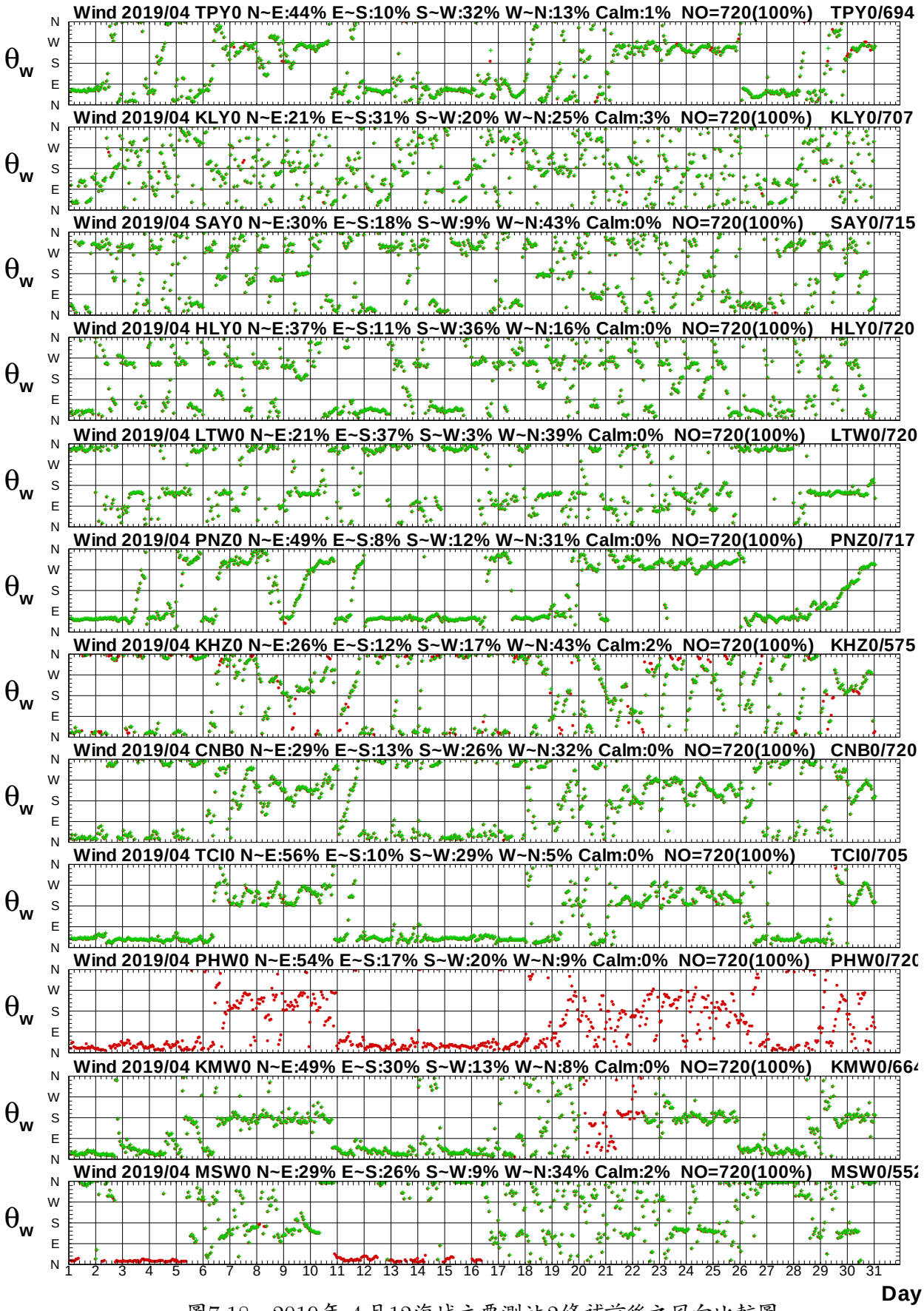

圖7.18　2019年 4月12海域主要測站2修補前後之風向比較圖

W194TPY0.1HA W194TPY0.1H0 W194KLY0.1HA W194KLY0.1H0 W194SAY0.1HA W194SAY0.1H0
W194HLY0.1HA W194HLY0.1H0 W194LTW0.1HA W194LTW0.1H0 W194PNZ0.1HA W194PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/04

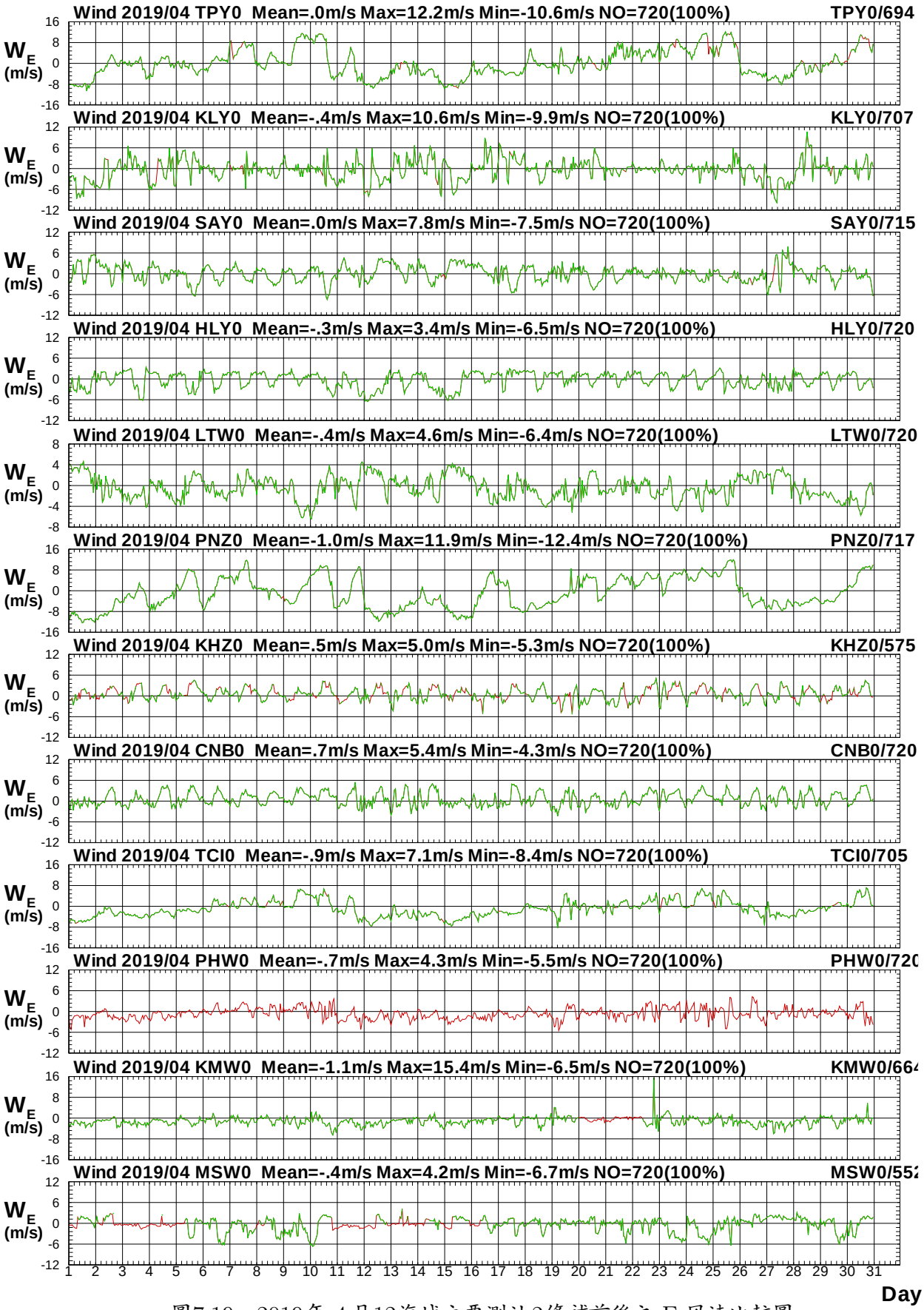

圖7.19　2019年 4月12海域主要測站2修補前後之 E-風速比較圖

W194TPY0.1HA W194TPY0.1H0 W194KLY0.1HA W194KLY0.1H0 W194SAY0.1HA W194SAY0.1H0
W194HLY0.1HA W194HLY0.1H0 W194LTW0.1HA W194LTW0.1H0 W194PNZ0.1HA W194PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/04

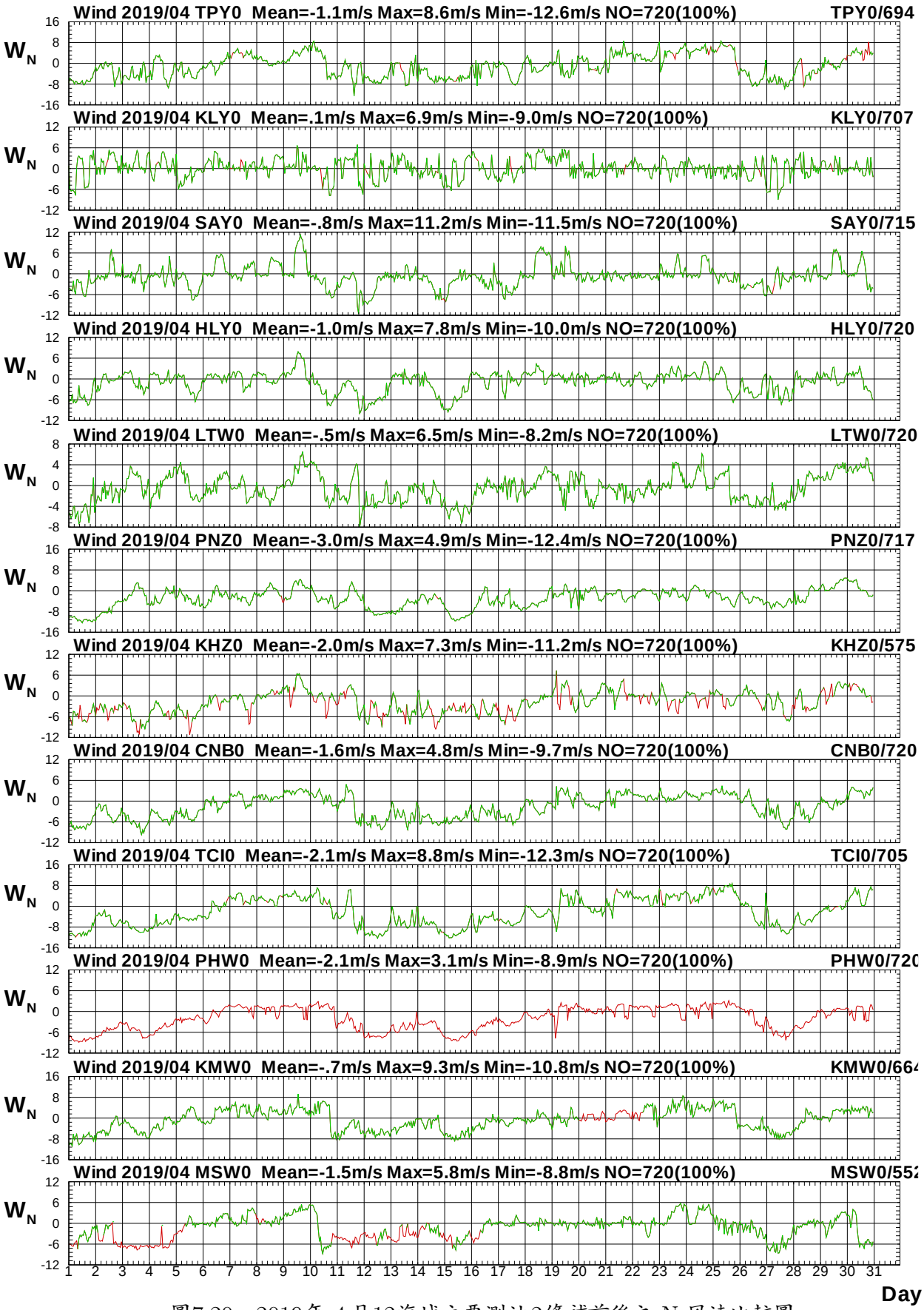

圖7.20　2019年 4 月12海域主要測站2修補前後之 N-風速比較圖

W194TPY0.1HA W194TPY0.1H0 W194KLY0.1HA W194KLY0.1H0 W194SAY0.1HA W194SAY0.1H0
W194HLY0.1HA W194HLY0.1H0 W194LTW0.1HA W194LTW0.1H0 W194PNZ0.1HA W194PNZ0.1H0

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Twelve Seas Wind Speed at 2019/05

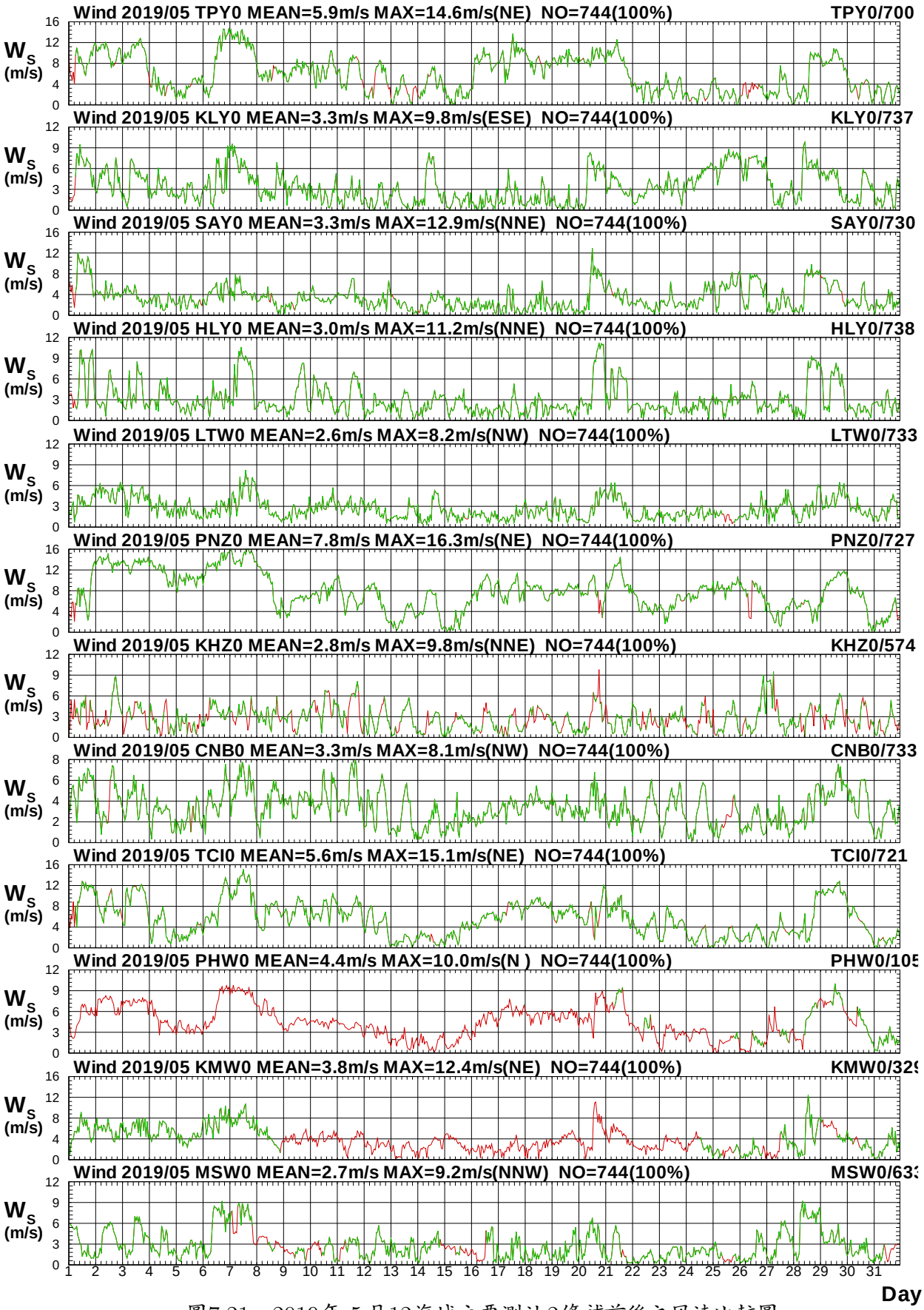

圖7.21　2019年 5月12海域主要測站2修補前後之風速比較圖

W195TPY0.1HA W195TPY0.1H0 W195KLY0.1HA W195KLY0.1H0 W195SAY0.1HA W195SAY0.1H0
W195HLY0.1HA W195HLY0.1H0 W195LTW0.1HA W195LTW0.1H0 W195PNZ0.1HA W195PNZ0.1H0

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Twelve Seas Wind Direction at 2019/05

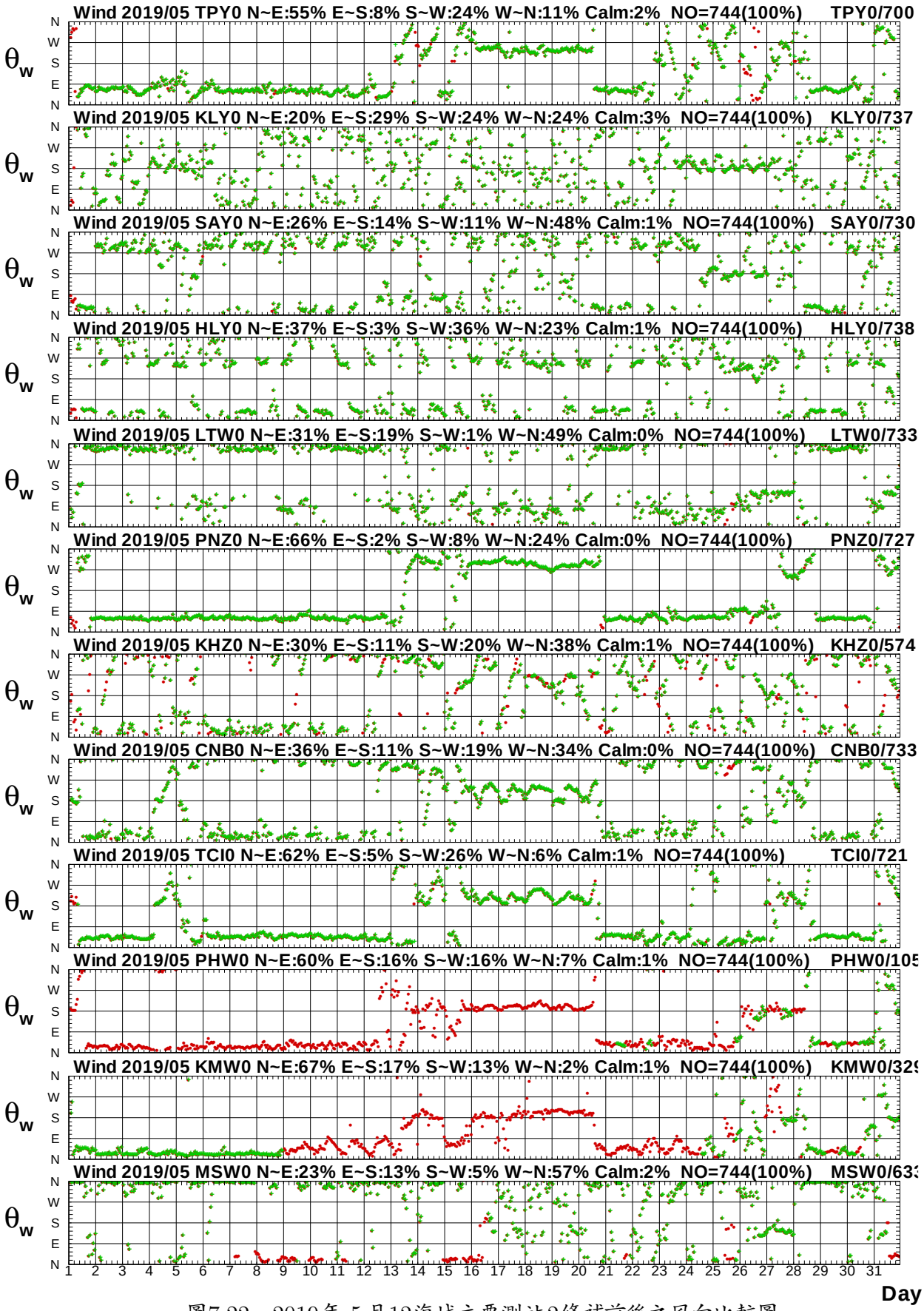

圖7.22　2019年 5月12海域主要測站2修補前後之風向比較圖

W195TPY0.1HA W195TPY0.1H0 W195KLY0.1HA W195KLY0.1H0 W195SAY0.1HA W195SAY0.1H0
W195HLY0.1HA W195HLY0.1H0 W195LTW0.1HA W195LTW0.1H0 W195PNZ0.1HA W195PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/05

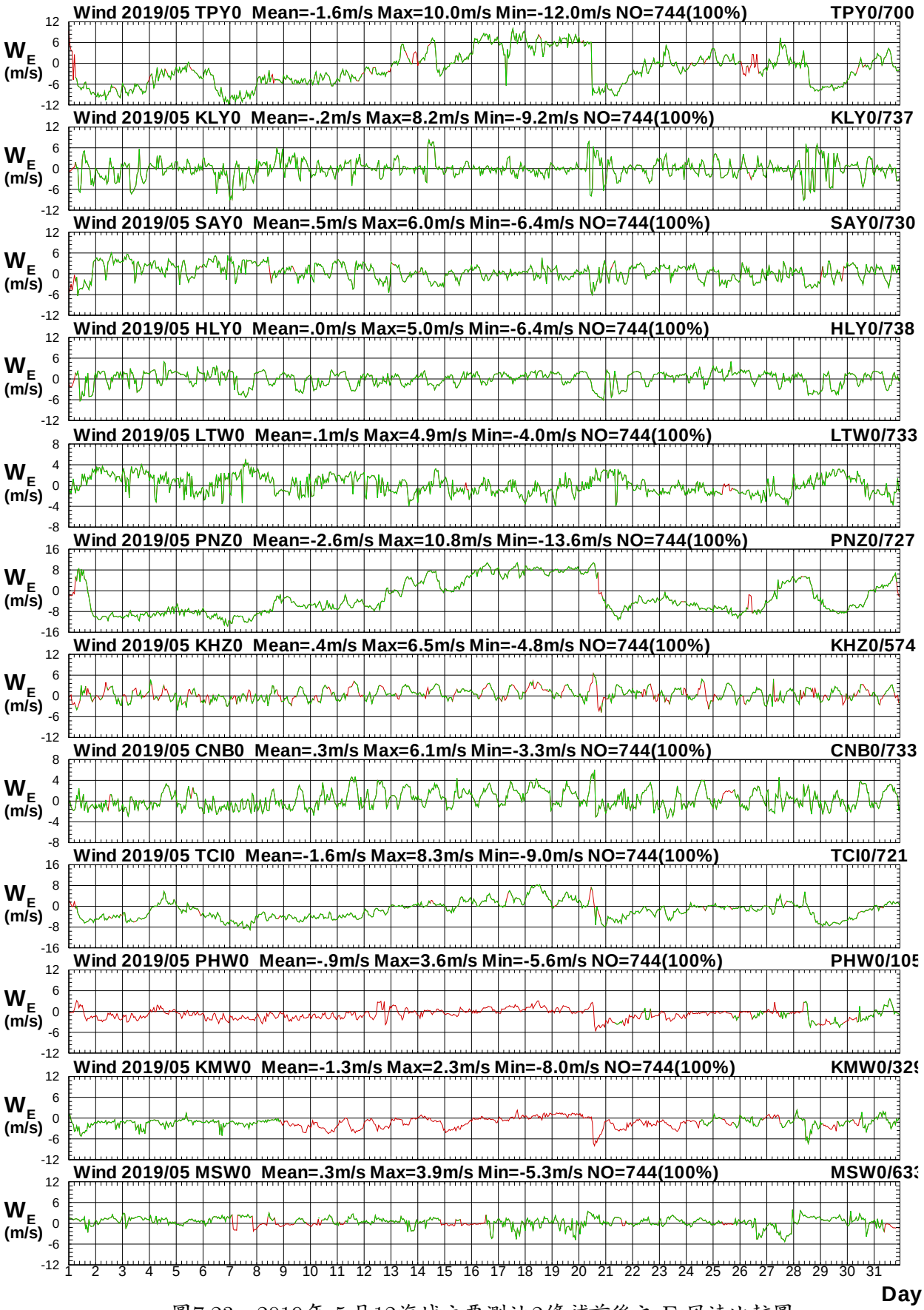

圖7.23　2019年 5月12海域主要測站2修補前後之 E-風速比較圖

W195TPY0.1HA W195TPY0.1H0 W195KLY0.1HA W195KLY0.1H0 W195SAY0.1HA W195SAY0.1H0
W195HLY0.1HA W195HLY0.1H0 W195LTW0.1HA W195LTW0.1H0 W195PNZ0.1HA W195PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/05

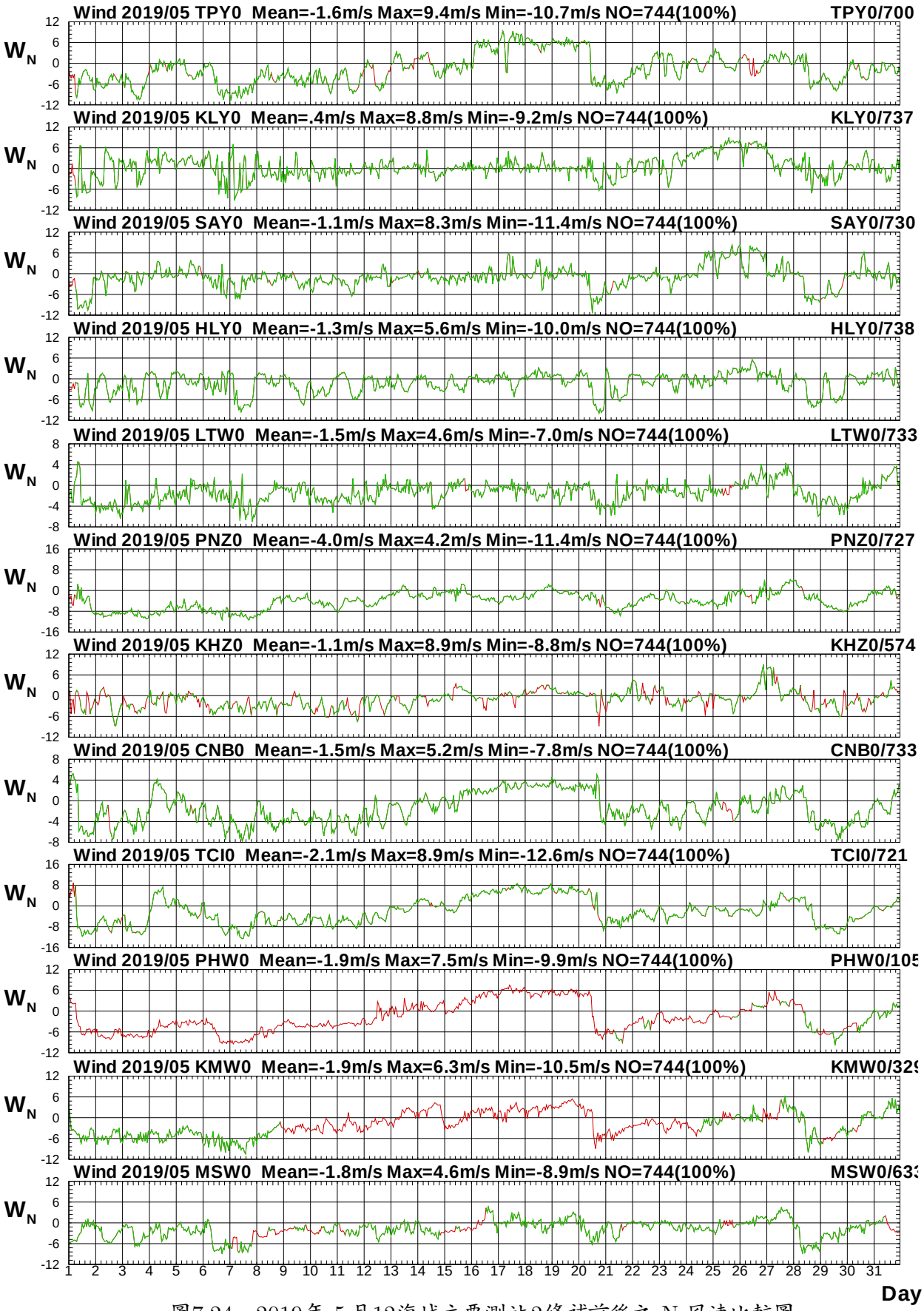

圖7.24　2019年 5月12海域主要測站2修補前後之 N-風速比較圖

W195TPY0.1HA W195TPY0.1H0 W195KLY0.1HA W195KLY0.1H0 W195SAY0.1HA W195SAY0.1H0
W195HLY0.1HA W195HLY0.1H0 W195LTW0.1HA W195LTW0.1H0 W195PNZ0.1HA W195PNZ0.1H0

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Twelve Seas Wind Speed at 2019/06

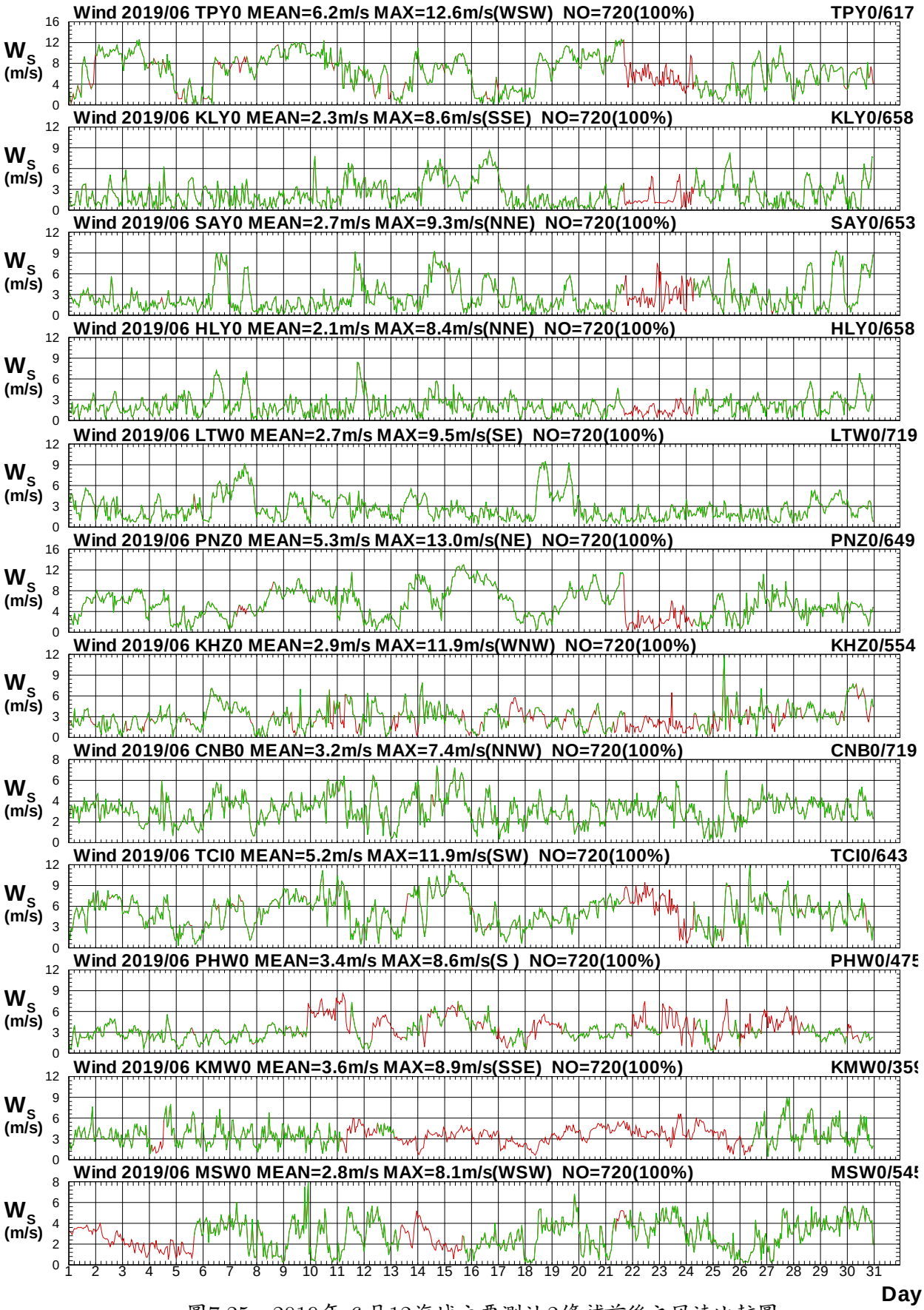

圖7.25　2019年 6月12海域主要測站2修補前後之風速比較圖

W196TPY0.1HA W196TPY0.1H0 W196KLY0.1HA W196KLY0.1H0 W196SAY0.1HA W196SAY0.1H0
W196HLY0.1HA W196HLY0.1H0 W196LTW0.1HA W196LTW0.1H0 W196PNZ0.1HA W196PNZ0.1H0

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Twelve Seas Wind Direction at 2019/06

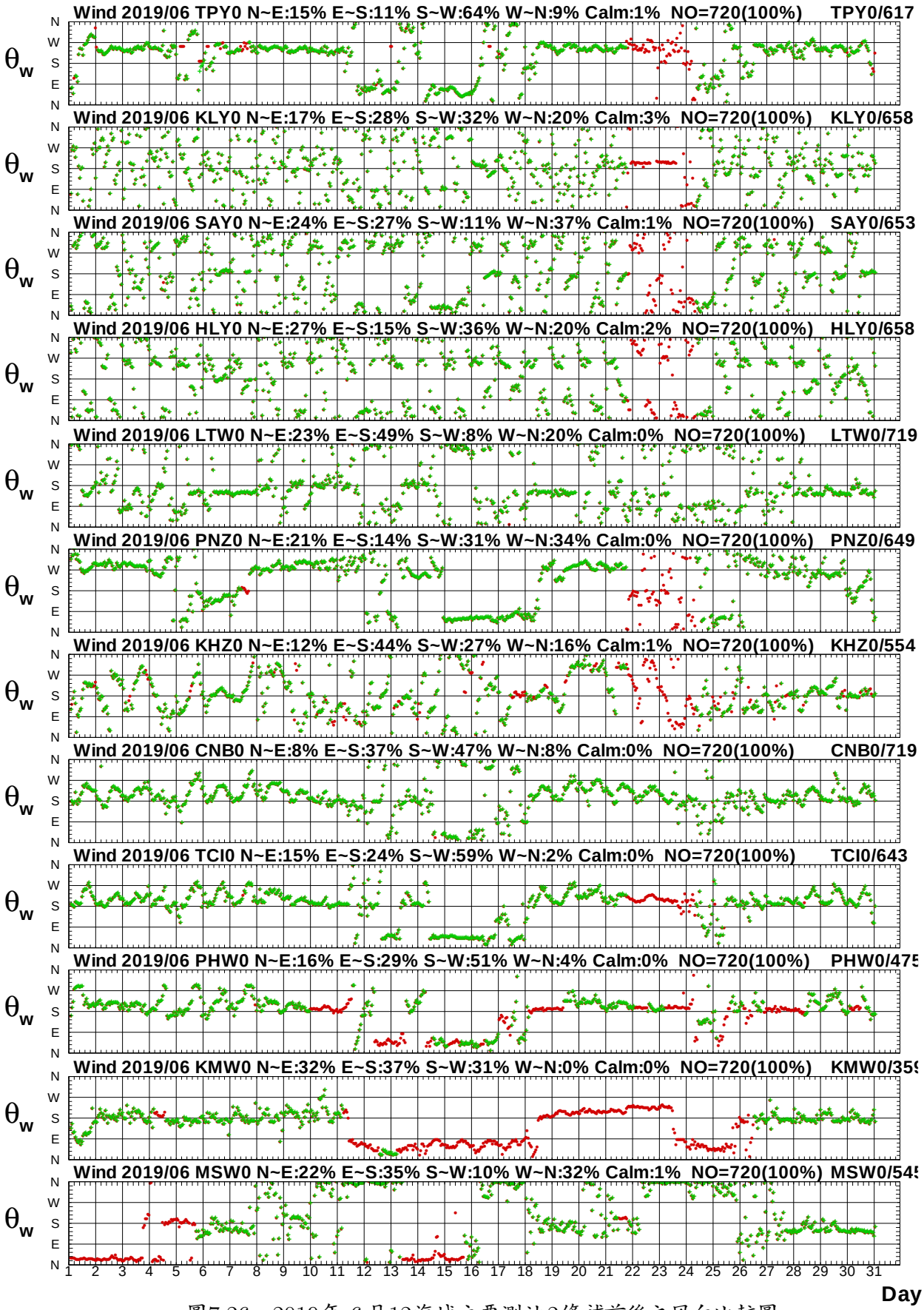

圖7.26　2019年 6月12海域主要測站2修補前後之風向比較圖

W196TPY0.1HA W196TPY0.1H0 W196KLY0.1HA W196KLY0.1H0 W196SAY0.1HA W196SAY0.1H0
W196HLY0.1HA W196HLY0.1H0 W196LTW0.1HA W196LTW0.1H0 W196PNZ0.1HA W196PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/06

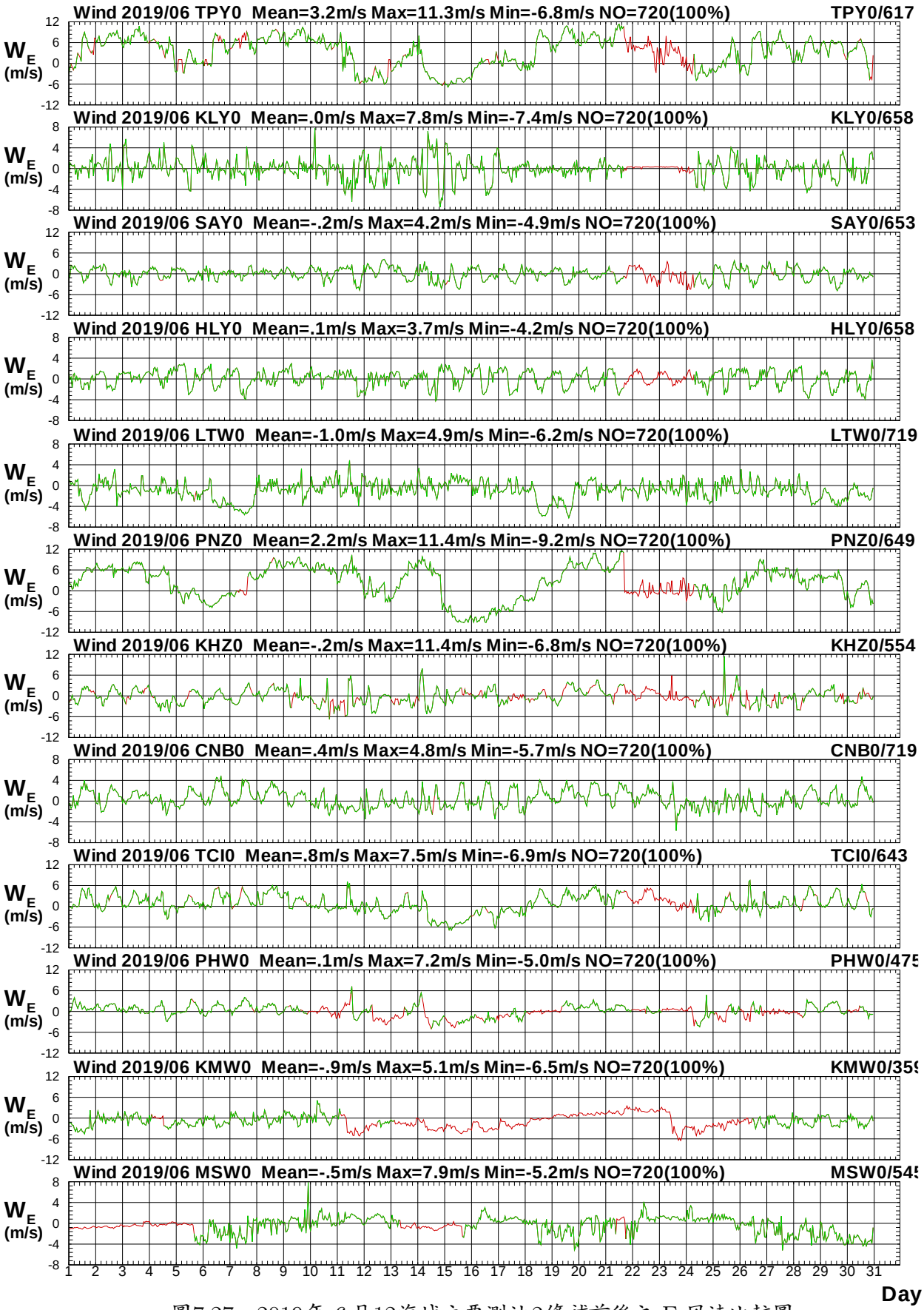

圖7.27　2019年 6月12海域主要測站2修補前後之 E-風速比較圖

W196TPY0.1HA W196TPY0.1H0 W196KLY0.1HA W196KLY0.1H0 W196SAY0.1HA W196SAY0.1H0
W196HLY0.1HA W196HLY0.1H0 W196LTW0.1HA W196LTW0.1H0 W196PNZ0.1HA W196PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/06

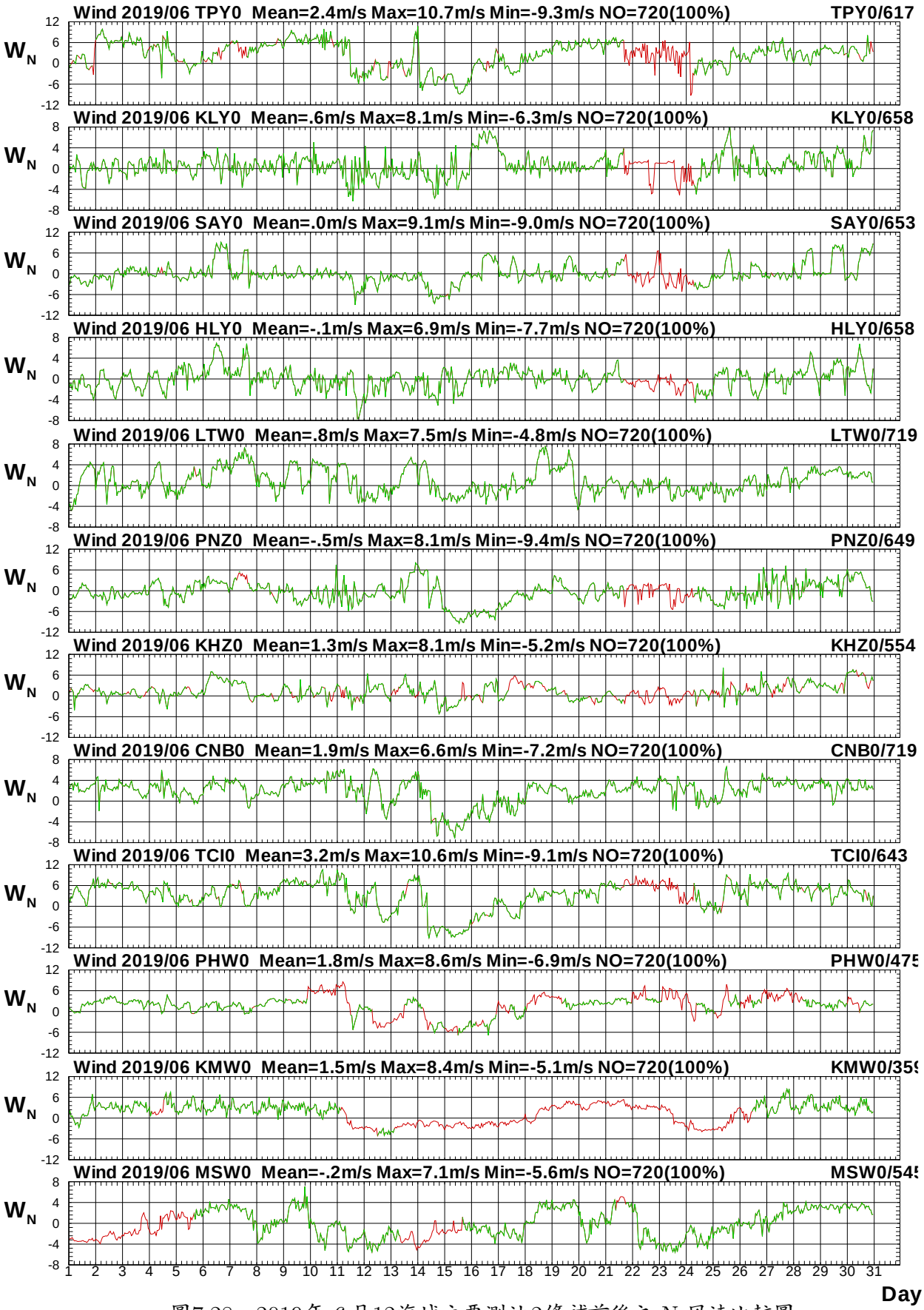

圖7.28　2019年 6 月12海域主要測站2修補前後之 N-風速比較圖

W196TPY0.1HA W196TPY0.1H0 W196KLY0.1HA W196KLY0.1H0 W196SAY0.1HA W196SAY0.1H0
W196HLY0.1HA W196HLY0.1H0 W196LTW0.1HA W196LTW0.1H0 W196PNZ0.1HA W196PNZ0.1H0

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Twelve Seas Wind Speed at 2019/07

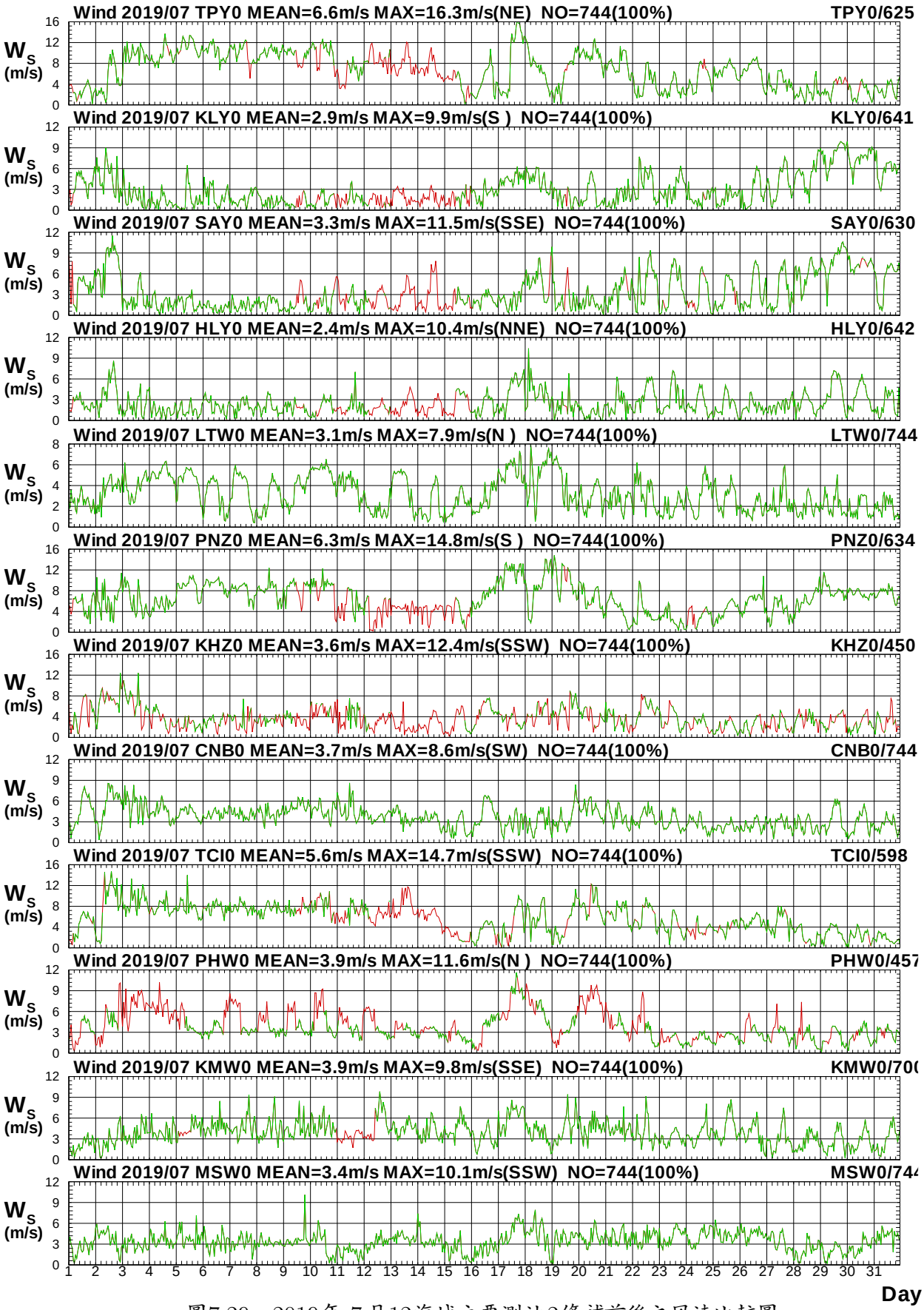

圖7.29　2019年 7月12海域主要測站2修補前後之風速比較圖

W197TPY0.1HA W197TPY0.1H0 W197KLY0.1HA W197KLY0.1H0 W197SAY0.1HA W197SAY0.1H0
W197HLY0.1HA W197HLY0.1H0 W197LTW0.1HA W197LTW0.1H0 W197PNZ0.1HA W197PNZ0.1H0

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Twelve Seas Wind Direction at 2019/07

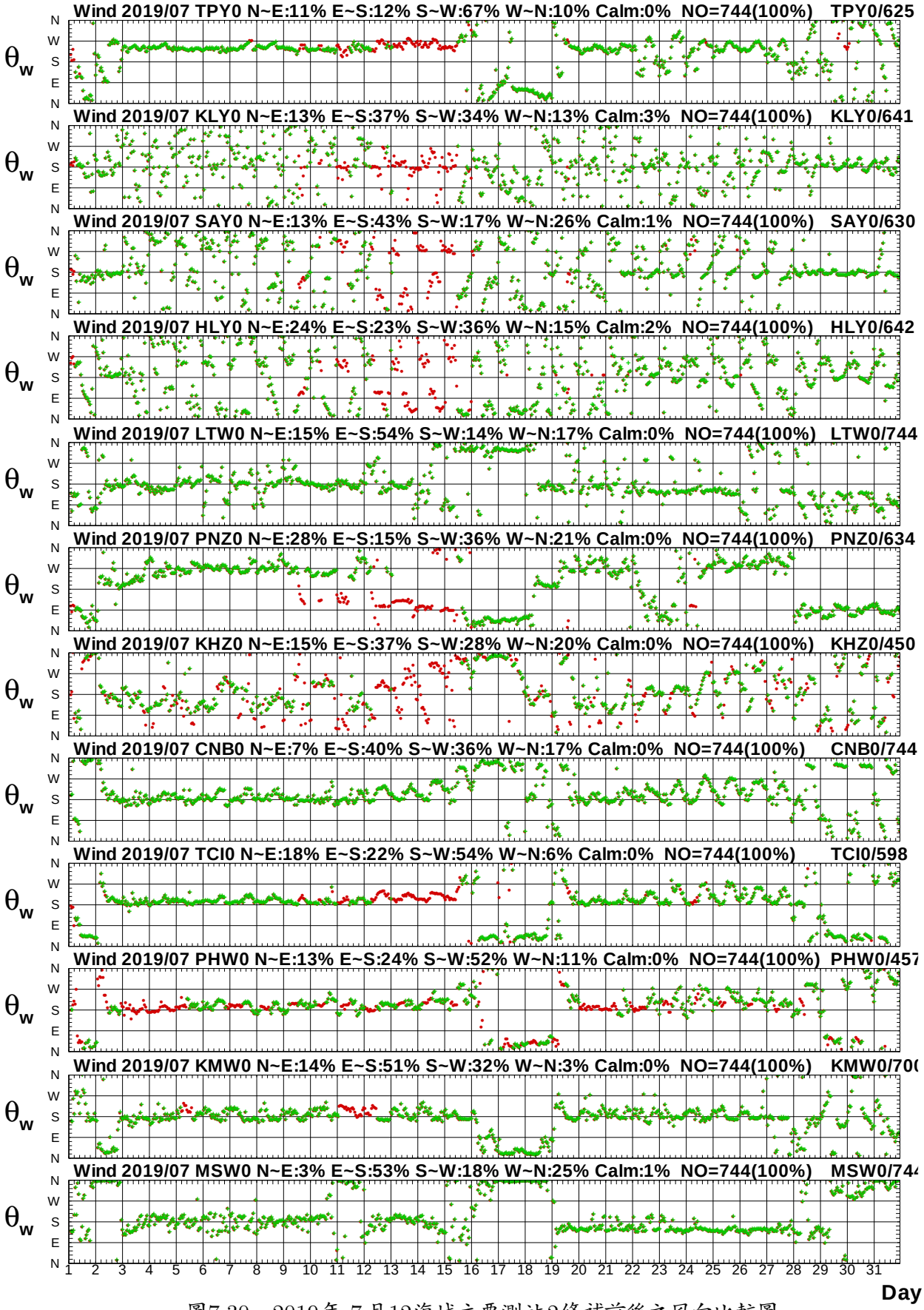

圖7.30　2019年 7月12海域主要測站2修補前後之風向比較圖

W197TPY0.1HA W197TPY0.1H0 W197KLY0.1HA W197KLY0.1H0 W197SAY0.1HA W197SAY0.1H0
W197HLY0.1HA W197HLY0.1H0 W197LTW0.1HA W197LTW0.1H0 W197PNZ0.1HA W197PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/07

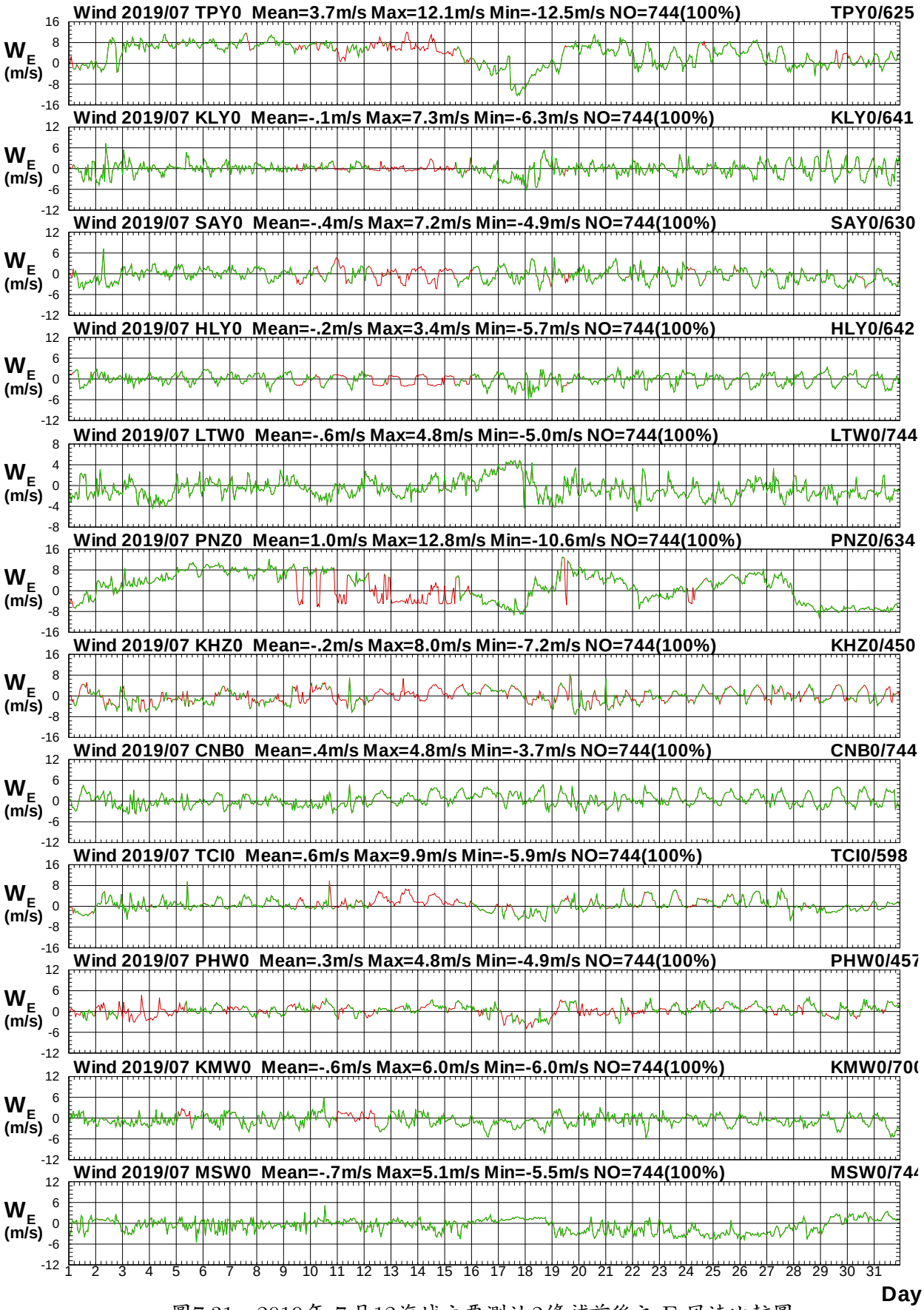

圖7.31　2019年 7月12海域主要測站2修補前後之 E-風速比較圖

W197TPY0.1HA W197TPY0.1H0 W197KLY0.1HA W197KLY0.1H0 W197SAY0.1HA W197SAY0.1H0
W197HLY0.1HA W197HLY0.1H0 W197LTW0.1HA W197LTW0.1H0 W197PNZ0.1HA W197PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/07

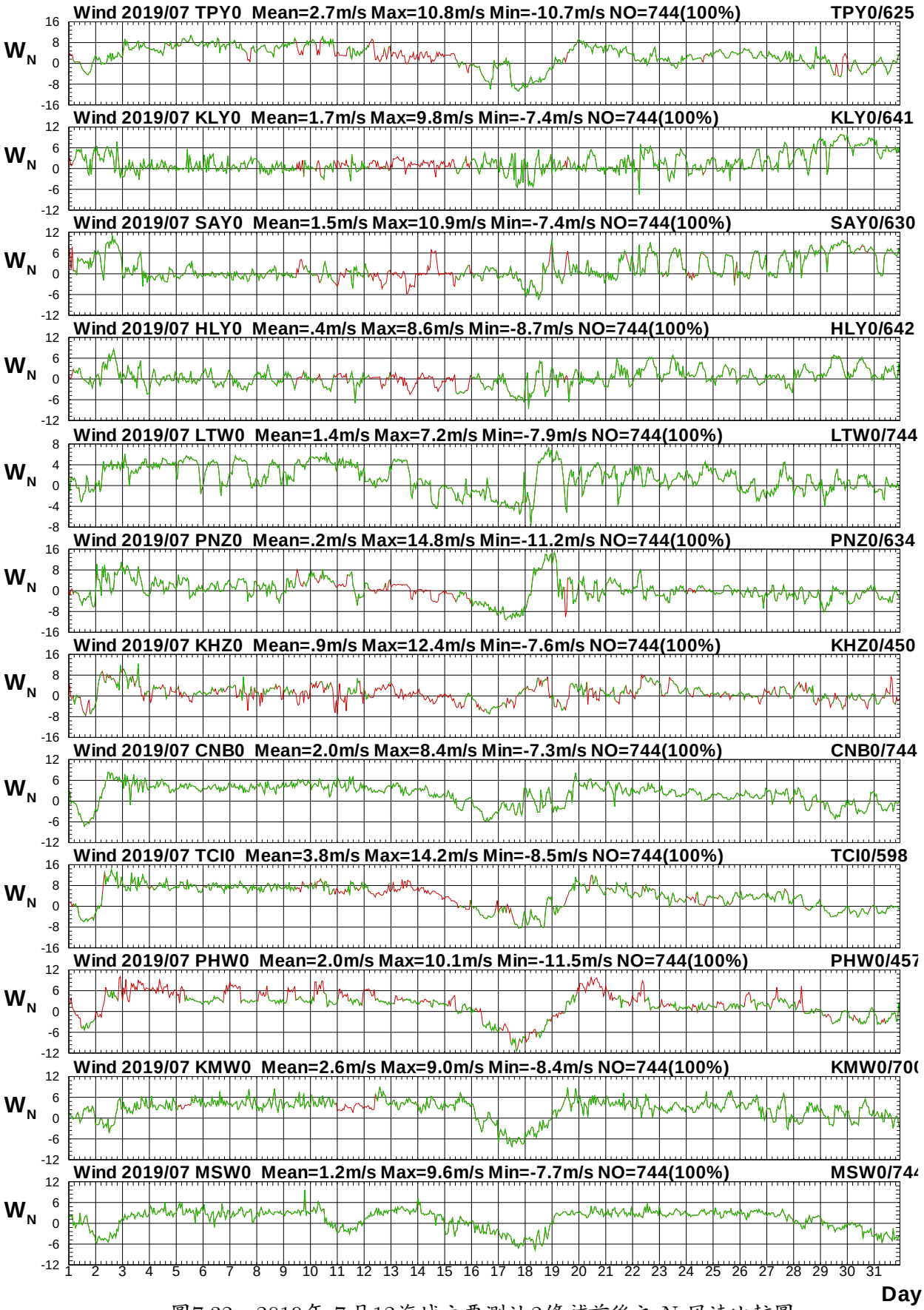

圖7.32　2019年 7月12海域主要測站2修補前後之 N-風速比較圖

W197TPY0.1HA W197TPY0.1H0 W197KLY0.1HA W197KLY0.1H0 W197SAY0.1HA W197SAY0.1H0
W197HLY0.1HA W197HLY0.1H0 W197LTW0.1HA W197LTW0.1H0 W197PNZ0.1HA W197PNZ0.1H0

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Twelve Seas Wind Speed at 2019/08

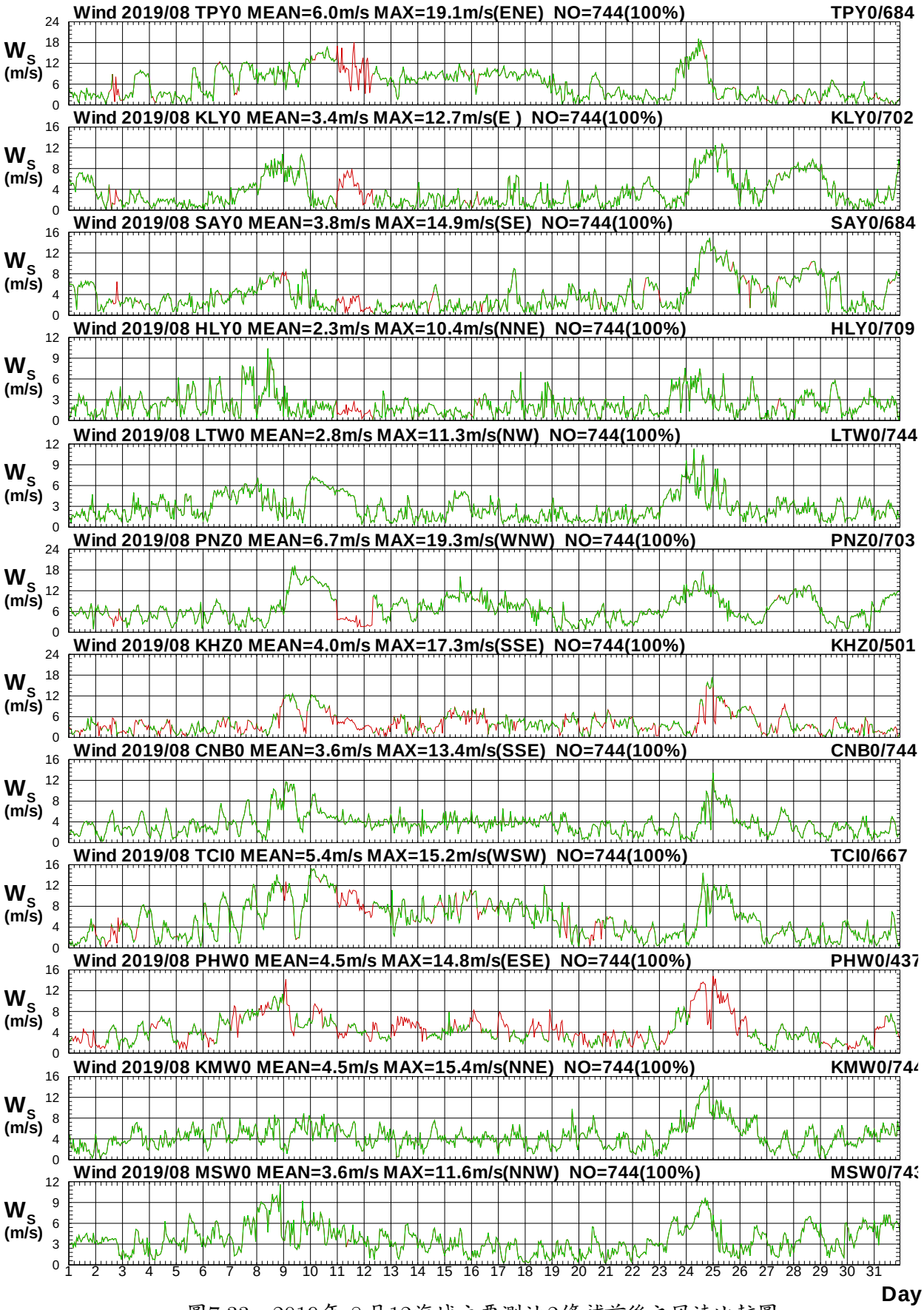

圖7.33　2019年 8月12海域主要測站2修補前後之風速比較圖

W198TPY0.1HA W198TPY0.1H0 W198KLY0.1HA W198KLY0.1H0 W198SAY0.1HA W198SAY0.1H0
W198HLY0.1HA W198HLY0.1H0 W198LTW0.1HA W198LTW0.1H0 W198PNZ0.1HA W198PNZ0.1H0

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Twelve Seas Wind Direction at 2019/08

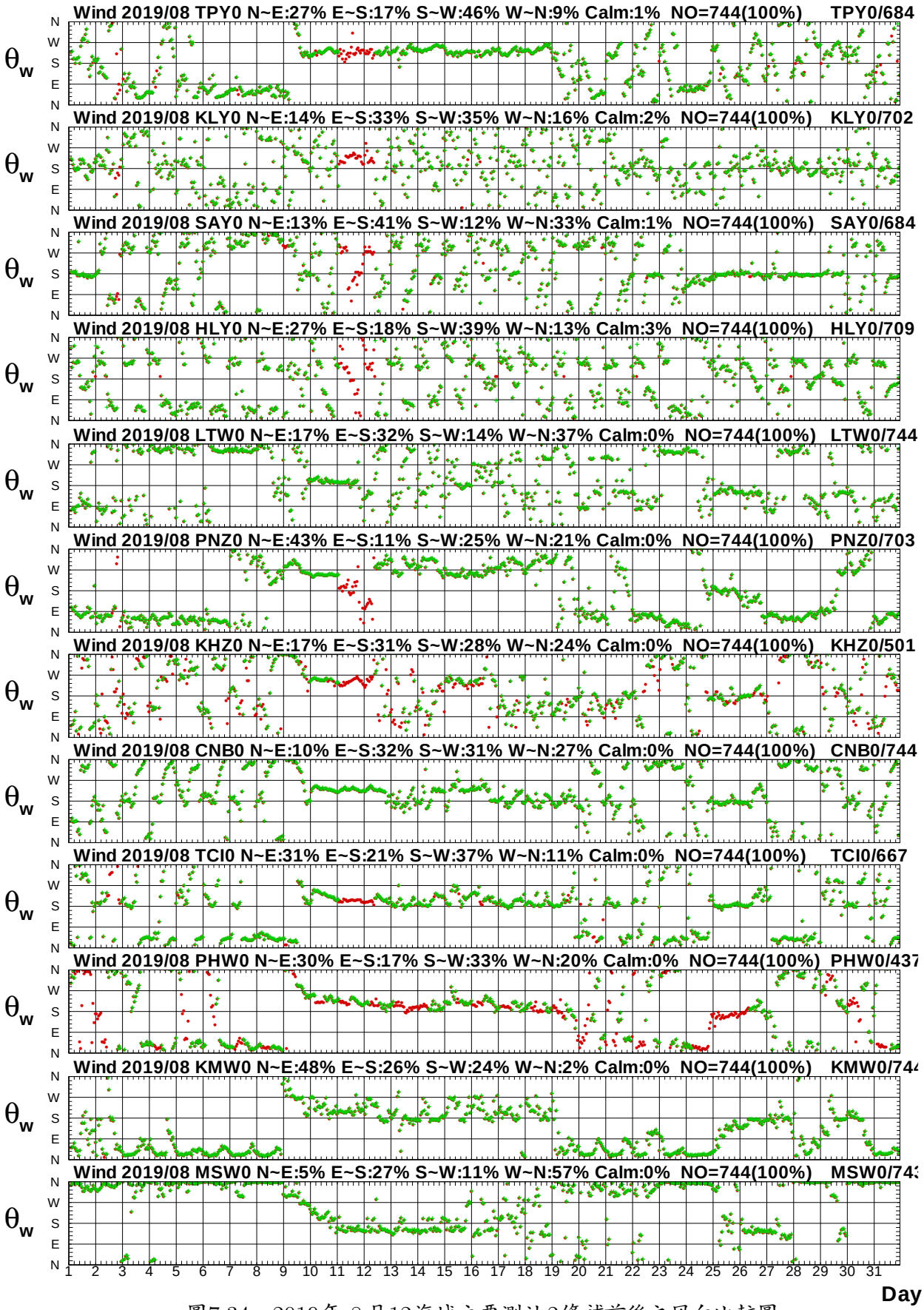

圖7.34　2019年 8月12海域主要測站2修補前後之風向比較圖

W198TPY0.1HA W198TPY0.1H0 W198KLY0.1HA W198KLY0.1H0 W198SAY0.1HA W198SAY0.1H0
W198HLY0.1HA W198HLY0.1H0 W198LTW0.1HA W198LTW0.1H0 W198PNZ0.1HA W198PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/08

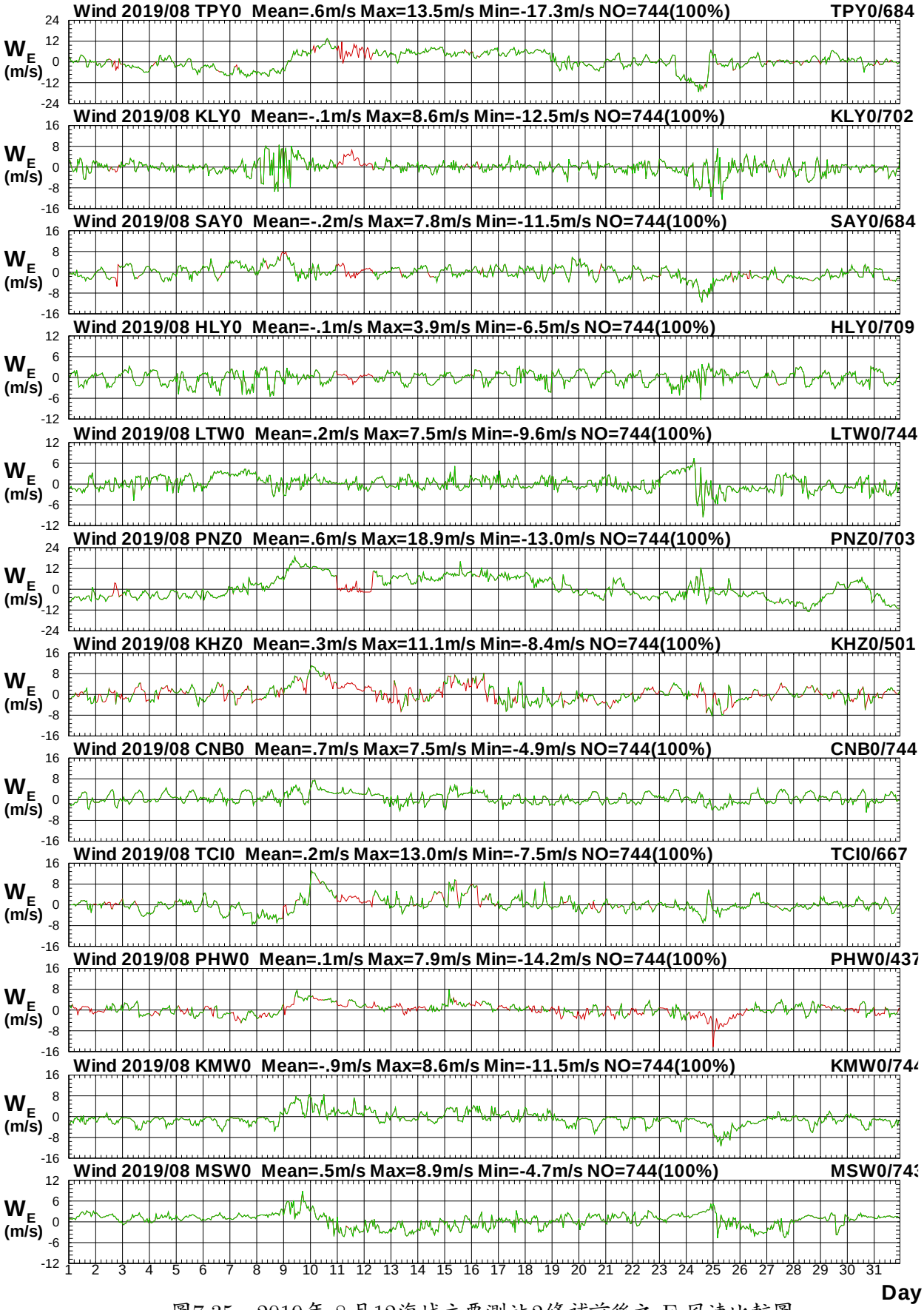

圖7.35　2019年 8 月12海域主要測站2修補前後之 E-風速比較圖

W198TPY0.1HA W198TPY0.1H0 W198KLY0.1HA W198KLY0.1H0 W198SAY0.1HA W198SAY0.1H0
W198HLY0.1HA W198HLY0.1H0 W198LTW0.1HA W198LTW0.1H0 W198PNZ0.1HA W198PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/08

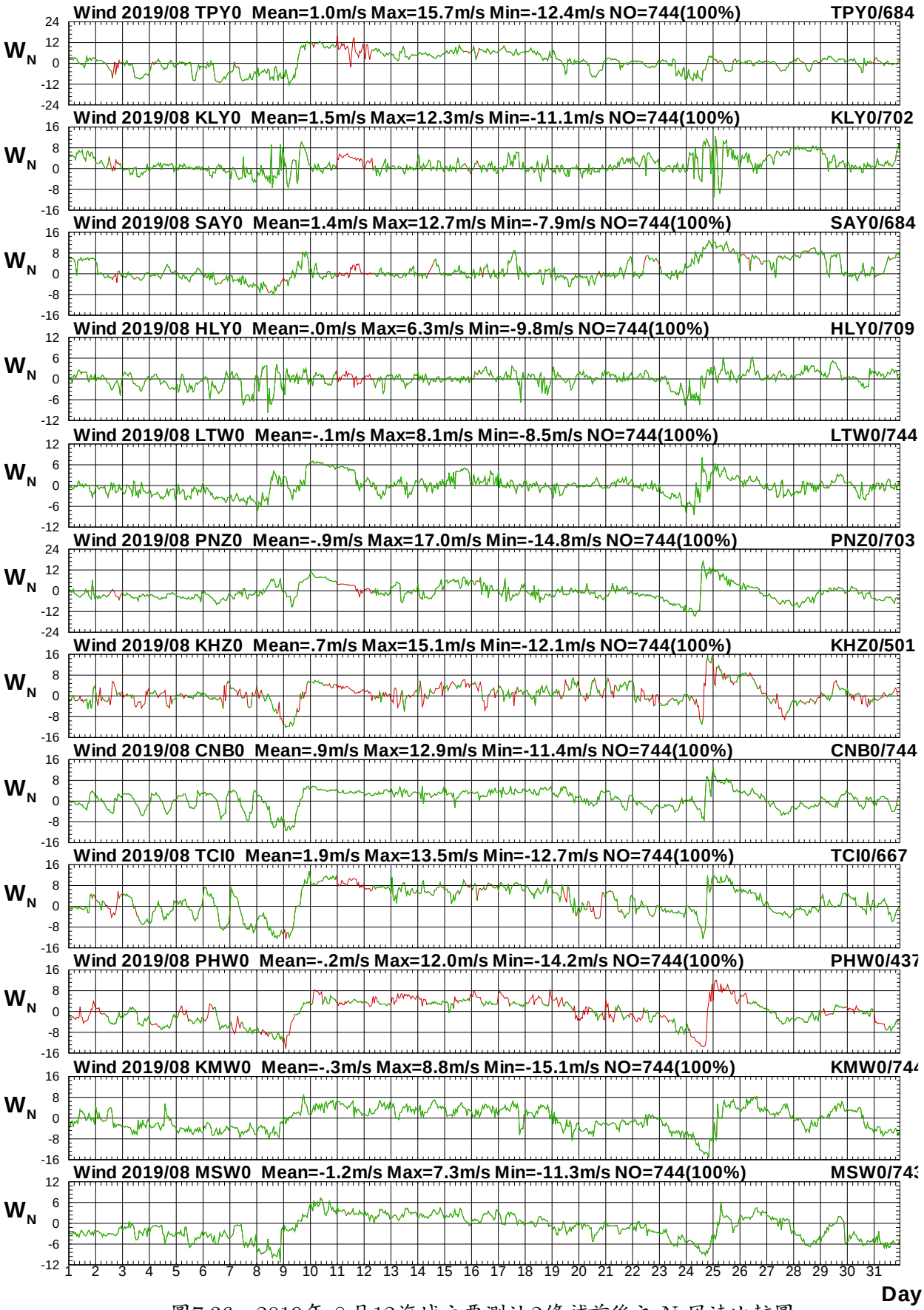

圖7.36　2019年 8 月12海域主要測站2修補前後之 N-風速比較圖

W198TPY0.1HA W198TPY0.1H0 W198KLY0.1HA W198KLY0.1H0 W198SAY0.1HA W198SAY0.1H0
W198HLY0.1HA W198HLY0.1H0 W198LTW0.1HA W198LTW0.1H0 W198PNZ0.1HA W198PNZ0.1H0

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Twelve Seas Wind Speed at 2019/09

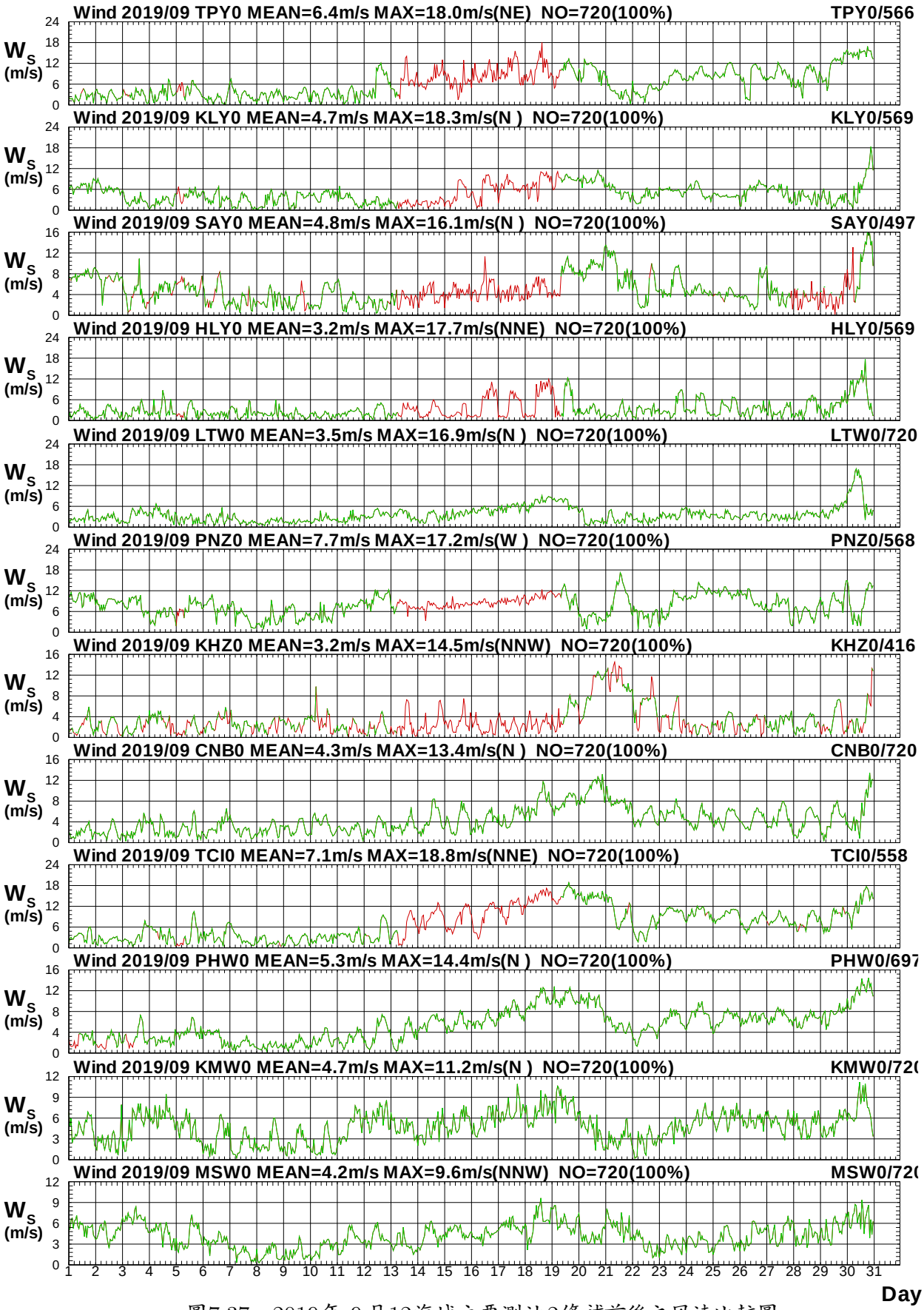

圖7.37　2019年 9月12海域主要測站2修補前後之風速比較圖

W199TPY0.1HA W199TPY0.1H0 W199KLY0.1HA W199KLY0.1H0 W199SAY0.1HA W199SAY0.1H0
W199HLY0.1HA W199HLY0.1H0 W199LTW0.1HA W199LTW0.1H0 W199PNZ0.1HA W199PNZ0.1H0

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Twelve Seas Wind Direction at 2019/09

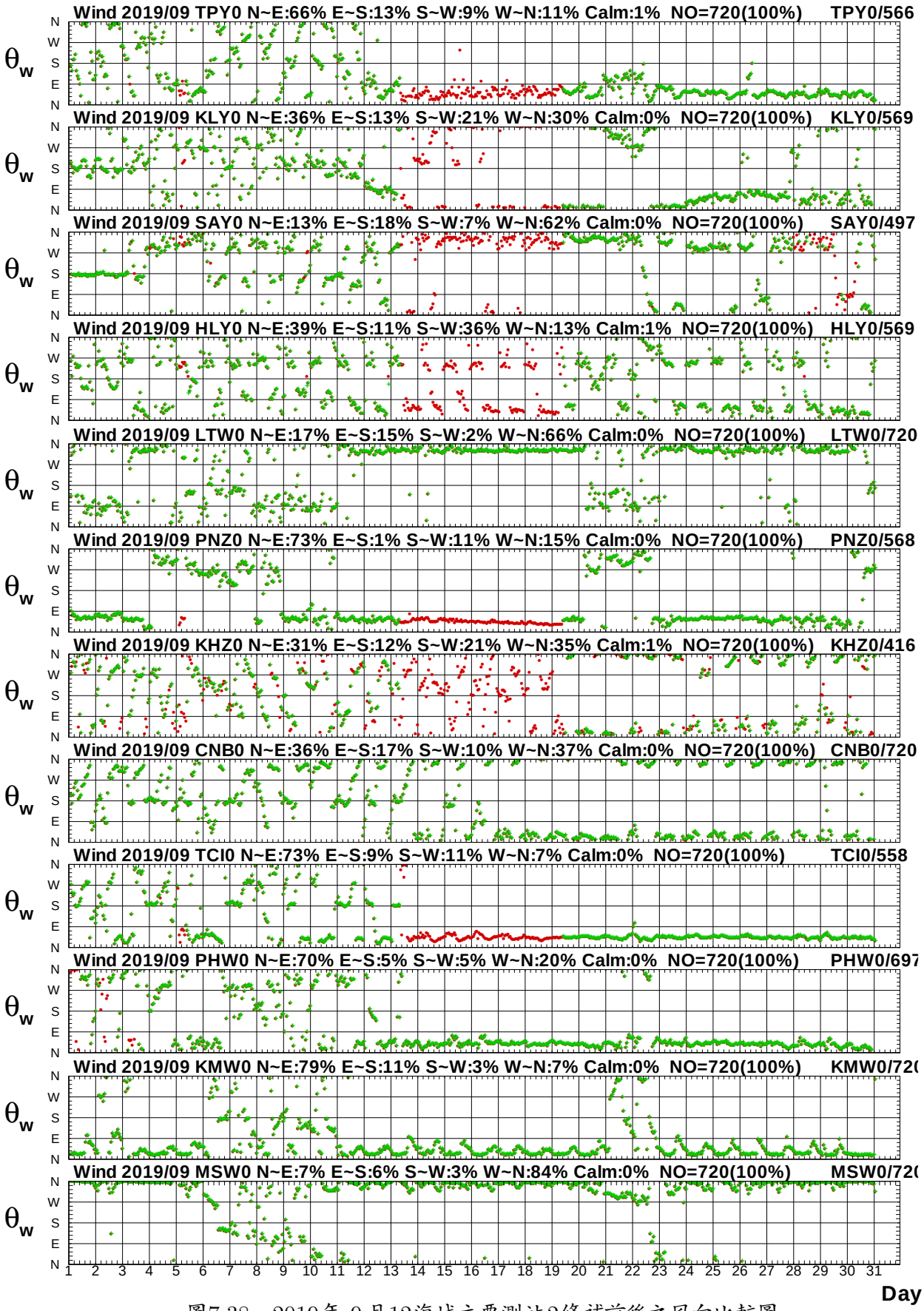

圖7.38　2019年 9月12海域主要測站2修補前後之風向比較圖

W199TPY0.1HA W199TPY0.1H0 W199KLY0.1HA W199KLY0.1H0 W199SAY0.1HA W199SAY0.1H0
W199HLY0.1HA W199HLY0.1H0 W199LTW0.1HA W199LTW0.1H0 W199PNZ0.1HA W199PNZ0.1H0

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Twelve Seas E-component of Wind at 2019/09

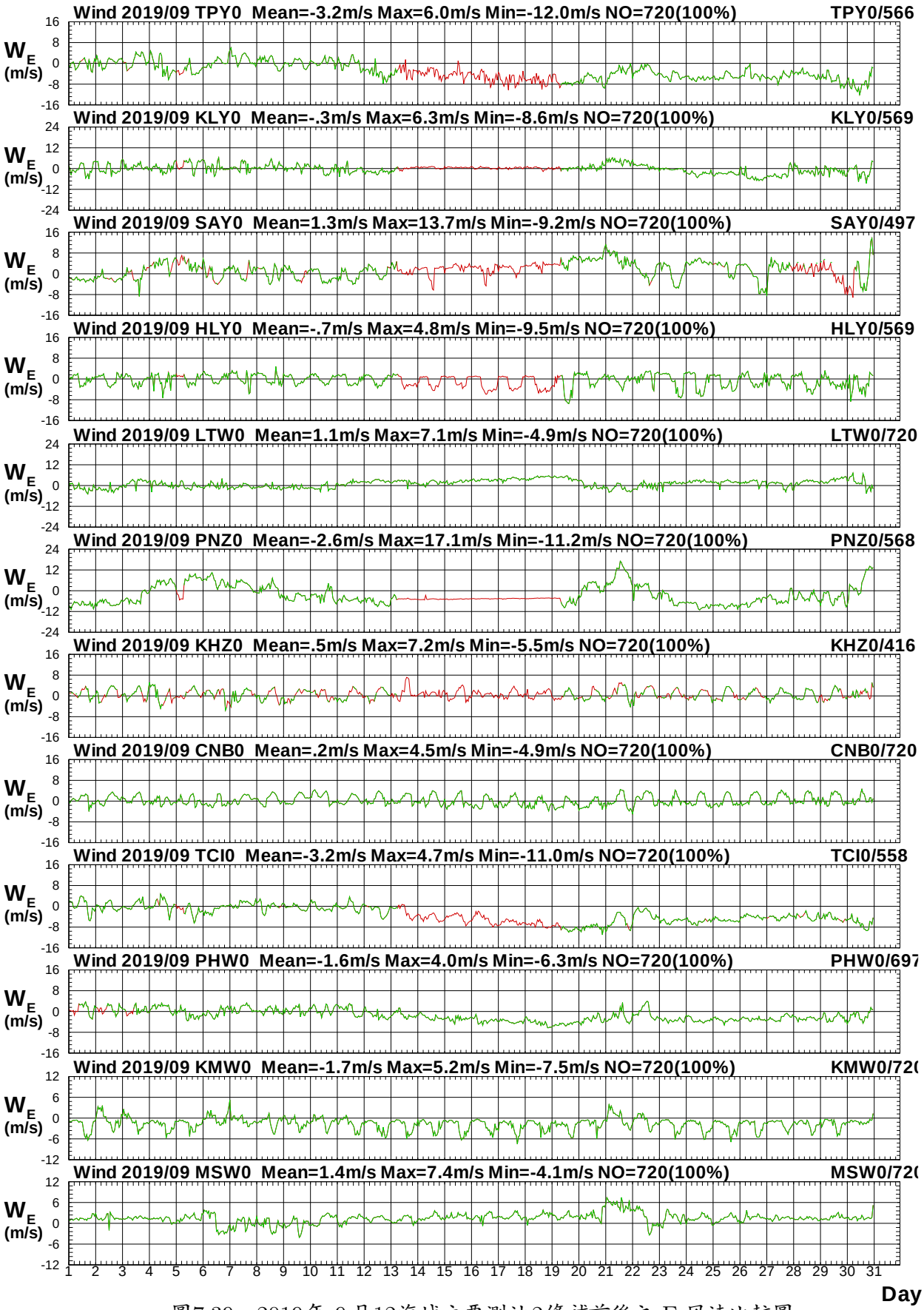

圖7.39　2019年 9月12海域主要測站2修補前後之 E-風速比較圖

W199TPY0.1HA W199TPY0.1H0 W199KLY0.1HA W199KLY0.1H0 W199SAY0.1HA W199SAY0.1H0
W199HLY0.1HA W199HLY0.1H0 W199LTW0.1HA W199LTW0.1H0 W199PNZ0.1HA W199PNZ0.1H0

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Twelve Seas N-component of Wind at 2019/09

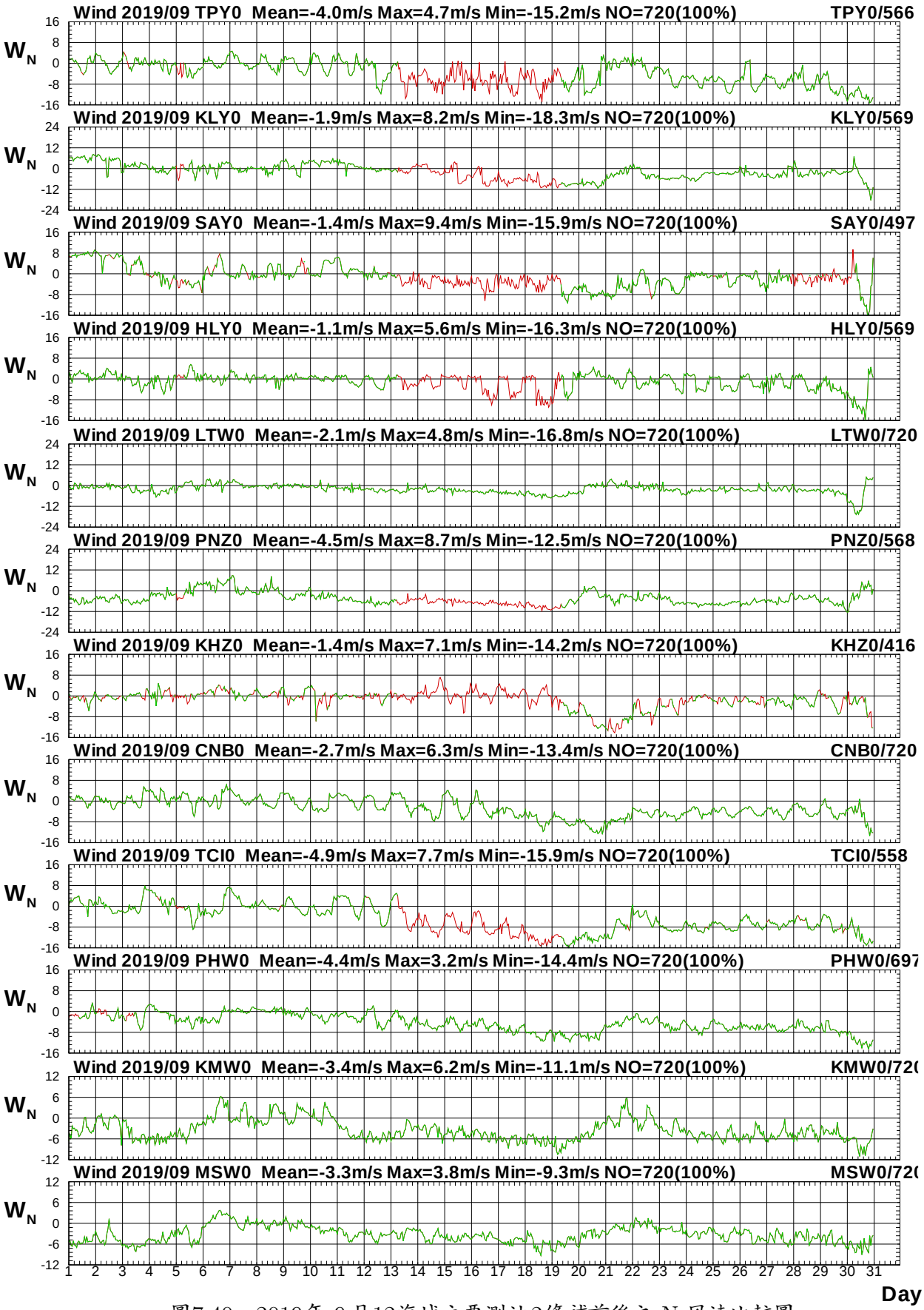

圖7.40　2019年 9月12海域主要測站2修補前後之 N-風速比較圖

W199TPY0.1HA W199TPY0.1H0 W199KLY0.1HA W199KLY0.1H0 W199SAY0.1HA W199SAY0.1H0
W199HLY0.1HA W199HLY0.1H0 W199LTW0.1HA W199LTW0.1H0 W199PNZ0.1HA W199PNZ0.1H0

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Twelve Seas Wind Speed at 2019/10

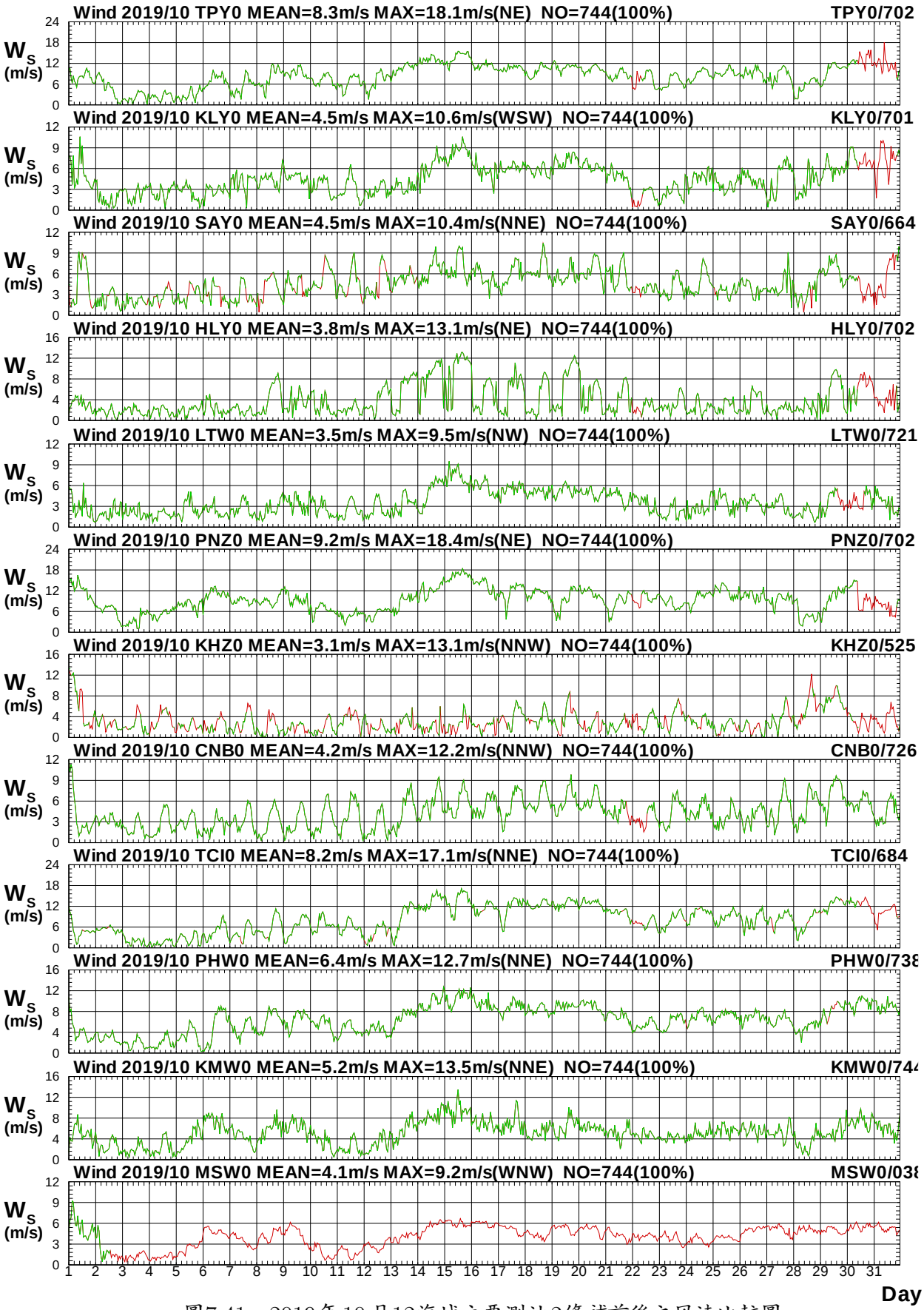

圖7.41　2019年10月12海域主要測站2修補前後之風速比較圖

W19ATPY0.1HA W19ATPY0.1H0 W19AKLY0.1HA W19AKLY0.1H0 W19ASAY0.1HA W19ASAY0.1H0
W19AHLY0.1HA W19AHLY0.1H0 W19ALTW0.1HA W19ALTW0.1H0 W19APNZ0.1HA W19APNZ0.1H0

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Twelve Seas Wind Direction at 2019/10

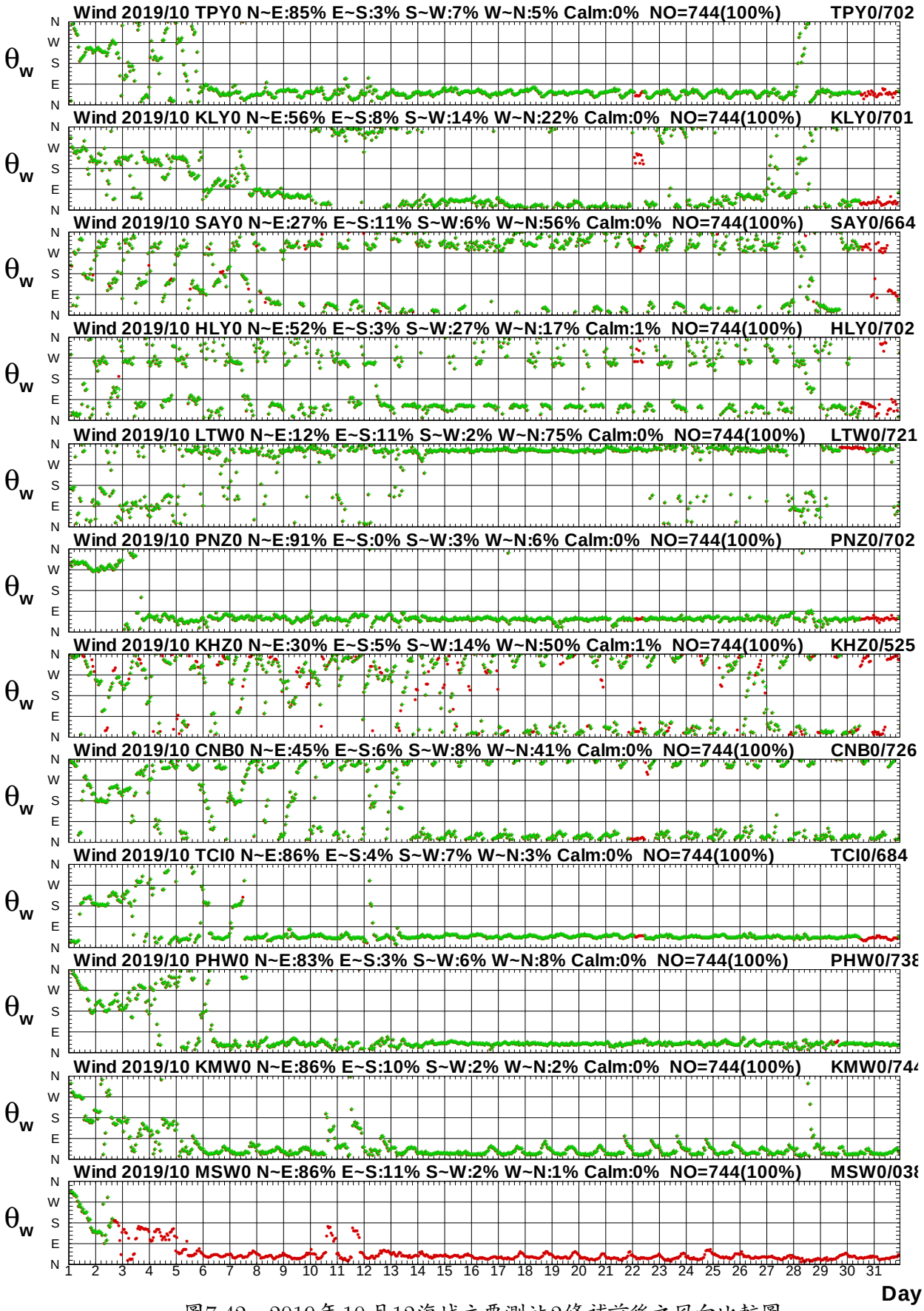

圖7.42　2019年10月12海域主要測站2修補前後之風向比較圖

W19ATPY0.1HA W19ATPY0.1H0 W19AKLY0.1HA W19AKLY0.1H0 W19ASAY0.1HA W19ASAY0.1H0
W19AHLY0.1HA W19AHLY0.1H0 W19ALTW0.1HA W19ALTW0.1H0 W19APNZ0.1HA W19APNZ0.1H0

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Twelve Seas E-component of Wind at 2019/10

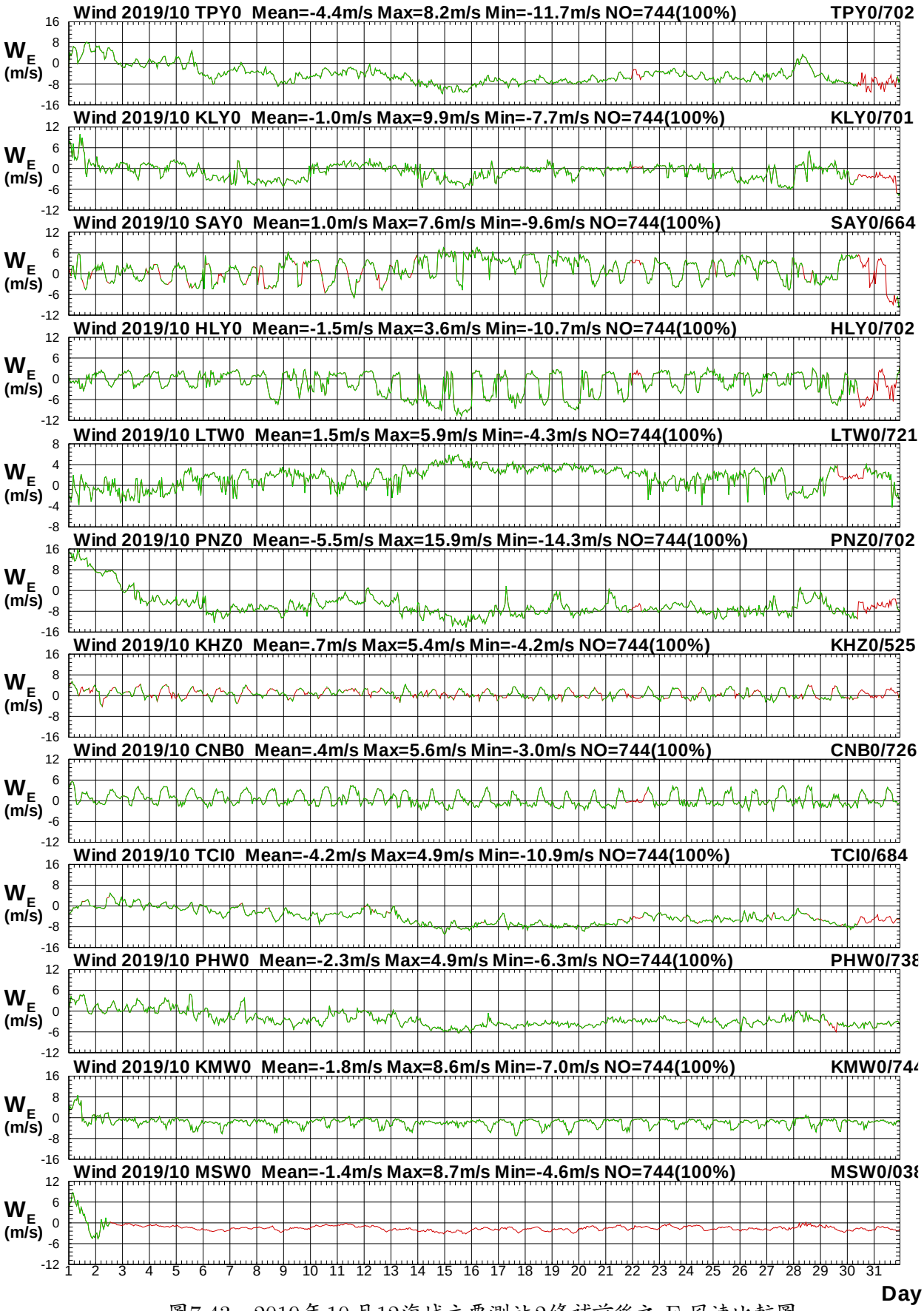

圖7.43　2019年10月12海域主要測站2修補前後之 E-風速比較圖

W19ATPY0.1HA W19ATPY0.1H0 W19AKLY0.1HA W19AKLY0.1H0 W19ASAY0.1HA W19ASAY0.1H0
W19AHLY0.1HA W19AHLY0.1H0 W19ALTW0.1HA W19ALTW0.1H0 W19APNZ0.1HA W19APNZ0.1H0

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Twelve Seas N-component of Wind at 2019/10

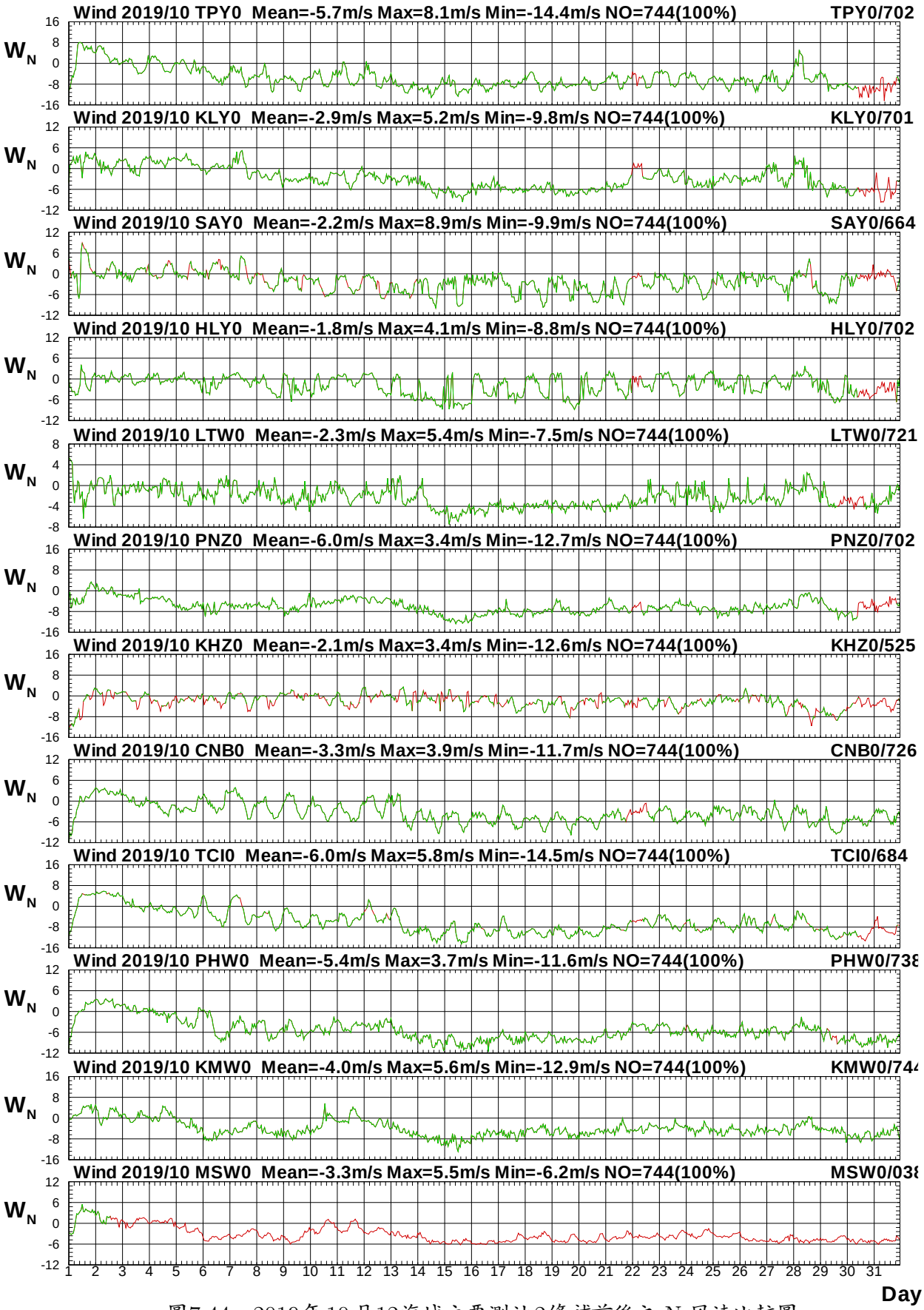

圖7.44　2019年10月12海域主要測站2修補前後之 N-風速比較圖

W19ATPY0.1HA W19ATPY0.1H0 W19AKLY0.1HA W19AKLY0.1H0 W19ASAY0.1HA W19ASAY0.1H0
W19AHLY0.1HA W19AHLY0.1H0 W19ALTW0.1HA W19ALTW0.1H0 W19APNZ0.1HA W19APNZ0.1H0

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Twelve Seas Wind Speed at 2019/11

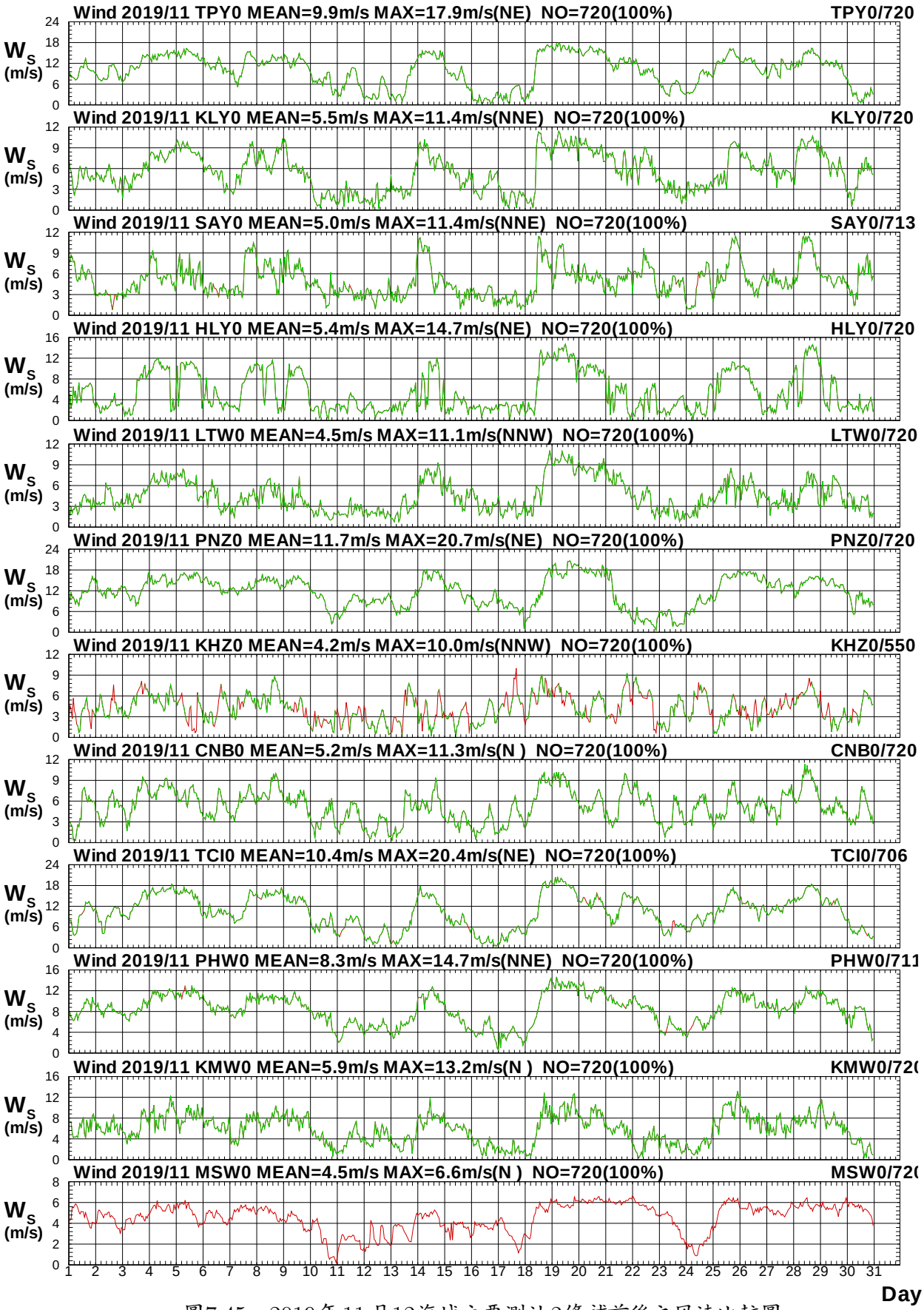

圖7.45　2019年11月12海域主要測站2修補前後之風速比較圖

W19BTPY0.1HA W19BTPY0.1H0 W19BKLY0.1HA W19BKLY0.1H0 W19BSAY0.1HA W19BSAY0.1H0
W19BHLY0.1HA W19BHLY0.1H0 W19BLTW0.1HA W19BLTW0.1H0 W19BPNZ0.1HA W19BPNZ0.1H0

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Twelve Seas Wind Direction at 2019/11

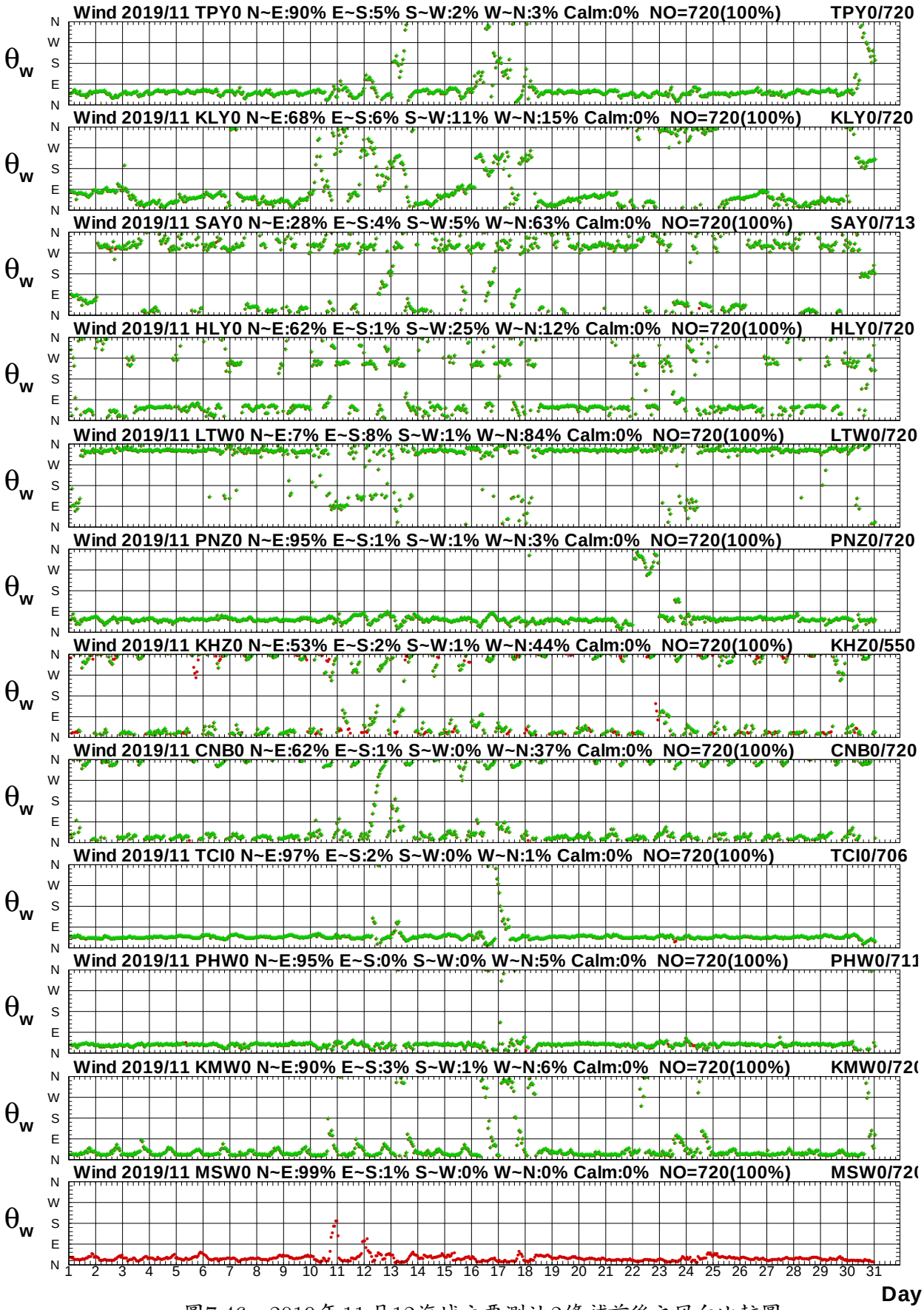

圖7.46　2019年11月12海域主要測站2修補前後之風向比較圖

W19BTPY0.1HA W19BTPY0.1H0 W19BKLY0.1HA W19BKLY0.1H0 W19BSAY0.1HA W19BSAY0.1H0
W19BHLY0.1HA W19BHLY0.1H0 W19BLTW0.1HA W19BLTW0.1H0 W19BPNZ0.1HA W19BPNZ0.1H0

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Twelve Seas E-component of Wind at 2019/11

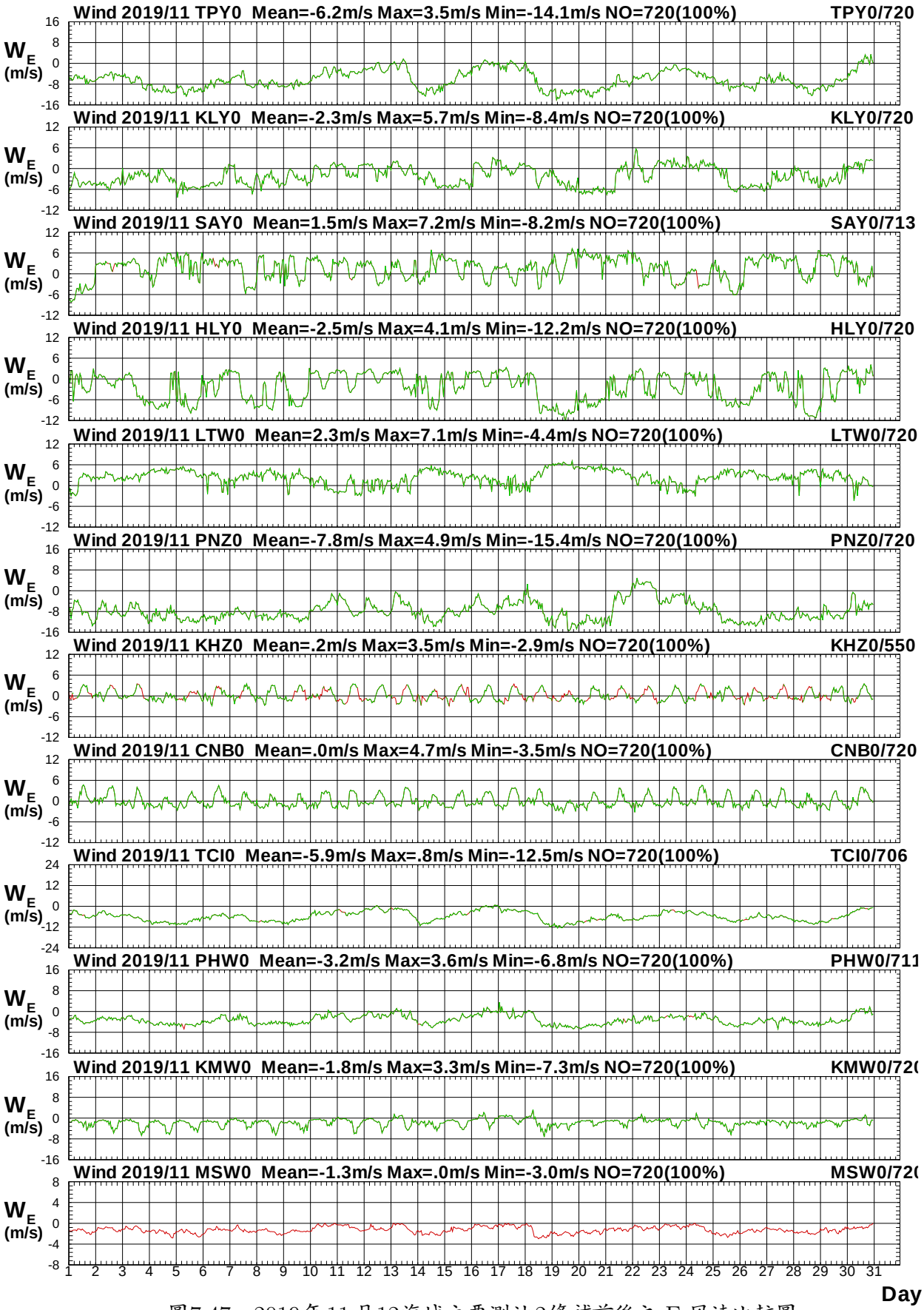

圖7.47　2019年11月12海域主要測站2修補前後之 E-風速比較圖

W19BTPY0.1HA W19BTPY0.1H0 W19BKLY0.1HA W19BKLY0.1H0 W19BSAY0.1HA W19BSAY0.1H0
W19BHLY0.1HA W19BHLY0.1H0 W19BLTW0.1HA W19BLTW0.1H0 W19BPNZ0.1HA W19BPNZ0.1H0

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Twelve Seas N-component of Wind at 2019/11

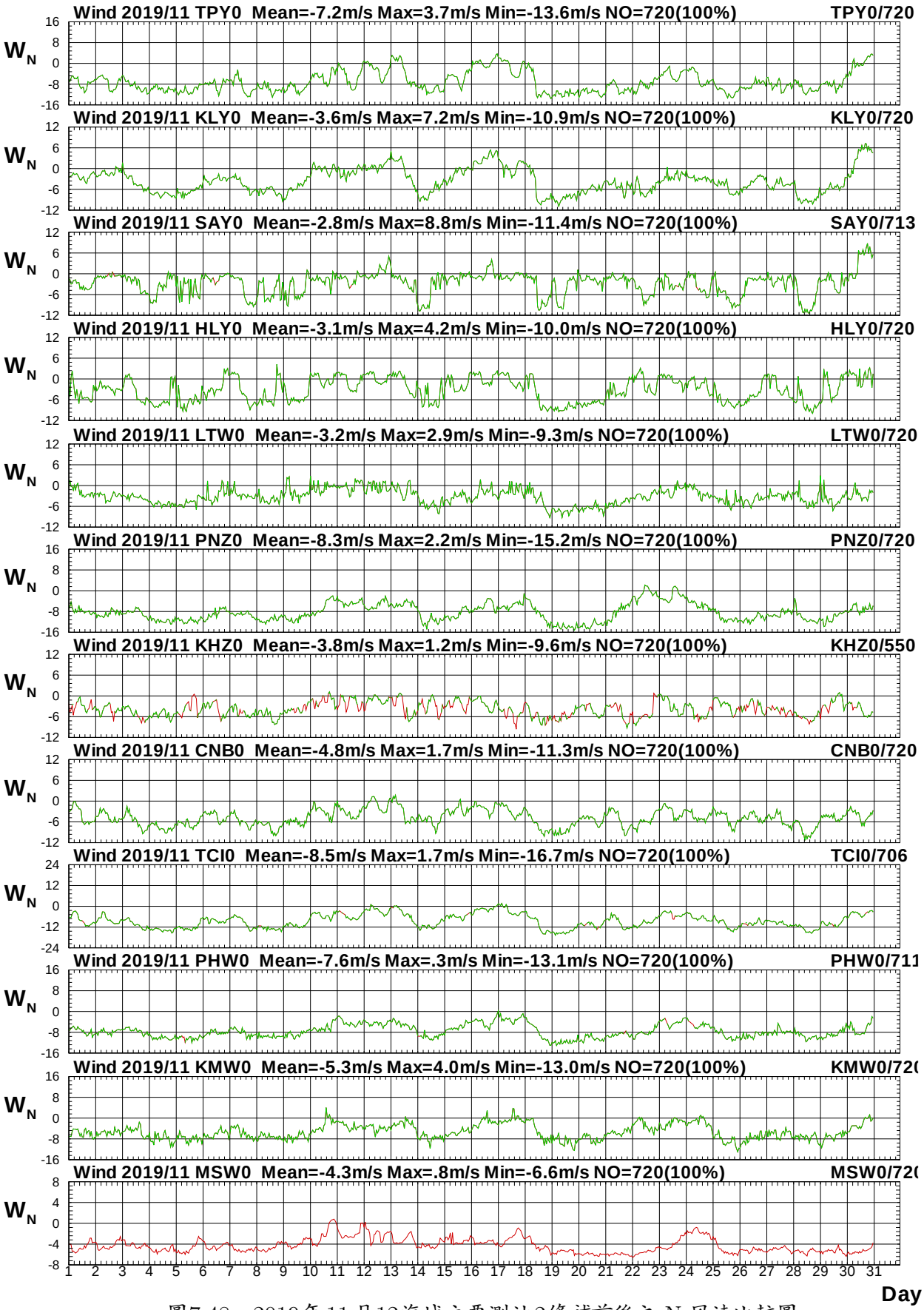

圖7.48　2019年11月12海域主要測站2修補前後之 N-風速比較圖

W19BTPY0.1HA W19BTPY0.1H0 W19BKLY0.1HA W19BKLY0.1H0 W19BSAY0.1HA W19BSAY0.1H0
W19BHLY0.1HA W19BHLY0.1H0 W19BLTW0.1HA W19BLTW0.1H0 W19BPNZ0.1HA W19BPNZ0.1H0

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第八章 2019 年 12 海域風力主要測站 2 修補前後風力向量分佈圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Distribution of Wind Vectores

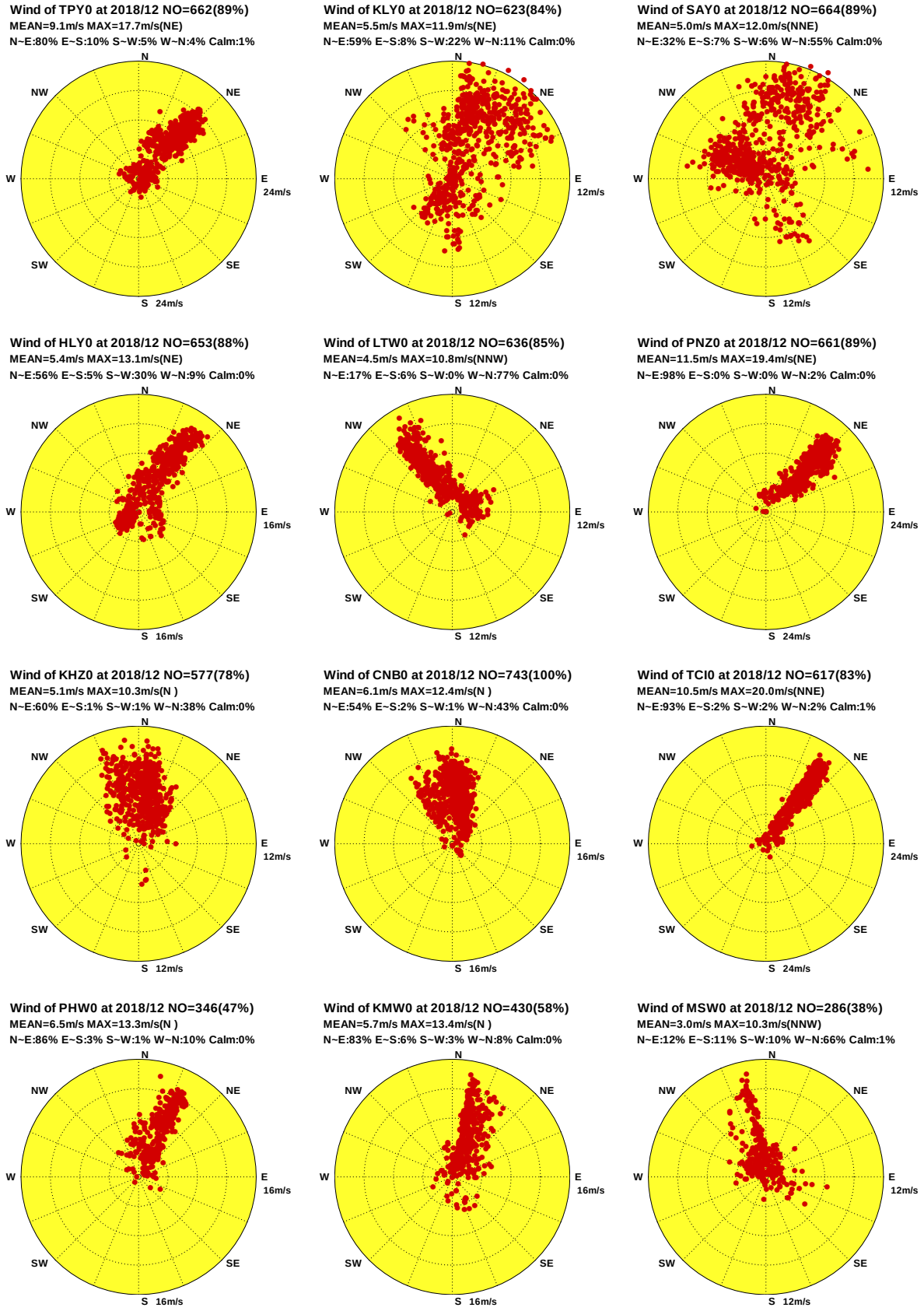

圖8.1a 2018年12月12海域主要測站2修補前觀測風向量分佈圖

W18CTPY0.1H0 W18CKLY0.1H0 W18CSAY0.1H0 W18CHLY0.1H0 W18CLTW0.1H0 W18CPNZ0.1H0
W18CKHZ0.1H0 W18CCNB0.1H0 W18CTCI0.1H0 W18CPHW0.1H0 W18CKMW0.1H0 W18CMSW0.1H0

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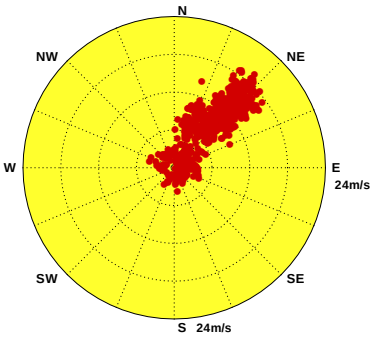
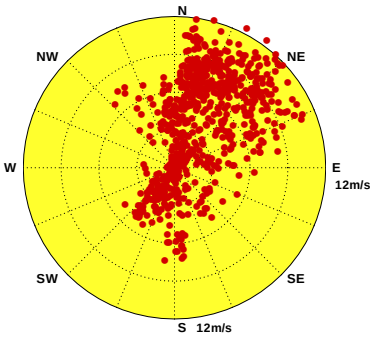
Distribution of Wind Vectores

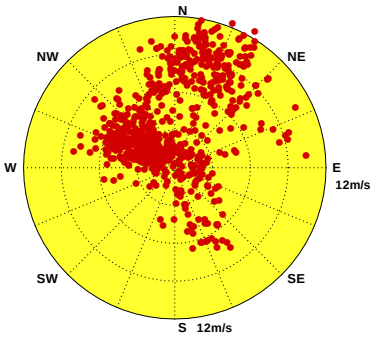
Wind of TPY0 at 2018/12 NO=744(100%)
MEAN=9.0m/s MAX=18.5m/s(NE)
N~E:81% E~S:10% S~W:4% W~N:4% Calm:1%



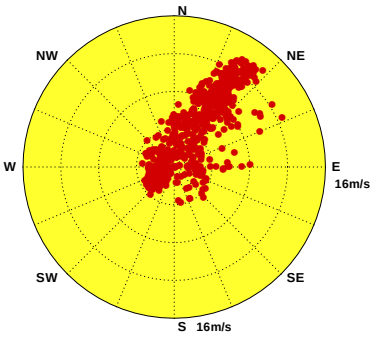
Wind of KLY0 at 2018/12 NO=744(100%)
MEAN=5.3m/s MAX=11.9m/s(NE)
N~E:62% E~S:8% S~W:19% W~N:10% Calm:1%



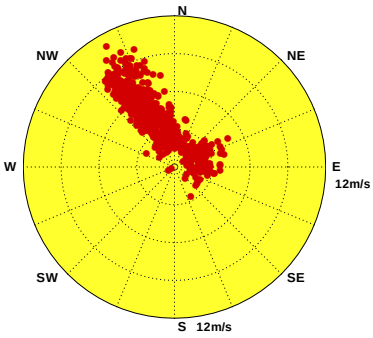
Wind of SAY0 at 2018/12 NO=744(100%)
MEAN=4.8m/s MAX=12.0m/s(NNE)
N~E:30% E~S:9% S~W:6% W~N:55% Calm:0%



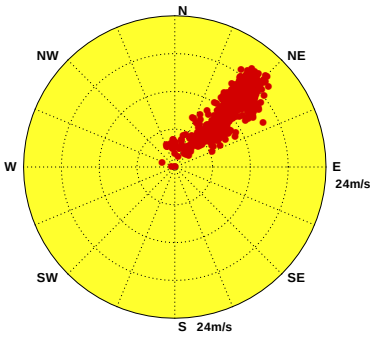
Wind of HLY0 at 2018/12 NO=744(100%)
MEAN=5.2m/s MAX=13.1m/s(NE)
N~E:54% E~S:6% S~W:30% W~N:10% Calm:0%



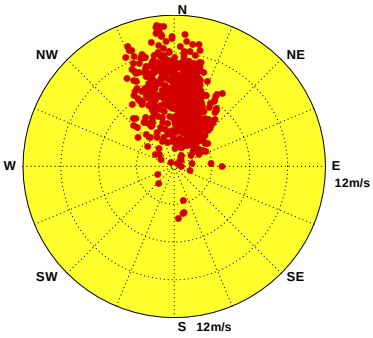
Wind of LTW0 at 2018/12 NO=744(100%)
MEAN=4.4m/s MAX=10.8m/s(NNW)
N~E:15% E~S:6% S~W:0% W~N:79% Calm:0%



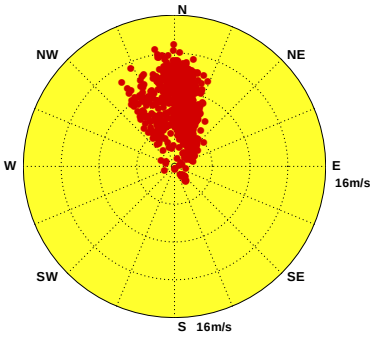
Wind of PNZ0 at 2018/12 NO=744(100%)
MEAN=11.4m/s MAX=19.4m/s(NE)
N~E:98% E~S:0% S~W:0% W~N:2% Calm:0%



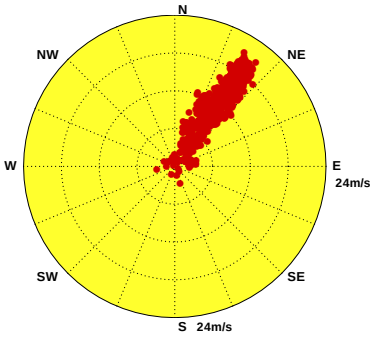
Wind of KHZ0 at 2018/12 NO=744(100%)
MEAN=5.3m/s MAX=10.9m/s(N)
N~E:61% E~S:1% S~W:1% W~N:37% Calm:0%



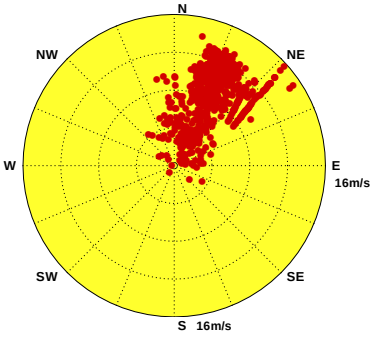
Wind of CNB0 at 2018/12 NO=744(100%)
MEAN=6.1m/s MAX=12.4m/s(N)
N~E:54% E~S:2% S~W:1% W~N:43% Calm:0%



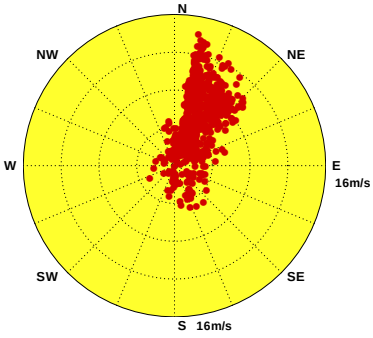
Wind of TCI0 at 2018/12 NO=744(100%)
MEAN=10.4m/s MAX=20.0m/s(NNE)
N~E:94% E~S:2% S~W:2% W~N:1% Calm:1%



Wind of PHW0 at 2018/12 NO=744(100%)
MEAN=8.1m/s MAX=14.9m/s(NE)
N~E:93% E~S:2% S~W:0% W~N:5% Calm:0%



Wind of KMW0 at 2018/12 NO=744(100%)
MEAN=5.4m/s MAX=13.4m/s(N)
N~E:83% E~S:6% S~W:4% W~N:7% Calm:0%



Wind of MSW0 at 2018/12 NO=744(100%)
MEAN=5.0m/s MAX=10.3m/s(NNW)
N~E:57% E~S:4% S~W:4% W~N:35% Calm:0%

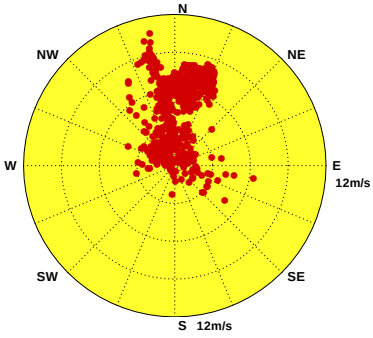


圖8.1b 2018年12月12海域主要測站2修補後觀測風向量分佈圖

W18CTPY0.1HA W18CKLY0.1HA W18CSAY0.1HA W18CHLY0.1HA W18CLTW0.1HA W18CPNZ0.1HA
W18CKHZ0.1HA W18CCNB0.1HA W18CTCI0.1HA W18CPHW0.1HA W18CKMW0.1HA W18CMSW0.1HA

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Distribution of Wind Vectores

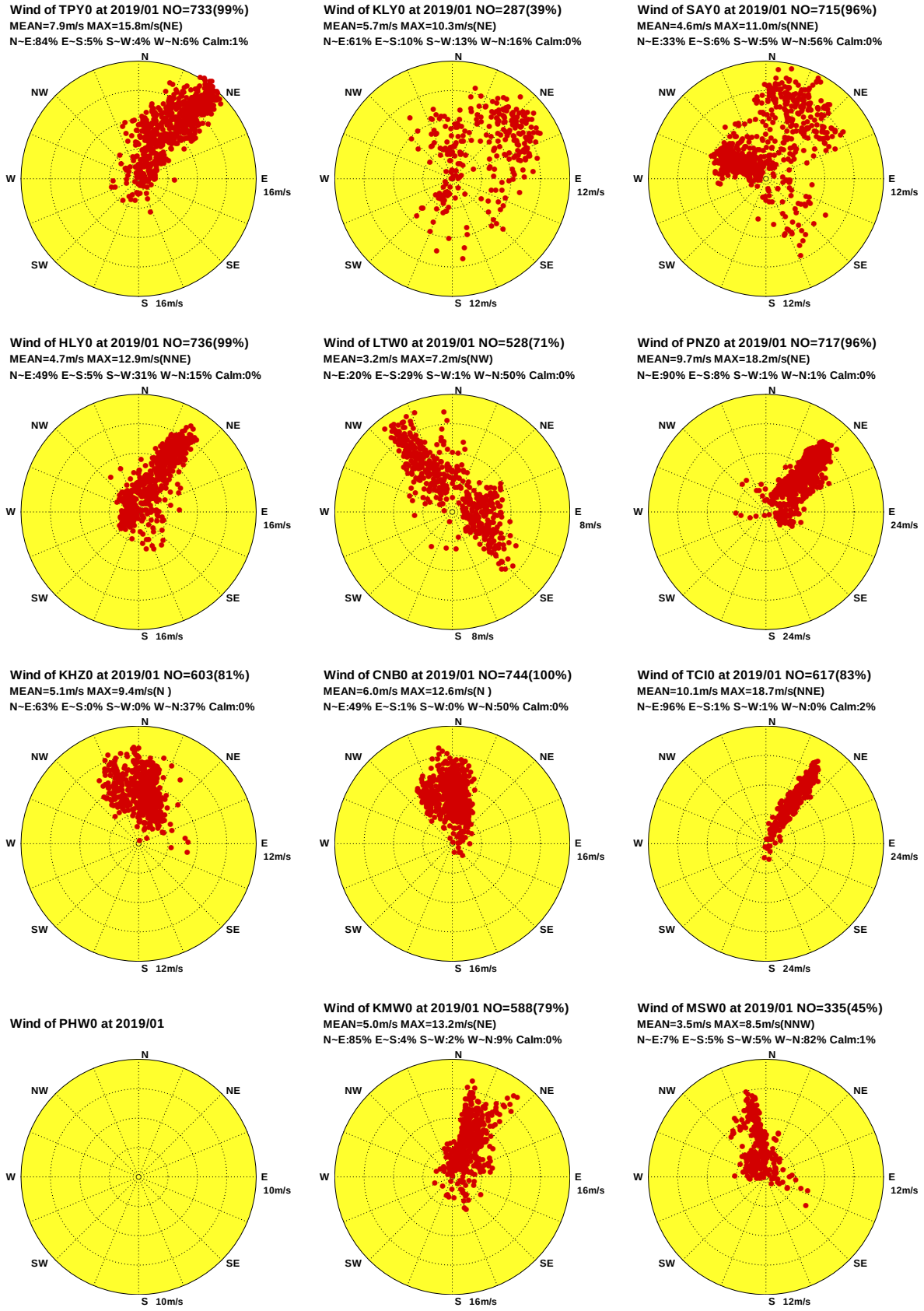

圖8.2a 2019年 1月12海域主要測站2修補前觀測風向量分佈圖

W191TPY0.1H0 W191KLY0.1H0 W191SAY0.1H0 W191HLY0.1H0 W191LTW0.1H0 W191PNZ0.1H0
W191KHZ0.1H0 W191CNB0.1H0 W191TCI0.1H0 W191PHW0.1H0 W191KMW0.1H0 W191MSW0.1H0

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Distribution of Wind Vectores

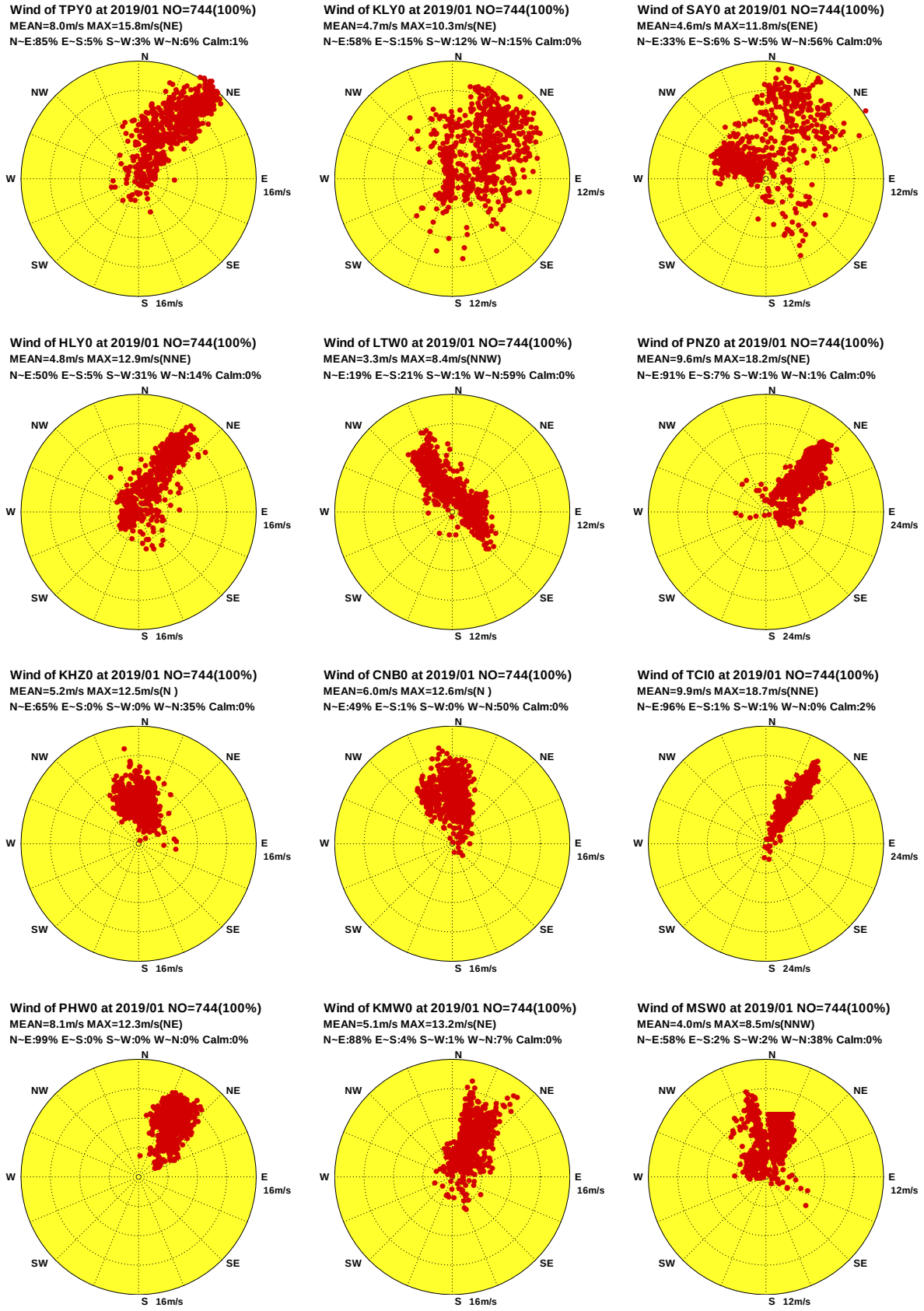

圖8.2b 2019年 1月12海域主要測站2修補後觀測風向量分佈圖

W191TPY0.1HA W191KLY0.1HA W191SAY0.1HA W191HLY0.1HA W191LTW0.1HA W191PNZ0.1HA
W191KHZ0.1HA W191CNB0.1HA W191TCI0.1HA W191PHW0.1HA W191KMW0.1HA W191MSW0.1HA

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Distribution of Wind Vectores

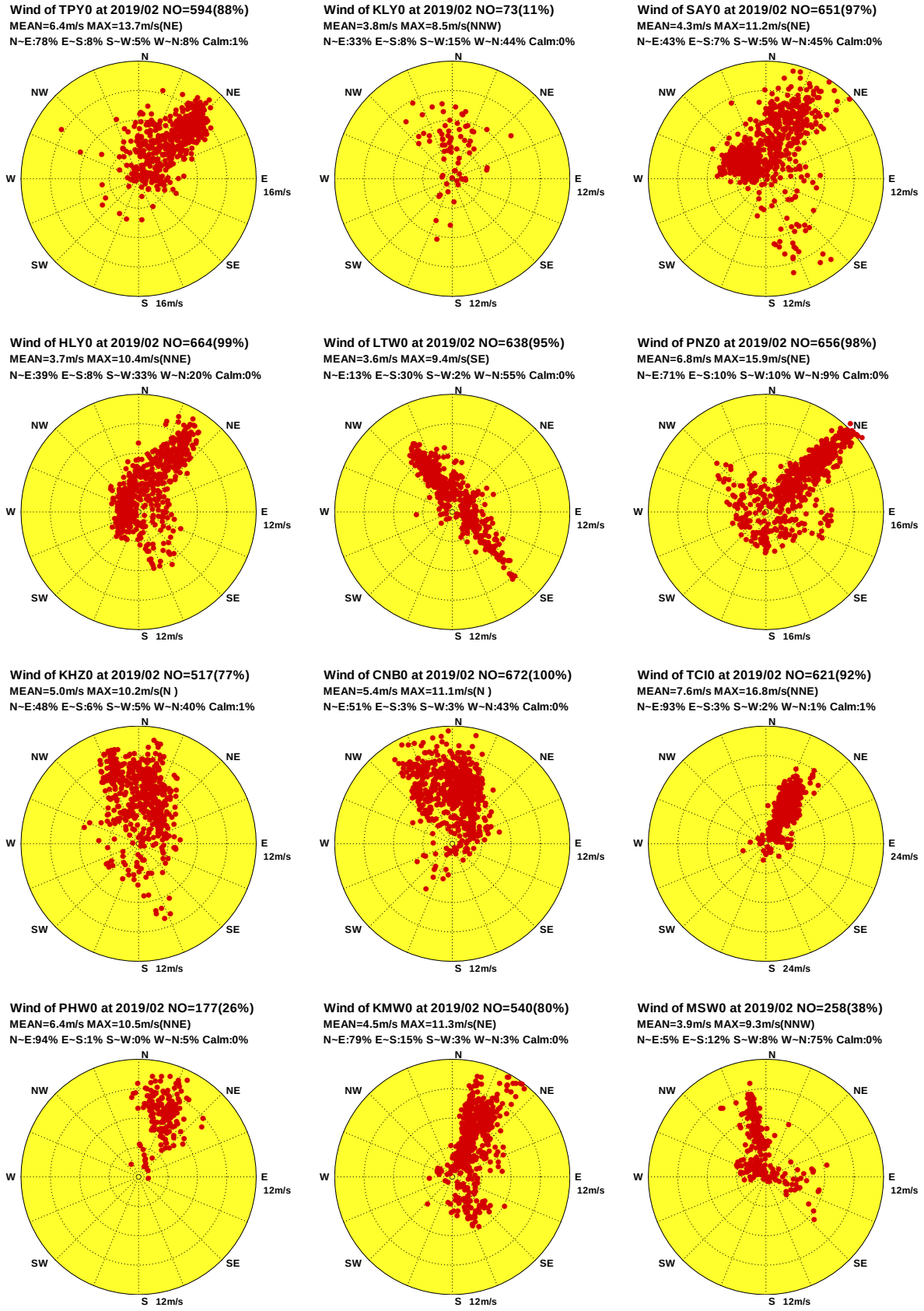

圖8.3a 2019年 2月12海域主要測站2修補前觀測風向量分佈圖

W192TPY0.1H0 W192KLY0.1H0 W192SAY0.1H0 W192HLY0.1H0 W192LTW0.1H0 W192PNZ0.1H0
W192KHZ0.1H0 W192CNB0.1H0 W192TCI0.1H0 W192PHW0.1H0 W192KMW0.1H0 W192MSW0.1H0

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Distribution of Wind Vectores

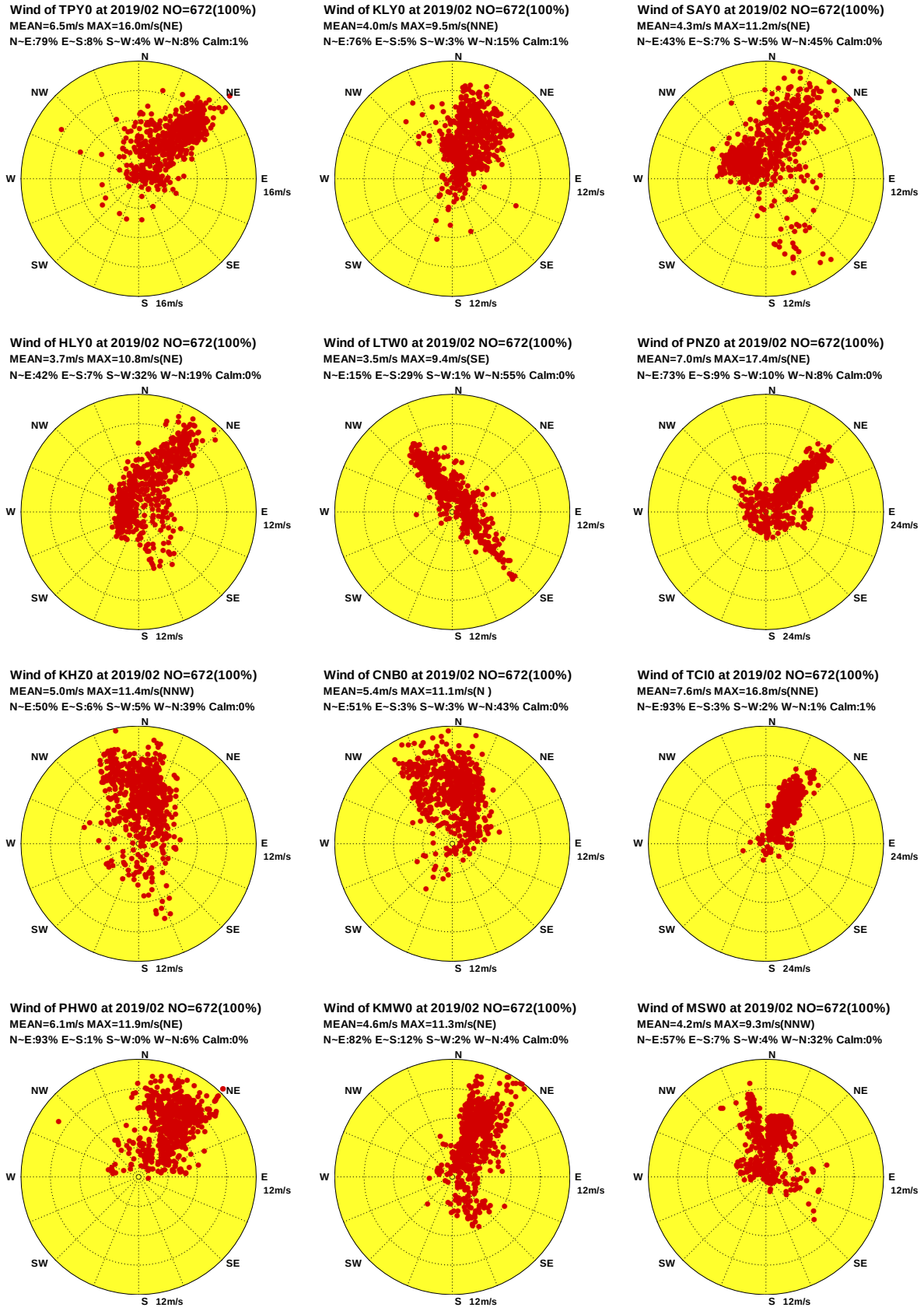

圖8.3b 2019年 2月12海域主要測站2修補後觀測風向量分佈圖

W192TPY0.1HA W192KLY0.1HA W192SAY0.1HA W192HLY0.1HA W192LTW0.1HA W192PNZ0.1HA
W192KHZ0.1HA W192CNB0.1HA W192TCI0.1HA W192PHW0.1HA W192KMW0.1HA W192MSW0.1HA

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Distribution of Wind Vectores

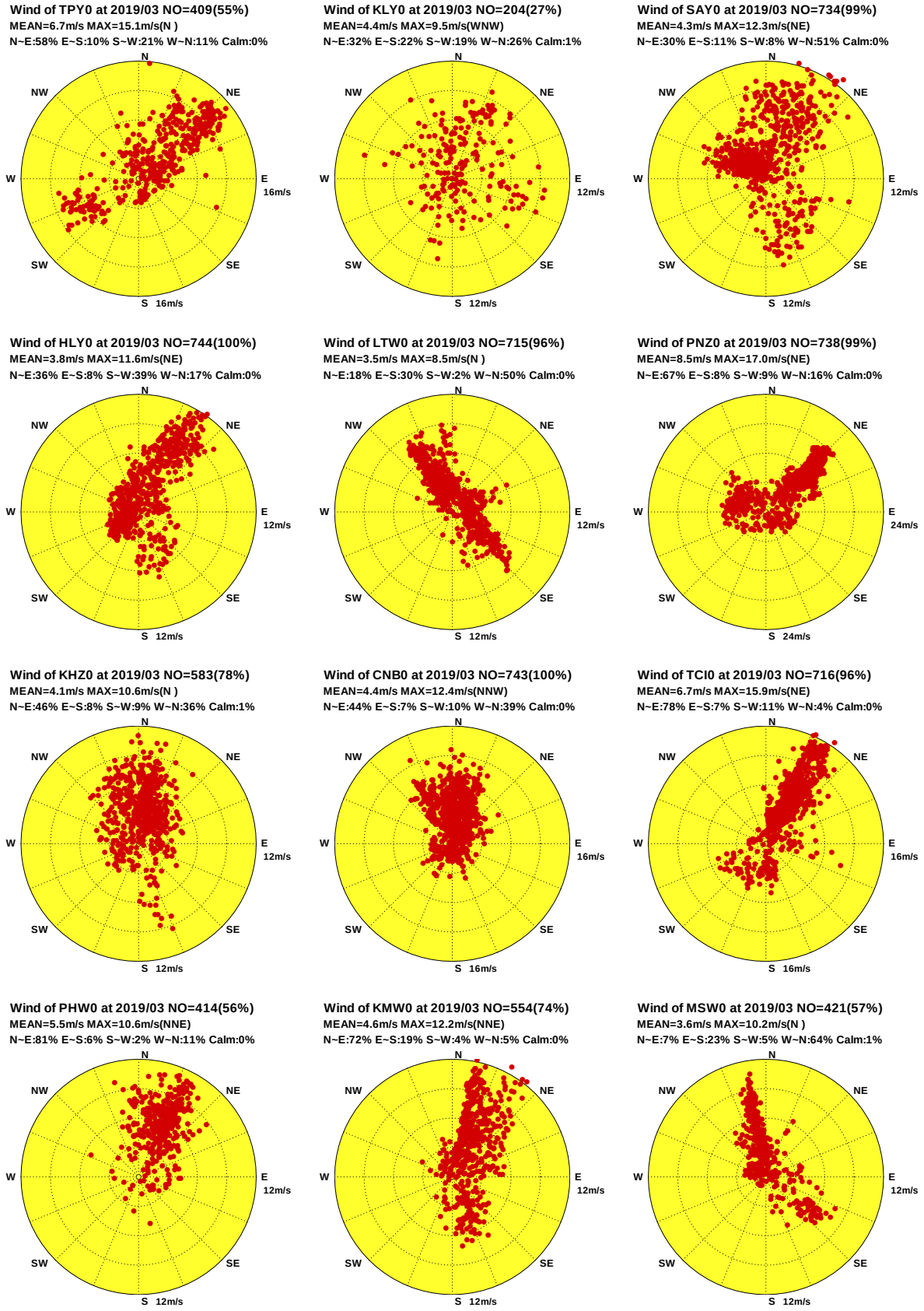

圖8.4a 2019年 3月12海域主要測站2修補前觀測風向量分佈圖

W193TPY0.1H0 W193KLY0.1H0 W193SAY0.1H0 W193HLY0.1H0 W193LTW0.1H0 W193PNZ0.1H0
W193KHZ0.1H0 W193CNB0.1H0 W193TCI0.1H0 W193PHW0.1H0 W193KMW0.1H0 W193MSW0.1H0

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Distribution of Wind Vectores

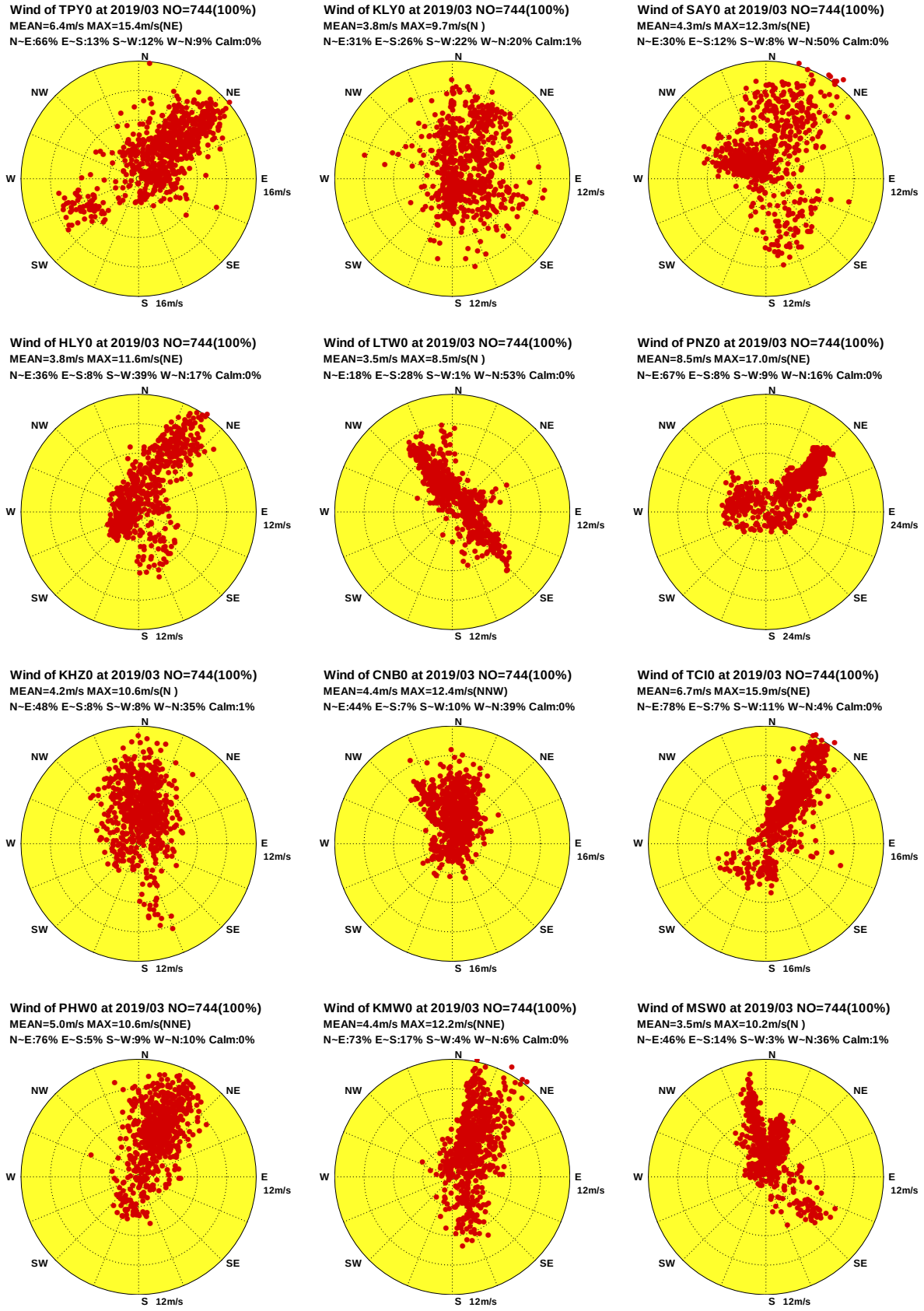

圖8.4b 2019年 3月12海域主要測站2修補後觀測風向量分佈圖

W193TPY0.1HA W193KLY0.1HA W193SAY0.1HA W193HLY0.1HA W193LTW0.1HA W193PNZ0.1HA
W193KHZ0.1HA W193CNB0.1HA W193TCI0.1HA W193PHW0.1HA W193KMW0.1HA W193MSW0.1HA

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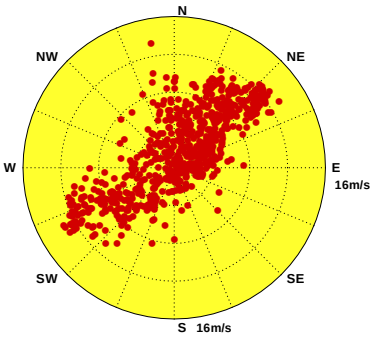
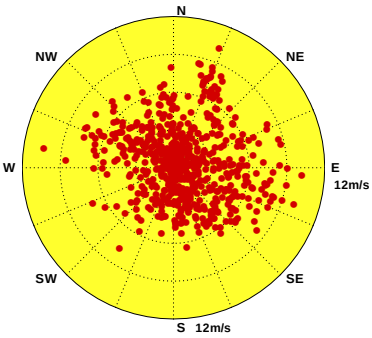
Distribution of Wind Vectores

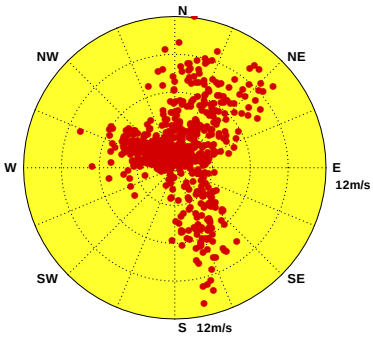
Wind of TPY0 at 2019/04 NO=694(96%)
MEAN=5.9m/s MAX=13.9m/s(WSW)
N~E:45% E~S:10% S~W:31% W~N:13% Calm:1%



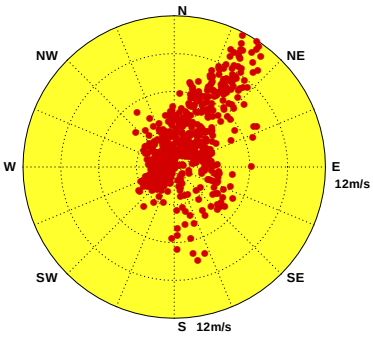
Wind of KLY0 at 2019/04 NO=707(98%)
MEAN=3.4m/s MAX=10.7m/s(W)
N~E:21% E~S:31% S~W:20% W~N:25% Calm:3%



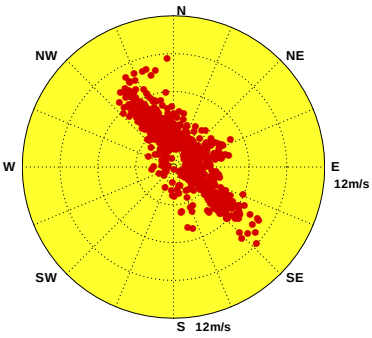
Wind of SAY0 at 2019/04 NO=715(99%)
MEAN=3.3m/s MAX=11.6m/s(N)
N~E:29% E~S:18% S~W:9% W~N:44% Calm:0%



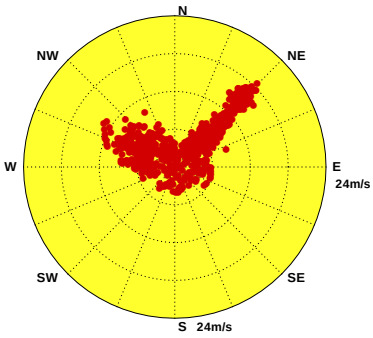
Wind of HLY0 at 2019/04 NO=720(100%)
MEAN=3.2m/s MAX=11.4m/s(NNE)
N~E:37% E~S:11% S~W:36% W~N:16% Calm:0%



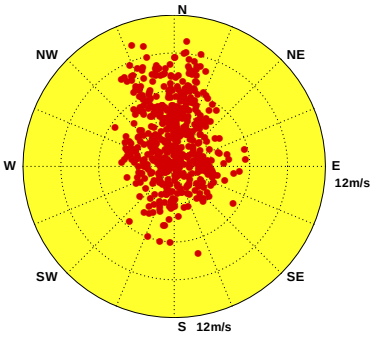
Wind of LTW0 at 2019/04 NO=720(100%)
MEAN=3.1m/s MAX=9.0m/s(SE)
N~E:21% E~S:37% S~W:3% W~N:39% Calm:0%



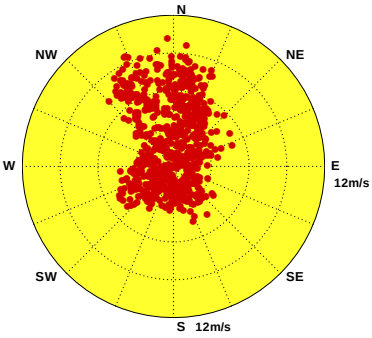
Wind of PNZ0 at 2019/04 NO=717(100%)
MEAN=6.6m/s MAX=17.5m/s(NE)
N~E:49% E~S:8% S~W:12% W~N:31% Calm:0%



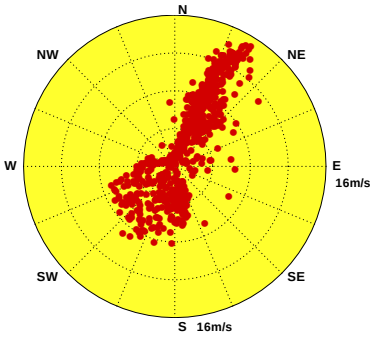
Wind of KHZ0 at 2019/04 NO=575(80%)
MEAN=3.4m/s MAX=9.9m/s(NNW)
N~E:25% E~S:13% S~W:20% W~N:40% Calm:2%



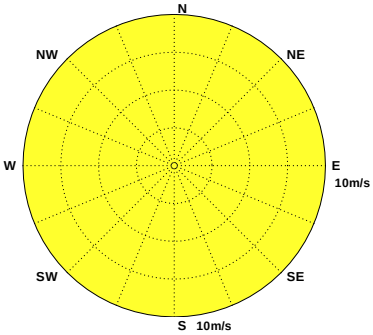
Wind of CNB0 at 2019/04 NO=720(100%)
MEAN=3.7m/s MAX=9.7m/s(N)
N~E:29% E~S:13% S~W:26% W~N:32% Calm:0%



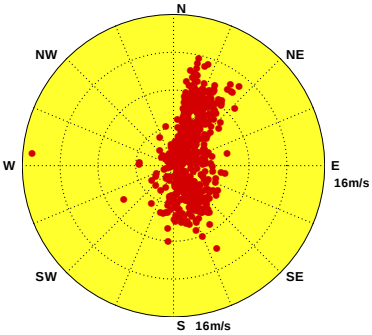
Wind of TCI0 at 2019/04 NO=705(98%)
MEAN=5.8m/s MAX=14.3m/s(NNE)
N~E:56% E~S:10% S~W:29% W~N:5% Calm:0%



Wind of PHW0 at 2019/04



Wind of KMW0 at 2019/04 NO=664(92%)
MEAN=4.0m/s MAX=15.4m/s(W)
N~E:51% E~S:31% S~W:11% W~N:7% Calm:0%



Wind of MSW0 at 2019/04 NO=552(77%)
MEAN=2.9m/s MAX=9.1m/s(NNW)
N~E:10% E~S:34% S~W:11% W~N:43% Calm:2%

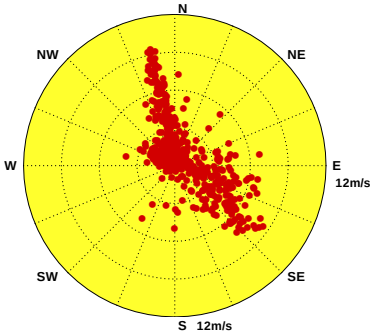


圖8.5a 2019年 4月12海域主要測站2修補前觀測風向量分佈圖

W194TPY0.1H0 W194KLY0.1H0 W194SAY0.1H0 W194HLY0.1H0 W194LTW0.1H0 W194PNZ0.1H0
W194KHZ0.1H0 W194CNB0.1H0 W194TCI0.1H0 W194PHW0.1H0 W194KMW0.1H0 W194MSW0.1H0

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Distribution of Wind Vectores

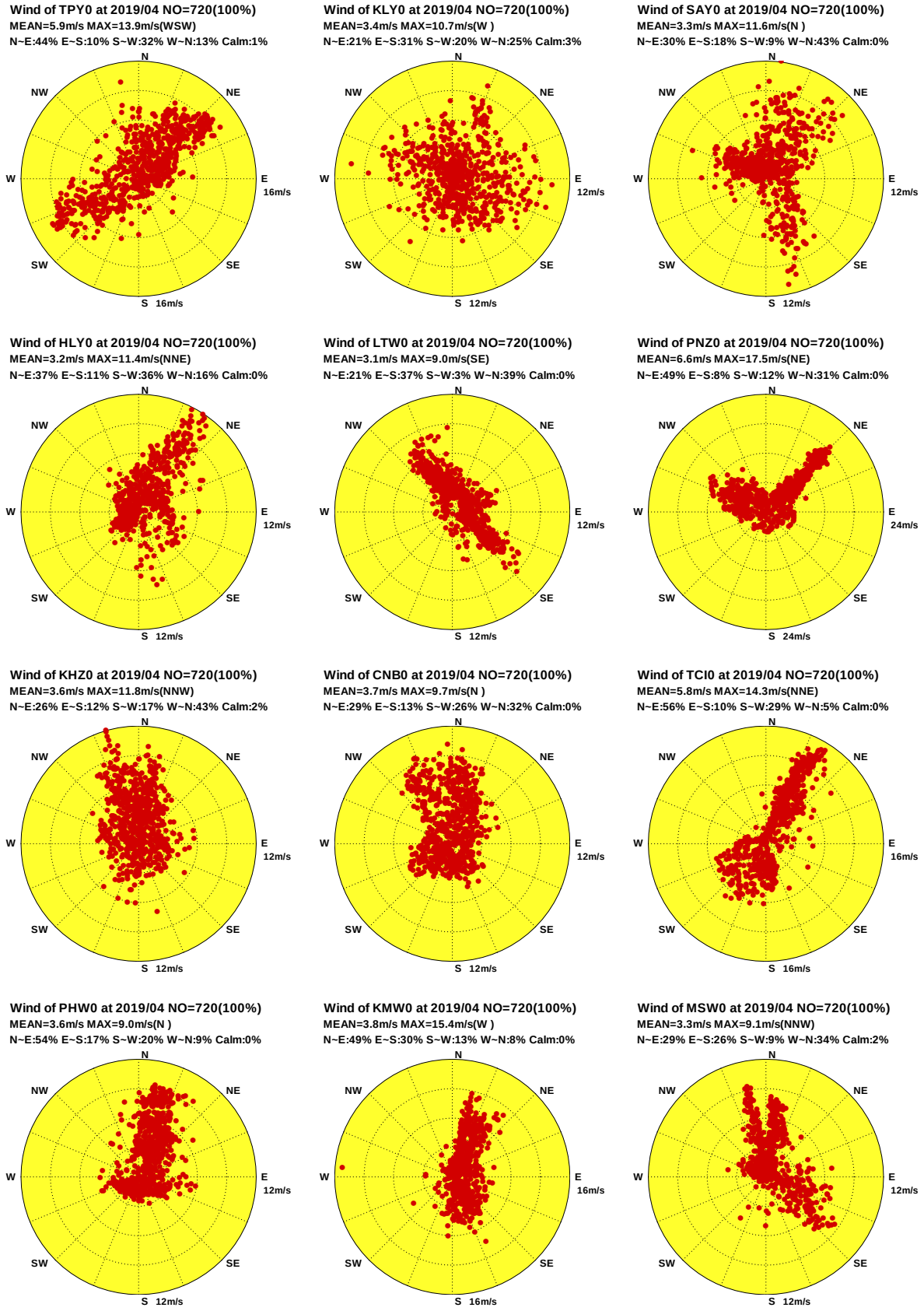

圖8.5b 2019年 4月12海域主要測站2修補後觀測風向量分佈圖

W194TPY0.1HA W194KLY0.1HA W194SAY0.1HA W194HLY0.1HA W194LTW0.1HA W194PNZ0.1HA
W194KHZ0.1HA W194CNB0.1HA W194TCI0.1HA W194PHW0.1HA W194KMW0.1HA W194MSW0.1HA

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Distribution of Wind Vectores

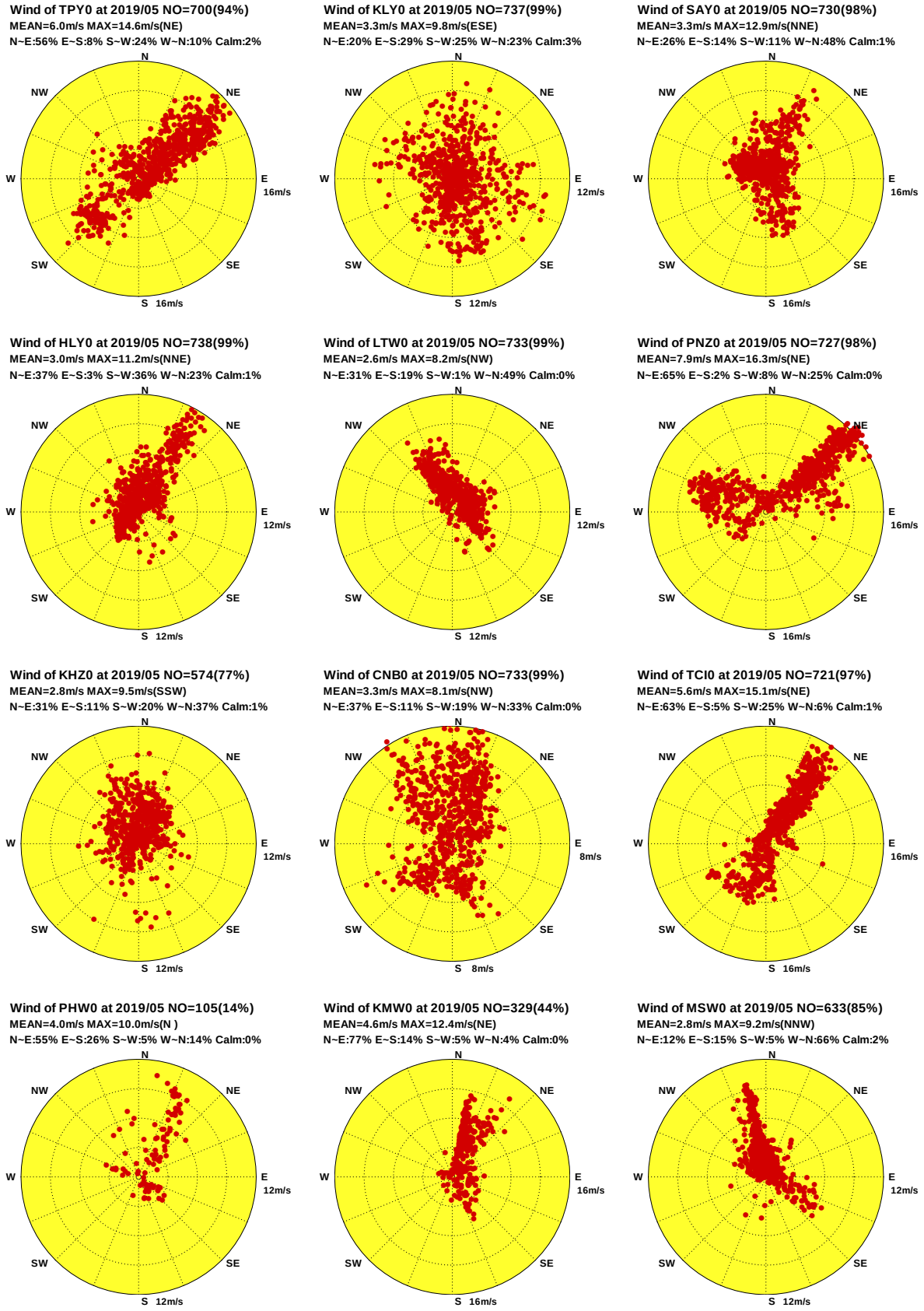

圖8.6a 2019年 5月12海域主要測站2修補前觀測風向量分佈圖

W195TPY0.1H0 W195KLY0.1H0 W195SAY0.1H0 W195HLY0.1H0 W195LTW0.1H0 W195PNZ0.1H0
W195KHZ0.1H0 W195CNB0.1H0 W195TCI0.1H0 W195PHW0.1H0 W195KMW0.1H0 W195MSW0.1H0

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Distribution of Wind Vectores

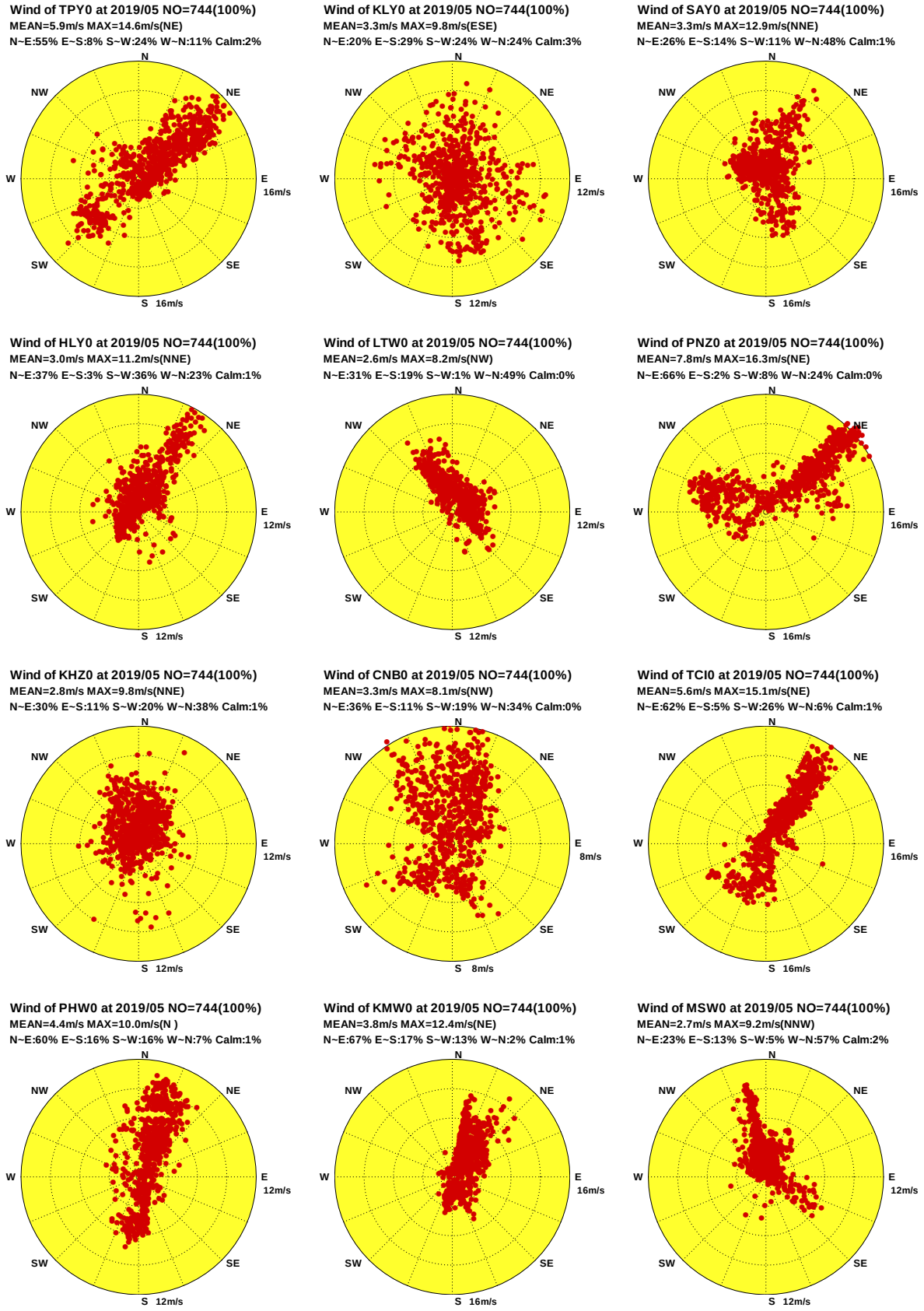

圖8.6b 2019年 5月12海域主要測站2修補後觀測風向量分佈圖

W195TPY0.1HA W195KLY0.1HA W195SAY0.1HA W195HLY0.1HA W195LTW0.1HA W195PNZ0.1HA
W195KHZ0.1HA W195CNB0.1HA W195TCI0.1HA W195PHW0.1HA W195KMW0.1HA W195MSW0.1HA

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Distribution of Wind Vectores

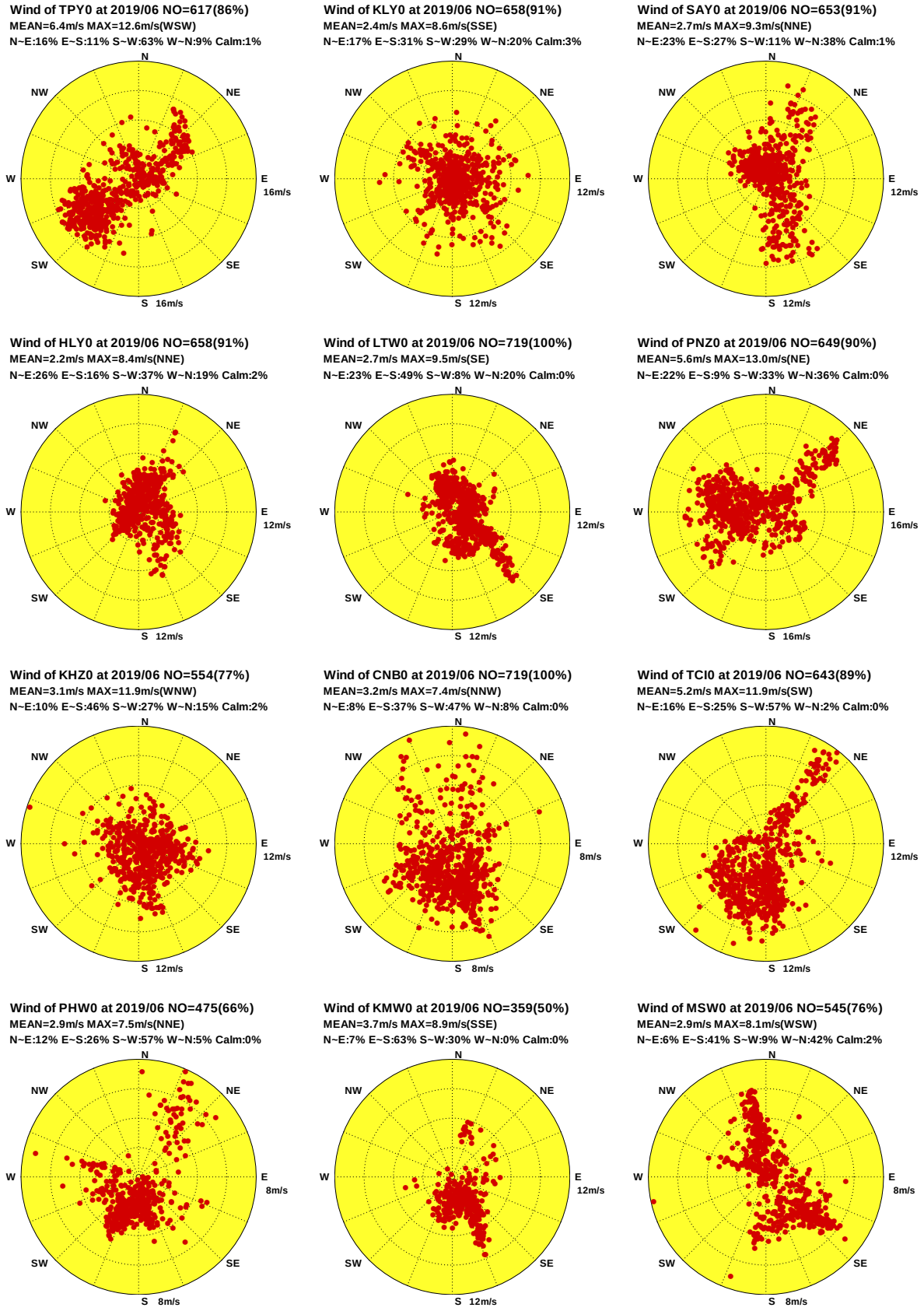

圖8.7a 2019年 6月12海域主要測站2修補前觀測風向量分佈圖

W196TPY0.1H0 W196KLY0.1H0 W196SAY0.1H0 W196HLY0.1H0 W196LTW0.1H0 W196PNZ0.1H0
W196KHZ0.1H0 W196CNB0.1H0 W196TCI0.1H0 W196PHW0.1H0 W196KMW0.1H0 W196MSW0.1H0

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Distribution of Wind Vectores

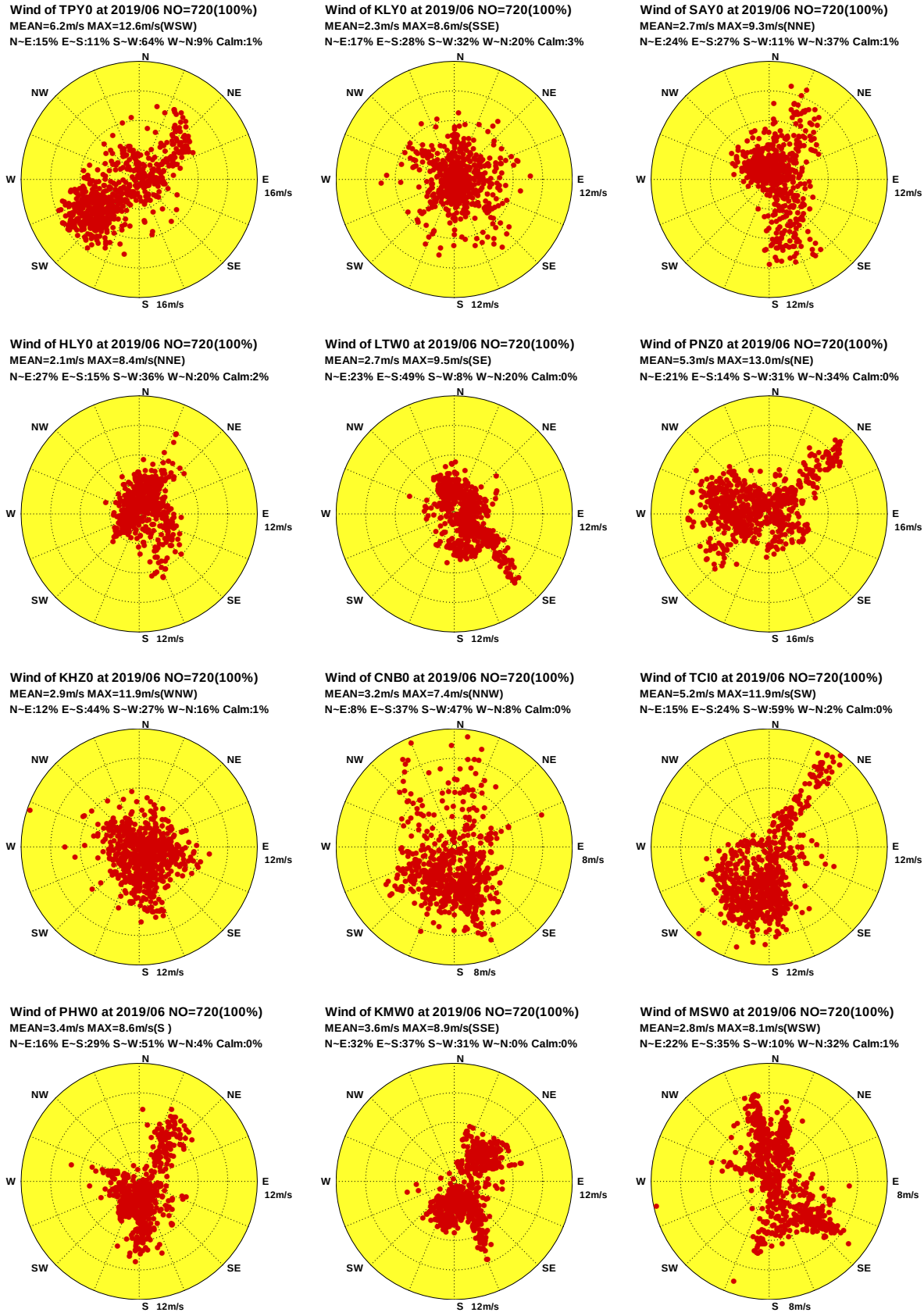

圖8.7b 2019年 6月12海域主要測站2修補後觀測風向量分佈圖

W196TPY0.1HA W196KLY0.1HA W196SAY0.1HA W196HLY0.1HA W196LTW0.1HA W196PNZ0.1HA
W196KHZ0.1HA W196CNB0.1HA W196TCI0.1HA W196PHW0.1HA W196KMW0.1HA W196MSW0.1HA

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Distribution of Wind Vectores

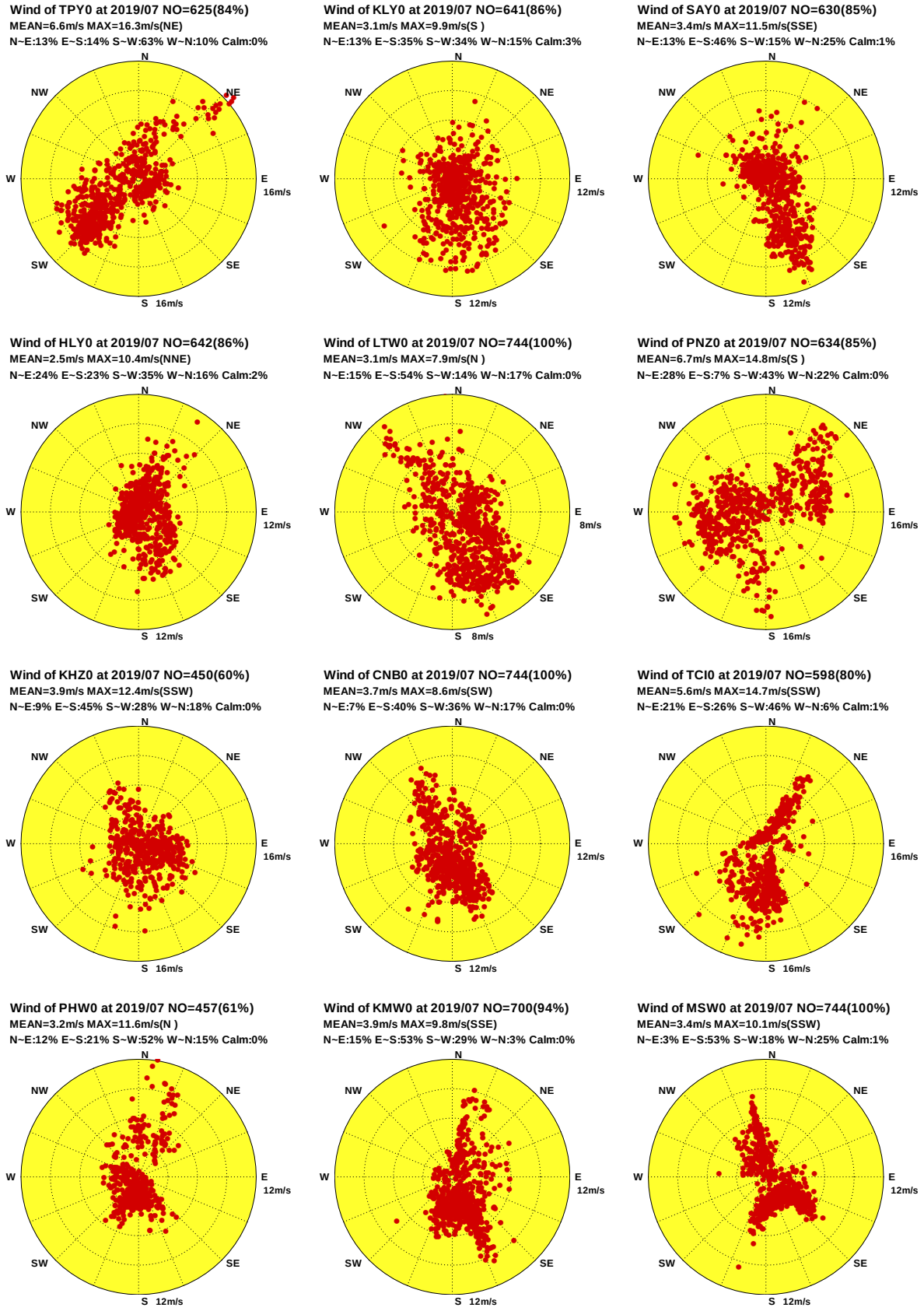

圖8.8a 2019年 7月12海域主要測站2修補前觀測風向量分佈圖

W197TPY0.1H0 W197KLY0.1H0 W197SAY0.1H0 W197HLY0.1H0 W197LTW0.1H0 W197PNZ0.1H0
W197KHZ0.1H0 W197CNB0.1H0 W197TCI0.1H0 W197PHW0.1H0 W197KMW0.1H0 W197MSW0.1H0

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Distribution of Wind Vectores

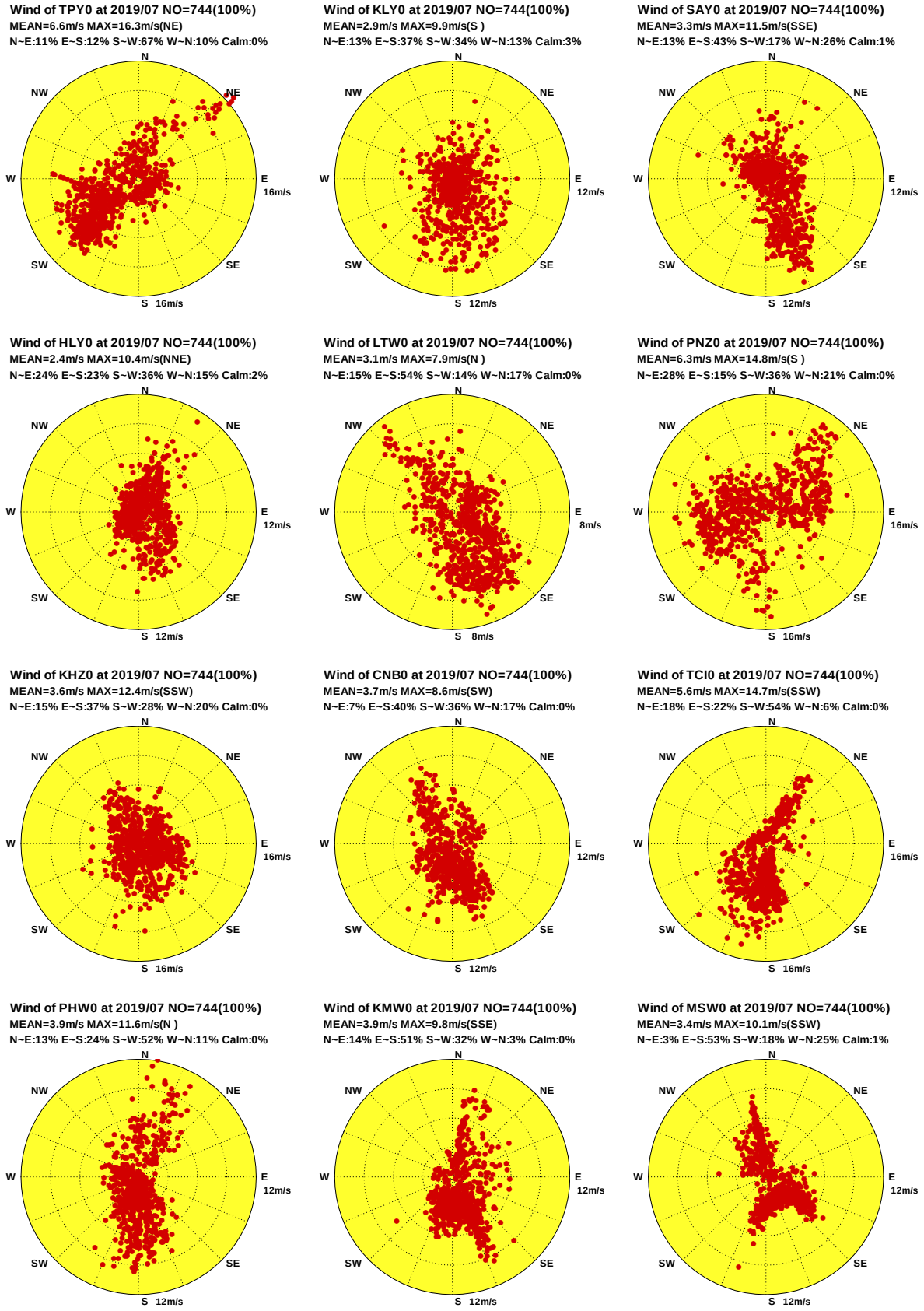

圖8.8b 2019年 7月12海域主要測站2修補後觀測風向量分佈圖

W197TPY0.1HA W197KLY0.1HA W197SAY0.1HA W197HLY0.1HA W197LTW0.1HA W197PNZ0.1HA
W197KHZ0.1HA W197CNB0.1HA W197TCI0.1HA W197PHW0.1HA W197KMW0.1HA W197MSW0.1HA

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Distribution of Wind Vectores

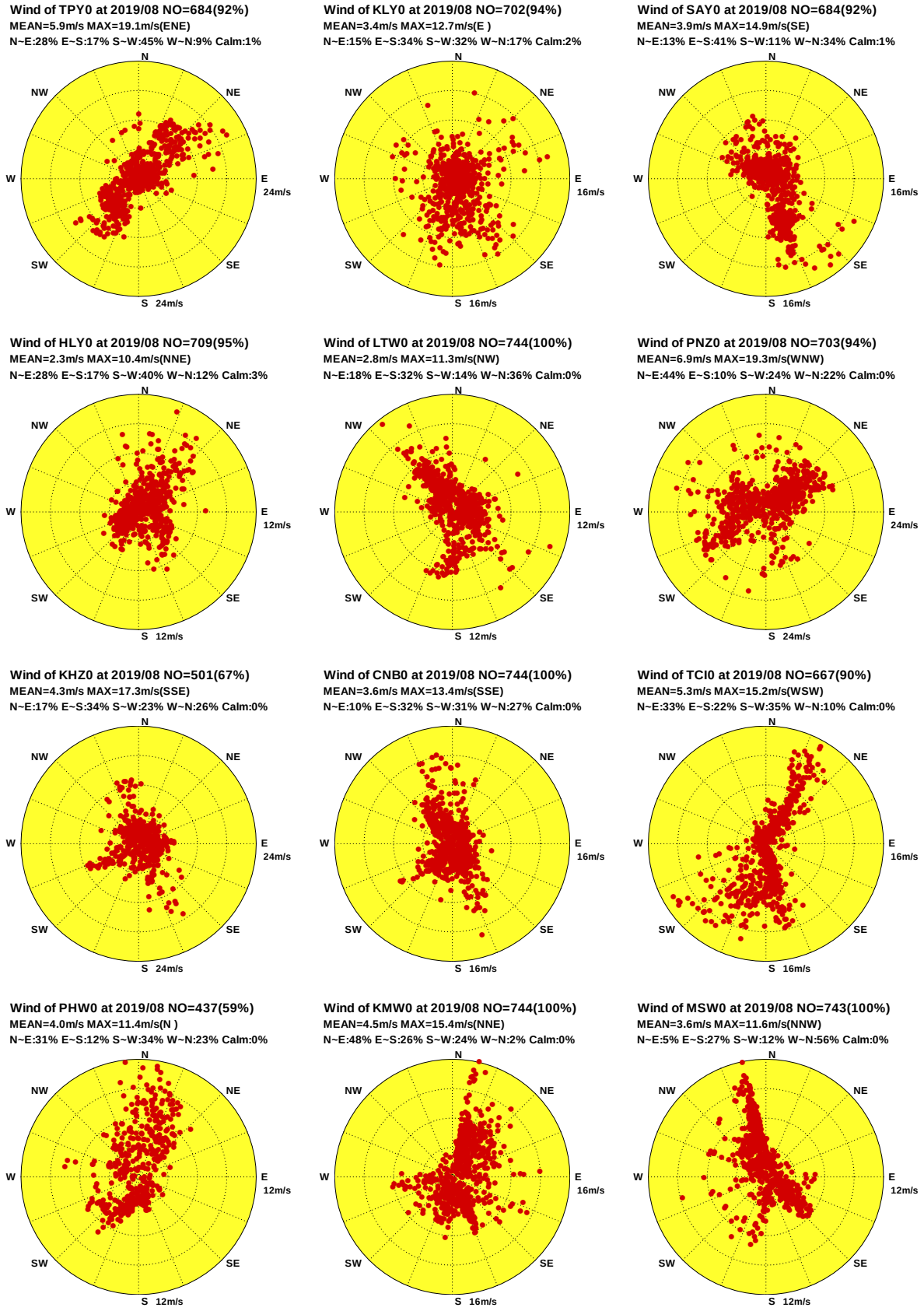

圖8.9a 2019年 8月12海域主要測站2修補前觀測風向量分佈圖

W198TPY0.1H0 W198KLY0.1H0 W198SAY0.1H0 W198HLY0.1H0 W198LTW0.1H0 W198PNZ0.1H0
W198KHZ0.1H0 W198CNB0.1H0 W198TCI0.1H0 W198PHW0.1H0 W198KMW0.1H0 W198MSW0.1H0

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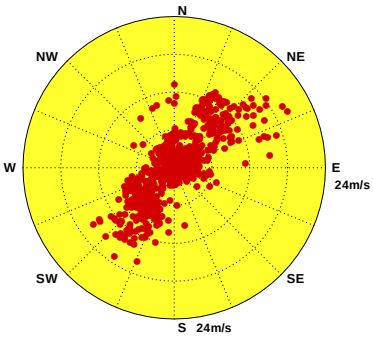
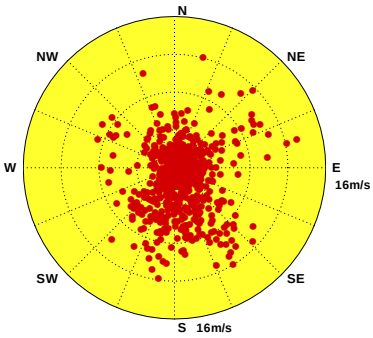
Distribution of Wind Vectores

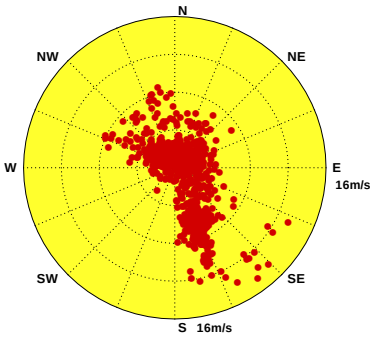
Wind of TPY0 at 2019/08 NO=744(100%)
MEAN=6.0m/s MAX=19.1m/s(ENE)
N~E:27% E~S:17% S~W:46% W~N:9% Calm:1%



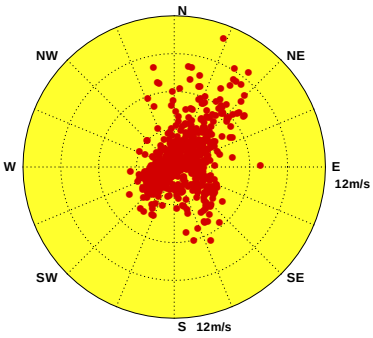
Wind of KLY0 at 2019/08 NO=744(100%)
MEAN=3.4m/s MAX=12.7m/s(E)
N~E:14% E~S:33% S~W:35% W~N:16% Calm:2%



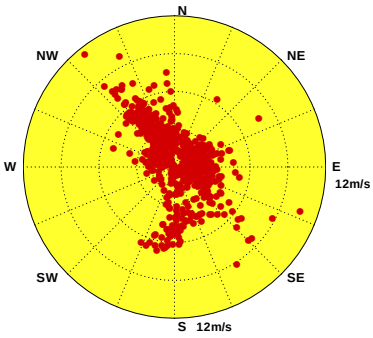
Wind of SAY0 at 2019/08 NO=744(100%)
MEAN=3.8m/s MAX=14.9m/s(SE)
N~E:13% E~S:41% S~W:12% W~N:33% Calm:1%



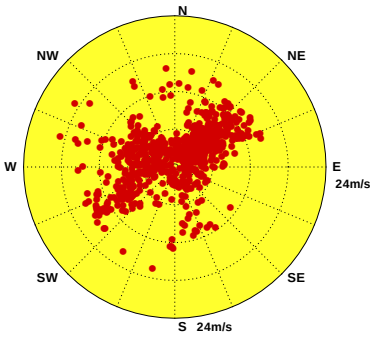
Wind of HLY0 at 2019/08 NO=744(100%)
MEAN=2.3m/s MAX=10.4m/s(NNE)
N~E:27% E~S:18% S~W:39% W~N:13% Calm:3%



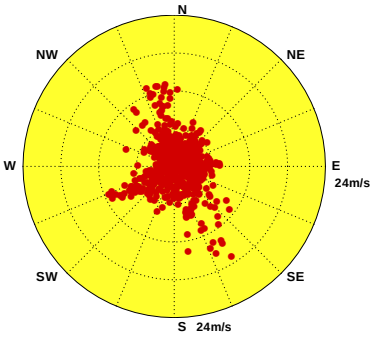
Wind of LTW0 at 2019/08 NO=744(100%)
MEAN=2.8m/s MAX=11.3m/s(NW)
N~E:17% E~S:32% S~W:14% W~N:37% Calm:0%



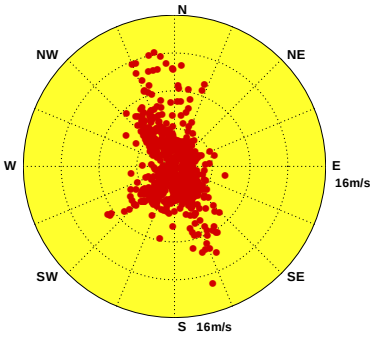
Wind of PNZ0 at 2019/08 NO=744(100%)
MEAN=6.7m/s MAX=19.3m/s(WNW)
N~E:43% E~S:11% S~W:25% W~N:21% Calm:0%



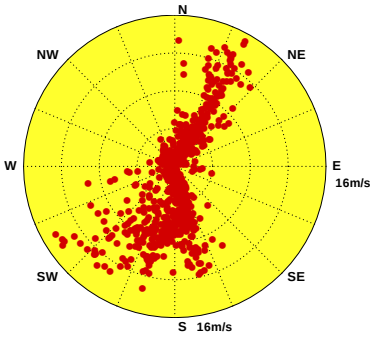
Wind of KHZ0 at 2019/08 NO=744(100%)
MEAN=4.0m/s MAX=17.3m/s(SSE)
N~E:17% E~S:31% S~W:28% W~N:24% Calm:0%



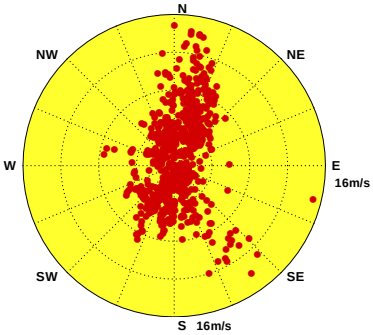
Wind of CNB0 at 2019/08 NO=744(100%)
MEAN=3.6m/s MAX=13.4m/s(SSE)
N~E:10% E~S:32% S~W:31% W~N:27% Calm:0%



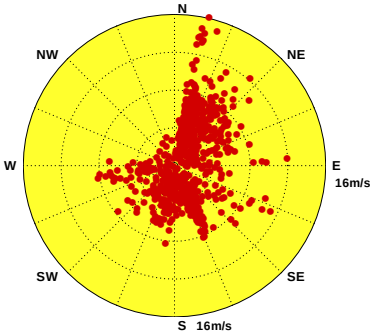
Wind of TCI0 at 2019/08 NO=744(100%)
MEAN=5.4m/s MAX=15.2m/s(WSW)
N~E:31% E~S:21% S~W:37% W~N:11% Calm:0%



Wind of PHW0 at 2019/08 NO=744(100%)
MEAN=4.5m/s MAX=14.8m/s(ESE)
N~E:30% E~S:17% S~W:33% W~N:20% Calm:0%



Wind of KMW0 at 2019/08 NO=744(100%)
MEAN=4.5m/s MAX=15.4m/s(NNE)
N~E:48% E~S:26% S~W:24% W~N:2% Calm:0%



Wind of MSW0 at 2019/08 NO=744(100%)
MEAN=3.6m/s MAX=11.6m/s(NNW)
N~E:5% E~S:27% S~W:11% W~N:57% Calm:0%

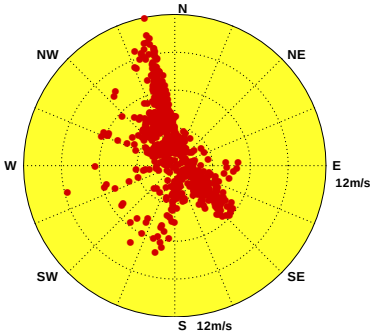


圖8.9b 2019年 8月12海域主要測站2修補後觀測風向量分佈圖

W198TPY0.1HA W198KLY0.1HA W198SAY0.1HA W198HLY0.1HA W198LTW0.1HA W198PNZ0.1HA
W198KHZ0.1HA W198CNB0.1HA W198TCI0.1HA W198PHW0.1HA W198KMW0.1HA W198MSW0.1HA

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Distribution of Wind Vectores

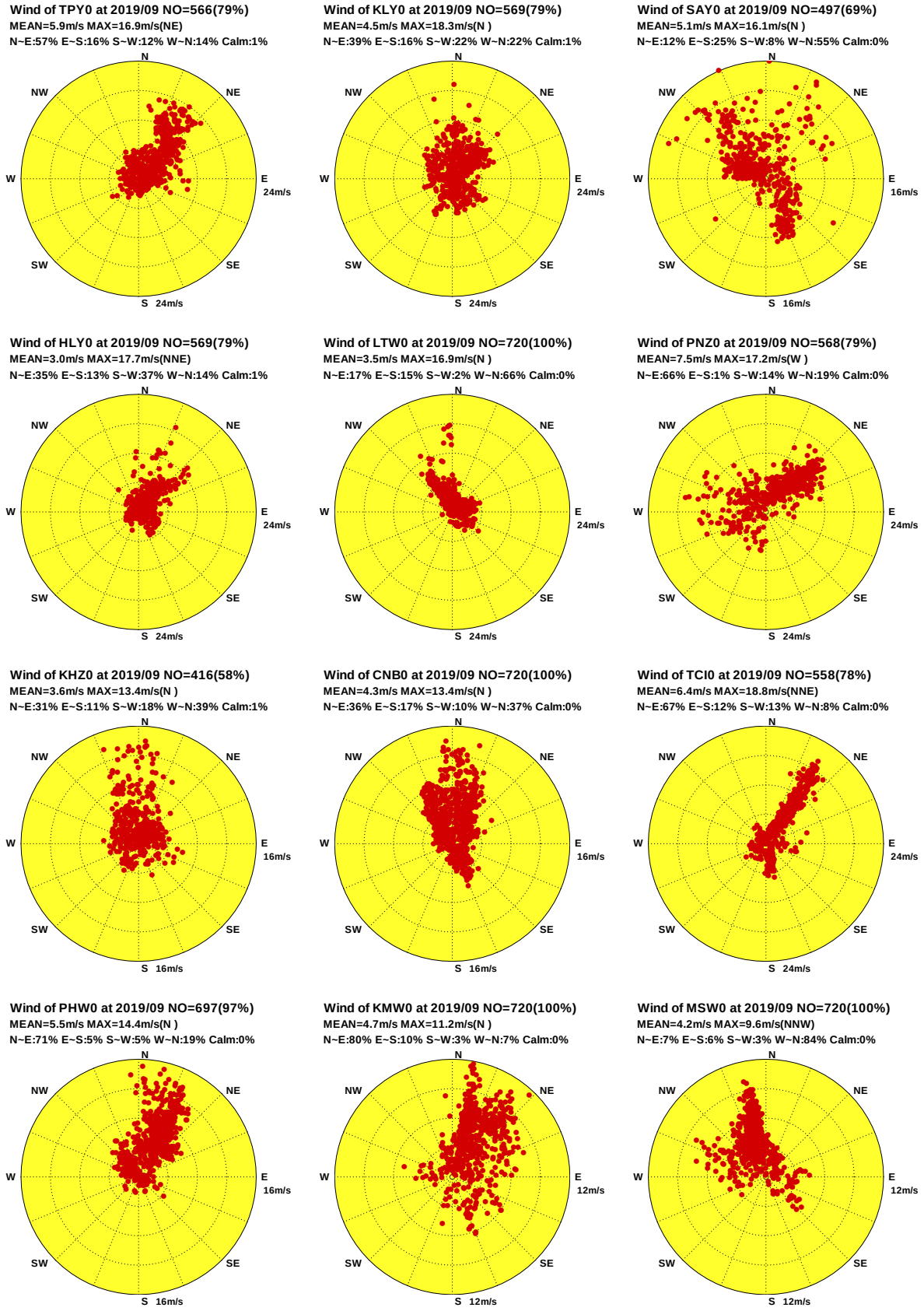

圖8.10a 2019年 9月12海域主要測站2修補前觀測風向量分佈圖

W199TPY0.1H0 W199KLY0.1H0 W199SAY0.1H0 W199HLY0.1H0 W199LTW0.1H0 W199PNZ0.1H0
W199KHZ0.1H0 W199CNB0.1H0 W199TCI0.1H0 W199PHW0.1H0 W199KMW0.1H0 W199MSW0.1H0

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Distribution of Wind Vectores

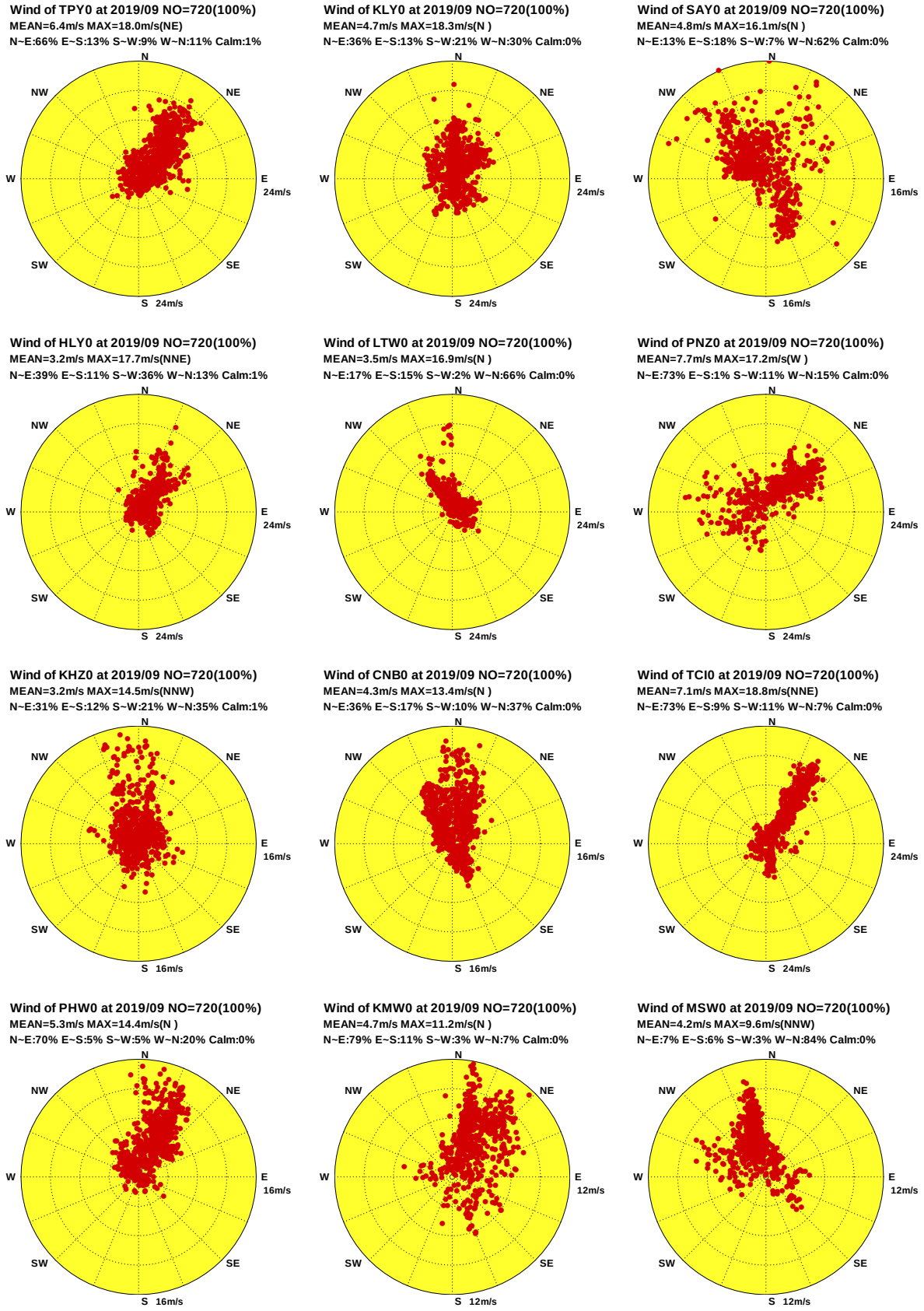

圖8.10b 2019年 9月12海域主要測站2修補後觀測風向量分佈圖

W199TPY0.1HA W199KLY0.1HA W199SAY0.1HA W199HLY0.1HA W199LTW0.1HA W199PNZ0.1HA
W199KHZ0.1HA W199CNB0.1HA W199TCI0.1HA W199PHW0.1HA W199KMW0.1HA W199MSW0.1HA

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Distribution of Wind Vectores

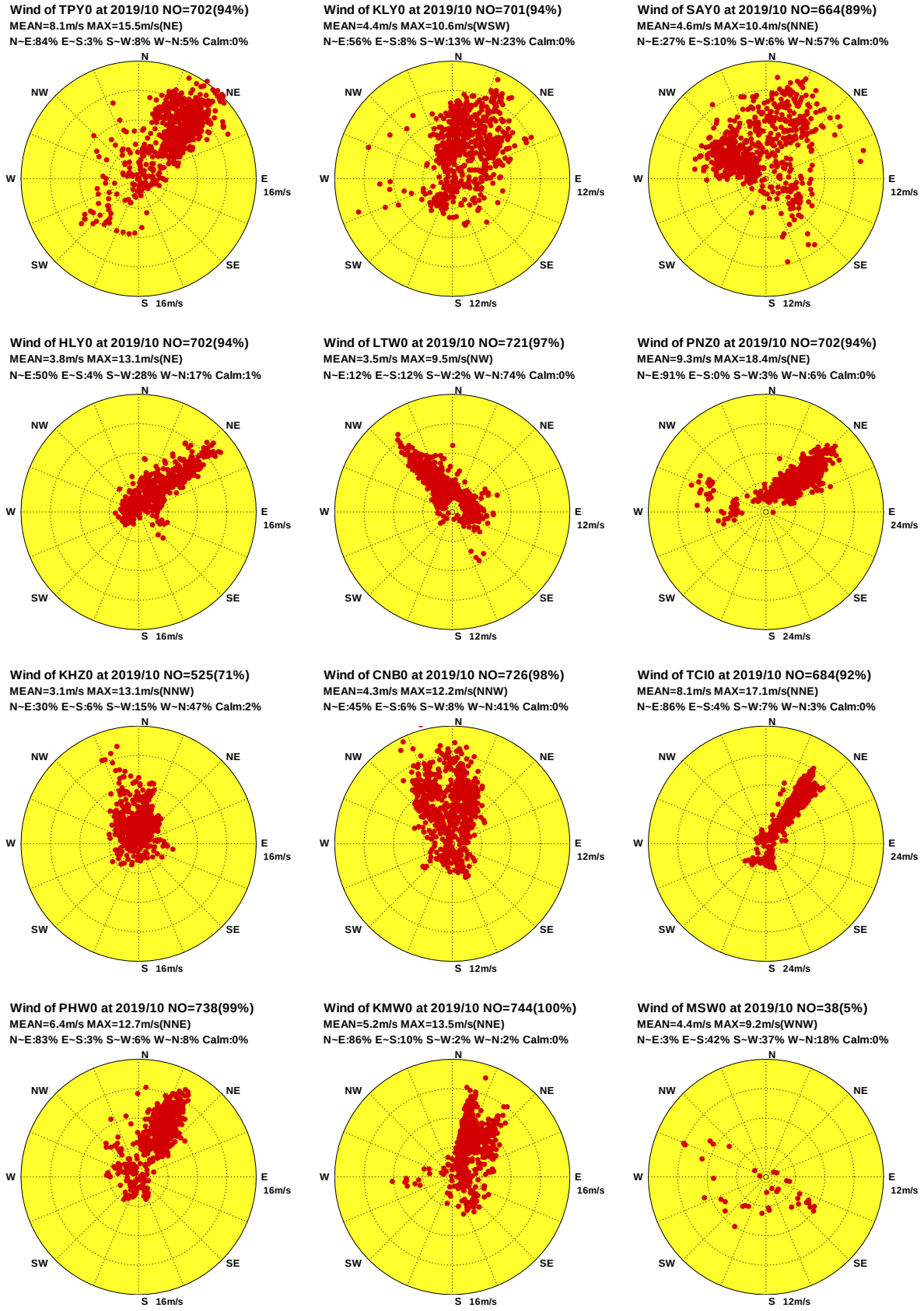

圖8.11a 2019年10月12海域主要測站2修補前觀測風向量分佈圖

W19ATPY0.1H0 W19AKLY0.1H0 W19ASAY0.1H0 W19AHLY0.1H0 W19ALTW0.1H0 W19APNZ0.1H0
W19AKHZ0.1H0 W19ACNB0.1H0 W19ATCI0.1H0 W19APHW0.1H0 W19AKMW0.1H0 W19AMSW0.1H0

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Distribution of Wind Vectores

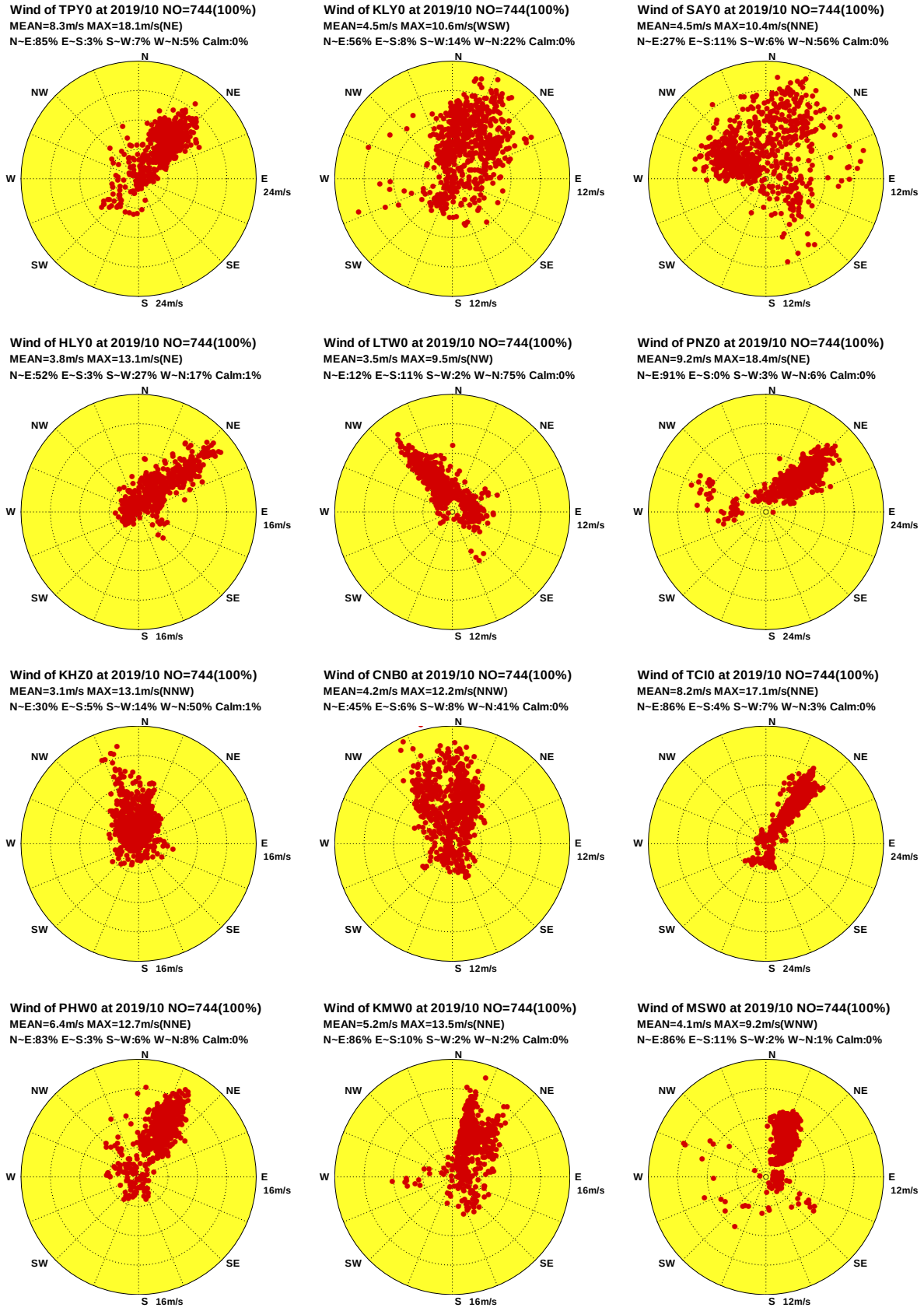

圖8.11b 2019年10月12海域主要測站2修補後觀測風向量分佈圖

W19ATPY0.1HA W19AKLY0.1HA W19ASAY0.1HA W19AHLY0.1HA W19ALTW0.1HA W19APNZ0.1HA
W19AKHZ0.1HA W19ACNB0.1HA W19ATCI0.1HA W19APHW0.1HA W19AKMW0.1HA W19AMSW0.1HA

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Distribution of Wind Vectores

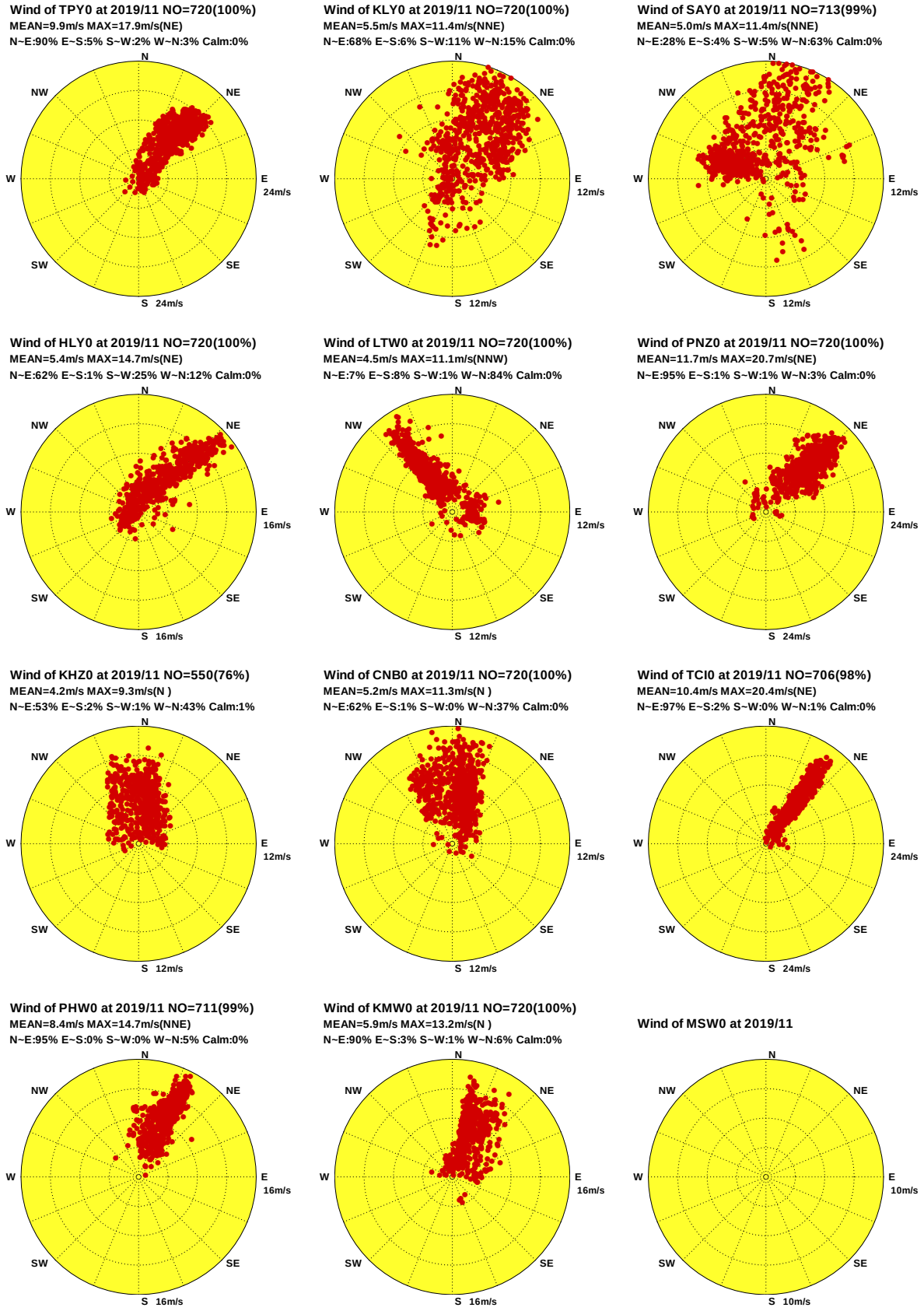

圖8.12a 2019年11月12海域主要測站2修補前觀測風向量分佈圖

W19BTPY0.1H0 W19BKLY0.1H0 W19BSAY0.1H0 W19BHLY0.1H0 W19BLTW0.1H0 W19BPNZ0.1H0
W19BKHZ0.1H0 W19BCNB0.1H0 W19BTCI0.1H0 W19BPHW0.1H0 W19BKMW0.1H0 W19BMSW0.1H0

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Distribution of Wind Vectores

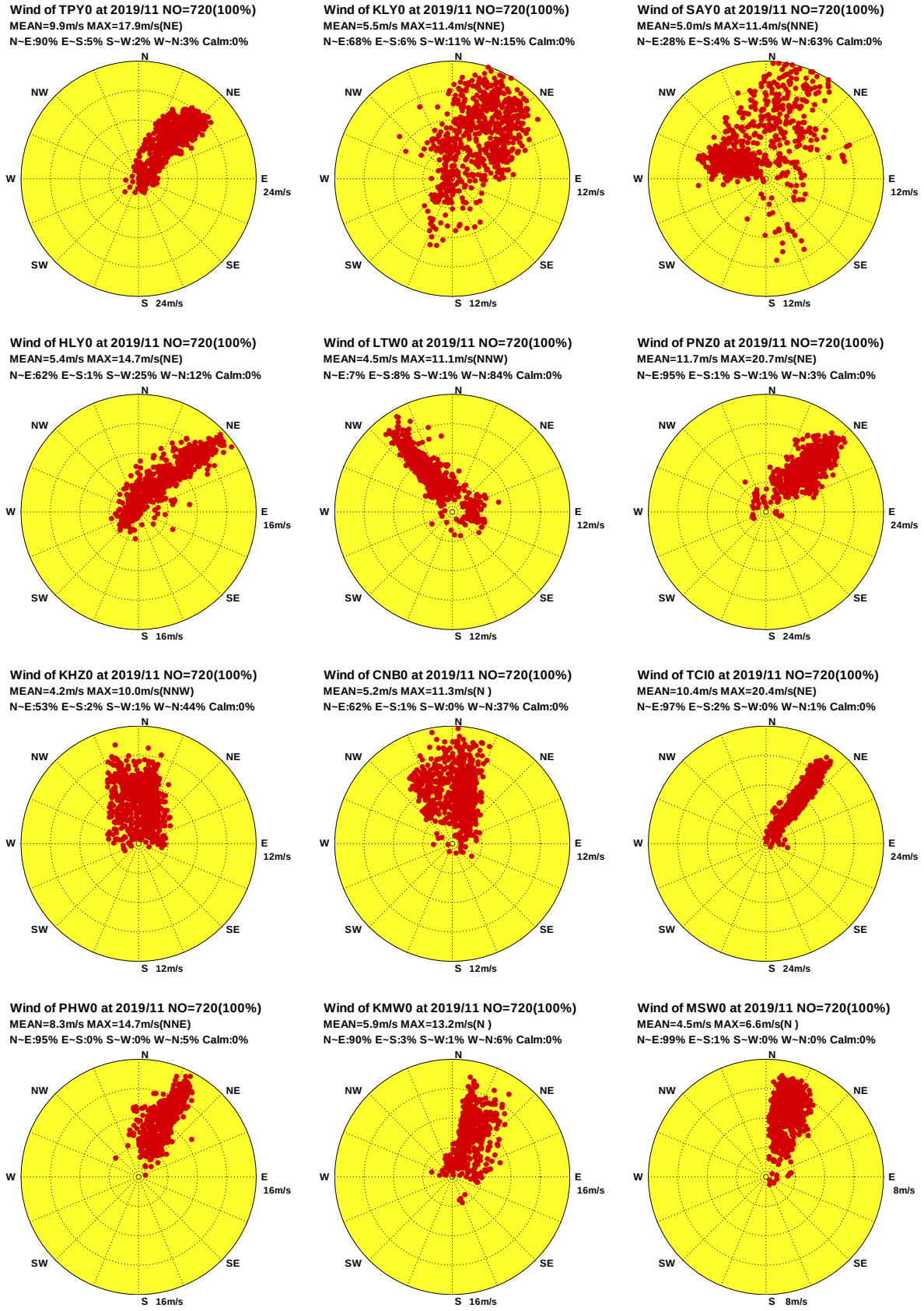

圖8.12b 2019年11月12海域主要測站2修補後觀測風向量分佈圖

W19BTPY0.1HA W19BKLY0.1HA W19BSAY0.1HA W19BHLY0.1HA W19BLTW0.1HA W19BPNZ0.1HA
W19BKHZ0.1HA W19BCNB0.1HA W19BTCI0.1HA W19BPHW0.1HA W19BKMW0.1HA W19BMSW0.1HA

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第九章 2019 年 12 海域風力主要測站 2 修補前後風力向量行進圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

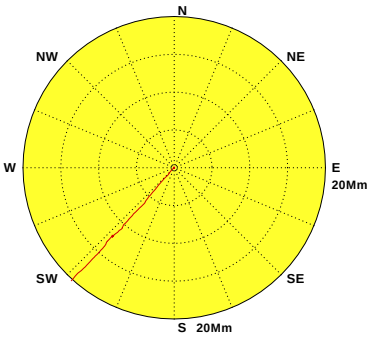
(澎湖海域)

(金門海域)

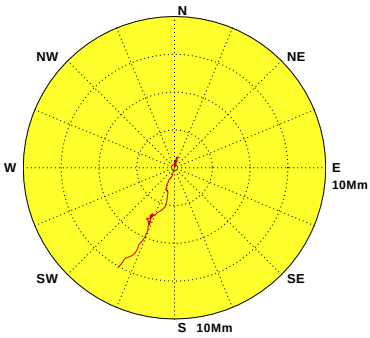
(馬祖海域)

Progressive Vector Diagram of Wind

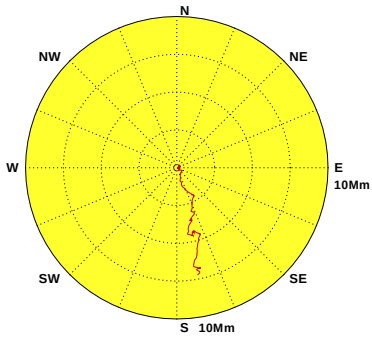
Wind of TPY0 at 2018/12 NO=662(89%)
MEAN=9.1m/s MAX=17.7m/s(NE)
N~E:80% E~S:10% S~W:5% W~N:4% Calm:1%



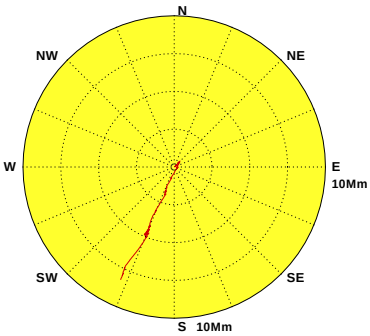
Wind of KLY0 at 2018/12 NO=623(84%)
MEAN=5.5m/s MAX=11.9m/s(NE)
N~E:59% E~S:8% S~W:22% W~N:11% Calm:0%



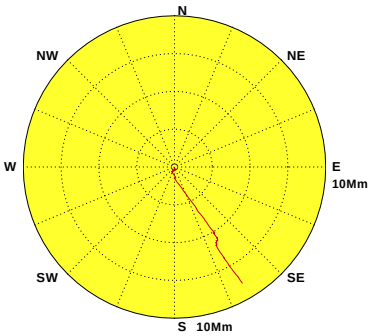
Wind of SAY0 at 2018/12 NO=664(89%)
MEAN=5.0m/s MAX=12.0m/s(NNE)
N~E:32% E~S:7% S~W:6% W~N:55% Calm:0%



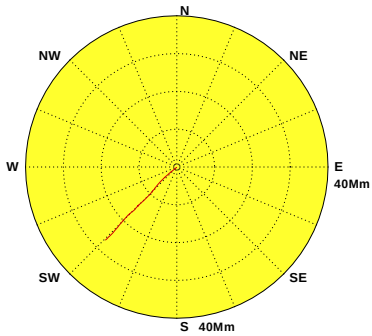
Wind of HLY0 at 2018/12 NO=653(88%)
MEAN=5.4m/s MAX=13.1m/s(NE)
N~E:56% E~S:5% S~W:30% W~N:9% Calm:0%



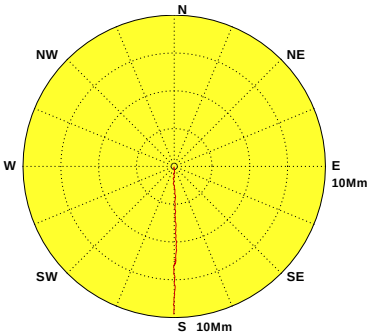
Wind of LTW0 at 2018/12 NO=636(85%)
MEAN=4.5m/s MAX=10.8m/s(NNW)
N~E:17% E~S:6% S~W:0% W~N:77% Calm:0%



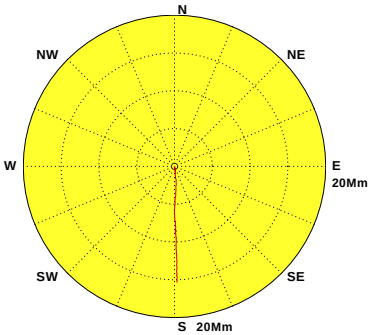
Wind of PNZ0 at 2018/12 NO=661(89%)
MEAN=11.5m/s MAX=19.4m/s(NE)
N~E:98% E~S:0% S~W:0% W~N:2% Calm:0%



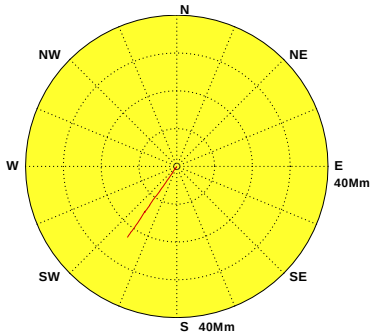
Wind of KHZ0 at 2018/12 NO=577(78%)
MEAN=5.1m/s MAX=10.3m/s(N)
N~E:60% E~S:1% S~W:1% W~N:38% Calm:0%



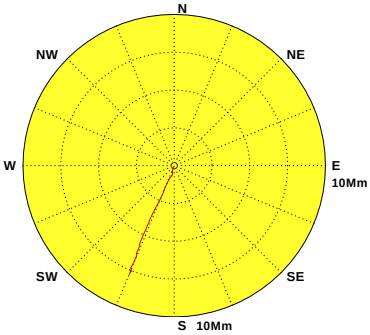
Wind of CNB0 at 2018/12 NO=743(100%)
MEAN=6.1m/s MAX=12.4m/s(N)
N~E:54% E~S:2% S~W:1% W~N:43% Calm:0%



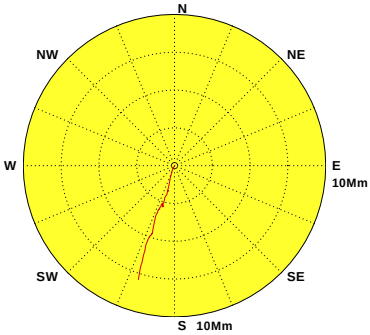
Wind of TCI0 at 2018/12 NO=617(83%)
MEAN=10.5m/s MAX=20.0m/s(NNE)
N~E:93% E~S:2% S~W:2% W~N:2% Calm:1%



Wind of PHW0 at 2018/12 NO=346(47%)
MEAN=6.5m/s MAX=13.3m/s(N)
N~E:86% E~S:3% S~W:1% W~N:10% Calm:0%



Wind of KMW0 at 2018/12 NO=430(58%)
MEAN=5.7m/s MAX=13.4m/s(N)
N~E:83% E~S:6% S~W:3% W~N:8% Calm:0%



Wind of MSW0 at 2018/12 NO=286(38%)
MEAN=3.0m/s MAX=10.3m/s(NNW)
N~E:12% E~S:11% S~W:10% W~N:66% Calm:1%

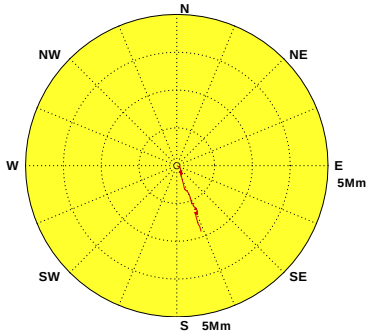


圖9.1a 2018年12月12海域主要測站2修補前觀測風向量行進圖

W18CTPY0.1H0 W18CKLY0.1H0 W18CSAY0.1H0 W18CHLY0.1H0 W18CLTW0.1H0 W18CPNZ0.1H0
W18CKHZ0.1H0 W18CCNB0.1H0 W18CTCI0.1H0 W18CPHW0.1H0 W18CKMW0.1H0 W18CMSW0.1H0

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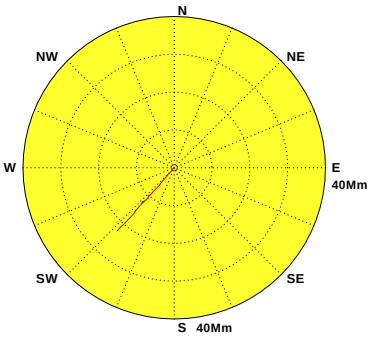
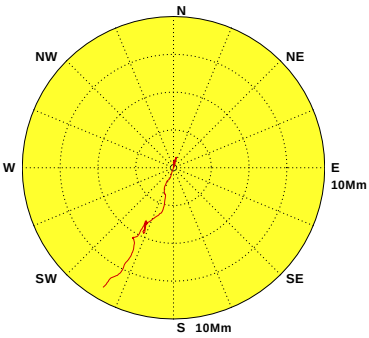
Progressive Vector Diagram of Wind

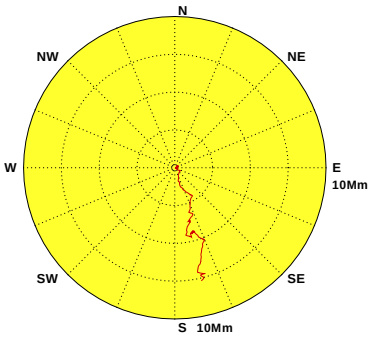
Wind of TPY0 at 2018/12 NO=744(100%)
MEAN=9.0m/s MAX=18.5m/s(NE)
N~E:81% E~S:10% S~W:4% W~N:4% Calm:1%



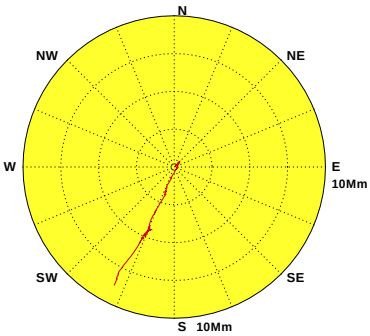
Wind of KLY0 at 2018/12 NO=744(100%)
MEAN=5.3m/s MAX=11.9m/s(NE)
N~E:62% E~S:8% S~W:19% W~N:10% Calm:1%



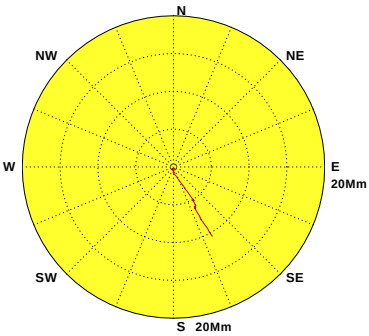
Wind of SAY0 at 2018/12 NO=744(100%)
MEAN=4.8m/s MAX=12.0m/s(NNE)
N~E:30% E~S:9% S~W:6% W~N:55% Calm:0%



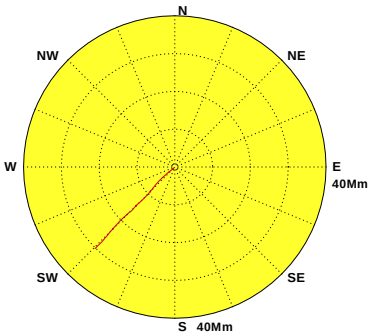
Wind of HLY0 at 2018/12 NO=744(100%)
MEAN=5.2m/s MAX=13.1m/s(NE)
N~E:54% E~S:6% S~W:30% W~N:10% Calm:0%



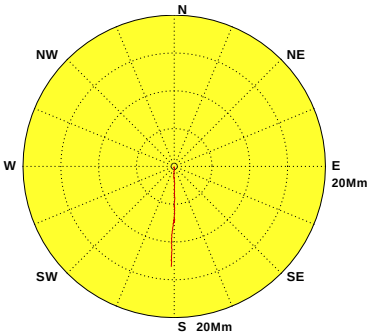
Wind of LTW0 at 2018/12 NO=744(100%)
MEAN=4.4m/s MAX=10.8m/s(NNW)
N~E:15% E~S:6% S~W:0% W~N:79% Calm:0%



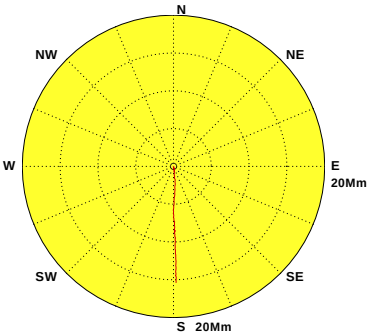
Wind of PNZ0 at 2018/12 NO=744(100%)
MEAN=11.4m/s MAX=19.4m/s(NE)
N~E:98% E~S:0% S~W:0% W~N:2% Calm:0%



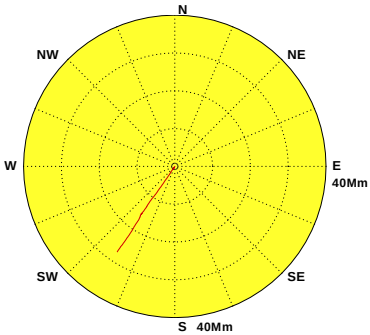
Wind of KHZ0 at 2018/12 NO=744(100%)
MEAN=5.3m/s MAX=10.9m/s(N)
N~E:61% E~S:1% S~W:1% W~N:37% Calm:0%



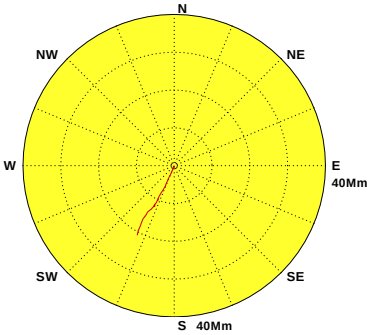
Wind of CNB0 at 2018/12 NO=744(100%)
MEAN=6.1m/s MAX=12.4m/s(N)
N~E:54% E~S:2% S~W:1% W~N:43% Calm:0%



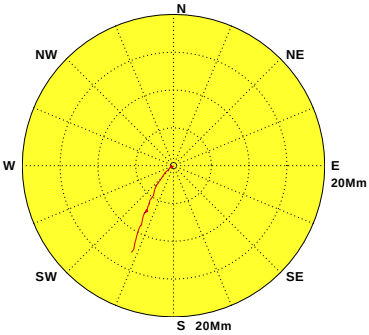
Wind of TCI0 at 2018/12 NO=744(100%)
MEAN=10.4m/s MAX=20.0m/s(NNE)
N~E:94% E~S:2% S~W:2% W~N:1% Calm:1%



Wind of PHW0 at 2018/12 NO=744(100%)
MEAN=8.1m/s MAX=14.9m/s(NE)
N~E:93% E~S:2% S~W:0% W~N:5% Calm:0%



Wind of KMW0 at 2018/12 NO=744(100%)
MEAN=5.4m/s MAX=13.4m/s(N)
N~E:83% E~S:6% S~W:4% W~N:7% Calm:0%



Wind of MSW0 at 2018/12 NO=744(100%)
MEAN=5.0m/s MAX=10.3m/s(NNW)
N~E:57% E~S:4% S~W:4% W~N:35% Calm:0%

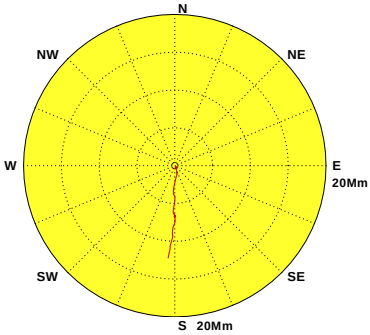


圖9.1b 2018年12月12海域主要測站2修補後觀測風向量行進圖

W18CTPY0.1HA W18CKLY0.1HA W18CSAY0.1HA W18CHLY0.1HA W18CLTW0.1HA W18CPNZ0.1HA
W18CKHZ0.1HA W18CCNB0.1HA W18CTCI0.1HA W18CPHW0.1HA W18CKMW0.1HA W18CMSW0.1HA

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Progressive Vector Diagram of Wind

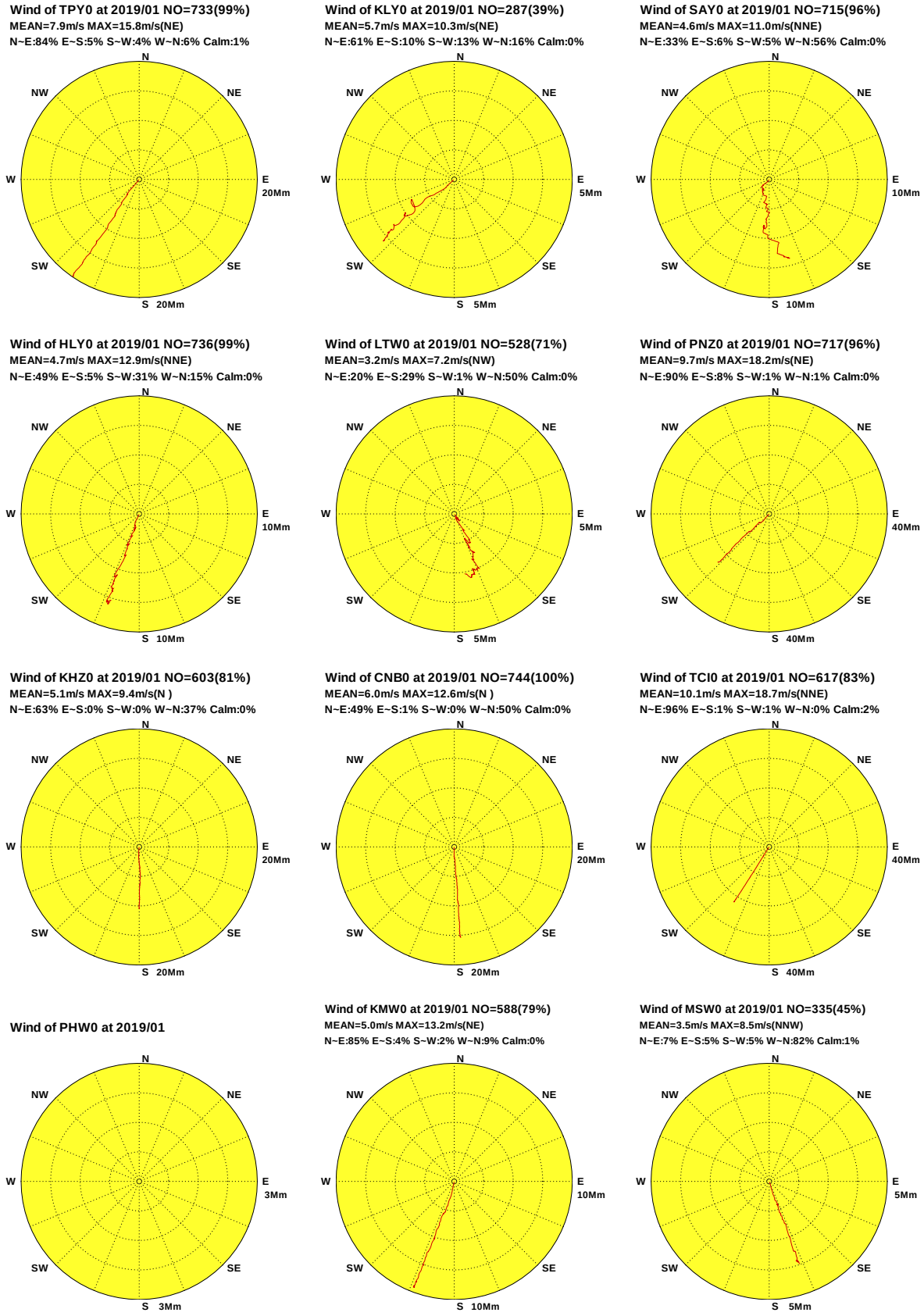

圖9.2a 2019年 1月12海域主要測站2修補前觀測風向量行進圖

W191TPY0.1H0 W191KLY0.1H0 W191SAY0.1H0 W191HLY0.1H0 W191LTW0.1H0 W191PNZ0.1H0
W191KHZ0.1H0 W191CNB0.1H0 W191TCI0.1H0 W191PHW0.1H0 W191KMW0.1H0 W191MSW0.1H0

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Progressive Vector Diagram of Wind

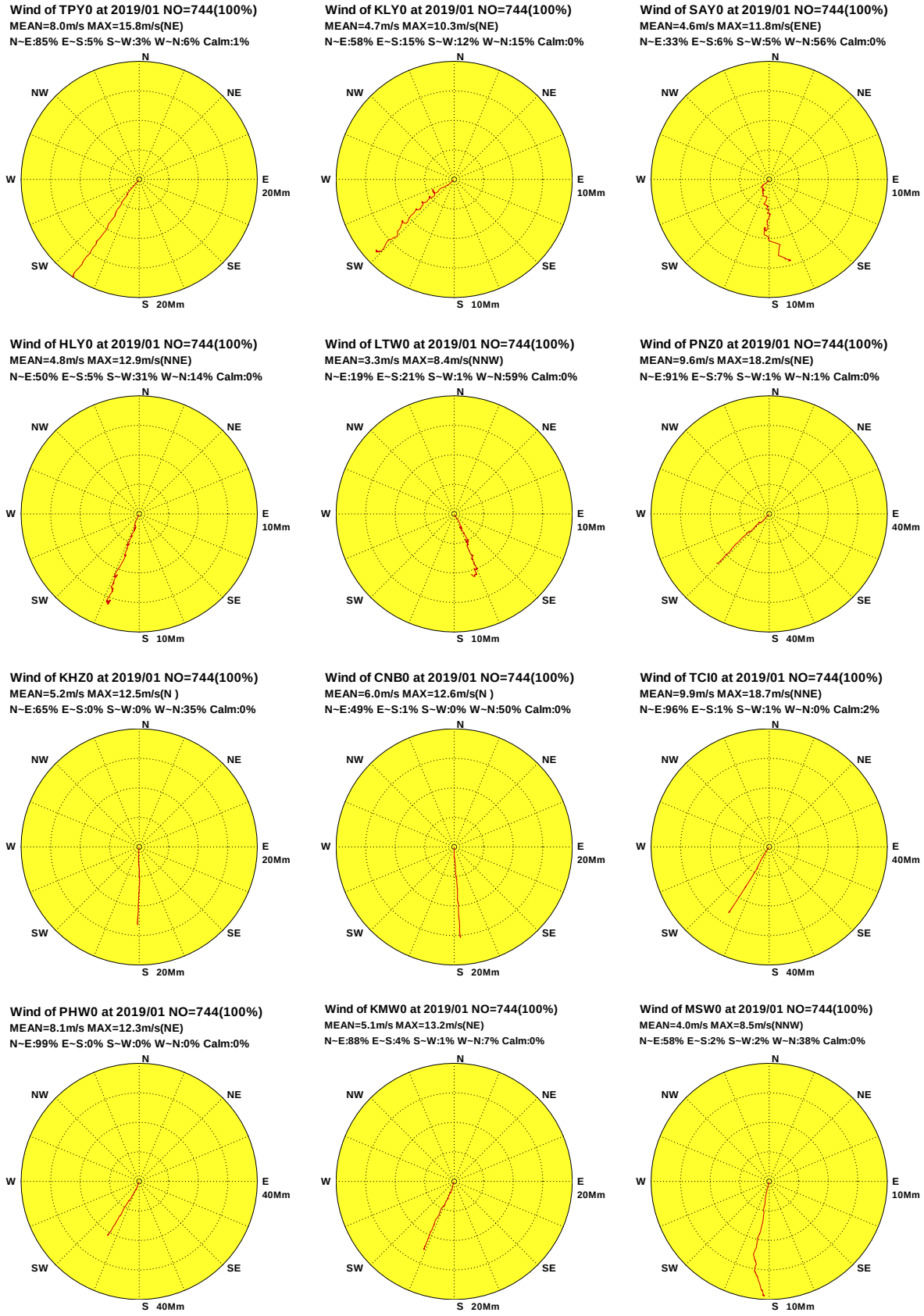

圖9.2b 2019年 1月12海域主要測站2修補後觀測風向量行進圖

W191TPY0.1HA W191KLY0.1HA W191SAY0.1HA W191HLY0.1HA W191LTW0.1HA W191PNZ0.1HA
W191KHZ0.1HA W191CNB0.1HA W191TCI0.1HA W191PHW0.1HA W191KMW0.1HA W191MSW0.1HA

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Progressive Vector Diagram of Wind

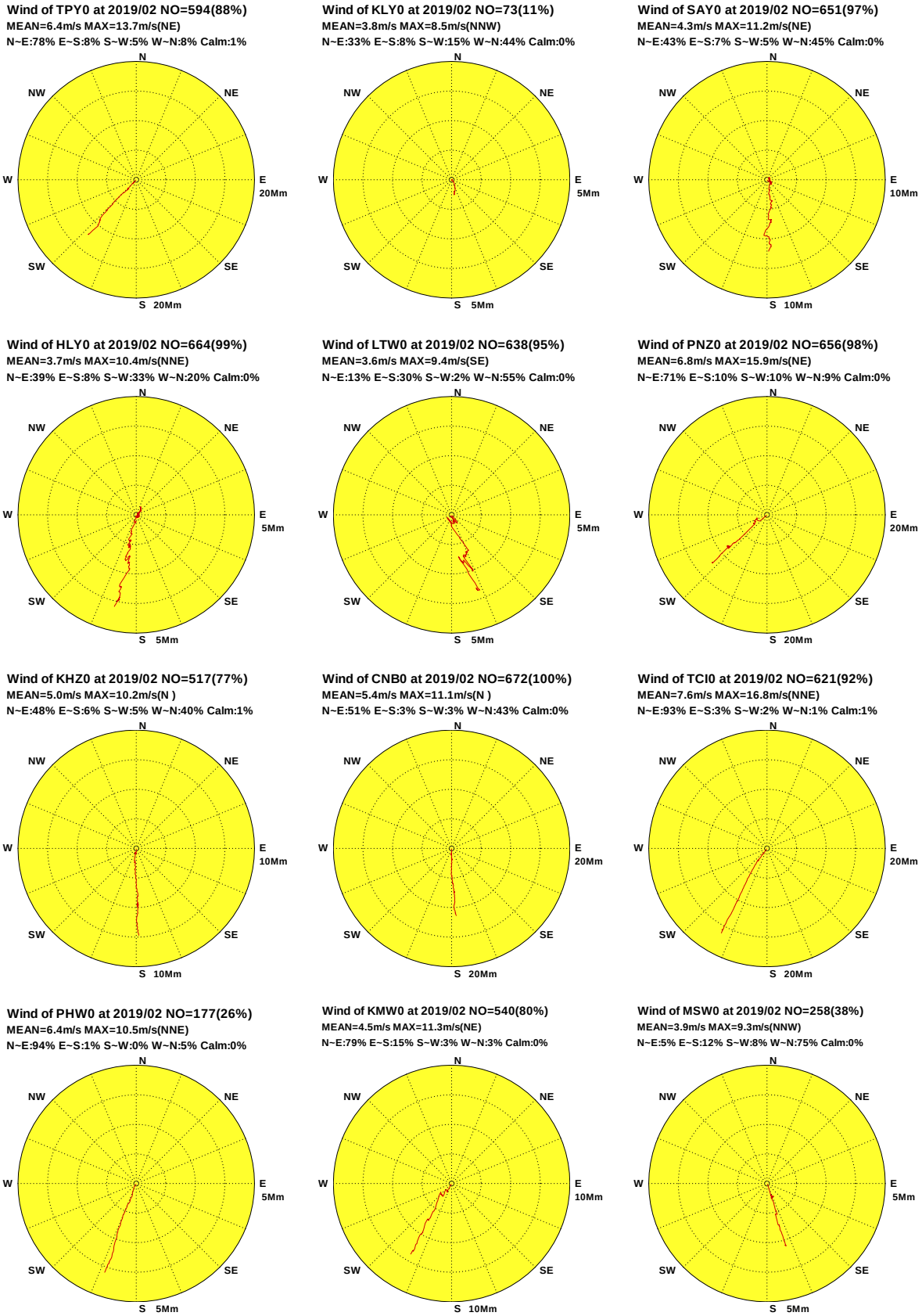

圖9.3a 2019年 2月12海域主要測站2修補前觀測風向量行進圖

W192TPY0.1H0 W192KLY0.1H0 W192SAY0.1H0 W192HLY0.1H0 W192LTW0.1H0 W192PNZ0.1H0
W192KHZ0.1H0 W192CNB0.1H0 W192TCI0.1H0 W192PHW0.1H0 W192KMW0.1H0 W192MSW0.1H0

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Progressive Vector Diagram of Wind

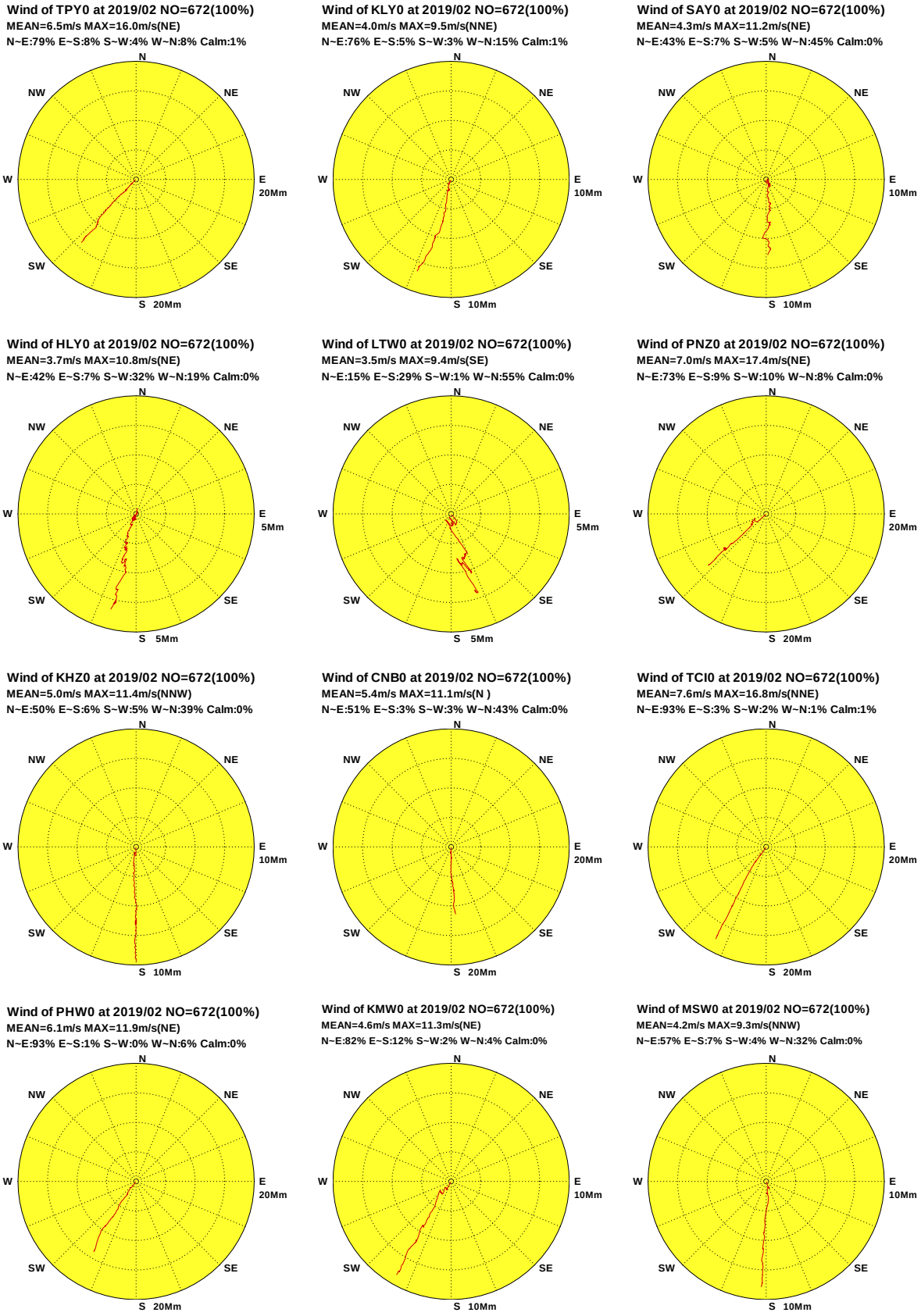

圖9.3b 2019年 2月12海域主要測站2修補後觀測風向量行進圖

W192TPY0.1HA W192KLY0.1HA W192SAY0.1HA W192HLY0.1HA W192LTW0.1HA W192PNZ0.1HA
W192KHZ0.1HA W192CNB0.1HA W192TCI0.1HA W192PHW0.1HA W192KMW0.1HA W192MSW0.1HA

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Progressive Vector Diagram of Wind

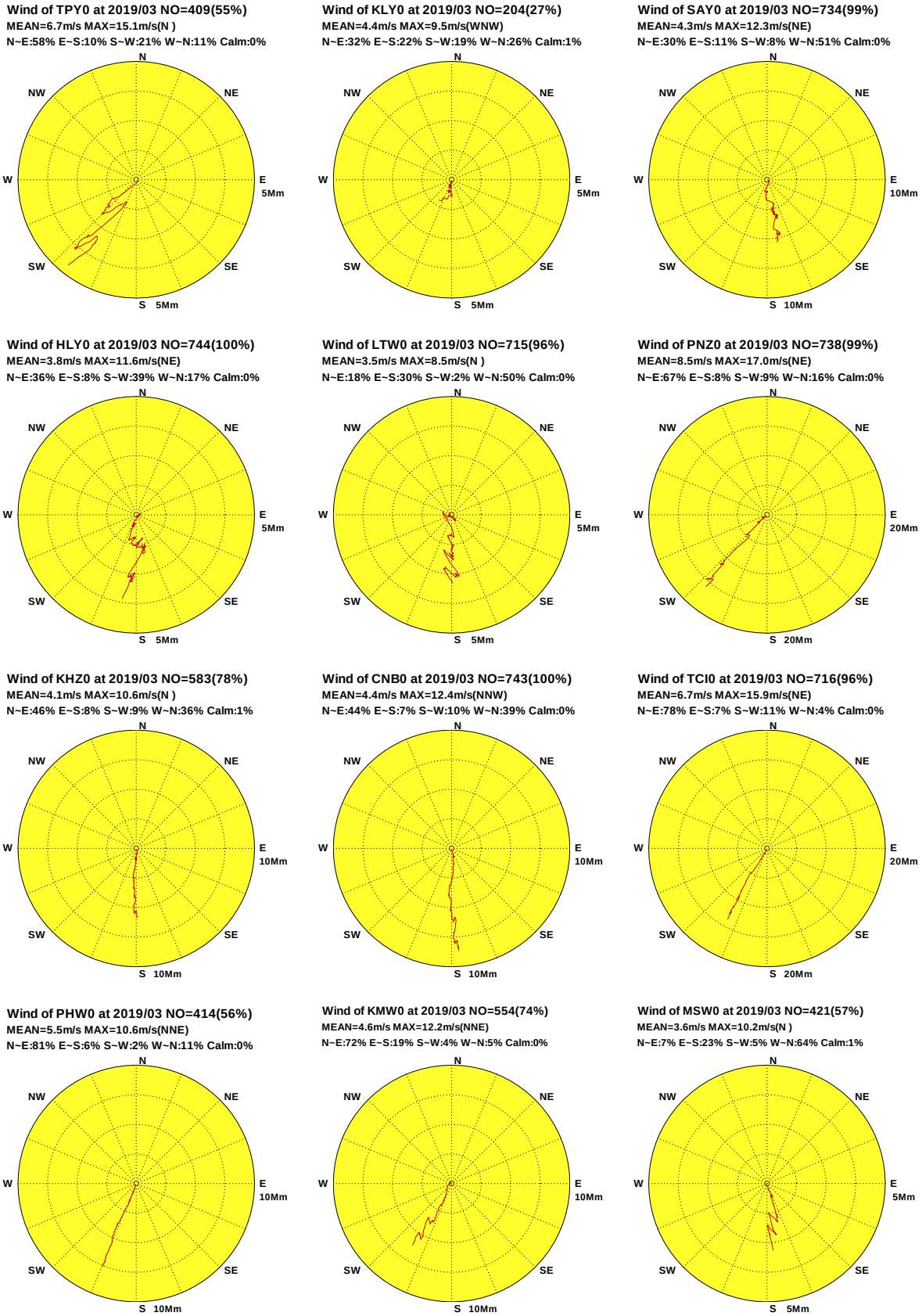

圖9.4a 2019年 3月12海域主要測站2修補前觀測風向量行進圖

W193TPY0.1H0 W193KLY0.1H0 W193SAY0.1H0 W193HLY0.1H0 W193LTW0.1H0 W193PNZ0.1H0
W193KHZ0.1H0 W193CNB0.1H0 W193TCI0.1H0 W193PHW0.1H0 W193KMW0.1H0 W193MSW0.1H0

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Progressive Vector Diagram of Wind

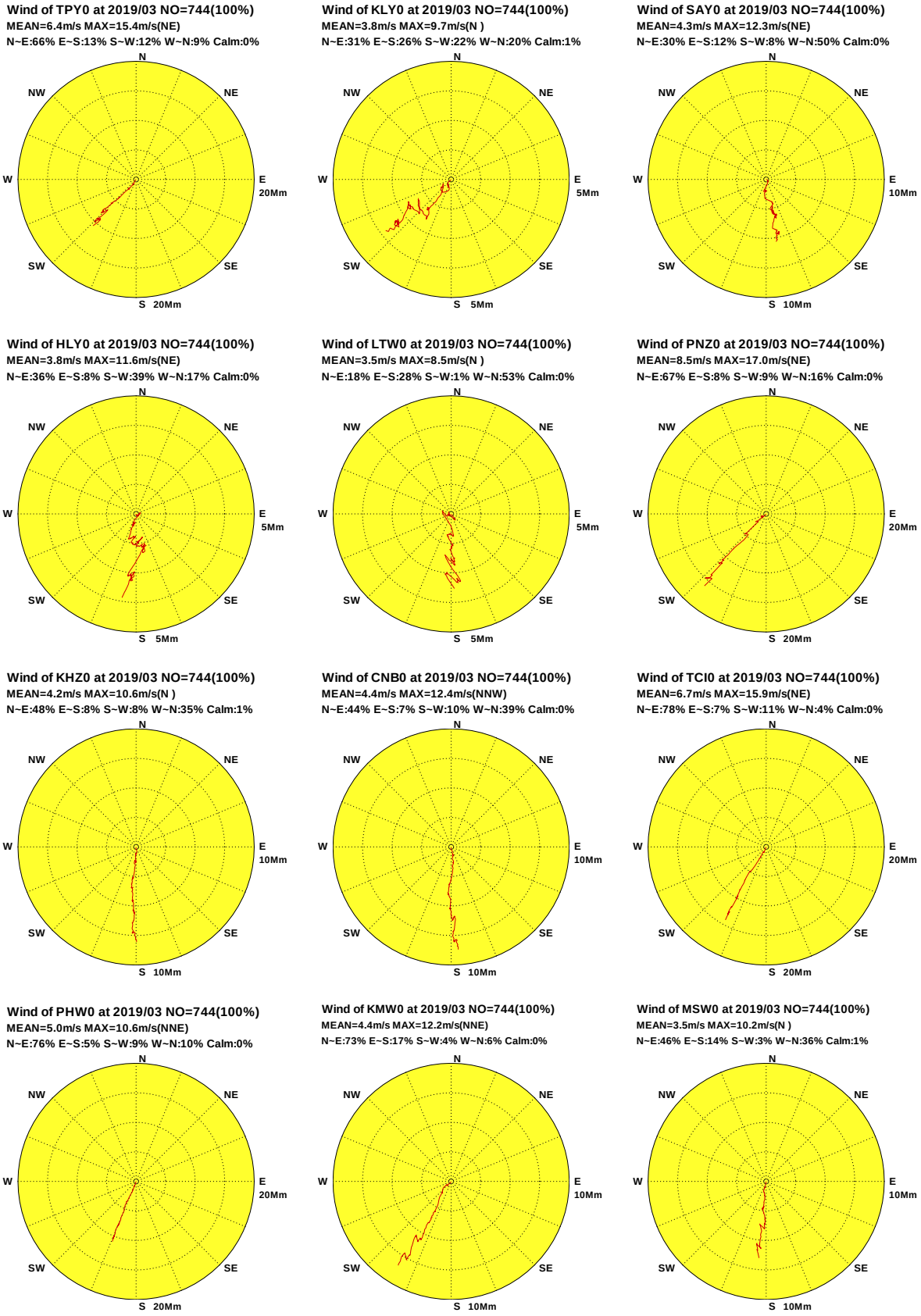

圖9.4b 2019年 3月12海域主要測站2修補後觀測風向量行進圖

W193TPY0.1HA W193KLY0.1HA W193SAY0.1HA W193HLY0.1HA W193LTW0.1HA W193PNZ0.1HA
W193KHZ0.1HA W193CNB0.1HA W193TCI0.1HA W193PHW0.1HA W193KMW0.1HA W193MSW0.1HA

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Progressive Vector Diagram of Wind

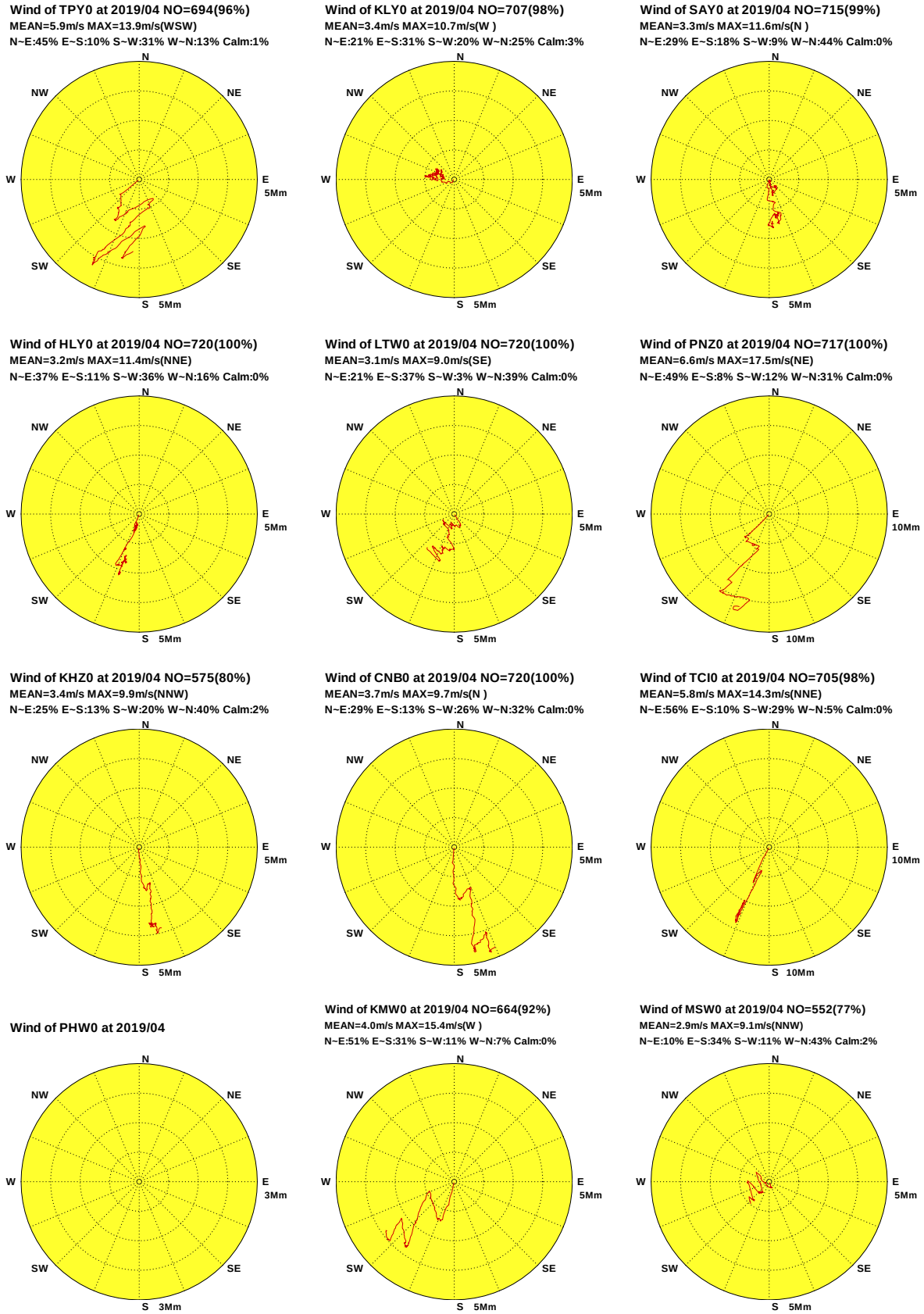

圖9.5a 2019年 4月12海域主要測站2修補前觀測風向量行進圖

W194TPY0.1H0 W194KLY0.1H0 W194SAY0.1H0 W194HLY0.1H0 W194LTW0.1H0 W194PNZ0.1H0
W194KHZ0.1H0 W194CNB0.1H0 W194TCI0.1H0 W194PHW0.1H0 W194KMW0.1H0 W194MSW0.1H0

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Progressive Vector Diagram of Wind

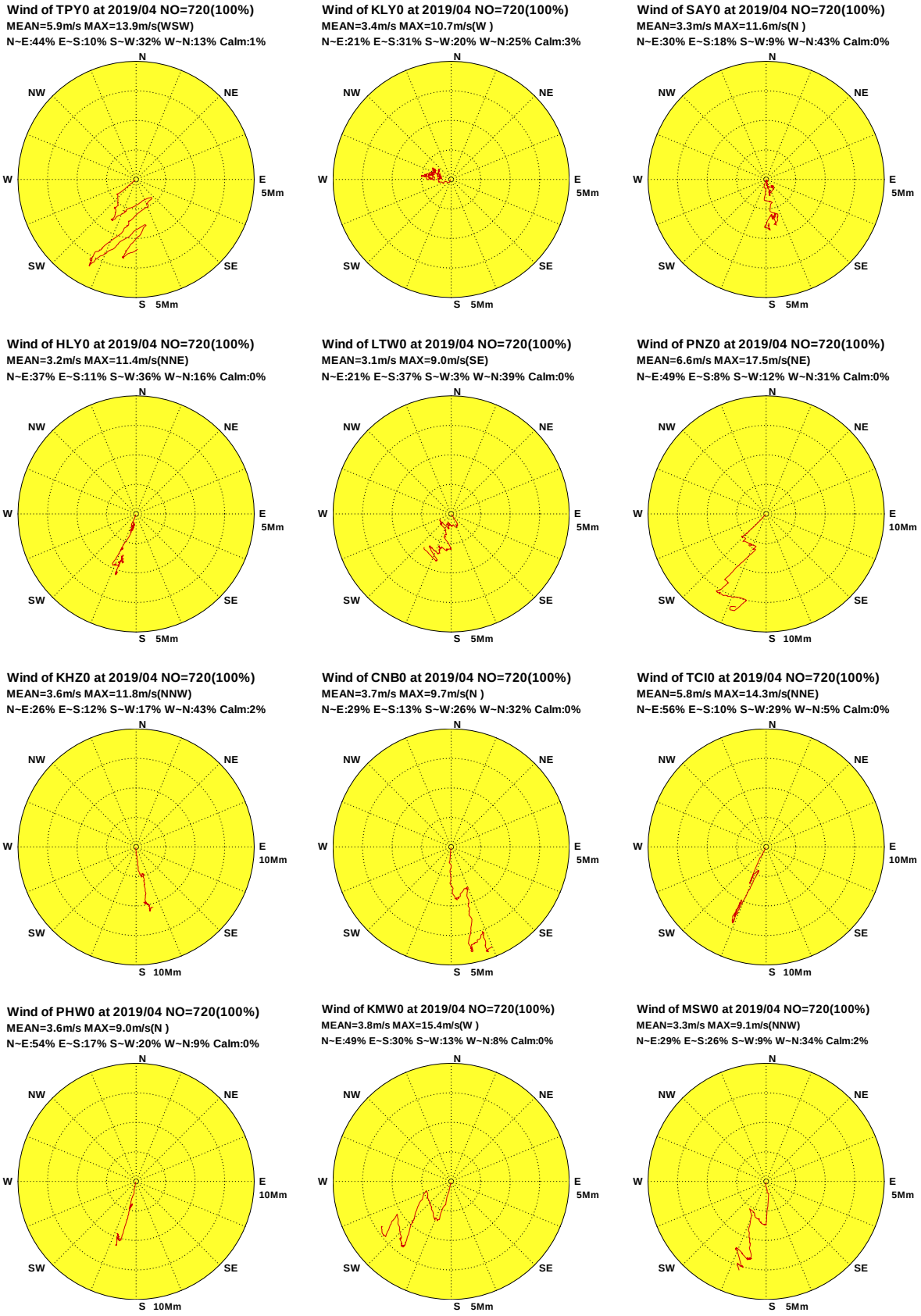

圖9.5b 2019年 4月12海域主要測站2修補後觀測風向量行進圖

W194TPY0.1HA W194KLY0.1HA W194SAY0.1HA W194HLY0.1HA W194LTW0.1HA W194PNZ0.1HA
W194KHZ0.1HA W194CNB0.1HA W194TCI0.1HA W194PHW0.1HA W194KMW0.1HA W194MSW0.1HA

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Progressive Vector Diagram of Wind

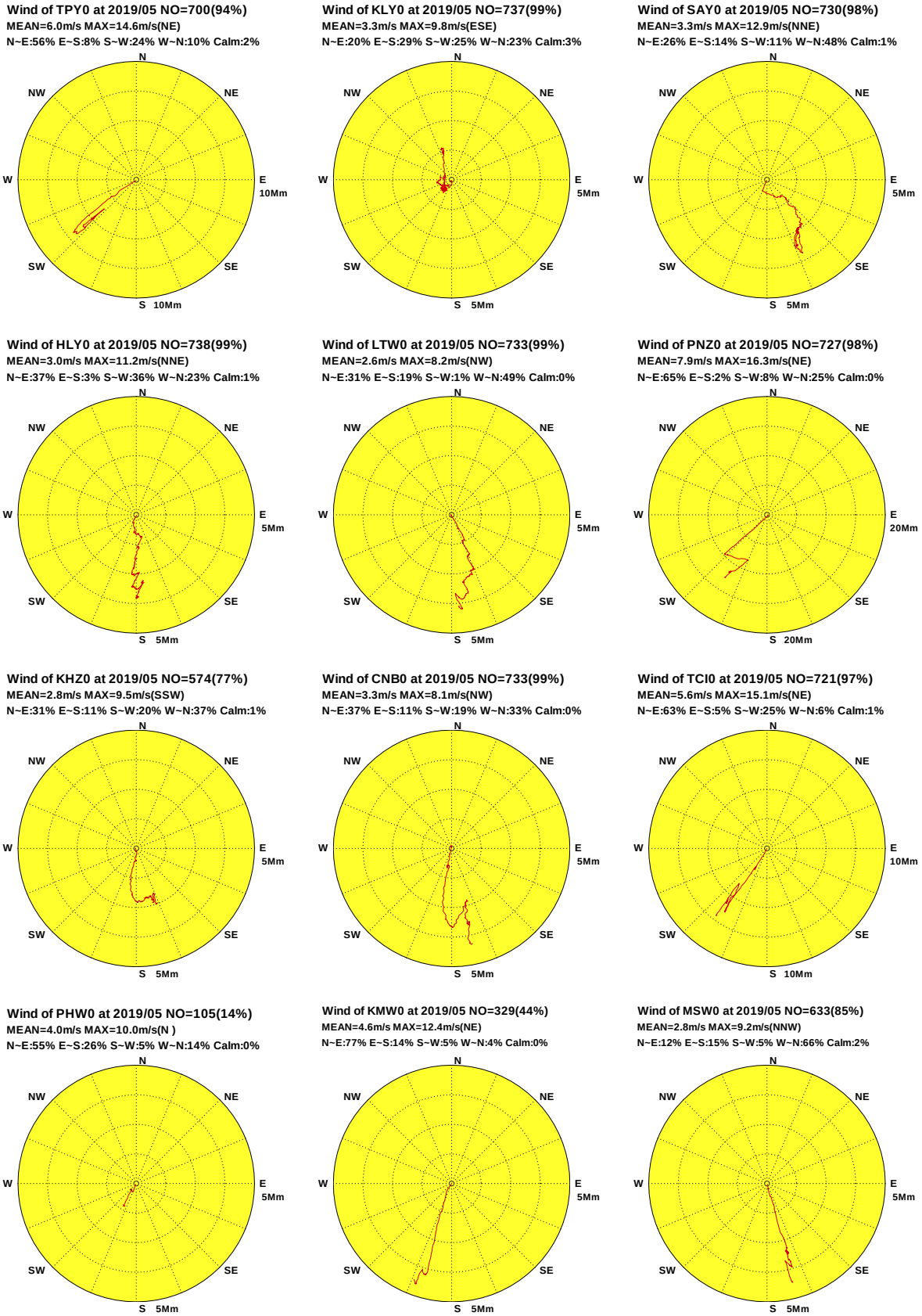

圖9.6a 2019年 5月12海域主要測站2修補前觀測風向量行進圖

W195TPY0.1H0 W195KLY0.1H0 W195SAY0.1H0 W195HLY0.1H0 W195LTW0.1H0 W195PNZ0.1H0
W195KHZ0.1H0 W195CNB0.1H0 W195TCI0.1H0 W195PHW0.1H0 W195KMW0.1H0 W195MSW0.1H0

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Progressive Vector Diagram of Wind

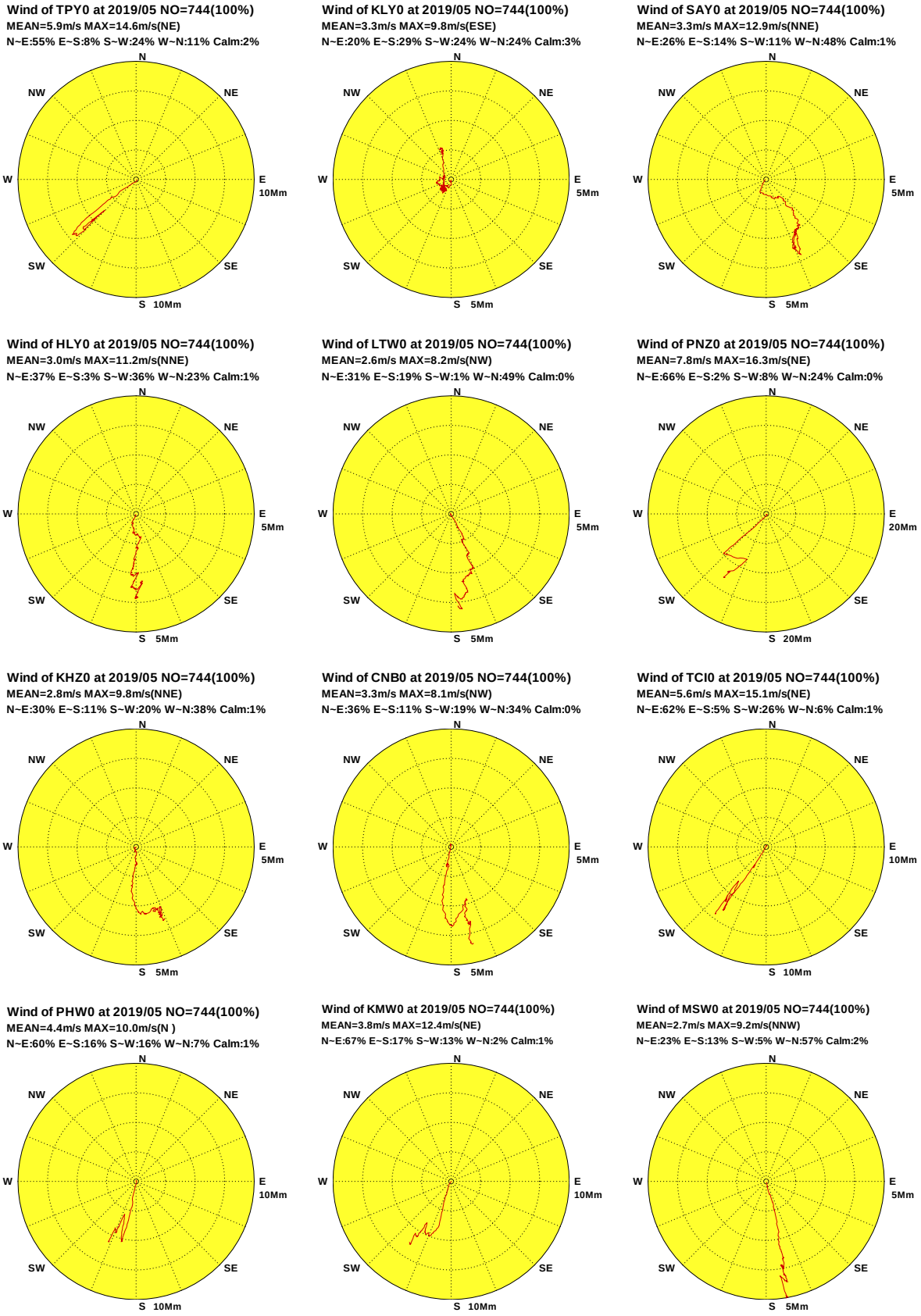

圖9.6b 2019年 5月12海域主要測站2修補後觀測風向量行進圖

W195TPY0.1HA W195KLY0.1HA W195SAY0.1HA W195HLY0.1HA W195LTW0.1HA W195PNZ0.1HA
W195KHZ0.1HA W195CNB0.1HA W195TCI0.1HA W195PHW0.1HA W195KMW0.1HA W195MSW0.1HA

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Progressive Vector Diagram of Wind

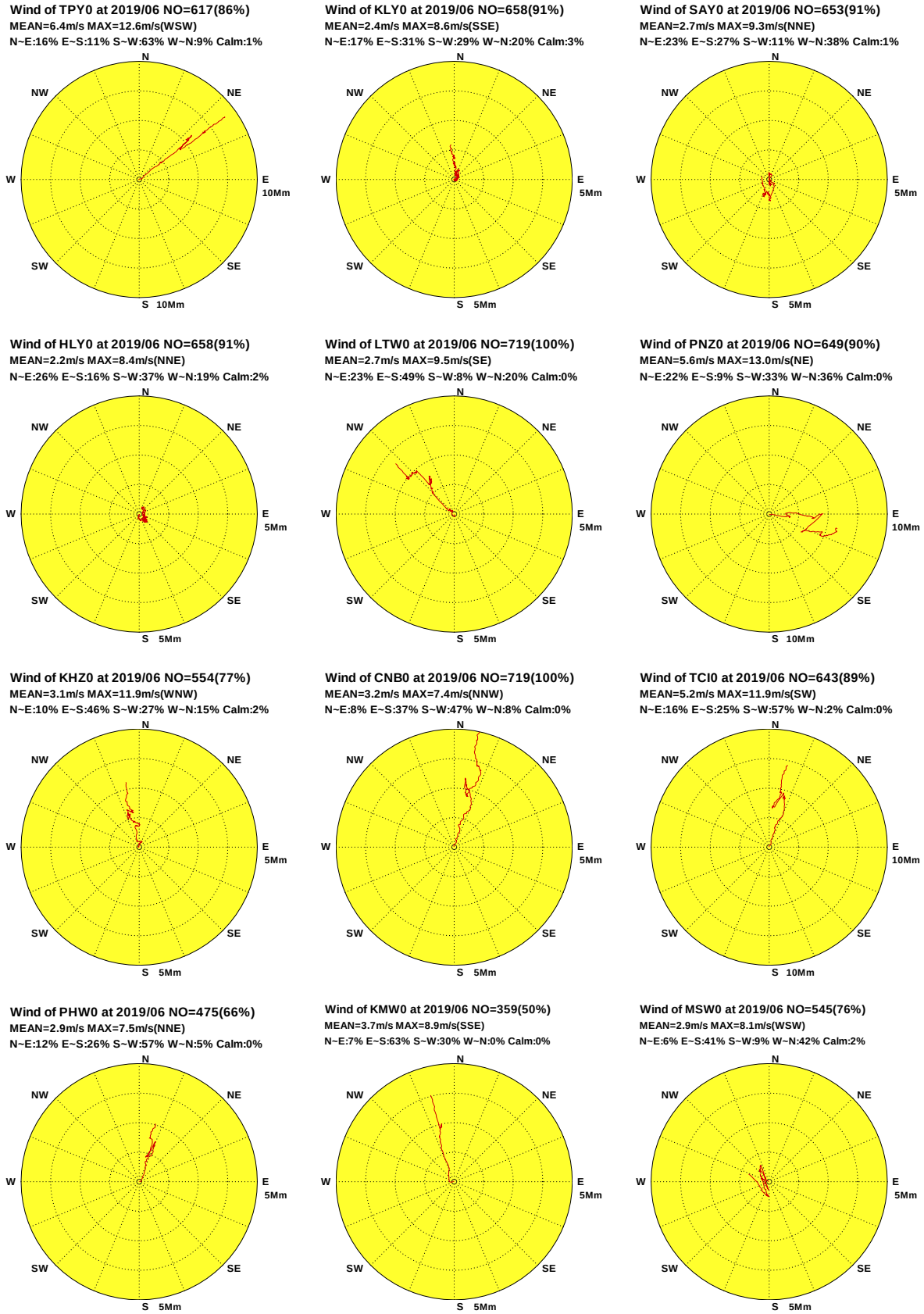

圖9.7a 2019年 6月12海域主要測站2修補前觀測風向量行進圖

W196TPY0.1H0 W196KLY0.1H0 W196SAY0.1H0 W196HLY0.1H0 W196LTW0.1H0 W196PNZ0.1H0
W196KHZ0.1H0 W196CNB0.1H0 W196TCI0.1H0 W196PHW0.1H0 W196KMW0.1H0 W196MSW0.1H0

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Progressive Vector Diagram of Wind

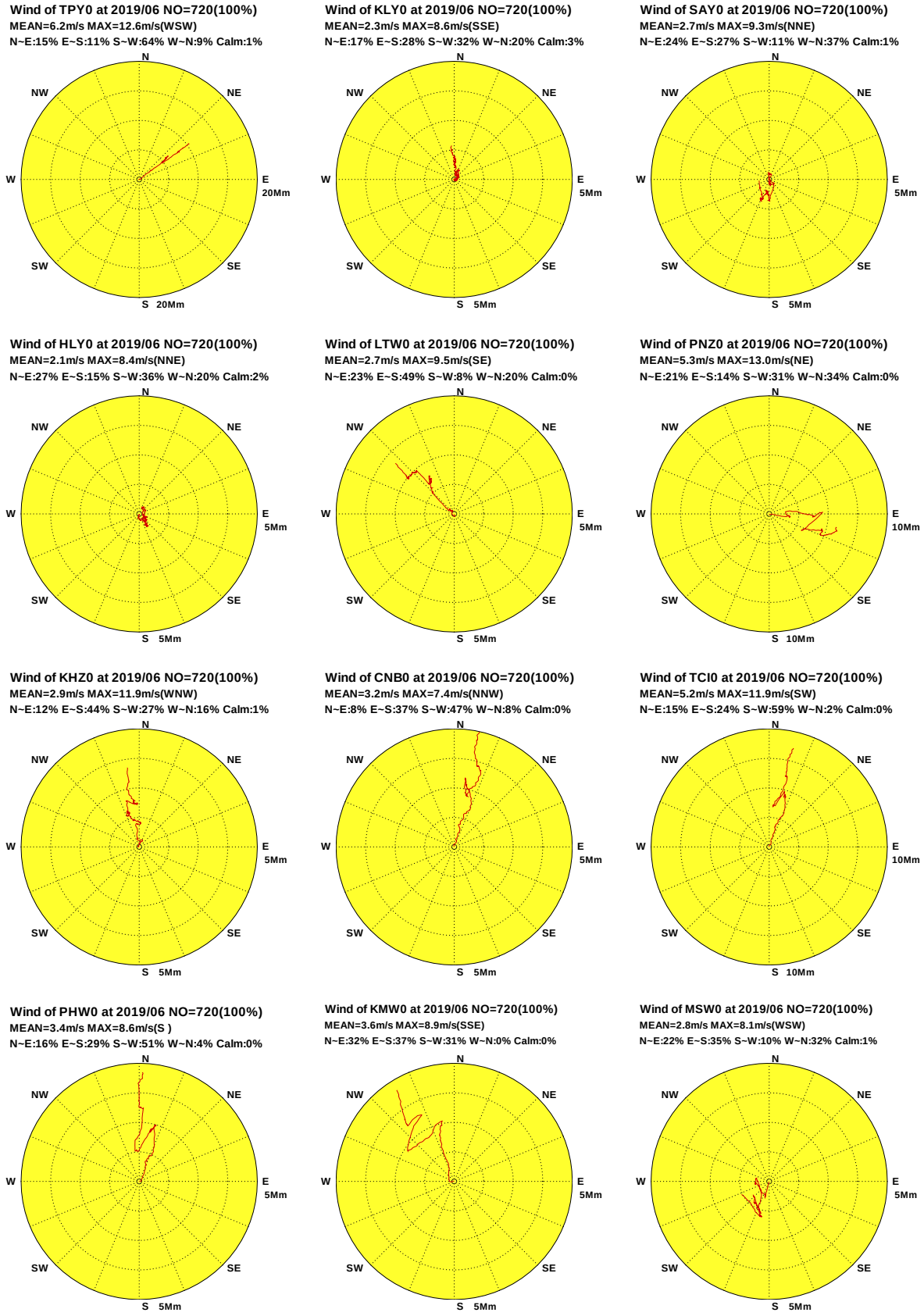

圖9.7b 2019年 6月12海域主要測站2修補後觀測風向量行進圖

W196TPY0.1HA W196KLY0.1HA W196SAY0.1HA W196HLY0.1HA W196LTW0.1HA W196PNZ0.1HA W196KHZ0.1HA W196CNB0.1HA W196TCI0.1HA W196PHW0.1HA W196KMW0.1HA W196MSW0.1HA	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Wind

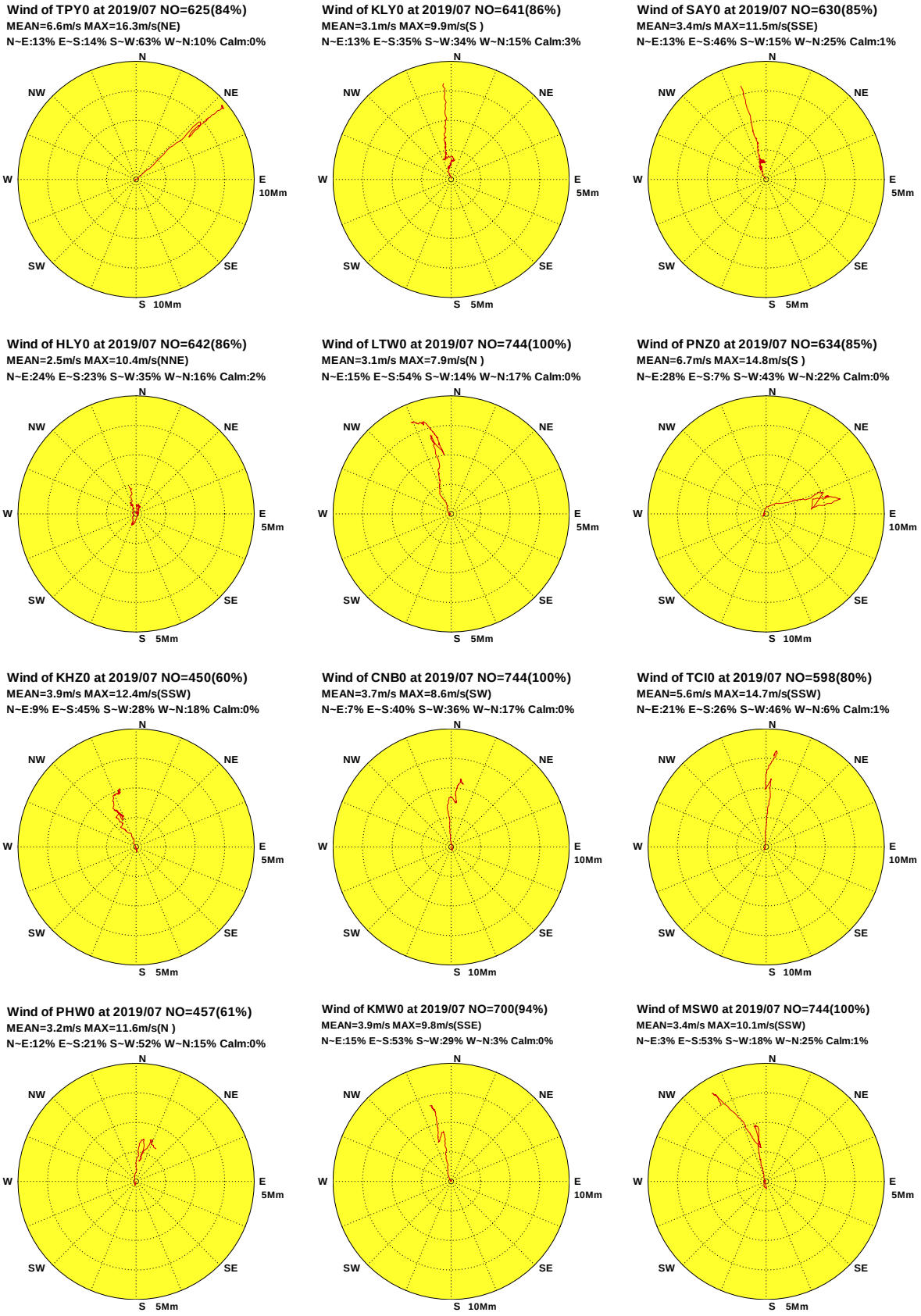

圖9.8a 2019年 7月12海域主要測站2修補前觀測風向量行進圖

W197TPY0.1H0 W197KLY0.1H0 W197SAY0.1H0 W197HLY0.1H0 W197LTW0.1H0 W197PNZ0.1H0
W197KHZ0.1H0 W197CNB0.1H0 W197TCI0.1H0 W197PHW0.1H0 W197KMW0.1H0 W197MSW0.1H0

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Progressive Vector Diagram of Wind

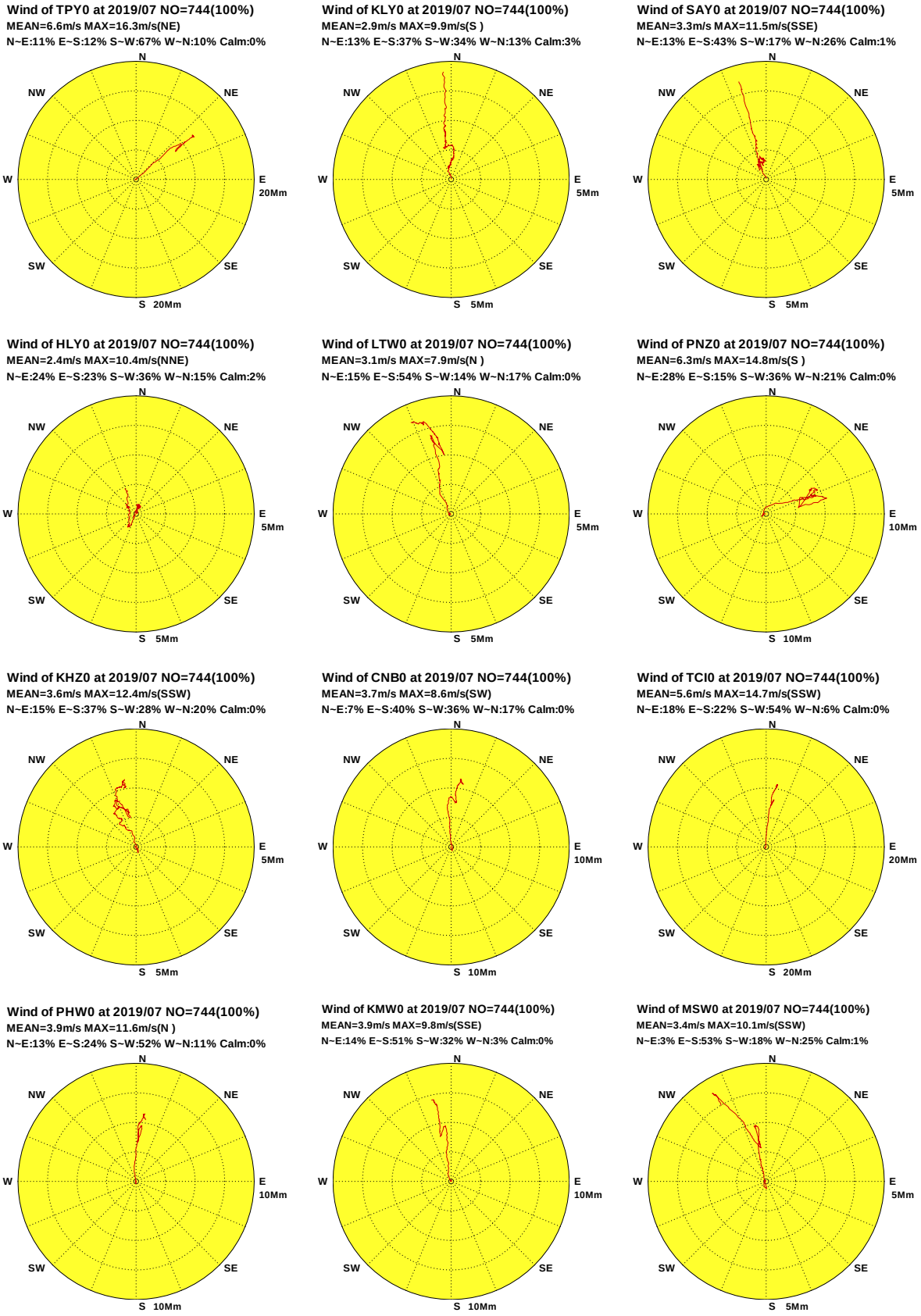

圖9.8b 2019年 7月12海域主要測站2修補後觀測風向量行進圖

W197TPY0.1HA W197KLY0.1HA W197SAY0.1HA W197HLY0.1HA W197LTW0.1HA W197PNZ0.1HA
W197KHZ0.1HA W197CNB0.1HA W197TCI0.1HA W197PHW0.1HA W197KMW0.1HA W197MSW0.1HA

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Progressive Vector Diagram of Wind

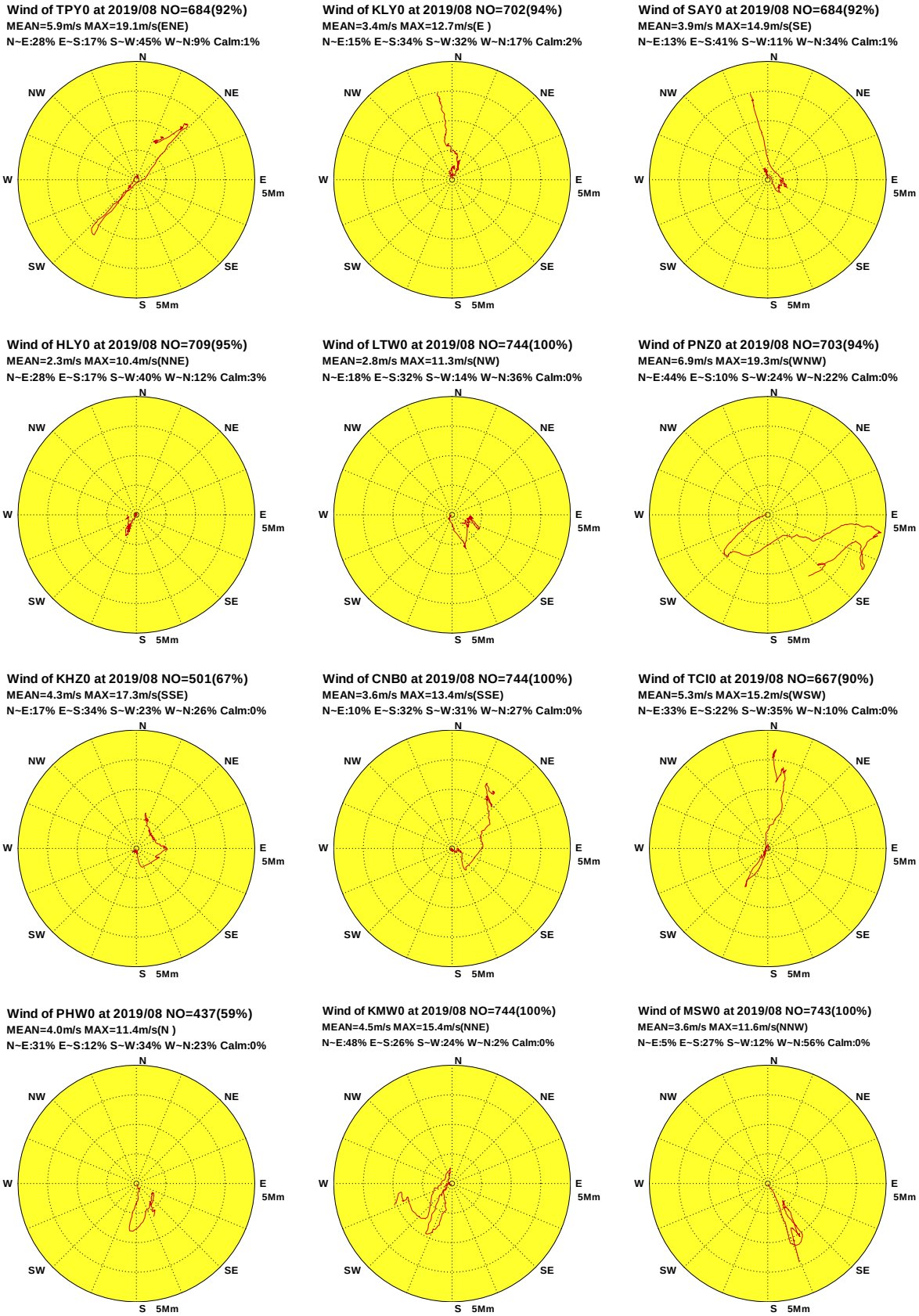

圖9.9a 2019年 8月12海域主要測站2修補前觀測風向量行進圖

W198TPY0.1H0 W198KLY0.1H0 W198SAY0.1H0 W198HLY0.1H0 W198LTW0.1H0 W198PNZ0.1H0
W198KHZ0.1H0 W198CNB0.1H0 W198TCI0.1H0 W198PHW0.1H0 W198KMW0.1H0 W198MSW0.1H0

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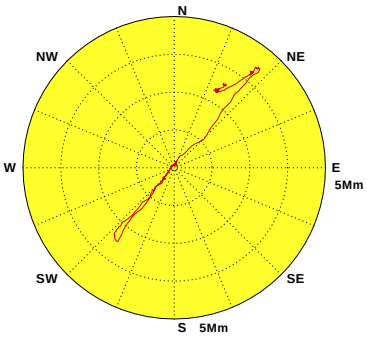
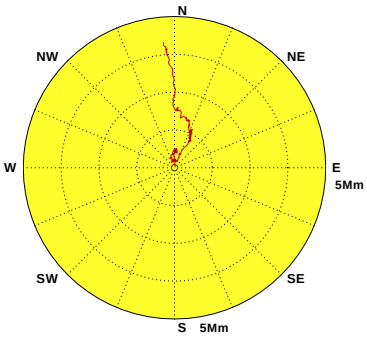
Progressive Vector Diagram of Wind

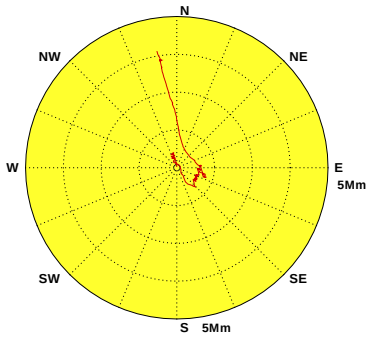
Wind of TPY0 at 2019/08 NO=744(100%)
MEAN=6.0m/s MAX=19.1m/s(ENE)
N~E:27% E~S:17% S~W:46% W~N:9% Calm:1%



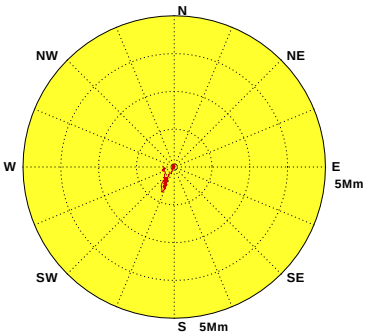
Wind of KLY0 at 2019/08 NO=744(100%)
MEAN=3.4m/s MAX=12.7m/s(E)
N~E:14% E~S:33% S~W:35% W~N:16% Calm:2%



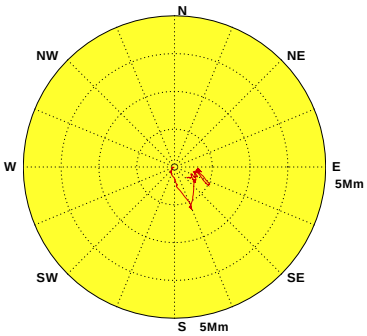
Wind of SAY0 at 2019/08 NO=744(100%)
MEAN=3.8m/s MAX=14.9m/s(SE)
N~E:13% E~S:41% S~W:12% W~N:33% Calm:1%



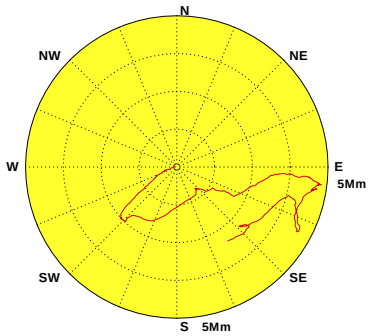
Wind of HLY0 at 2019/08 NO=744(100%)
MEAN=2.3m/s MAX=10.4m/s(NNE)
N~E:27% E~S:18% S~W:39% W~N:13% Calm:3%



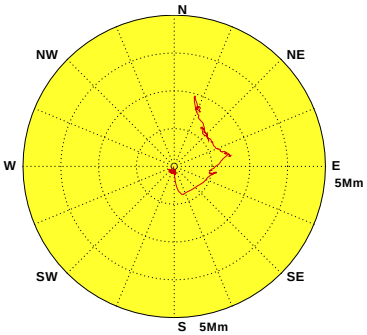
Wind of LTW0 at 2019/08 NO=744(100%)
MEAN=2.8m/s MAX=11.3m/s(NW)
N~E:17% E~S:32% S~W:14% W~N:37% Calm:0%



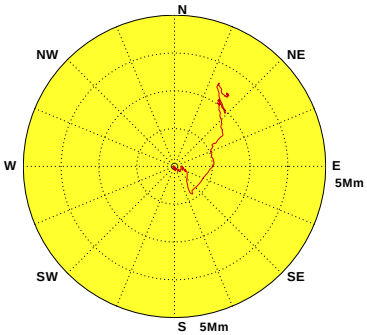
Wind of PNZ0 at 2019/08 NO=744(100%)
MEAN=6.7m/s MAX=19.3m/s(WNW)
N~E:43% E~S:11% S~W:25% W~N:21% Calm:0%



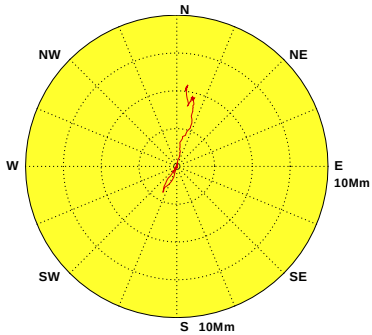
Wind of KHZ0 at 2019/08 NO=744(100%)
MEAN=4.0m/s MAX=17.3m/s(SSE)
N~E:17% E~S:31% S~W:28% W~N:24% Calm:0%



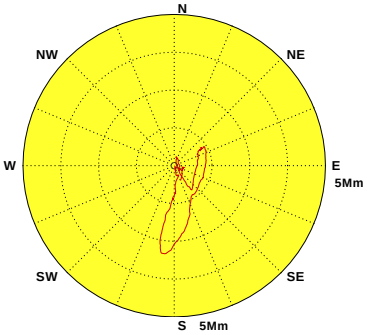
Wind of CNB0 at 2019/08 NO=744(100%)
MEAN=3.6m/s MAX=13.4m/s(SSE)
N~E:10% E~S:32% S~W:31% W~N:27% Calm:0%



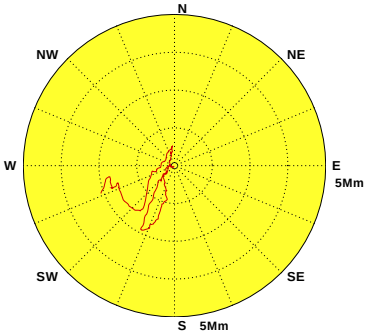
Wind of TCI0 at 2019/08 NO=744(100%)
MEAN=5.4m/s MAX=15.2m/s(WSW)
N~E:31% E~S:21% S~W:37% W~N:11% Calm:0%



Wind of PHW0 at 2019/08 NO=744(100%)
MEAN=4.5m/s MAX=14.8m/s(ESE)
N~E:30% E~S:17% S~W:33% W~N:20% Calm:0%



Wind of KMW0 at 2019/08 NO=744(100%)
MEAN=4.5m/s MAX=15.4m/s(NNE)
N~E:48% E~S:26% S~W:24% W~N:2% Calm:0%



Wind of MSW0 at 2019/08 NO=744(100%)
MEAN=3.6m/s MAX=11.6m/s(NNW)
N~E:5% E~S:27% S~W:11% W~N:57% Calm:0%

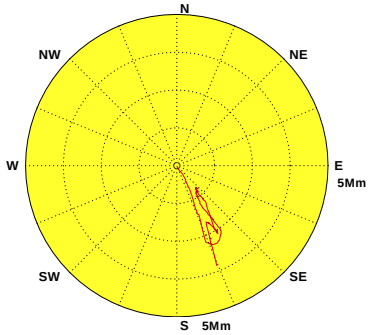


圖9.9b 2019年 8月12海域主要測站2修補後觀測風向量行進圖

W198TPY0.1HA W198KLY0.1HA W198SAY0.1HA W198HLY0.1HA W198LTW0.1HA W198PNZ0.1HA
W198KHZ0.1HA W198CNB0.1HA W198TCI0.1HA W198PHW0.1HA W198KMW0.1HA W198MSW0.1HA

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Progressive Vector Diagram of Wind

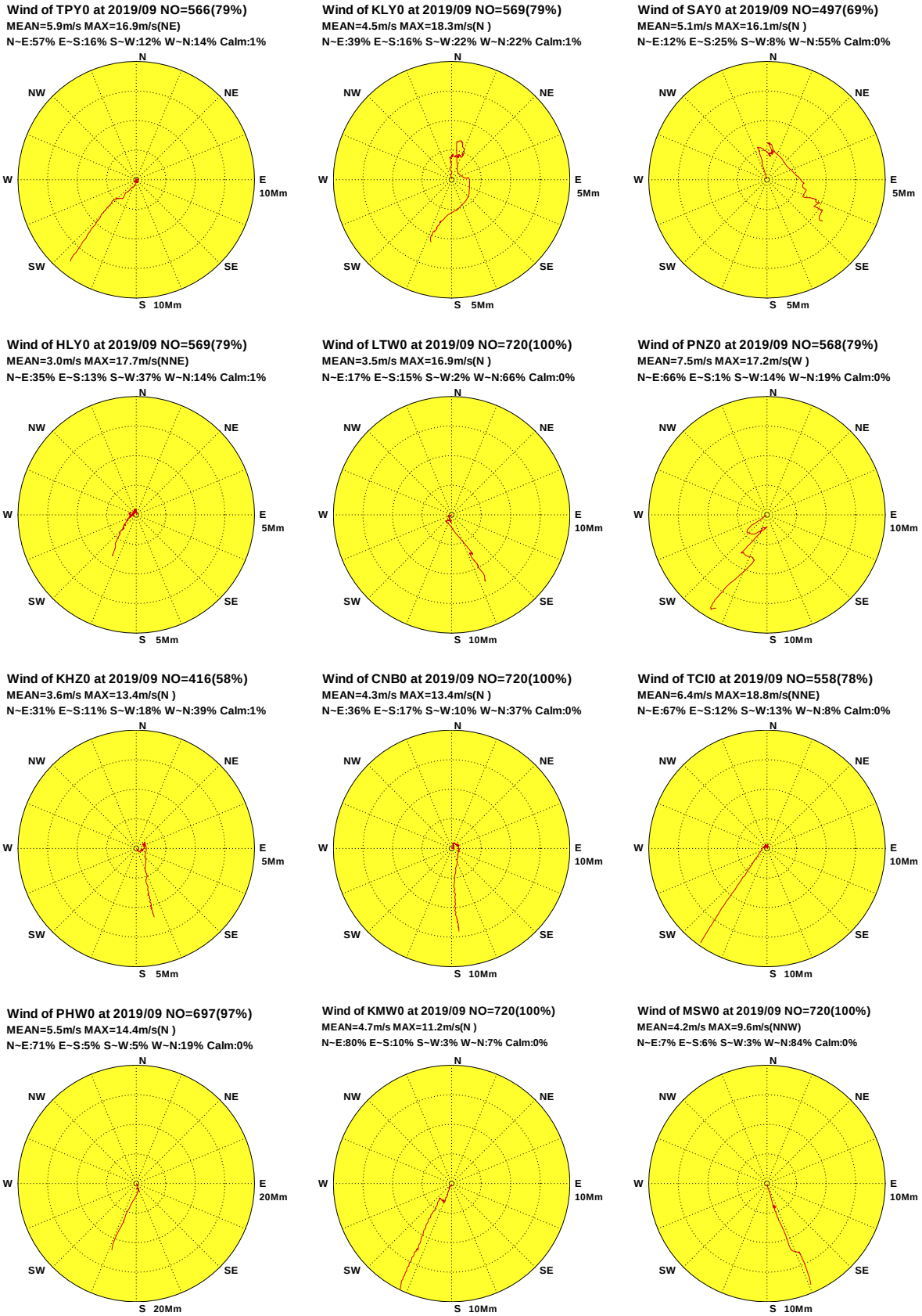

圖9.10a 2019年 9月12海域主要測站2修補前觀測風向量行進圖

W199TPY0.1H0 W199KLY0.1H0 W199SAY0.1H0 W199HLY0.1H0 W199LTW0.1H0 W199PNZ0.1H0
W199KHZ0.1H0 W199CNB0.1H0 W199TCI0.1H0 W199PHW0.1H0 W199KMW0.1H0 W199MSW0.1H0

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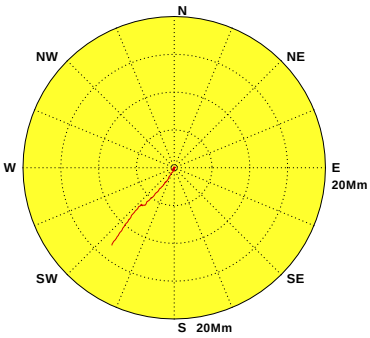
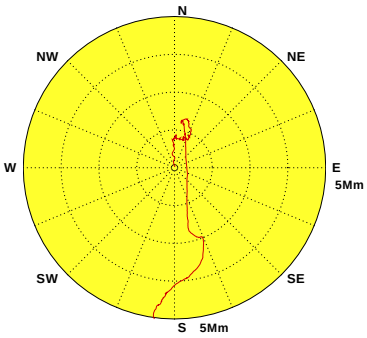
Progressive Vector Diagram of Wind

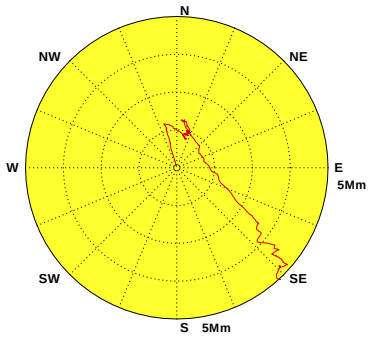
Wind of TPY0 at 2019/09 NO=720(100%)
MEAN=6.4m/s MAX=18.0m/s(NE)
N~E:66% E~S:13% S~W:9% W~N:11% Calm:1%



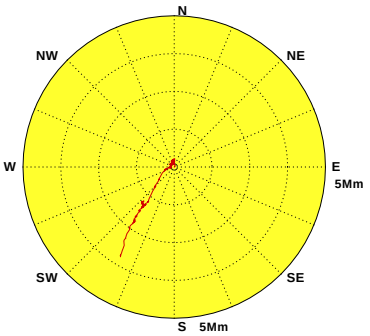
Wind of KLY0 at 2019/09 NO=720(100%)
MEAN=4.7m/s MAX=18.3m/s(N)
N~E:36% E~S:13% S~W:21% W~N:30% Calm:0%



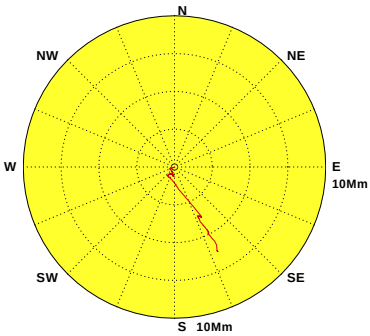
Wind of SAY0 at 2019/09 NO=720(100%)
MEAN=4.8m/s MAX=16.1m/s(N)
N~E:13% E~S:18% S~W:7% W~N:62% Calm:0%



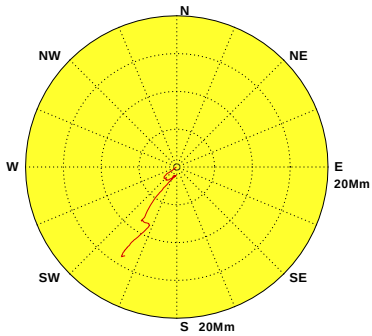
Wind of HLY0 at 2019/09 NO=720(100%)
MEAN=3.2m/s MAX=17.7m/s(NNE)
N~E:39% E~S:11% S~W:36% W~N:13% Calm:1%



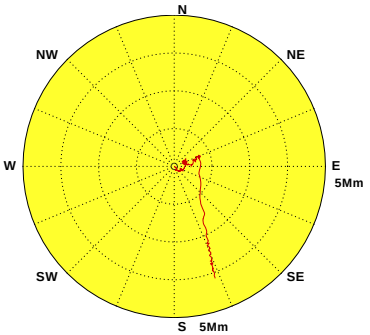
Wind of LTW0 at 2019/09 NO=720(100%)
MEAN=3.5m/s MAX=16.9m/s(N)
N~E:17% E~S:15% S~W:2% W~N:66% Calm:0%



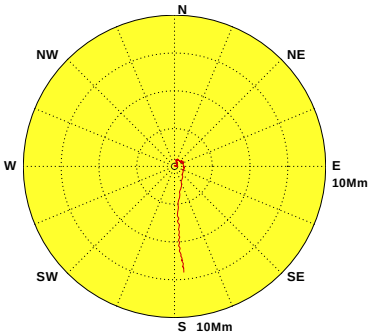
Wind of PNZ0 at 2019/09 NO=720(100%)
MEAN=7.7m/s MAX=17.2m/s(W)
N~E:73% E~S:1% S~W:11% W~N:15% Calm:0%



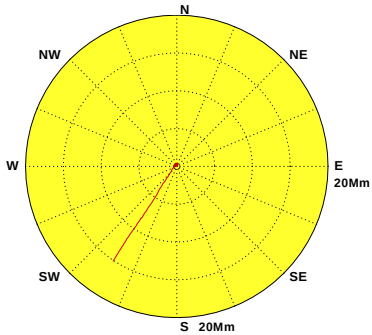
Wind of KHZ0 at 2019/09 NO=720(100%)
MEAN=3.2m/s MAX=14.5m/s(NNW)
N~E:31% E~S:12% S~W:21% W~N:35% Calm:1%



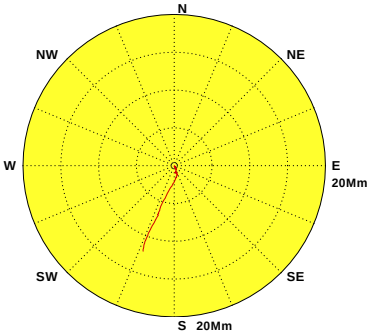
Wind of CNB0 at 2019/09 NO=720(100%)
MEAN=4.3m/s MAX=13.4m/s(N)
N~E:36% E~S:17% S~W:10% W~N:37% Calm:0%



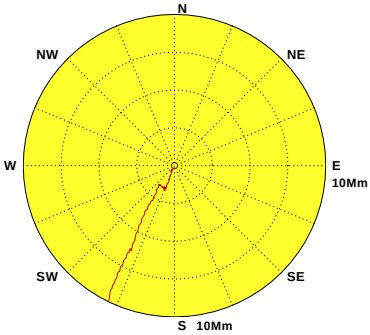
Wind of TCI0 at 2019/09 NO=720(100%)
MEAN=7.1m/s MAX=18.8m/s(NNE)
N~E:73% E~S:9% S~W:11% W~N:7% Calm:0%



Wind of PHW0 at 2019/09 NO=720(100%)
MEAN=5.3m/s MAX=14.4m/s(N)
N~E:70% E~S:5% S~W:5% W~N:20% Calm:0%



Wind of KMW0 at 2019/09 NO=720(100%)
MEAN=4.7m/s MAX=11.2m/s(N)
N~E:79% E~S:11% S~W:3% W~N:7% Calm:0%



Wind of MSW0 at 2019/09 NO=720(100%)
MEAN=4.2m/s MAX=9.6m/s(NNW)
N~E:7% E~S:6% S~W:3% W~N:84% Calm:0%

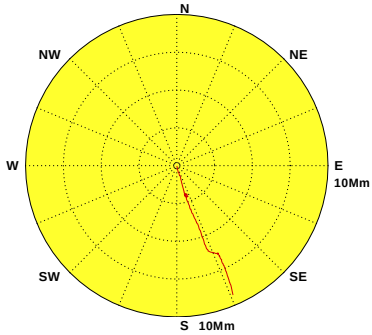


圖9.10b 2019年 9月12海域主要測站2修補後觀測風向量行進圖

W199TPY0.1HA W199KLY0.1HA W199SAY0.1HA W199HLY0.1HA W199LTW0.1HA W199PNZ0.1HA
W199KHZ0.1HA W199CNB0.1HA W199TCI0.1HA W199PHW0.1HA W199KMW0.1HA W199MSW0.1HA

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Progressive Vector Diagram of Wind

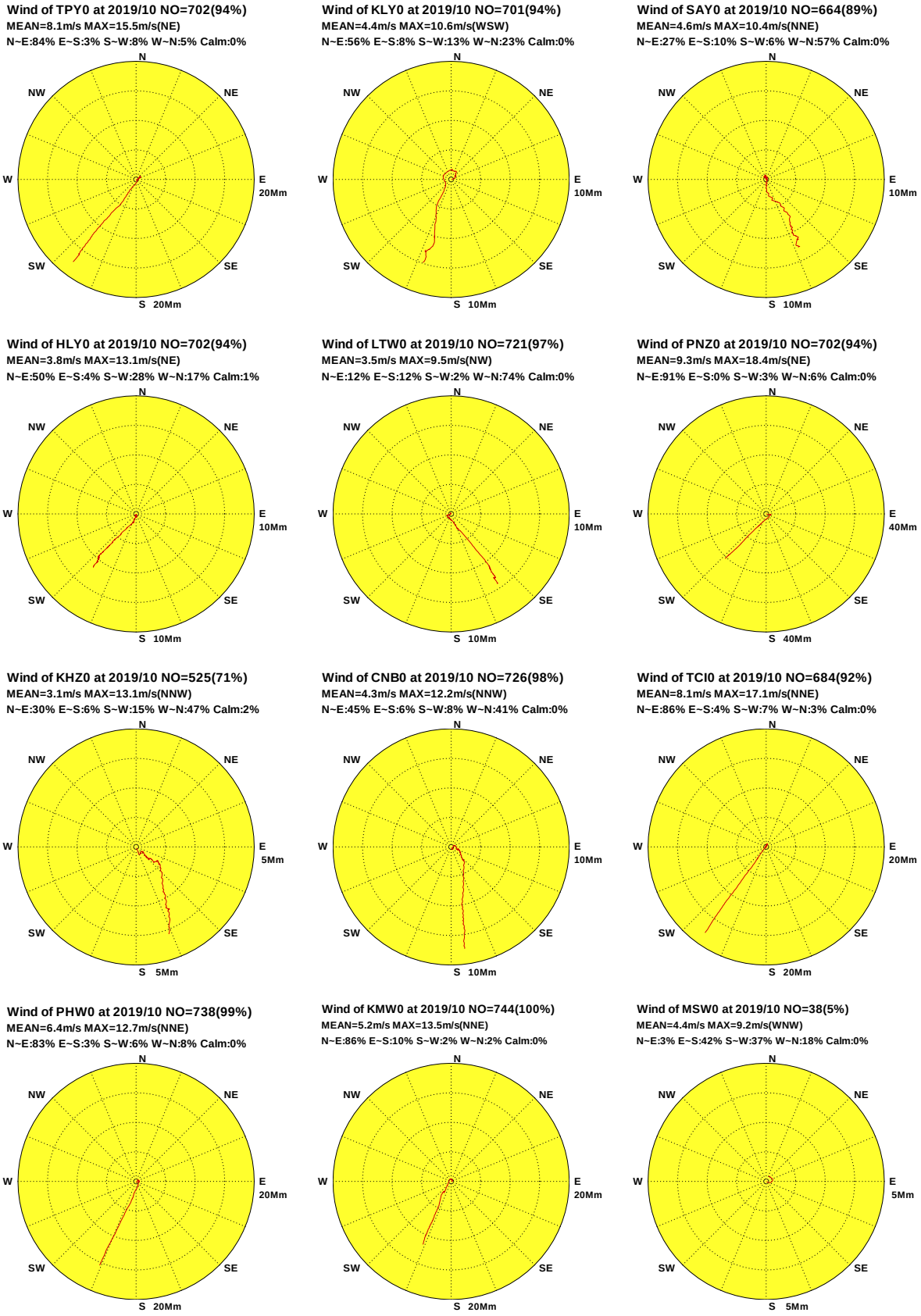

圖9.11a 2019年10月12海域主要測站2修補前觀測風向量行進圖

W19ATPY0.1H0 W19AKLY0.1H0 W19ASAY0.1H0 W19AHLY0.1H0 W19ALTW0.1H0 W19APNZ0.1H0
W19AKHZ0.1H0 W19ACNB0.1H0 W19ATCI0.1H0 W19APHW0.1H0 W19AKMW0.1H0 W19AMSW0.1H0

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Progressive Vector Diagram of Wind

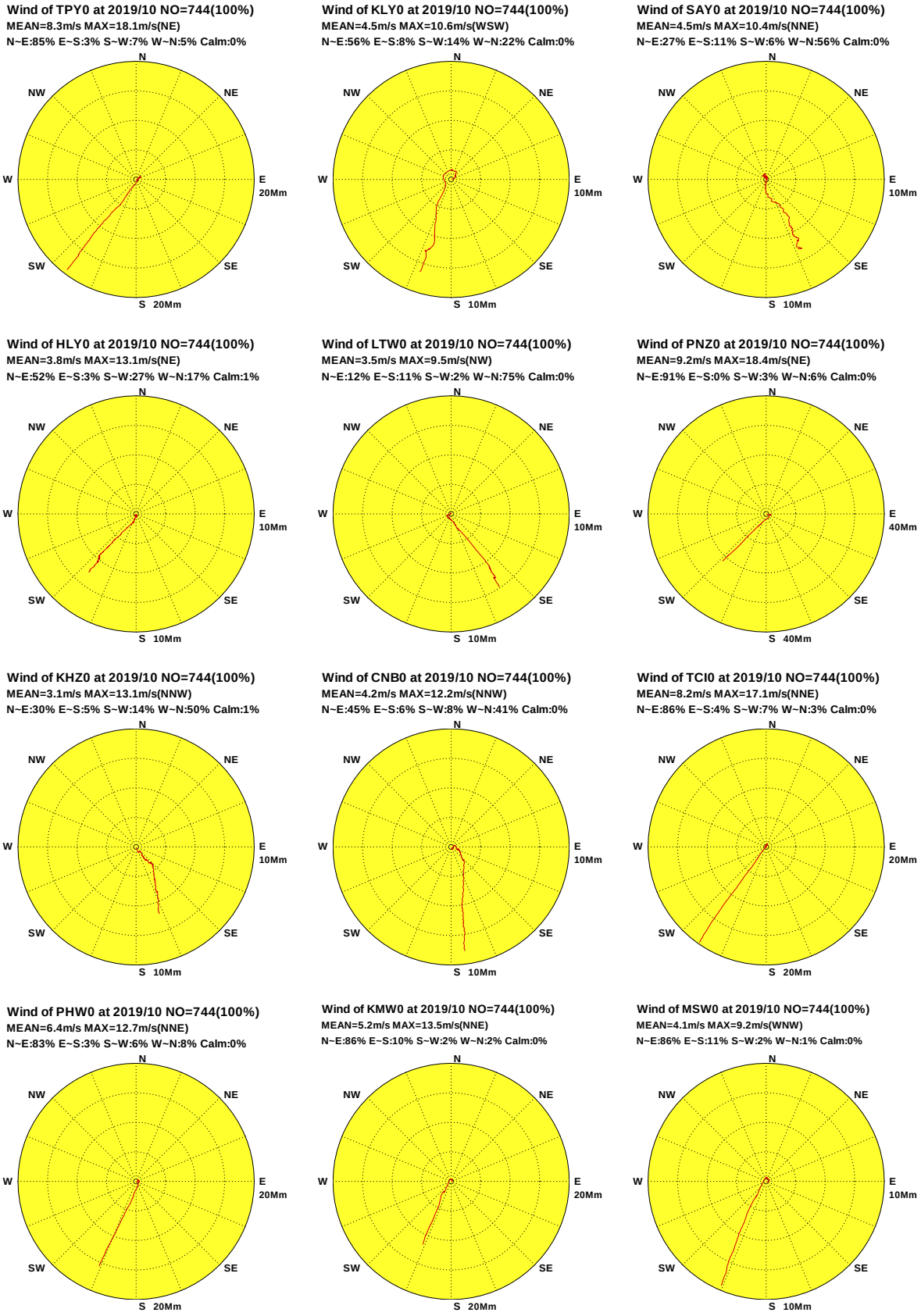

圖9.11b 2019年10月12海域主要測站2修補後觀測風向量行進圖

W19ATPY0.1HA W19AKLY0.1HA W19ASAY0.1HA W19AHLY0.1HA W19ALTW0.1HA W19APNZ0.1HA
W19AKHZ0.1HA W19ACNB0.1HA W19ATCI0.1HA W19APHW0.1HA W19AKMW0.1HA W19AMSW0.1HA

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Progressive Vector Diagram of Wind

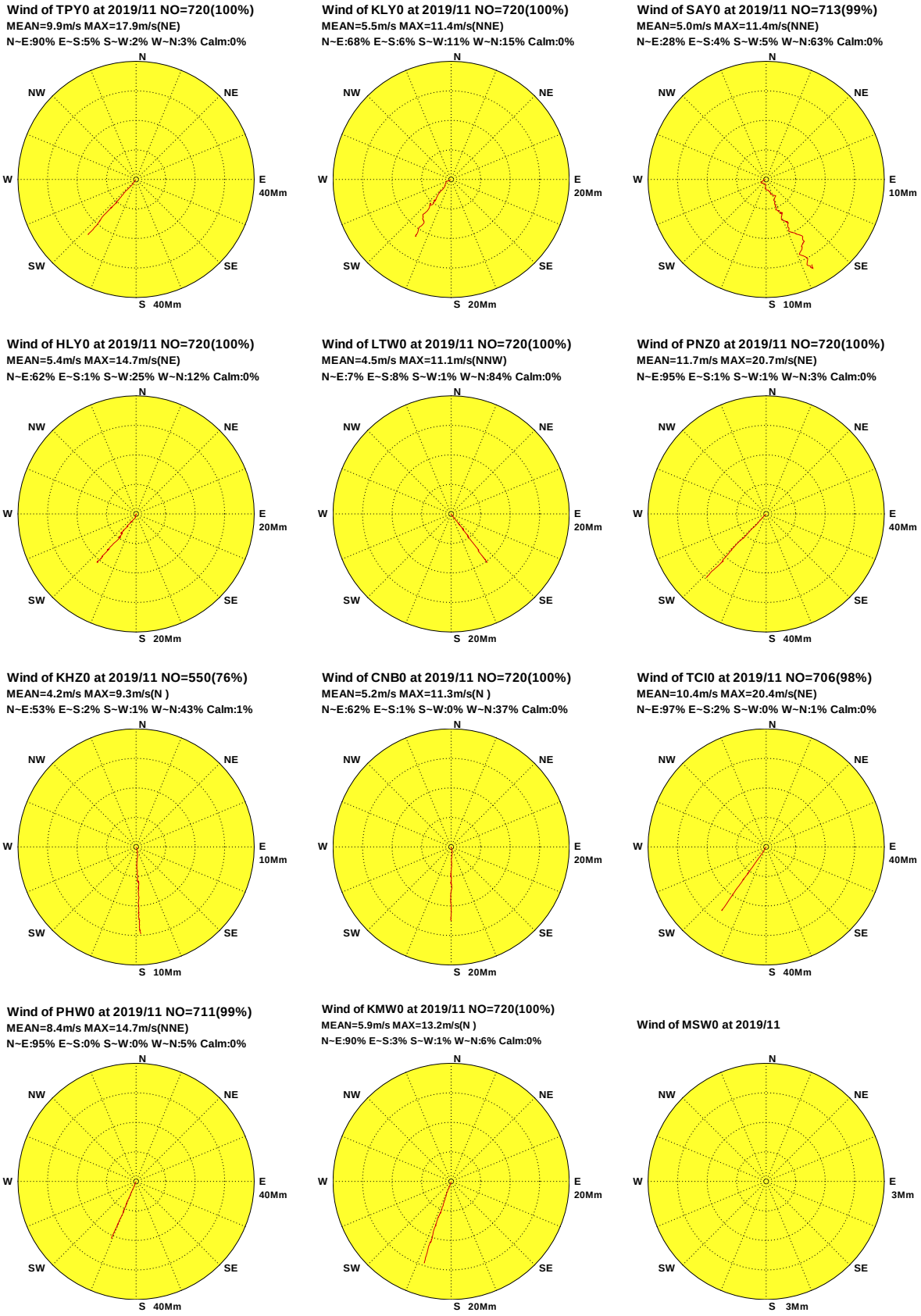

圖9.12a 2019年11月12海域主要測站2修補前觀測風向量行進圖

W19BTPY0.1H0 W19BKLY0.1H0 W19BSAY0.1H0 W19BHLY0.1H0 W19BLTW0.1H0 W19BPNZ0.1H0
W19BKHZ0.1H0 W19BCNB0.1H0 W19BTCI0.1H0 W19BPHW0.1H0 W19BKMW0.1H0 W19BMSW0.1H0

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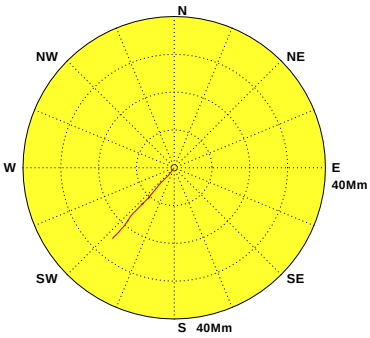
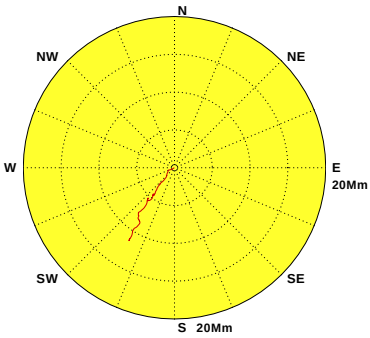
Progressive Vector Diagram of Wind

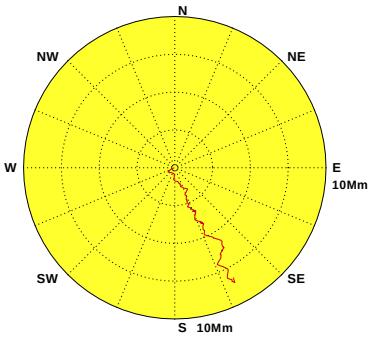
Wind of TPY0 at 2019/11 NO=720(100%)
MEAN=9.9m/s MAX=17.9m/s(NE)
N~E:90% E~S:5% S~W:2% W~N:3% Calm:0%



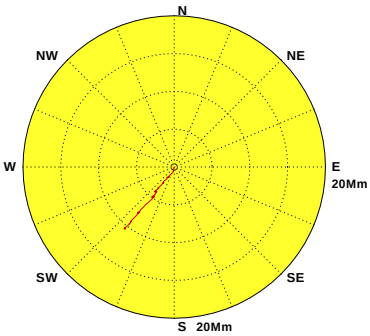
Wind of KLY0 at 2019/11 NO=720(100%)
MEAN=5.5m/s MAX=11.4m/s(NNE)
N~E:68% E~S:6% S~W:11% W~N:15% Calm:0%



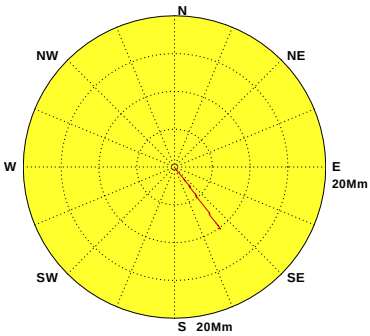
Wind of SAY0 at 2019/11 NO=720(100%)
MEAN=5.0m/s MAX=11.4m/s(NNE)
N~E:28% E~S:4% S~W:5% W~N:63% Calm:0%



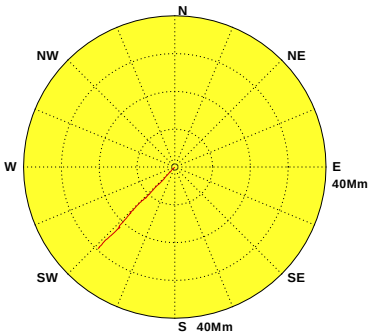
Wind of HLY0 at 2019/11 NO=720(100%)
MEAN=5.4m/s MAX=14.7m/s(NE)
N~E:62% E~S:1% S~W:25% W~N:12% Calm:0%



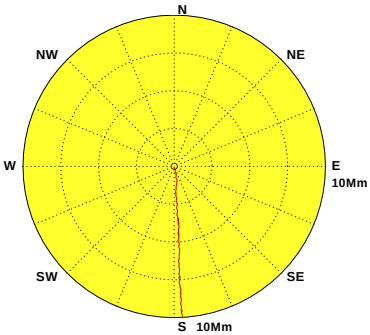
Wind of LTW0 at 2019/11 NO=720(100%)
MEAN=4.5m/s MAX=11.1m/s(NNW)
N~E:7% E~S:8% S~W:1% W~N:84% Calm:0%



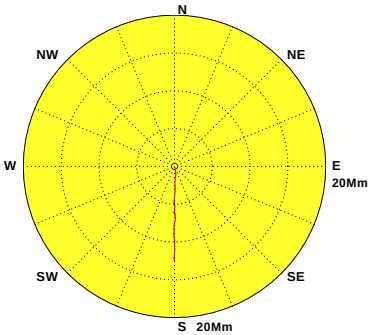
Wind of PNZ0 at 2019/11 NO=720(100%)
MEAN=11.7m/s MAX=20.7m/s(NE)
N~E:95% E~S:1% S~W:1% W~N:3% Calm:0%



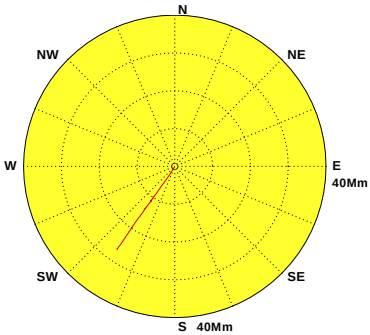
Wind of KHZ0 at 2019/11 NO=720(100%)
MEAN=4.2m/s MAX=10.0m/s(NNW)
N~E:53% E~S:2% S~W:1% W~N:44% Calm:0%



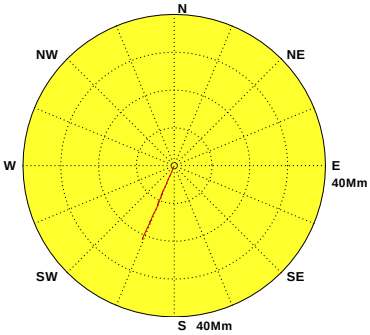
Wind of CNB0 at 2019/11 NO=720(100%)
MEAN=5.2m/s MAX=11.3m/s(N)
N~E:62% E~S:1% S~W:0% W~N:37% Calm:0%



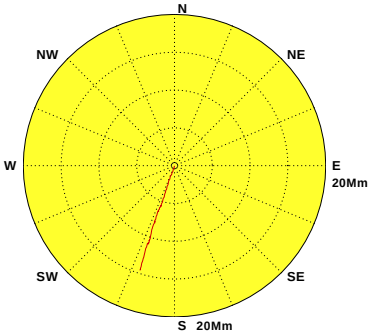
Wind of TCI0 at 2019/11 NO=720(100%)
MEAN=10.4m/s MAX=20.4m/s(NE)
N~E:97% E~S:2% S~W:0% W~N:1% Calm:0%



Wind of PHW0 at 2019/11 NO=720(100%)
MEAN=8.3m/s MAX=14.7m/s(NNE)
N~E:95% E~S:0% S~W:0% W~N:5% Calm:0%



Wind of KMW0 at 2019/11 NO=720(100%)
MEAN=5.9m/s MAX=13.2m/s(N)
N~E:90% E~S:3% S~W:1% W~N:6% Calm:0%



Wind of MSW0 at 2019/11 NO=720(100%)
MEAN=4.5m/s MAX=6.6m/s(N)
N~E:99% E~S:1% S~W:0% W~N:0% Calm:0%

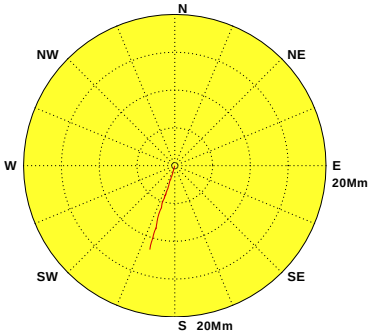


圖9.12b 2019年11月12海域主要測站2修補後觀測風向量行進圖

W19BTPY0.1HA W19BKLY0.1HA W19BSAY0.1HA W19BHLY0.1HA W19BLTW0.1HA W19BPNZ0.1HA
W19BKHZ0.1HA W19BCNB0.1HA W19BTCI0.1HA W19BPHW0.1HA W19BKMW0.1HA W19BMSW0.1HA

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